Sustainability Report



Highlights 2021







Carbon target baseline (scope 1 and 2)



Water target baseline



632

million euros

93% of order backlog are Taxonomy-eligible projects



baseline for Health and Safety target



Social aspects target baseline





recycled/reused/recovered

Letter to stakeholders

2021 proved to be a critical year for sustainability. The **global** pandemic continued to represent a great challenge for people's health and prosperity. The instability linked to the European conflict that began in the early months of this year exacerbated the existing economic crisis, worsening the difficulties in procuring raw materials and energy, and increasing the costs of supply. Climate change continues to gain ground resulting in increasingly frequent extreme weather events.

Against this backdrop, using resources more efficiently and reducing the impacts associated to production activities become an unavoidable necessity.

93% of the projects in our order backlog is eligible for the European **Taxonomy**. This means that they are potentially able to help mitigate and adapt to climate change, with 67% of the backlog dedicated to **mobility** projects intended to significantly reduce greenhouse gas emissions and 17% to projects that will improve access to water infrastructures. We produce energy from photovoltaic plants, thereby contributing to the transition to a low carbon society.

As the contracting company of these works, we are aware of the importance of committing to pro-actively fostering the ecological transition and increasingly consolidating our social responsibility. In 2021, we revised our corporate sustainability strategy by setting quantitative targets for 2030 in the main areas of environmental and social sustainability and strengthening the **governance** required to achieve them.

In 2021, the economic value generated directly by our activities, i.e. the overall wealth created for the stakeholders, amounted to 686.38 million euros, 92% of which was distributed to personnel, financers, suppliers and public administration.

We recorded a 30% decrease in greenhouse gas emissions associated with energy consumption, in comparison to 2019, and we have re-used or recycled 98% of our waste.

The health and safety of our workers remain the indisputable priority, also in response to the ongoing pandemic. In 2021, we renewed our commitment to investing in a shared work site safety culture through awareness-raising initiatives, training and continuous monitoring of performance.

In 2021, we contributed to value creation in the areas where we operate, with 96% of personnel being hired locally and 97% of supply costs allocated to local suppliers.

Ghella proved yet again to be a trusted partner for financial institutions who in turn commit to sustainability programmes by operating a strict selection when granting access to credit. Thanks to this, by December 2021 Ghella had obtained two green loans for a total of 70 million euros.

This Sustainability Report is therefore the **starting point** from which to measure progress against our set targets, and so align our ambitions with the expectations of stakeholders, in an ongoing, virtuous process of improvement.

In the past Sustainability Report we talked about paving the road: now we need to travel it together.

Enrico Ghella Chairman and CEO







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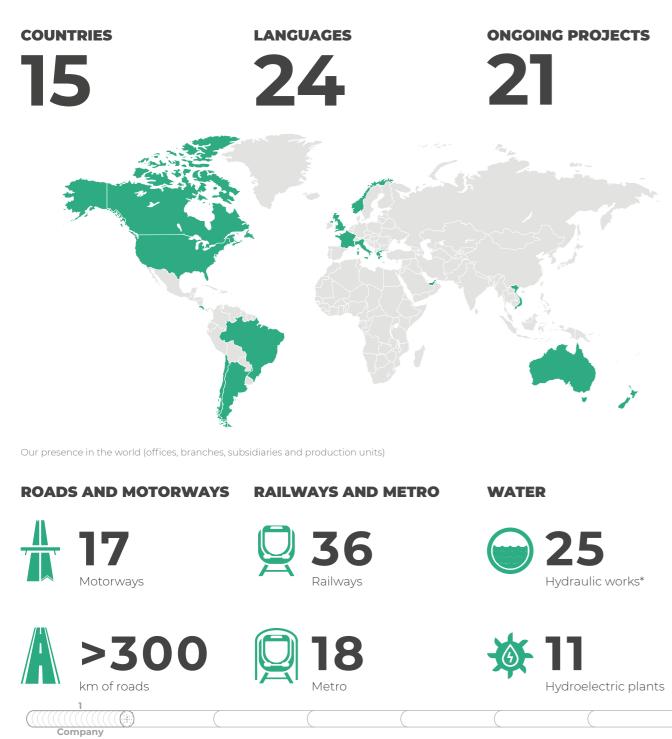
1 31 min

TUNNEL -Magda Flå

6 14 22 34 52 64 84 **P**-









Founded in 1894, we are a major global company in the sector of large-scale public works construction. Specialised in underground excavation, we build large infrastructure projects such as metros, railways, motorways and hydraulic works.

In 150 years, we have built more than 130 tunnels and connected over 1,000 km of motorways, railways and metros.

We support the idea of a business that aims to leave a better world to future generations.

We are also active in the renewable energies sector. We have built photovoltaic and hydroelectric energy production plants in Italy, Central America and the Middle East.

Our business is tantamount to society's well-being. We are committed to improving connections and mobility, reducing the impact on the environment and optimising the use of natural resources. Under the banner of top quality - this is how we build. In an innovative, sustainable way, with advanced technologies and cutting-edge construction methods, through an ongoing personnel training process.

Work safety and respect for the environment are primary issues for us. Economic growth and social development are the principles we foster in the areas where we work.

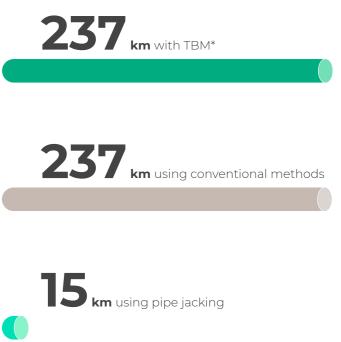
PHOTOVOLTAIC



Production data as of December 2021

* The 11 hydroelectric plants are included in the total of Hydraulic Works

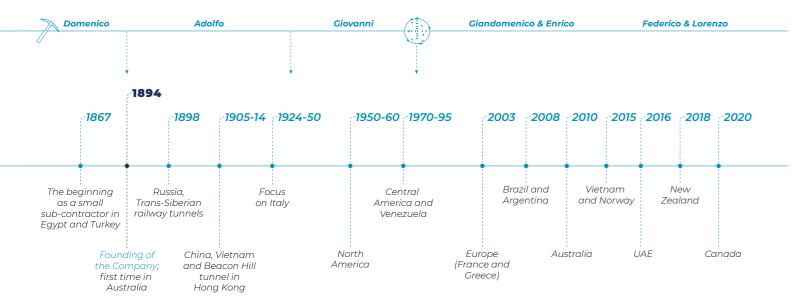
PRODUCTION km excavated







History and Tradition



From the time it was founded, more than 125 years ago, Ghella has witnessed modern history through 5 generations. Over time, it has succeeded in transferring knowledge and expertise, technical ingenuity and curiosity. Every generation has left the mark of its present, overcoming difficult challenges.

The company was founded in 1894, but the family's forefather, **Domenico Ghella**, was already active on a worksite in **1867**.

RELATED LINK

Ghella.com

History



Vision. Mission and Values

VISION Leave a better world to the next generations

MISSION

Our sustainability journey starts with our **Vision** of the future that we want to build by sharing our business mindset - a better world for the **next** generations.

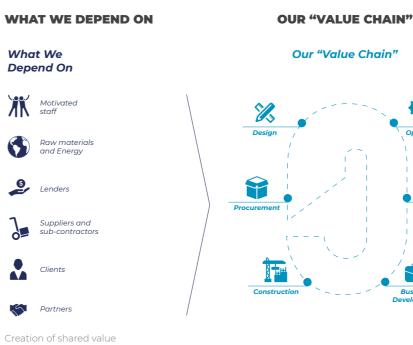
organisations, companies and civil society. This is why our daily activities revolve around our corporate **mission**, aimed at preserving and continuing our history as "constructors of excellence" pursuing innovation We are aware that this vision can and sustainability, and a clear set of guiding values.

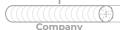
only be achieved by working jointly with multiple players: governments,

Creation of shared value

As a construction work company, we focus on the **quality** of their development, through technical excellence and innovation, while curbing construction-related environmental and social impacts, against a background of value creation for local areas and communities.

Our value chain is at the heart of a virtuous circle in which essential resources, such as personnel, raw materials or suppliers contribute to creating **shared value**¹ for the company and society. Hence, the creation of **economic value** for the company becomes a driver for **social** well-being through the construction of durable infrastructures, the promotion of sustainable mobility, as well as the training of personnel and the positive impacts which we can indirectly generate on the social and environmental







Build excellence in a sustainable and innovative way

Both our Vision and Mission encompass Sustainability as we strive to **integrate** its principles into all facets of our business - from **selecting** targeted projects to work on, through to the way we **carry out** our work, in strategic and management processes as well as in site operations.

performance of our supply chain. Community engagement activities, the professional growth of the local workforce and the technology transfer among the numerous countries where we operate help leave a lasting mark that outlives the construction phase of the work.

THE VALUE WE CREATE

Value We Create













Stakeholder engagement and the materiality matrix

The selection of topics to be disclosed in our actions. In line with the AA1000 Stakeholder Engagement sustainability reports is the result of a **consultation** Standard, we **mapped** the key players who engage with process, conducted in 2019, to understand how our our activities and selected them based on their ability to corporate sustainability strategy responds to the **priorities** of key **stakeholders** and to take any potential corrective them.

affect Ghella's objectives and results, or be affected by



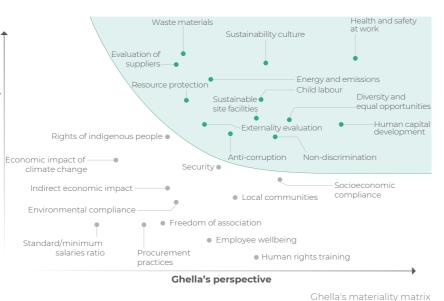
A representative sample of different internal and external stakeholders was surveyed in order to define, based on a selection of 29 proposals, a set of material topics – namely topics deemed to be critical for a 3-year period according to the interviewees' opinions.

We thus obtained our first materiality matrix, whose material themes reflect the major economic, environmental and social impacts for Ghella, and substantially affect the assessments and decisions of stakeholders.

The material themes are the main aspects that we focused our efforts on, by giving them relevance in our Sustainability Plan and setting for them 2030 quantitative objectives.

the most material topic before the Covid-19 pandemic and continues

"Occupational health and safety" was to be an absolute priority for us in all aspects of our business.



Our objectives

sustainability strategy through a multi-year plan, which is aimed at structuring and harmonising existing

With a view to spurring the initiatives and best practices as well **continuous improvement** of our as planning future initiatives within performance, we have defined a a framework of measurable and monitored objectives. We intend to contribute to the achievement of the goals set by the United Nations 2030



The United Nations have approved the Global Agenda for Sustainable Development in 2015 and the related (Sustainable Development Goals - SDGs)

Our "Building a better World' Sustainability Plan for the 2019-2022 period provides a single framework for the definition of our sustainability objectives and represents a tool to promote continuous improvement through performance **analysis and monitoring**. The plan outlines our systematic approach to the integration of sustainability goals into business processes. This is achieved by leveraging the shared responsibility and motivation of the production departments involved. By sharing it externally, the company's strategic direction can be conveyed to our stakeholders, thus strengthening our

PEOPLE «Contribute to a fair and inclusive society by operating at the highest standards of **Integrity** and guaranteeing the **Safety** and Wellbeing of all our Stakeholders, including the communities who benefit from the infrastructure we

help to create»

«Contribute to the economic growth of the areas where we operate by generating **Value** and creating opportunities, thanks to the high levels of **Quality** and **Innovation** that we bring into our projects»

Our commitments in the **3 spheres** - **social, economic** and environmental - in turn translated into actions aimed at achieving 8 macro-objectives. The topics embraced therein were defined through an analysis and integration of internationally recognised standards, such as ISO 26000 "Guide to social responsibility" and the SDGs, and reflect the values and guidelines expressed in company policies, while being aligned with our stakeholders' expectations. In 2021, Ghella began a corporate sustainability strategy consolidation process by setting **quantitative targets** for 2030 in the main areas of environmental and social sustainability and strengthening the governance required to achieve them.

The new targets are the result of an **internal workshop** carried out in November 2021 with the support of a top

Agenda for Sustainable Development (SDGs) - embraced by governments, organisations and companies at a global scale - with tangible actions aligned with such goals.

competitive edge in national and international calls for tenders. The sustainability plan translates our corporate vision into specific social, economic and environmental **commitments** towards our people (in terms of their safety and well-being) and communities. Our focus on value creation is expressed through our commitment to quality, innovation and local economic growth. It is precisely along these lines that we also consider the impact of our work on the environment - such as direct and indirect GHG emissions - both locally and at global level.







«Strive to integrate our built projects in the existing Local **Ecosystem** and to be active participants in the global effort to mitigate Climate Change»

strategic consultancy company. The event involved 55 participants including members of the Board of Directors and employees from 4 Continents, for more than 12 hours of consultation and discussion on corporate sustainability issues.

This definition of the quantitative targets exemplifies the company's commitment to not only pro-actively contributing to the ecological transition, but also reinforcing the company's social responsibility. By leveraging these targets, the aim is to initiate a virtuous cycle of precise and tangible actions in every operational area to generate ongoing improvement of the sustainability performance and to strengthen our role as a trusted partner of internal and external stakeholders.



OBJECTIVES



2. Promote the development of Human Capital and people Well-being

Consolidate a compliance and sustainability Governance at corporate level



3. Ensure continuous improvement of occupational Health and Safety performance



4. Reduce local **Environmental Impact**



5. Increase Energy Efficiency and reduce Greenhouse Gas emissions

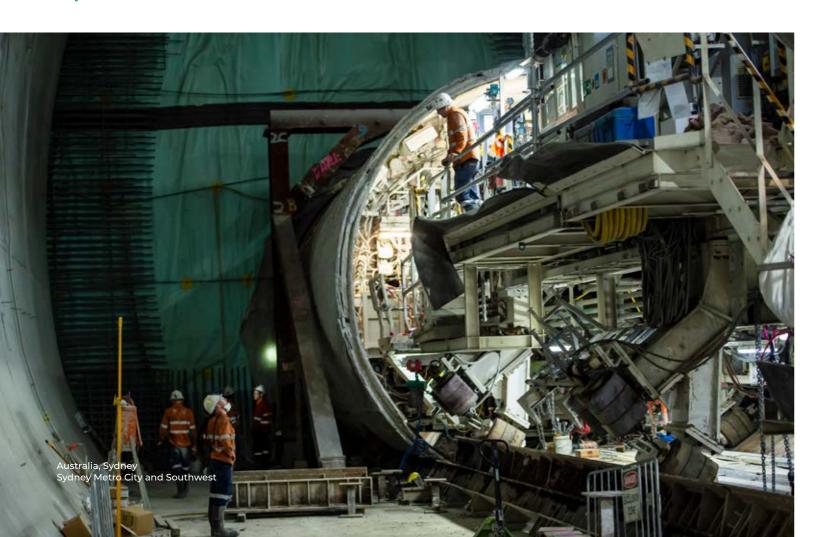


6. Promote a Sustainable Supply Chain and the efficient use of resources



7. Encourage Local Development and dialogue with Communities

8. Promote **Excellence** and **Innovation** in our reference market



ENVIRONMENTAL TARGETS



* Baseline year: 2021

External performance assessment

increasingly integrating sustainability into our business processes and our commitment was recognised in 2021 by international rating systems applied at corporate level.

We have maintained the **Platinum** rating level of the EcoVadis platform, the global independent rating supplier for Corporate Social Responsibility (CSR) rating us among the top 1% of the most competitive companies assessed. EcoVadis assesses suppliers operating in 160 countries and 190 purchasing categories based on 21 CSR criteria, grouped into 4 main themes (environment, labour and human rights, ethics and sustainable procurement) using a methodology that incorporates various international CSR standards, including the United Nations Global Compact, the Global

We have taken on the challenge of Reporting Initiative (GRI) and ISO 26000. The results of the EcoVadis assessment are used by over 65,000 companies.

> The EcoVadis rating is used as one of the covenants to monitor Ghella's sustainability performance for the purposes of "green" loans, such as that obtained from BNL GRUPPO BNP PARIBAS in 2020 with SACE guarantee.



SDGS

In 2019, we obtained the highest score (100/100) in an external audit performed by Achilles, a global platform that certifies supplier performance and risk levels. We confirmed this score during 2021 and 2022 updates. The Achilles certification covers 18 sustainability topics across the following 4 areas: Occupational Health and safety, Environment, Quality, Corporate Social Responsibility (CSR)







"I am happy to work in an environment where the key corporate value is to maintain a high professional, ethical and moral standards in everything we do and to operate for the common good and for the group as a whole."

Marco Tummarello CFO

Corporate Structure

Ghella S.p.A. (hereinafter also Ghella) is an indirectly owned unlisted joint stock company, whose indirect owners are Ghella Group S.r.l. (70%) and Geo 2007 S.r.l. (30%). While remaining a family-run business, Ghella's governance model has developed over time in tune with its sustained expansion into new international markets.

Ghella S.p.A.'s corporate structure consists of a Board of Directors (BoD) and a Board of Statutory Auditors, both appointed by the shareholders, independent auditors and a supervisory body as per Italian Legislative decree no. 231/01, appointed by the Board of Directors.

BOARD OF DIRECTORS

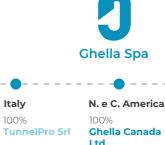
Chairman and CEO
Deputy Chairman
Deputy Chairman
Director
Director
Director

BOARD OF STATUTORY AUDITORS

Riccardo Gabrielli
Alberto Santi
Francesco Farina

| Chairman | Auditor | Auditor





Italy

100%

Europe

100%

Oceania

100%

Ghella Pty Ltd Ghella Norge Australia Norway Ltd Canada 23% 40% 90% 40% CBGU D&C JV Acciona -**Drill Pac Srl** Broadway **Ghella ANS** Australia, Subway Brisbane, Norway, Oslo Canada.Vancouve Railwav Railwav Metro 40% 49% 20% 10% John Holland AF -**Colmeto Scarl** Westend **CPB Ghella JV Ghella ANS** Turin, Connectors Norway, Oslo **Construction GP** Australia, Svdnev Hvdraulic Metro Canada, Toronto Hydraulic Metro 22,5% 40% 47,21% 100% Ghella USA CGU JV JV Ghella JP Brennero Tunnel Australia, Svdnev Corp. Avax Greece Athens Construction USA Hiahwav Metro Scarl Mules, Railway 33% 25% 16% 100% CPBG JV Saint Martin -Consorzio CFT **Ghella Sogene** Australia, Sydney La Porte SEP de Costa Rica Napoli - Bari Metro Railwav Costa Rica France. Railwav 100% 20% 33% **Ghella Limited** Eiffage GC, Frasso Scarl SBGC. Ghella. New Zealand Napoli - Bari Cogeis Railwav France. Saint Jean de Maurienne. Railway 70% **Ghella** 47.15% **Telese Scarl** Abergeldie JV Napoli - Bari New Zealand, Railwav Auckland Hydraulic 🌒 JV/Partnerships 🛛 🔵 Foreign subsidiaries 🔵 Italian subsidiaries

Corporate structure

100% ССМІ Argentina, Buenos Aires, Hvdraulic

S. America

71,1% Consorcio Ghella (SACDE)

Araentina. Buenos Aires, Railwav

35%

Consorcio CR Almeida -Ghella Consbem

Brasil, Sao Paulo Metro

Middle/Far East Concessions

30% Hyunday E&C -Ghella JV Vietnam, Hanoi Metro

30%

GRS, Acciona Ghella JV EAU, Dubai PV EPC e O&M Plant

100% **GIP Spa** Italy

100% 10 SPV Impianti FV Italy,

Photovoltaic

10% Pulse

Partnership

Australia, Brisbane Railway

60% GransolarGhella Srl Italv 23 SPV PV Systems 100%

23 SPV PV System Italy, Photovoltaic

40% Empresa . Hidroeléctrica los Negros Costa Rica. Hydroelectric plant

The **BoD** at Ghella S.p.A. is composed of six directors, four of whom are also shareholders. By its resolution of 30 May 2022, the BoD appointed to the Chairman and executive officer all-encompassing powers for the Company's ordinary and extraordinary administration, and the same powers to the two Deputy Chairmen in case of the Chairman absence and/or impediment. It has also assigned financial powers to the CFO and Director Dr. Tummarello. The Board of Directors is also in charge of providing guidance regarding the Code of Ethics, policies and guidelines.

In early 2022, the Board of Directors set up an **ESG Committee** as the board of statutory auditors at Ghella S.p.A. with the aim of defining Ghella's ESG strategy, identifying the priorities, commitments and objectives, in keeping with the company's business needs, and monitoring the progress of the activities and targets. In addition, the Committee is tasked with

identifying the ESG Representatives, at the corporate and country area level, assigning responsibilities and objectives in relation to the implementation of the strategy, and defining actions, initiatives and projects to achieve the company's ESG targets. The Committee is composed of ten members including shareholders and company management, representing specific business areas or competence, five of whom also hold executive roles.

The BoD approves the Sustainability Plan, the materiality analysis and the annual Sustainability Report, as presented by the ESG Committee.

The Board of Statutory Auditors is the internal control body that supervises compliance with the principles of correct administration, as required by Ghella's articles of association. It has three standing members and two alternate

members, appointed and effective pursuant to the Italian Civil Code. As required by the regulations in force, the statutory audit is performed by an independent Audit Company included in the special register, appointed by the Board of Directors. In implementation of It. Legislative decree no. 231/01, Ghella's Board of Directors has also set up a Supervisory Body comprising three independent members with threeyear terms.

The Compliance & Sustainability department reports to the **Corporate** Strategy Manager (who is a member of the BoD) and is tasked with coordinating the sustainability activities integrated into the various internal processes, supporting the ESG Committee in identifying areas for improvement, producing the annual sustainability report and guaranteeing alignment with international best practices.

Responsible business conduct

We have adopted a system of every phase of our business. The of principles, policies as well as practices and policies, developed management and control tools to from a clear vision of how we intend ensure the responsible management to create value, are the foundations of

CODE OF ETHICS

The **Code of Ethics** outlines our ethical and conduct principles, which all those who work to achieve the company's objectives are required to comply with. Directors must take the principles and values contained in the Code into account, when they set the business objectives.

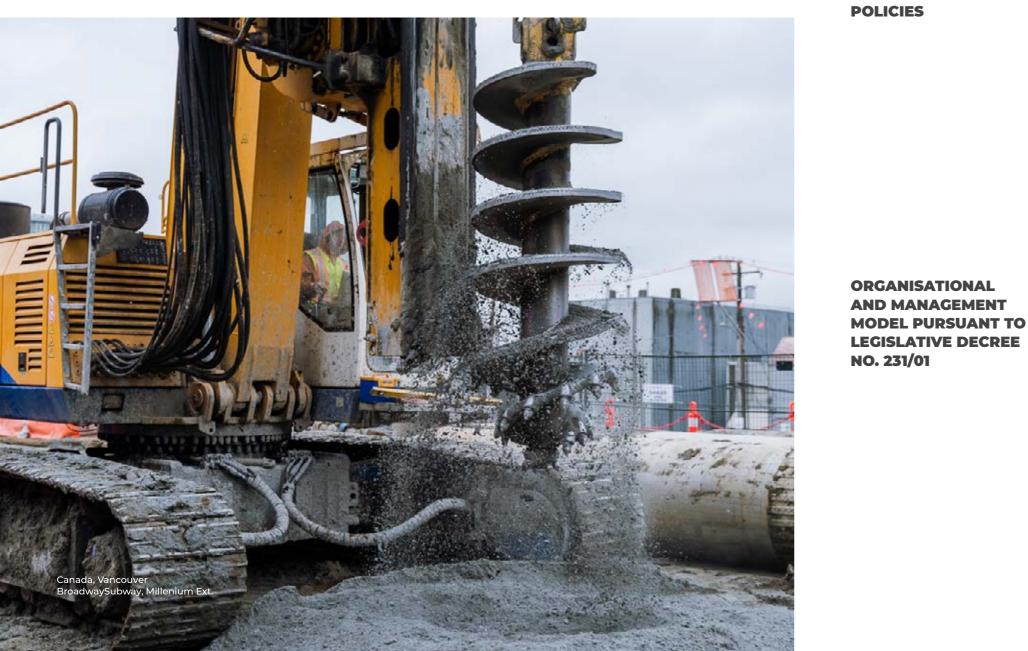
in 2020 in an updated version to reflect the Company's international expansion, can be consulted on our website ghella.com. It applies globally

We have implemented the following policies:

- Quality Policy;
- Health and Safety Policy;
- Environmental Policy;
- Sustainability Policy;
- Human Resources management policy;
- Appropriate workplace behaviour Policy;
- Equality, diversity and inclusion (EDI) Policy;
- Whistleblowing policy;
- SA8000.

Ghella S.p.A. has an Organisational, Management and **Control Model** aimed at preventing

the risks of committing crimes pursuant to It. Lgs.D. 231/01. The latter provides for the administrative liability of companies for criminal offences committed in pursuing their interests, punishable with fines and bans. These crimes include corruption, environmental and occupational safety crimes, crimes against industry and trade and anticompetitive practices, crimes against the individual (human rights and work practices), crimes of terrorism financing and transnational crimes. In



The New Code of Ethics, issued

to Ghella S.p.A. and its subsidiary and participated companies. It is binding for all directors, executives and employees in any country and in any way they offer their services. The Code is also intended for any third party that collaborates or works in the name of, on behalf of or in the interest of the Company.

the Integrated Management System,

which allows us to coherently and

uniformly manage our activities.

All employees periodically take part in a multilingual **training** programme on the Code's contents in e-learning mode.

• Sustainable Procurement Policy;

Policy for Social Responsibility -

All of our policies are signed by the Chairman and CEO, shared within the employee induction process and made available on the intranet portal and on our website ghella. com. They are reviewed annually during the Management System Review to ensure consistency with the Company's Mission and Vision.

2021, the Board of Directors adopted the updated version of the Model pursuant to It. Lgs. D. 231/2001 as amended.

The Supervisory Body, which is an independent control body, supervises the working of, and compliance with the model and makes proposals for its updating. It also promotes suitable communication and training initiatives aimed at raising awareness of the model with all employees.



MANAGEMENT SYSTEM

Given our footprint in many culturally different countries, we have a multi-site Integrated Management **System** for Quality, the Environment and Occupational Health and Safety as part of our organisational model. This system reflects Ghella's standardised organisational and operational approach while giving the individual local units the organisational independence necessary to comply with local legislation and clients' requirements.

Company principles and guidelines are shared with internal and external stakeholders through our website while procedures are shared internally with each worksite via the company intranet.

The system is certified in accordance with the international standards ISO 9001: 2015, ISO 14001: 2015 and ISO 45001: 2018,

ANTI-CORRUPTION

To cope with the potential corruption risks on the group's business, Ghella S.p.A. and its subsidiaries adopted **anti-corruption** guidelines containing a system of rules and checks underlying their relations with stakeholders. These guidelines set out the measures to be taken, in compliance with the principles of Transparency International and with the main international standards and best practices, and the checks to be carried out, including the performance of due diligence on third parties to assess

which ensure our management and oversight of internal processes in line with the Quality, Health and Safety, and Environment frameworks and their ongoing improvement.

The system applies to all of Ghella's activities carried out at our worksites. As for contracts where we operate as part of a Joint Venture, the Management System is designed ad hoc considering each partner's Management System. In this case, Ghella participates in the design of the shared system to ensure that our principles and rules are fully integrated in the joint venture's svstem.

In 2021, we started the process to certify our Management System according to the SA8000 standard. This was successfully completed in February 2022 when we obtained the "Social accountability certification".

their integrity and reputation.

The Compliance & Sustainability department provides specialist support to ensure the implementation of the anti-corruption guidelines which can be found on our website ghella.com. The guidelines are also adopted by subsidiary and participated companies and all employees periodically take a multilingual e-learning training programme on their contents.

HUMAN RIGHTS

Dignity and respect for people are pillars of our corporate culture: we are committed to operating in accordance with international best practices in all our activities around the world, in order to prevent any human rights violations. This requires not only a code of ethics shared by all employees and collaborators, but also a set of rules, principles and checks aimed at ensuring integrity, transparency and strict adherence to the laws.

The Human Rights Guidelines provide our internal and external stakeholders with a tool to identify and prevent potential Human Rights infringements. Below are our main reference frameworks:

- the UN Universal Declaration of Human Rights;
- Labour Organisation (ILO);
- of the Child;
- Rights;
- Rights at Work;
- Principles of UNICEF.

non-binding principles such as:

- UN Global Compact Principles & "A develop a Human Rights Policy";
- OECD guidelines Multinational Enterprises;
- Guiding Principles on Business



• the eight Fundamental Conventions of the International

• the UN Convention on the Rights

• European convention on Human

• the ILO Declaration on Fundamental Principles and

Children's Rights and Business

We also take into consideration

Guide for Businesses: how to

and Human Rights: Implementing the United Nations "Protect, Respect and Remedy" Framework;

ILO Tripartite Declaration of Principles Concerning Multinational Enterprises and Social Policy.

We forbid every form of child labour, nor do we tolerate any work that, by its nature or due to the circumstances it is conducted in, could harm the health, safety or morals of minors. We declare our commitment in the following policies:

- Policy for Social Responsibility -SA8000;
- Guideline on Human Rights;
- Sustainable Procurement Policy.

We urge all our partners and suppliers to embrace the same principles. In this connection, we have defined and implemented specific human resource management procedures as well as supplier qualification and assessment techniques, commensurate to the child labour risk.

Since 2020, our Australian subsidiary Ghella Pty Ltd needs to fulfil the requirements of the Modern Slavery Act 2018 (Cth) (Commonwealth Act). In particular, Ghella Pty Ltd prepared and published a Modern Slavery Statement for the years 2020 and 2021 describing the modern slavery risks in production activities and in the supply chain, and the measures taken to mitigate them. The Modern Slavery Statements are accessible to the public at www. modernslaveryregister.gov.au.

WHISTLEBLOWING

Ghella S.p.A., its subsidiary and associated companies have adopted a **whistleblowing** policy that establishes how to make confidential reports about infringements or suspected violations of the code of ethics, policies, company guidelines, crimes envisaged by Model 231 or other irregularities in the application of internal procedures. This policy is disclosed through reporting channels made available to the employees and external stakeholders. A guided IT portal was set up as the preferred conduit to submit reports, guaranteeing confidentiality for the whistle-blower's identity.

In 2021, we held a multilingual e-learning training course on the content of the policy and the use of the IT portal. As described in our Social Responsibility policy, reports on relevant themes can also be sent to the Social Performance Team. It is also possible to contact the Certification Body for the SA8000 System or, alternatively, the Accreditation Body for the SA8000 standard.

RISK MANAGEMENT

of the context, in a view of riskbased thinking, we pinpoint and periodically update the main risks and opportunities, at our work sites and offices, linked to factors identified as the most relevant for achieving company objectives and the satisfaction of stakeholder expectations.

The selection of the possible threats is followed by the definition of structured actions aimed at mitigating the probability of occurrence or impact that the event

Downstream of the analysis the context, in a view of risksed thinking, we pinpoint and riodically update the main risks d opportunities, at our work would have on the organisation or on the external context once it has occurred. In the same way, we identify actions that make it possible to seize opportunities.

> On an operational level, we conduct an annual analysis and sixmonthly monitoring of the exposure to risks and track progress on the mitigation actions, in conjunction with Corporate department managers and the Risk Managers at site level. The results of these analyses are presented to the Board of Directors.

> > Australia, Sydney Sydney Metro City and Southwest





"Operating sustainably means making an active contribution to the development of an area's economic well-being and a community's growth"

Luca Paioletti

Country Manager Norway

of the construction of complex infrastructural works that contribute to the development and progress of the countries where we operate.

Our projects, mainly in the railway, subway and hydraulic works sectors, are designed to bestow a lasting legacy on the residents of the cities and areas in which we work, facilitating their transition to increasingly sustainable lifestyles.

From the analysis of the entire **5.** order backlog, based on the Taxonomy indications, we have found that 93% of our activities are eligible for the European classification, 5.3 Construction, extension and

Our work is an important part meaning that they are potentially able to help mitigation and adaptation to climate change. Specifically, of the economic activities mentioned in 6. Transport Annex I of the Delegated Regulation (EU) 2021/2139, our projects are 6.14 Infrastructure for rail transport; allocated in the following areas:

operation of wastewater

collection and treatment;

6.15 Infrastructure enabling road

transport and public transport.

4. Energy

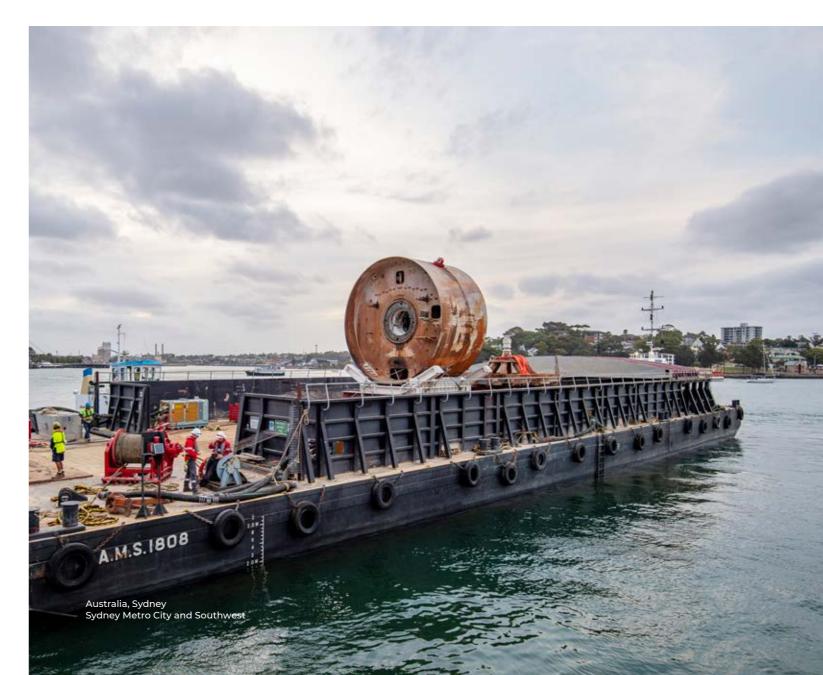
- 4.] Electricity generation using solar photovoltaic technology;
 - Water supply, sewerage, waste management and remediation activities



Order backlog by activity: we proceeded with the following classification, on the basis of annex I of the delegated Regulation (EU) 2021/2139:



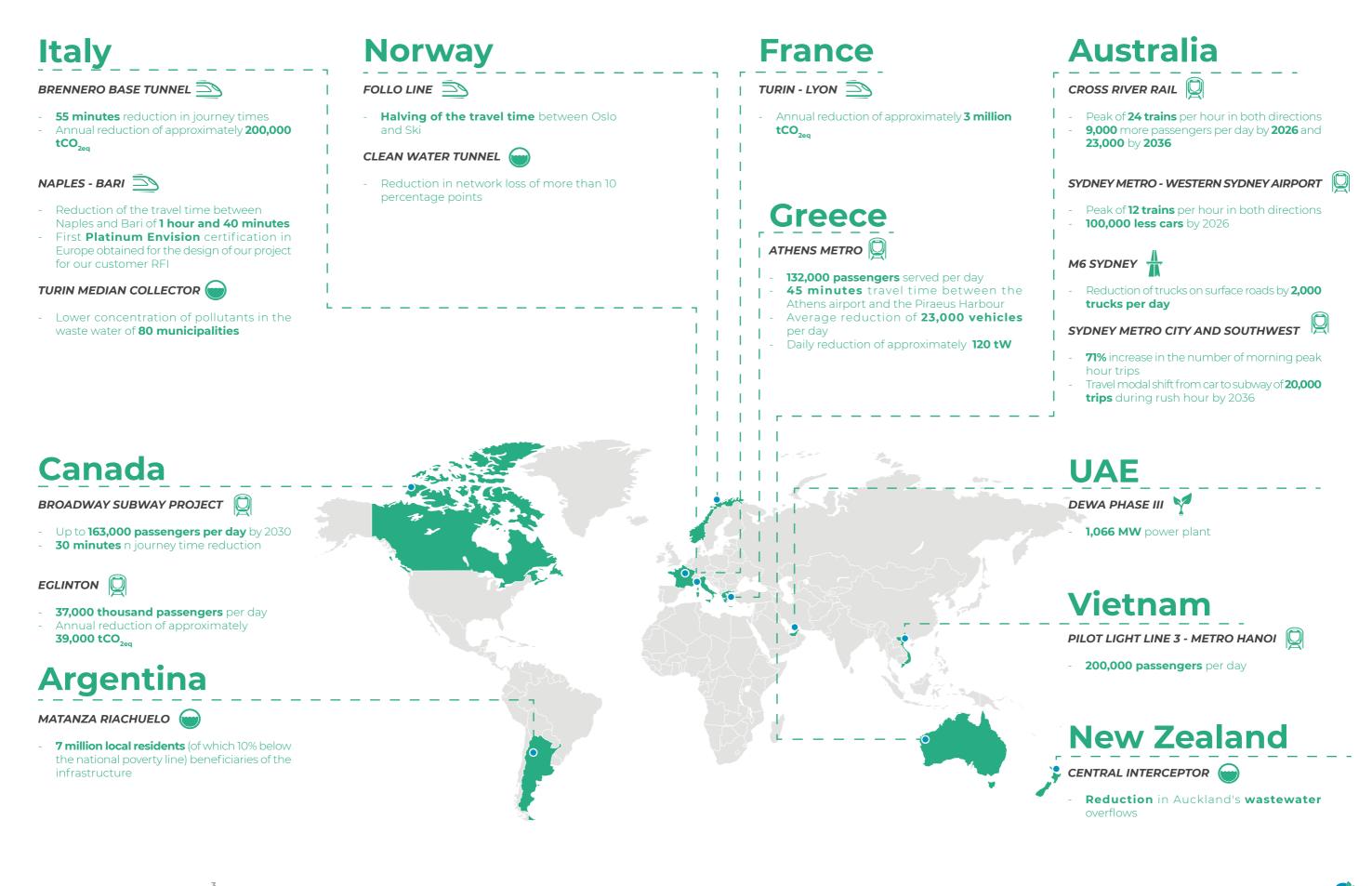
The infrastructural projects that we are working on are particularly important with regard to the economic recovery following the pandemic and our country's commitments made with the European Union within the Next Generation EU. In particular, the Italian National Recovery and Resilience Plan (NRRP) includes "Infrastructure for sustainable mobility" within its six missions. This implies that, at the heart of Italy's plan to kick-start its economic relaunch, is the construction



industry, Ghella's core business, and that sustainability, already an integral part of its operations, is even more indispensable.

The current European geopolitical scenario and its repercussions on a global level pose further attention on the need to use raw materials and energy resources more efficiently, in this way contributing to the acceleration of the sustainable transition in the world of infrastructures.







SUSTAINABLE MOBILITY RAILWAYS

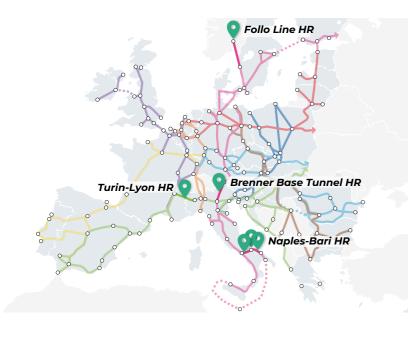
Our railway works facilitate the transition from **road** to **rail**. We work on strategic national and international transport corridors, improving the **mobility** of people and goods and making positive contributions to the reduction of atmospheric emissions and fossil fuel consumption associated with transport.

All our European projects in the railway sector are part of the Trans-European Transport Network (TEN-T): a set of integrated transport infrastructures envisaged by the European Community to support the single market, facilitate the free movement of goods and people, decrease the use of road transport and strengthen the growth, employment rate and competitiveness of the European Union. Our Follo Line project, the Brenner Base Tunnel and the high speed Naples-Bari railway are part of the Scandinavian -Mediterranean Corridor while the high speed **Turin-Lyon** railway is included in the Mediterranean Corridor project as part of the Trans-European rail network.

The 22-km double-track **Follo Line** will halve the travel time between Oslo and the satellite city Ski and develop the existing railway transport system, making it more competitive in terms of journey times and travel quality and therefore reducing city traffic due to commuting. The benefits of this project extend to the urban planning sphere and to the decongestion of the Norwegian capital, thanks to the improved connection with nearby Ski and the possibility offered to the inhabitants of Oslo to reside outside the city while being able to commute with a pleasant travel experience.

At the end of 2021, the Follo Line project was roughly 97% completed.

Once finished, with its 55-km track between Innsbruck and Fortezza, the Brenner Base Tunnel will be the longest underground railway connection in the world. In addition to offering an alternative to the road transport mainly used for the northsouth connections between Austria and Italy, the new line will reduce travel time by 55 minutes compared to the existing railway connection. This will be achieved by eliminating the steep slopes of the current line and employing longer trains with increased freight load capacity, which will require less power and energy. Furthermore, our BBT client estimated the reduction in CO_{2ed} emissions associated with the new transport option resulting from the tunnel construction. Traffic scenarios were scrutinised including an estimate of the amount of CO_{2eq} associated with the construction stage - hence considering the so-called "zero project hypothesis".³ A time of about 14 years has been estimated to offset the CO₂, emissions associated with the construction of the Base Tunnel,



with a subsequent tCO₂₀₀ saving of about 200,000 tonnes every year of the infrastructure's life cycle.

Work on the Brenner Base Tunnel commenced as contractually provided for in September 2016 and is slated to take around 7 years overall. At the end of 2021, the contract was approximately 70% completed.

We are involved in three lots of the **High speed/high capacity** Naples-Bari railway line, which has been identified as a priority in the list of structural investments set out in the "Sblocca Italia" law of 2014 and recently included in the National Recovery and Resilience Plan submitted to the European Commission for the purposes of the Next Generation EU package. These lots are the Cancello-Frasso Telesino, Frasso Telesino-Telese and Telese-San Lorenzo-Vitulano sections. The project is of vital importance to southern Italy's development and will increase train service accessibility in the two areas that together account for more than 40% of the entire market output of southern Italy, covering a macro area of 15 million residents including areas at risk of depopulation.

Upon completion, the travel time between the cities of Naples and Bari will be 1 hour 40 minutes shorter, taking just 2 hours overall, while the time required to travel between Rome and Bari will decrease by 1 hour, making it a 3-hour trip. The new line will take on part of the freight currently transported by road and bring about a reduction in CO₂₀₀ emissions, thus contributing to achieving the goals set in the EU's transport white paper, i.e., shift 30% of long-distance (over 300 km) road freight to rail transport by 2030 and 50% by 20504. In addition, our client RFI was awarded the Envision Platinum certification, the first project in Europe to achieve this certification, for its design for the Frasso Telesino-San Lorenzo section (which incorporates two of the lots awarded to Ghella). The Envision protocol is a sustainable infrastructure rating system, originally introduced in the US and subsequently adopted in other countries, and assesses a project's performance in terms of

quality of life, stakeholder engagement, the responsible use of natural resources, protection of the environment, flora and fauna, CO2 emissions and infrastructure resilience.

At the end of 2021, production on the Cancello-Frasso Telesino lot was roughly 53% complete. During 2021, in addition to setting up the work sites and reclaiming the areas, initial support and foundation works began in the Frasso Telesino-Telese lot, as well as some excavation and surface stripping works. In the Telese-Vitulano lot, with the approval of the Final Design, works have been scheduled to begin in 2022.

99%

Our project at Saint Martin La Porte for the Turin-Lyon railway line represents another example of benefits associated with the reduction of road transport. The railway link is of the contract is about 8 years and

SUBWAYS AND LIGHT RAILS

Our projects in the **subway and light rail** sector are designed to improve mobility infrastructure in highly populated cities like Sydney, Brisbane, Hanoi, Athens, Toronto and Vancouver, hence contributing to reducing direct and indirect emissions related to the use of cars and improving the quality of life of the cities' residents.

The Sydney Metro City & **Southwest** project involved the excavation of 15.5 km of twin tunnels running 40 metres below the bay. In addition, 6 stations were built for the new metro line, some of which in the City Business District - the economy's beating heart in the main Australian city. Our client Sydney Metro has estimated that the work will bring a 71% increase in the number of journeys made in the morning rush-hour and a car-to-subway shift for 20,000⁶ trips during rush hour by 2036. thus significantly reducing city congestion. Other benefits for passengers include reduced train overcrowding and higher commuting quality.



The project received several sustainability awards including the Environment and Sustainability Initiative of the Year at the New Civil Engineer (NCE) Tunnelling Festival 2019 for its sustainable management of uncontaminated excavation material, transported by barge rather than by road and fully re-used in construction projects in the Sydney area. In 2020, the project obtained two important awards confirming

major European transport axes, north-south and east-west, therefore playing a particularly crucial role for the transport of goods and people. The cost-benefit analysis⁵ conducted by our client TELT on the Turin-Lyon line estimates that the construction of the new line will lead to an annual elimination of about 1 million heavy road vehicles and therefore an **annual** reduction in greenhouse gas emissions of around 3 million tCO₂₀₀ equal to those produced by a city of 300,000 inhabitants. Excavation work for the Saint Martin La Porte project began in January 2015. At the end of 2021, production had reached about

With a new joint venture, in September 2021 Ghella was awarded Lot. N.1 to build the main tunnel of the new Lyon-Turin railway line on the French side. The expected duration

improvements to the community's located at the intersection of two as at 31 December 2021 the activities focused mainly on the organisation of the consortium.

RELATED LINK



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its high quality and innovation levels: the Major Project of the Year at the International Tunnelling Association (ITA) Awards and the Tunnelling Project of the Year at the NCE Tunnelling Festival 2020. Lastly, in May 2022 the project won the prestigious Australian Construction Achievement Award

Thanks to an effective work acceleration schedule, the project was



completed about one year ahead of the November 2022 contractual date, with the delivery of the last station, Barangaroo, in November 2021 and minor works completed in the first quarter of 2022.

Commenced in the second half of 2019, the **Cross River Rail** project is a light rail project in Brisbane, Australia. It includes the boring of 5.9 km of tunnels under the Brisbane River and the City Business District, the city's financial centre, the construction of four new stations and the upgrade of two existing ones. The project covers a fundamental role for the city's transport system. By building a second underground crossing of the river, currently a bottleneck for the city's rail traffic, it will reach a peak of 24 trains per hour in both directions. An estimated increase of 9 thousand passengers per day is expected by 2026 and 23,000 passengers per day by 2036, with a reduction of 526,000 km of average daily distances travelled in private vehicles. With respect to travel quality for the rail passengers, peak waiting times are expected to decrease by 24% and up to 29% by 20367.

The project-related benefits for the local community also concern the construction stage. In 2021, the Cross River Rail project was named Large Employer of the Year at the Queensland Training Awards for 702,000 hours of training completed, 348,000 of which were delivered to apprentices and interns. Furthermore, the project won the 2021 QHMCA (Queensland Major Contractors Association) Innovation and Excellence Sustainability award for using crushed recycled glass as an alternative to natural-origin aggregates and quarry products⁸ . Lastly, in April 2022 the project

won the Gold Quill Award of the International Association of Business Communicators (IABC) with its publication on "10,900 ways to build a social license".

The overall production reached about 45%, with the entire excavation of the tunnel completed by the end of 2021, as per schedule.

In December 2021 Ghella, with CPB Contractors, was chosen by the New South Wales Government to build the Station Boxes and Tunnelling Works for the Sydney Metro-Western Sydney Airport line. This contract involves the design and construction of about 9.8 kilometres of twin tunnels and excavations for 4 stations. The new metro line will connect the residential area of Western Parkland City with work hubs and will be the main connection to the city centre for the Western Sydney International airport, in turn a catalyser for local development served by the new metro connection. It is estimated that the construction of the line alone will create 14,000 jobs⁹, with another 28,000 by 2031 associated directly or indirectly with the construction of the airport served by the new line.

The new line will have a peak of 12 trains per hour in both directions, with an estimated modal shift of 110,000¹⁰ cars less on the roads by 2056. The Broadway Subway Project in Vancouver, Canada, started in 2020.

This new line is an extension of the Millennium Line, which is part of the SkyTrain system, and will cover 5.7 km running under and above ground through six new stations.

The Broadway Corridor is the most densely populated area in British

Columbia not yet served by a rapid transit system while its population continues to rise (expected increase of 57% by 2040). At present, 59% of the local transport is by road, creating bottlenecks for the freight transport which uses the same corridor.

The Broadway Subway will serve between 143,000 and 163,000 passengers a day by 2030 and between 167,000 and 191,000 by 2045. It will make a significant contribution to reducing GHG emissions thanks to the shift from road to rail transit. Once complete, the Millennium Line will take 11 minutes, saving passengers 30 minutes a day. The new line will also replace the B-line fleet of diesel buses with the SkyTrain electric trains, generating additional reductions in greenhouse gas emissions.

In 2021, work began on all of the stations, while tunnelling will start in the summer of 2022. The contract is currently 20% completed.

In May 2021, along with two major Canadian construction players, Ghella signed a contract for the Toronto metro, the **Eglinton Crosstown** West Extension tunnelling projects (ECWE), extending the tunnels of the line of the same name by another 9 kilometres.

The project meets the population growth estimates of the GTHA (Great Toronto and Hamilton Area) from the current 7 million to 10.1 million by 2041. It has been estimated that by the same year, the project will help increase the percentage of the population of the GTHA having a station within walking distance from the current 38% to 49%¹¹. There will be an estimated traffic of 37,000 passengers per day, leading to an estimated reduction of 39,000 tCO₂₀₀

linked to the modal shift from car to in the workforce. At the end of 2021, train.

In 2021, the design activities were developed and the construction of the launching shaft for tunnelling was completed. Excavation began in April 2022. The contract was 10% completed at the end of 2021.

The Pilot Light Line 3 of the Hanoi Metro is part of an important project funded by the Asian Development Bank (ADB) to encourage the country's economic growth and decongest the Vietnamese capital's traffic by creating a new integrated public transport system with eight metro lines to be completed by 2050. The new metro system has been designed to meet the need to align the city's transport infrastructure with its huge demographic growth of the last decades (the capital has a population of nearly 8 million residents with an average age of 27)¹². At present, around 90% of the transport modal share is held by private vehicles, mostly motorcycles, which will presumably be replaced by cars thanks to the steady growth in per capita income.

Once fully operational, the metro will have a capacity of 200,000 passengers a day and Line 3, also known as Văn Mieu Line (Temple of Literature Line), will be the city's most used underground network. The project will contribute significantly to reducing GHG emissions and ensuring better air quality, to the benefit of the residents' health and safety. In addition to the numerous environmental and economic advantages of this important infrastructure, the contractors will pool their technologies and technical expertise during the project's performance, involving local resources

the Pilot Light Line 3 project was around 30% complete, for the 4 stations only, and is currently put on hold.

Once completed, the extension of the **Athens Metro** to Piraeus Harbour will serve an average of 132,000 passengers per day. The new line will make it possible to travel directly from Athens International Airport to the harbour in 45 minutes. Our client Attiko Metro has estimated¹³ that there will be an average reduction of 23,000 vehicles per day in that area for a daily reduction of about 120 tCO_{2eq}.

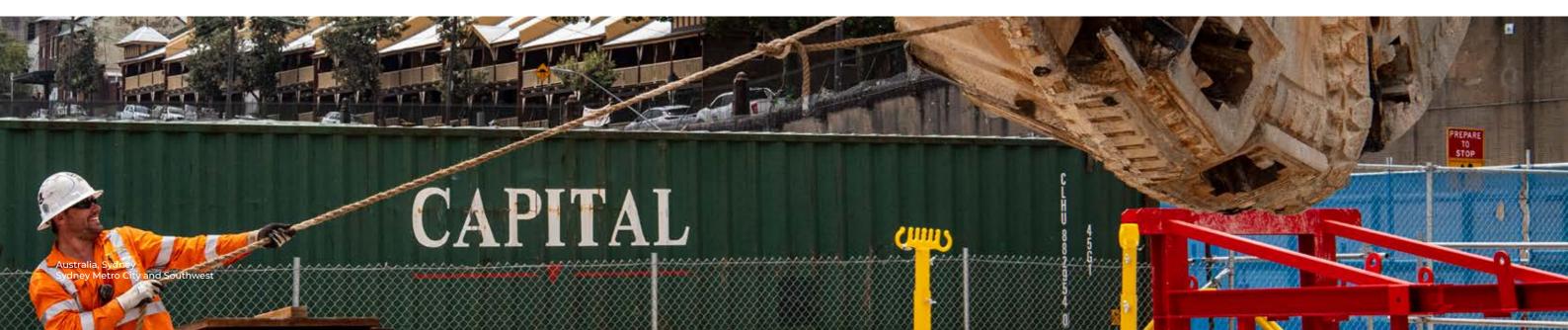
In addition to the technical challenges posed by the different geological formations encountered during the excavations, significant archaeological finds were made during the works, thus taking part in the discovery of major artefacts now preserved in the state archives. Some of these will be exhibited in the metro stations, which will be turned into unmissable, worth-seeing museums.

Three of the six stations of the Athens Metro were opened to the public in July 2020 and are now in use. At the end of 2021, more than 94% of the project had been completed.

ROAD PROJECTS

In May 2021, in a joint venture with CPB Contractors and UGL (CIMIC Group), Ghella was chosen by the New South Wales Government to deliver the first stage of the **M6 motorway** of Sydney project.

Stage 1 of the M6 will connect the South Sydney areas to the city's broader motorway network by creating 4 km of twin tunnels and



a connection ramp. By moving the road traffic underground, vehicles will avoid 23 traffic lights on Princes Highway, thus significantly cutting travel time and traffic congestion. At the same time, the section of surface road will be more available to the local community, also through the addition of new bike lanes. We have estimated that the project will reduce the number of lorries on surface roads by more than 2,000 units / day¹⁴.

The design activities are at an advanced stage and excavation in the main site of Arncliffe began in February 2022.

WATER INFRASTRUCTURES

All our water works, for the Matanza Riachuelo wastewater network project in **Argentina**, the Central Interceptor project in **New** Zealand, the Median Collector project in Turin, **Italy**, and the Clean Water Tunnel for water supply in **Norway** are conceived to improve the living conditions of local communities and mitigate their environmental impact.

The Matanza Riachuelo Project is one of the most important water purification projects at international level. It will significantly reduce the pollution of Rio de la Plata, one of the world's most polluted rivers, and improve the quality of life of the local population. This project is part of the Matanza-Riachuelo Basin (MRB) Sustainable Development Project, funded by the World Bank, involving 7 million local residents, of whom 10% live below the national poverty line¹⁵. The area where the worksite is located is mainly residential with very varying socio-demographic characteristics and also includes businesses. warehouses and commercial areas. As a result, the local communities' needs have been given priority in a strategy designed to manage all stakeholders' expectations.

In 2021 the final surface works were carried out, the wells and tunnels and the last minor Pipe Jacking excavations were completed, as well as all of the dismantlement. At the end of 2021, the project was roughly 98% complete.

Watercare's Central Interceptor project commenced in New Zealand in 2019 to bore the longest wastewater tunnel in this country with a length of 14.7 km. In older parts of Auckland, wastewater and stormwater flow into a combined network of pipes. When it rains heavily the wastewater can overflow into creeks and streams. The Central Interceptor tunnel will help reduce Auckland's wastewater overflows. The new wastewater system is sized to serve the city's growing population for another 100 years.

The Central Interceptor project is due for completion in 2026. At the end of 2021, approximately 35% of the work had been carried out.

Work on the **Turin Median Collector**, awarded in April 2019, comprises the design and development of the median wastewater network in the southwestern area of Turin (Italy) and the rehabilitation of the existing southern system. The collector will become the new backbone, parallel to the current collector and necessary to avoid the overloading of Turin's wastewater system. It will collect and store the first storm water, i.e. water which, at the beginning of rainfall, is full of pollutants such as hydrocarbons and mineral oils.

The new 14-km underground tunnel will benefit 50 municipalities in the northern area and 30 in the southern area by reducing the level

of pollutants in the wastewater and overflows in the entire area served. Work on the final design began in September 2021 and is still underway, and it is expected to be validated within the first six months of 2022.

In November 2021, Ghella presented an offer, in a 40% joint venture with one of the largest Norwegian construction companies, to build a new water tunnel (Clean Water Tunnel) to supply water to the city of Oslo.

The project responds to the need to strengthen and make the current water line more efficient in view of an estimated increase in inhabitants of 200,000 for the city by 2040 and plans on reducing network losses by more than 10 percentage points (from the current 30% to less than 20%)¹⁶.

In February 2022, the contract was awarded and signed.



MARCO FONTANA Managing Director Ghella PTY Australia

How long have you been at Ghella and how have you grown within the company?

I began my journey at Ghella in the summer of 2016 when I was tasked with opening our first office in Dubai. It was at this point we were awarded our first project in the Middle East - the Mohammed bin Rashid Al Maktoum Solar Park Stage 3 – one of the largest photovoltaic plants ever built to date. After ten years in the United Arab Emirates, three of which were with Ghella, in 2019 I received the offer to move to Australia as Managing Director of the Australian operations, a position that I still hold today.

Can you briefly describe your role?

My day to day involves the coordination of resources that we have in the country, ensuring that current projects are managed in line with company procedures and Australian safety standards. I assess and implement new initiatives, creating the best conditions for winning new projects whilst growing our brand in Australia. I am fortunate to have the support of an incredibly talented and passionate team both here in Australia and from our headquarters in Italy.

How important are sustainability aspects in the world of Australian infrastructure and how are these aspects implemented in the work sites?

Australia is one of the most advanced countries in the world in terms of its environmental and sustainable development. This is largely due to the very strong connection with nature and the awareness of the catastrophic impacts that climate change has on such a delicate and unique ecosystem as the Australian one. The recent disastrous fires and floods that affected the country over the past two years are a prime example of this. The debate on how infrastructure can aid the Australian government's objective of achieving "Net Zero" by 2050 is very current and all projects with a monetary value above a given threshold are required to have a sustainability rating. Clients are pushing to incorporate increasingly ambitious sustainability targets whilst contractors recognise offering innovative solutions that generate positive environmental and social outcomes can be the

The IS rating, Infrastructure Sustainability

All our projects in Australia (Sydney Metro City and project obtained the highest IS score ever awarded, Sustainability (IS) system of the ISC (Infrastructure Sustainability Council), a non-profit body focused on sustainability of infrastructure projects during the work's

with the 'Leading' rating going to the John Holland CPB Outcomes Award for its Training Employment Working Group, an initiative aimed at creating opportunities for disadvantaged and under-represented social groups.

The experience gained during these projects thanks to the IS rating is a strategic asset for Ghella, in a global

key element of differentiation to winning a project. This thereby creates a "virtuous sustainability cycle".

You partook in the process of defining the company's new targets for 2030. What do you think the added value is for us to have set quantitative commitments?

Setting ourselves objectives and pursuing them is the only credible way to generate extensive and radical changes. Defining our new company targets for 2030 was a collaborative and engaging process and I am proud to have played a role in the process. The objectives that the company have set will strengthen the trust our stakeholders have in us to successfully evolve towards a more sustainable future.more sustainable future.





RENEWABLE ENERGIES

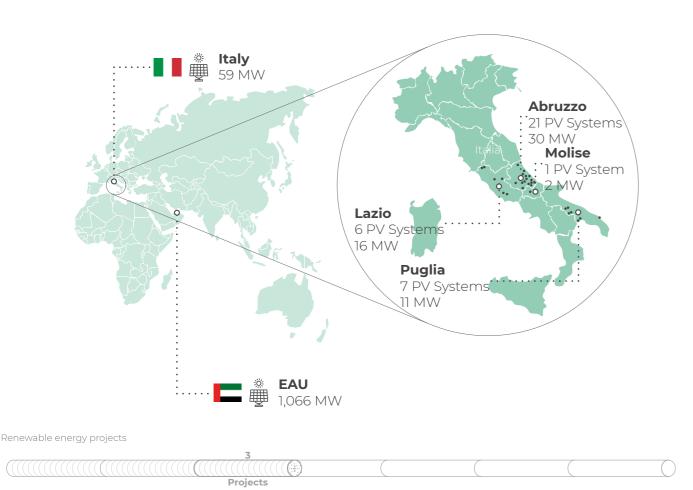
sector, we are active in the **renewable energy** sector. We develop, build and operate mainly photovoltaic and hydroelectric renewable energy power plants in Italy, Central America and the Middle East.

proprietary **photovoltaic** power plants, producing about 88 GWh on average per year.

As well as working in the large public infrastructure III PV Solar Power Project, we have contributed to the construction of a 1,066 MW power plant with a construction, operation and maintenance contract (EPC and O&M), for an average annual output of 2,000 GWh.

The project included the installation of 3 million In Italy, we have installed a total power of 60 MW in photovoltaic panels over about 20 square kilometres of desert areas.

The DEWA Phase III plant has been operational since In the United Arab Emirates, with the DEWA Phase July 2020 and we continue to provide O&M services.



Our photovoltaic power plants: benefits for the environment and communities

construction and management of photovoltaic power plants in Italy, through participation in our subsidiary Gransolar Ghella

opportunities in an increasingly important supply chain.

To date we have installed **60 MW** overall in photovoltaic operations has been more than **950 MWh**, equivalent to saving more than **470,000 tCO_{2ea}** in emissions associated with the energy generation, of which about **42,000** in the plants is equivalent to 74% of Ghella's annual electrical

agreements signed with Municipal Administrations, therefore a drive for **opportunities**, both **socially** and environmentally.

Our plants have allowed Municipalities to realise shared value with the community, through:

- improving **services to citizens**, such as shuttle buses
- actions to reduce electrical consumption through the
- creating city green areas.



revamping and repowering studies to be carried out

To maximise **recovery** opportunities and to promote the circular economy, we conducted a survey of the materials would be sorted and valued during waste

Particularly worthy of note is the initiative to **donate** a share of the **working modules** to the **Municipalities**

Finally, opportunities for reusing performing modules on huts and base camps at our work sites are also being evaluated, with the authorisation of the relative Clients.



Jeople

We believe in our **people** and we **value** them. We are committed to providing the best opportunities for individual **development** and to protecting the rights and needs of our employees. We are constantly working to ensure the best occupational health and safety standards for our employees and the subcontractors working on our worksites. We monitor our supply chain to ensure that Human Rights are respected and suitable working conditions are guaranteed.

We follow the highest ethical and behavioural standards in our work. We offer proactive **leadership** and promote trust, transparency and collaboration to develop teamwork. We favour the creation of an optimal work environment to achieve excellent results.

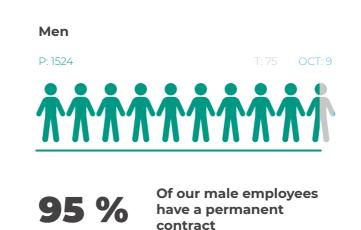
Our focus on social inclusiveness is not limited to the group companies: we listen to the expectations of the **local communities** that will benefit from the public works we help create. We are committed to leaving a positive legacy

with our projects and to protecting and promoting the well-being, human capital and environmental, historical and cultural heritage in the areas where we work.

Having obtained the Social responsibility certification SA8000 is further demonstration of the care we have for our people and the willingness to commit to human capital development and protection.

Our people

As declared in the Code of Ethics, people are at the core of our organisation, as its main strategic asset. Not only because having enthusiastic and highly qualified personnel is essential to performing work to a professional standard, but most of all because we believe that



T

The direct employees of the sites included within the permanently in the country where the Project is located. reporting scope are 1,918, 16% of which are women, slightly Given the nature of our business, with production carried up from the data recorded the previous year. The drop out at worksites with a set life cycle in different locations in number of direct employees against 2020 owes to the around the world, workers are given employment contracts for the duration of the project. This is why it is preferential fact that several work sites at the end of their life cycle are no longer within the reporting boundary. to re-employ personnel in new projects, when the timing coincides, in order to promote the development of the 96% of male employees and 99% of female employees resources who are already part of the work force and boost are employed locally, meaning that they reside the company's assets and know-how.



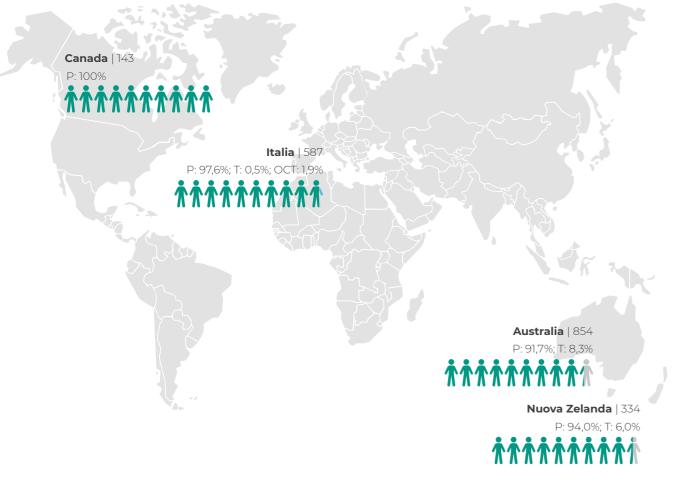
sharing and exchanging ideas and values is crucial to achieving excellence. Through careful and conscientious management, we promote trust, transparency and collaboration, striving to create an open and inclusive work environment.



Of our female employees have a permanent contract



Project staff by contract type and gender P = Permanent; T = Temporary; OCT = Other type of contract

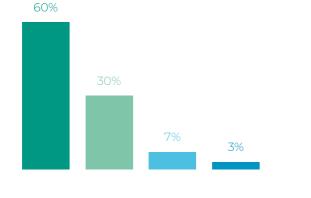




Division of project staff by contract type and geographical area. P = Permanent; T = Temporary; OCT = Other type of contract

Since the various stages of the project require different technical skills, there is a physiological turnover during the life cycle of the project which requires an albeit limited use of temporary or non-typical contracts.

97% of temporary contracts are offered in Australia and New Zealand. Specifically, in 2021, the Australian Cross River Rail work site went through the core phase of TBM tunnelling which required additional professional figures. Only 0.6% of employees were given part-time contracts, 8 of which were women and 3 were men. In 2021, 1,238 workers were not directly employed, 98% of which were blue-collar workers of subcontractors. Other types of non-directly employed workers included in this figure are design consultants and interns. Due to the nature of our business, the majority of employees, whether employed directly or not, are blue-collar workers.



■ Blue-collars ■ White-collars ■ Middle managers ■ Executives

Division of workers by professional category (% of the total)



Like all elements of the company's Integrated Management System, HR policies and procedures apply to all the activities of Ghella S.p.A. and its subsidiaries and associates, regardless of their geographic location.

During the construction phase, operational controlschecks and monitoring of thehuman resources' management significant aspects relating to human resources are carried out by our site HR teams, who report on them periodically thereon to the client and the headquarters.

DIVERSITY AND INCLUSION

We work to ensure a work environment that removes all obstacles towards an equitable gender representation among employees. This is why we have included principles relating to the protection of diversity and equal opportunities in our **Integrated Management System**, which includes the definition of specific policies and procedures, such as the "Policy for human resources management", the "Policy for equality, diversity and inclusion (EDI)" and the "Human resources and Organisation procedure".

Our procedures ensure that employees are **hired** solely based on their merits and the applications received by the company, keeping track of the curriculum vitae analysed during screening and excluding any sensitive information that could lead to discrimination from the assessment. To date, the company has people of different nationalities, genders and ages, in a multicultural and stimulating working environment.

Parental leave by gender

Employees who had the right to parental leave

Employees who availed of their parental leave

Employees who went back to work during the reporting pe having availed of parental leave

Employees who went back to work after availing of their pare and who are still employees of the organisation during the 12 after their return to work



This flow of information allows us to **monitor the performance** of human resources at corporate level as well, both for the individual projects and as consolidated global data. Our commitment to the **continuous improvement** of corporate performance in the HR area is expressedmaterialises through specific actions and targets contained in our **corporate Sustainability Plan**. In particular, objective 2 of the plan is to "Promote the development of human capital and people well-being", and our target for 2030 includes the attainment of 30% of women in managerial positions.

We **condemn** any form of **discrimination** and we promote a culture of respect of the EDI principles, also through specific training. Our "Appropriate workplace behaviour policy" clearly defines the improper attitudes condemned by the company and provides information on the reporting channels available to employees through the "Whistleblowing policy".

Particular attention is given to parents of school age children, through measures aimed at keeping a good work-life balance. Specifically, all people within this group may work remotely without any limitations to deal with their family needs.

97% of employees who had the right to parental leave¹⁸ used it. The one worker who did not use their parental leave availed of a different form of support.

	unit	Men	Women
	n.	24	10
	n.	23	10
eriod after	n.	18	6
ental leave 12 months	n.	11	6

The data confirms the commitment made to support less middle managers. The number of women executives people in the delicate phase of new-parenthood, has risen slightly. encouraging them to use their right to this leave.

by gender into the four professional categories as last year's. Specifically, there are more white-collar women and

Blue-collar women workers are still a minority in our 2021 confirmed a similar representation of employees organisation and are present only at the Cross River Rail and Central Interceptor work sites.

		20	2019		2020		021
		Men	Women	Men	Women	Men	Women
Executives	n.	58	6	77	8	74	8
Middle managers	n.	187	55	279	92	171	41
White-collar	n.	754	276	1.227	445	695	252
Blue-collars	n.	850	5	1.663	31	668	9
Total	n.	1.849	342	3.246	576	1.608	310
Executives	%	90,6%	9,4%	90,6%	9,4%	90,2%	9,8%
Middle managers	%	77,3%	22,7%	75,2%	24,8%	80,7%	19,3%
White-collar	%	73,2%	26,8%	73,4%	26,6%	73,4%	26,6%
Blue-collars	%	99,4%	0,6%	98,2%	1,8%	98,7%	1,3%

Gender representation by professional category in 2019, 2020 and 2021

Men	Women
<u>****</u>	*** *******
Blue-collars 41,5% 668	9 Blue-collars 2,9%
White-collars 43,2% 695	252 White-collars 81,3%
Middle managers 10,6% 171	41 Middle managers 13,2% 📃
Executives 4,6% 74	8 Executives 2,6%

Driven by the willingness to encourage an inclusive work environment that guarantees equal opportunities, with 1,123 employees, i.e. 58.5% of the population within we set the objective of having, by 2030, 30% of women in managerial roles. In 2021, women in executive and middle management positions represented 16.7% of total employees in the same positions.

In 2021, the 30-50 age group was the most numerous, the reporting boundary. The variations in the division for the three age groups in comparison to last year are partly due to the honing of the data tracking and collection tools which, in 2021, made it possible for us to collect employees of the sites within the reporting boundary, the category of white-collar workers is the most numerous

			2019			2020			2021	
		<30	30-50	>50	<30	30-50	>50	<30	30-50	>50
Executives	n.	0	24	40	1	43	41	0	32	50
Middle managers	n.	6	190	47	93	193	80	2	147	63
White-collar	n.	245	677	107	551	896	229	220	544	183
Blue-collars	n.	159	518	178	516	874	305	97	400	180
Total	n.	410	1.409	372	1.161	2.006	655	319	1.123	476
Executives	%	0,0%	37,5%	62,5%	1,2%	50,6%	48,2%	0,0%	39,0%	61,0%
Middle managers	%	2,5%	78,2%	19,3%	25,3%	52,8%	21,9%	0,9%	69,3%	29,7%
White-collar	%	23,8%	65,8%	10,4%	32,9%	53,4%	13,7%	23,2%	57,4%	19,3%
Blue-collars	%	18,6%	60,6%	20,8%	30,5%	51,5%	18,0%	14,3%	59,1%	26,6%

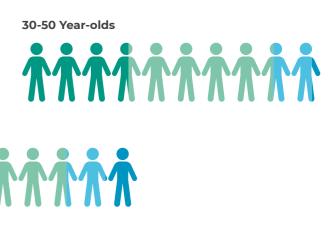
Comparison between 2019, 2020 and 2021 of the number of employees by professional category and age group





Division of project staff by professional category in each age group

more precise information. When considering only direct in every age group. Middle management are equally represented percentage-wise in the 30-50 and 50 + groups.



>50 Year-olds

- Blue-collars 37,8% | 180
- White-collars 38,4% | 183
- Middle managers 13,2% | 63
- Executives 10,5% | 50



HUMAN CAPITAL DEVELOPMENT

Developing expertise, growing and enhancing each employee's skill-set, is a key element for achieving our corporate objectives and for the creation and promotion of a culture aligned with our values.

The training process involves identifying the training needs for all of our personnel. We follow each resource to connect with them and identify the best ways of delivering training, such as on the job training, internships and e-learning.

When identifying training needs we always take into account consistency with company values, policies and strategies. We use inter-professional funds to co-finance non-mandatory training activities, ensuring ongoing upskilling.

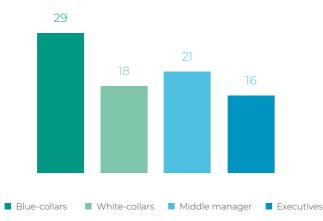
In 2021, a total of **39,216 hours** of courses were delivered to the direct employees of Ghella S.p.A. and of the Projects within the reporting boundary. Below are the details by gender and professional category.





Average hours of training for female and male employees

The average hours of training are almost the same for male and female employees. Of the professional categories, the majority of recipients of training initiatives, especially on health and safety, are blue-collar workers.



Average hours of training by professional category

safety, including compulsory and non-compulsory courses (for example, Refresher course on measures to prevent the spread of Covid-19). Equal importance is given to the

21% of delivered training hours pertain to health and technical development of workers, to whom 21% of the overall training was provided. 3% of the training hours is dedicated to the Leadership Programs and 2% is on social responsibility themes.



REMUNERATION AND INDUSTRIAL RELATIONS

Remuneration levels are defined in accordance with the principles of fairness and are commensurate with the experience and qualification of the resource and in no way can they be lower than the minimum wage levels established by law or collective agreements.

We value dialogue with trade union organisations as an instrument for negotiation, consultation and exchange of useful information, and we encourage the application of collective agreements, where they are in place.

Each resource is free to join a trade union of choice. The company undertakes to make special spaces available for this purpose and provides places suitable for meetings between workers and their trade union representatives.

An additional means for engaging workers is the Social Performance Team (SPT), set-up following the SA8000 certification, which includes a balanced representation of worker and management representatives. This team

Gender Pay Gap **Executives**



Ratio between the average wage of women and that of men in each professional category for the headquarters staff only. The comparison is made keeping task and job classification equal

Best HR Team

culminating in the award of the "Best HR Team" certification by HRC Italia for the Talent Acquisition, Welfare & Wellbeing and Digital Transformation

Talent Acauisition

The **Rookies programme** is intended for youths aged between 24 and 30, with a degree or close to obtaining development path within the company, through:

- periodic performance assessments, stimulated by

Newcomers are also offered a benefit package which includes board, transport and return trips to their place of the programme and for 2022 we plan on adding 15 more,

Welfare and Wellbeing

has the task of periodically conducting risk assessments in the areas relevant for the Standard and monitoring activities in the workplace.

In 2021, 42% of employees of the production units and headquarters included in the reporting boundary was covered by collective work contracts. With the remaining part of direct employees, individual agreements are stipulated in observance of local laws. Coverage is 100%, in every geographical area we operate in, if we only consider blue-collar workers. In Italy, the share of those who signed the Construction and Industry National Labour Collective Agreement is close to 100%.

We do not discriminate in any way when determining remuneration. Nevertheless, it is necessary to consider that we are working in a context where the majority of the specialised technical professionals available on the market are men. For the same tasks and job classification level, we aim to ensure wage equality.





to this challenge, Ghella began the **Covid Check-up** programme, which offered voluntary weekly screening with Molecular RT-PCR or COI testing conducted on site. Furthermore, all employees that were not hospitalised following a Covid-19 infection, upon returning to work are

- Heart check-up
- ECG

Currently about 200 people are involved in the testing

Digital Transformation

Lastly, the **HR R-Evolution programme** boosted the order to achieve an integrated reporting that guarantees transparency in the processes and improves employee experience. In particular, with the **SAP Success Factors platform**, employees can access their profile, training



SUSTAINABILITY CULTURE

We believe in the potential of every organisation to contribute to the achievement of collective objectives, such as the SDGs, by creating a corporate culture in which sustainability principles are integrated into the values and conduct of people and therefore multiply their positive effects outside the work sphere as well.

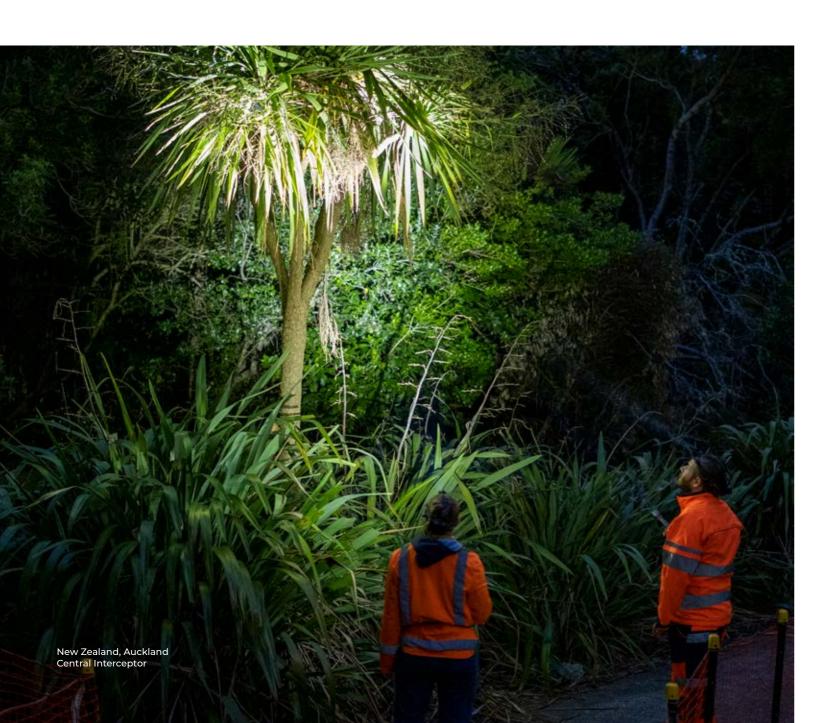
We believe that creating awareness and informing employees is crucial to improving performance. This is why we carry out campaigns, both centrally and on-site, on areas to which all workers can contribute, such as the correct segregation of waste or energy and water saving, or on social issues such as diversity and inclusion.

We are aware that our most significant environmental impacts are connected to the production activities, such as excavations, but we believe that the creation of a solid corporate culture based on sustainability principles can be an important driver for change. This is the reason why we are committed to ensuring that our offices, branches and worksite offices are a model of responsible management

of natural resources, where the work environment plays an active role in creating a culture of sustainability.

The company's intranet page is one of the most useful tools for spreading the company's sustainability culture. Here one can find news covering diverse topics: information and updates on worksites, our history in brief articles, the humanitarian or social causes that we promote, the sustainability initiatives carried out at the headquarters and in the worksites. Together with other tools, such as the corporate photographic archive, the intranet helps us keep the relationship between offices and worksites alive by encouraging curiosity through images and sharing stories.

The updating process of our ESG Strategy was interspersed with moments of in-person training and exchange, to ensure that the definition of the mid-term objectives and the creation of levers and actions aimed at meeting them occurred in an aware and informed way.



Profile



ANDREA CALÌ Deputy Project Director, Broadway Subway, Canada

How long have you been at Ghella and what has been your journey to date?

I have been at Ghella since 2018, when I was appointed to run the Follo Line worksite in Oslo, just before the excavation works were completed and the civil and electromechanical works were started. For the ten years prior, I had worked for a major Italian company specialised in railway and electrification equipment, in roles of increasing responsibility in Mozambique and Egypt, eventually becoming Foreign Sales Director. During a joint tender in Argentina, I had the chance to learn about Ghella and appreciate their professionalism and work ethic. In particular, the strong sense of belonging to the company and the attention to people's needs are the values that I most relate to and that made me accept the offer to go manage what was one of Ghella's most challenging worksites in the international panorama. After almost five years in Ghella worksites, I am increasingly proud to belong to this "family", made of great people and excellent professionalism.

Can you briefly describe your role?

I am currently the Deputy Project Director of the Broadway Subway Project, to build, in consortium with the Spanish company Acciona, the extension of an urban metro line in Vancouver, Canada. As the main Ghella senior representative on the worksite, I share the management of the entire project with my Spanish colleague, with direct responsibility over the production team and organisation of the works for the construction of 5.7 km of a new twintrack line (of which about 4 with TBM tunnelling) and 6 underground urban stations.

What importance has been given to the sustainability aspects in the world of Canadian infrastructures and how are these aspects integrated into the worksites?

I was particularly impressed by the level of maturity of the Canadian market in terms of equal opportunity. The adoption of inclusive policies for access to even senior positions in the project organisation means that the managerial and operational roles are reasonably distributed over the various genders and without any discrimination whatsoever. In reference to our project, about 30% of the entire organisation and 20% of the managerial roles are covered by women, a higher percentage than the Canadian average which is around 15%. Furthermore, the inclusion of ethnic minorities, such as Indigenous groups, is directly governed by competent authorities, providing for minimum targets - and penalising mechanisms if these are not met - in the relevant contracts. Our Project Agreement includes, for example, the assignment of at least 18 million dollars to 3 Indigenous groups of reference in the area and every year the recruitment of at least 45 employees of these ethnic minorities.

You partook in the process of defining the company's new ESG targets for 2030. What do you think is the added value for the organisation to have set quantitative commitments?

I believe that establishing and meeting quantitative sustainability objectives, in addition to demonstrating our social responsibility towards the environment and the community, is a major part of Ghella's presentation to international customers and lenders who are increasingly more demanding and attentive to sustainability issues. This helps strengthen our reputation of Italian excellence in the construction sector across the globe.



Health and Safety

The health and safety of our people represent an absolute priority. Through the protection and safeguarding of our workers, we aim to pursue excellence in our work.

The correct management of these issues has always been at the centre of our modus operandi and we formalised this approach in 2010 by adopting an Integrated Management System whose component relating to Occupational Health and Safety is certified in accordance with the international standard **ISO 45001**: **2018**. Furthermore, in 2021, we obtained the certification according to the SA8000 Standard.

We apply a **risk-based thinking** approach to identify and assess all risks present in the workplace and those that could impact our stakeholders. An approach that triggers the **continuous improvement** of our performance and takes into account the context and requirements of the stakeholders, including our partners, thus determining the **risks and opportunities** that need to be managed to ensure the highest standards of Occupational Health and Safety.

As we run our projects, we manage potential risks in terms of Health and Safety with competence and experience, mitigating them through fruitful collaboration with specialised partners.

Our operations expose workers to risks that could have serious impacts on their health and safety, in terms of injuries and occupational diseases. We have defined the tools necessary to identify all the dangers present in the workplace and assess the risks associated with them, and have defined the prevention and protection measures to eliminate or minimise them. Accordingly, we use the **know-how** gained over many years of experience in the sector, taking into consideration the lessons learned and we spread **knowledge sharing** practices within the company: in this way, we analyse incidents by investigating root causes and defining the corrective and improvement actions that stem from this analysis. Through risk assessment activities, we identify education and training requirements and health surveillance measures for all workers exposed to health risks.

The **engagement** of our stakeholders, such as subcontractors, clients or third parties, in the risk assessment process is of utmost importance: everyone can and must report inappropriate/illegal behaviour, dangerous situations or violations of the health and safety principles, or suggest improvement actions. For this reason, we have activated **dedicated** reporting channels, through workers' representatives and the use of observation cards, promoting the involvement and participation of workers and guaranteeing freedom of reporting with no risk of repercussions (as set forth within our Whistleblowing policy and Social responsibility policy

SA8000). Workers' representatives are also involved in the analysis of accidents and are informed on the trend in injuries and health monitoring as well as occupational health and safety information and training programmes.

In observance of the SA8000 standard, a Health and Safety Committee was created in the same form as the Social Performance Team, committed to the continuous improvement of health and safety conditions in the workplace. It periodically and formally conducts risk assessments to identify and face real and potential risks to worker health and safety.

Our **corporate structure** is comprised of specialised and updated people who work to guarantee the best health and safety conditions for all workers involved in our activities, whether internal or external. In particular, our technical staff have the necessary expertise to design the Safety features of our worksites in accordance with the relevant European and international regulations, thereby ensuring the most suitable and innovative safety measures are implemented. Our organisation provides ongoing oversight of operations, thanks to a **hierarchy of checks** defined and implemented through a cascade mechanism by all the parties involved in the activities, starting from senior management down to the operational personnel.

Training is a fundamental tool for us to ensure the development of expertise and increase awareness of individual responsibilities and promote participation in relation to worker safety. It also encourages the workers' engagement in safety issues. Training is carried out in different forms (such as induction, on-the-job training, internships, e-learning, daily or weekly toolbox talks, Job Safety Analysis, etc.) depending on the needs and set objectives and taking into account the context and local legislation. Due to the continued health emergency caused by the COVID-19 virus pandemic, we stepped up health and safety training, information and awarenessraising initiatives during 2021, using video conferences and e-learning, notices and infographics published on the intranet, as well as affixing special information signage on the correct measures to be adopted to combat the spread of the virus.

We identified training requirements by analysing risk assessments and monitoring each resource individually to identify their specific needs. Training provided to each employee in 2021 mostly focused on the following topics:



Coronavirus risk management and related prevention measures;



Mandatory training required by laws in force in each location:



The Health and Safety and Emergency Organisational structure;



Company Management system, with special reference to SA8000 requirements;



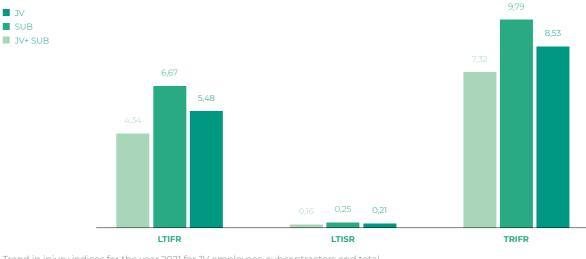
JV

SUB

Assessment of health and safety risks associated with business activities and in particular those connected to the tasks that workers are exposed to;

To promote the Health of our workers, in addition to defining and implementing a health protocol, we rolled out awareness campaigns on the importance of prevention by adopting a correct lifestyle to promote the health of our workers. The Coronavirus Crisis Operational Committee was still in place in 2021. It was in charge of identifying and promoting the most effective containment strategies, which were included in the internal Coronavirus Risk Management Plan. The committee updated these strategies regularly in line with the alarm levels communicated by the government and scientific research bodies

We monitor injuries by analysing them, in order to identify improvement actions aimed at preventing future



Trend in injury indices for the year 2021 for JV employees, subcontractors and total



Reference legislation;



Emergency management;



First aid and fire-fighting;



Other training required by current legislation in the specific work place.

occurrences and to spread a culture of Health and Safety among our people and all the stakeholders involved in our activities. We are committed to achieving our primary Health and Safety objective of zero harm through training and engagement initiatives, aimed at encouraging the active participation of everyone. As of this year, we are reporting injury rates – lost time injury frequency rate (LTIFR¹⁹), lost time incident severity rate (LTISR²⁰) and total recordable injury frequency rate (TRIFR²¹) for Ghella's entire operational scope. This is because we consider the health and safety strategy as an inseparable whole and assess our performance based on the overall data of the production units. Below is a presentation of the trend in injury indices for the reporting period and the comparison with the two previous years.





MAXXI exhibition "Di Roccia, Fuochi e Avventure Sotterranee"

For employed staff, the analysis of the injury indices overly intense stages, but have been affected by complex shows that LTIFR is down by 20% and LTISR is down by 35%. On the other hand, for subcontractors, these same indices increased. This is enough to lead to an increase in the overall LTIFR in comparison to the previous year. This year, not only have many projects gone through

processes as well, which by their very nature pose higher risk levels. It is important to point out that even though there were more injuries recorded in absolute terms, the severity index marks a slight decrease in comparison to the same value last year.

0,11 0,18 0,25

LTISR

Comparison of injury indices of subcontractors

of 2019, 2020, 2021

6.67

LTIFR

9,79

4.53 4,81

TRIFR



The safety of employees and collaborators is our absolute priority. In 2021, our Cross River Rail worksite in Australia conducted an awareness campaign called "No empty seats" which was awarded the prize for **best communication** on safety at the Australian **National** Safety Awards of Excellence.

The flagship element of the campaign is a **video** featuring Dallas

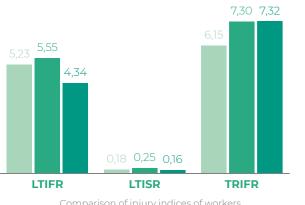
The video focuses on the **pre-Christmas period** when 25% of awareness among co-workers to protect their loved ones and to never let one's guard down during worksite operations.

201923	Hours worked	LTI ²⁴	MTC ²⁵ + RWC ²⁶	Recordable occupational injuries	Severe injuries	Severe injury rate ²⁷
Employees	14.193.891	69	11	80	2	0,14
Subcontractors	6.897.833	28	11	39	0	0

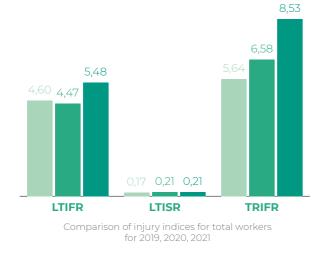
2020	Hours worked	LTI	MTC+ RWC	Recordable occupational injuries	Severe injuries	Severe injury rate
Employees	8.023.881	51	15	66	0	0
Subcontractors	7.639.363	19	18	37	1	0,13

2021	Hours worked	LTI	MTC+ RWC	Recordable occupational injuries	Severe injuries	Severe injury rate
Employees	7.376.436	32	22	54	1	0,14
Subcontractors	7.045.664	47	22	69	0	0

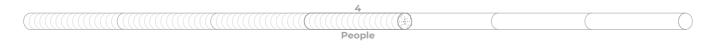
distraction as he was getting out of a vehicle. The event and specifically on the importance of always using the resulted in a broken lower limb. The analysis of the injury handle when getting down from vehicles and keeping led to the identification of corrective actions that included the non-slip footboards clean. a training cycle aimed at creating awareness among







2019 2020 2021



empty seats

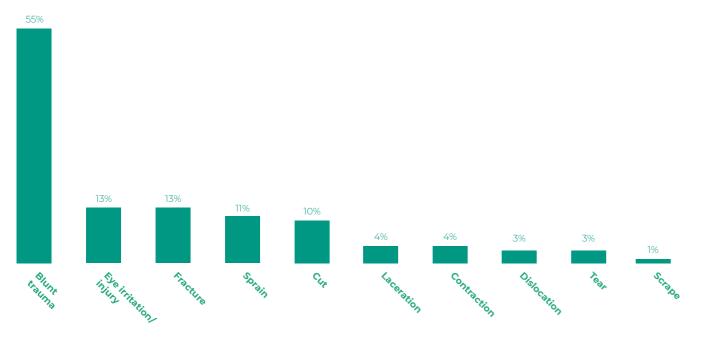
The only serious injury happened due to the operator's skilled workers on applying safety measures in general

Ghella | Sustainability Report 2021

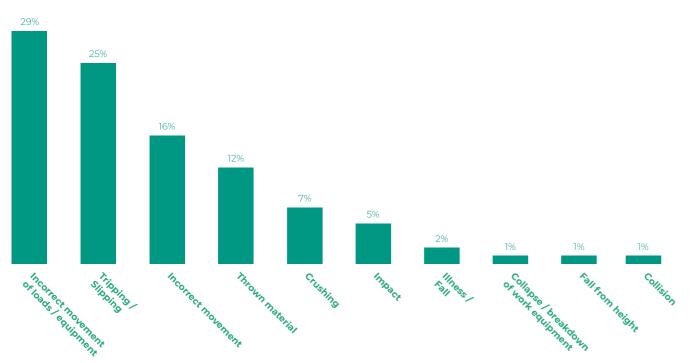


47

As illustrated by the severity index, the analysis into for the most part. The harm to workers is mostly due to the nature of the injuries, which includes subcontractors, contusions, as detailed below: shows how these are relatively insignificant episodes,



Harm caused by injuries in 2021



Injuries by cause in 2021

Given the nature of the company's business and and Fatigue management, verification and guided support based on the risk assessments carried out in the various on the correct behaviour to be implemented and choice Production Units, the work hazards that constitute a risk of serious work-related injury are mainly physical and related to the organisation of the work. The most frequent causes may be incorrect handling of loads and use of tools, in key to carrying out targeted checks and focusing on the addition to tripping and slipping.

We have recorded a low number of high-consequence work-related injuries thanks to the **prevention**, **protection** and **improvement initiatives** put in place, such as continuous training and awareness campaigns to increase workers' engagement, incentives and awards, specific safety procedures, Behaviour Based Safety programmes

of the most advanced individual and collective protective equipment. **Monitoring** of the proactive and predictive performance indicators and risk assessment results are most sensitive areas.

Our commitment to the **continuous improvement** of the company's Safety performance is expressed through specific actions and targets contained in our corporate Sustainability Plan, in particular in objective 3: "Ensure continuous improvement of occupational Health and Safety performance".

Mental health in the work site - Update on the activities of Mates in Construction NZ

Mental health in the workplace continues to be a priority at Central Interceptor worksites in New Zealand, through their partnership with Mates in Construction NZ (MIC). The CI project is

In 2021, the project introduced training for "Connectors", CI

To date about 2,000 people have received basic training (General Awareness Training), 75 Connectors have been trained and 5 people have received ASIST (Applied Suicide Intervention Skills Training)

Vaccination hub at the Brennero worksite in Italy

2021 was a critical year for the **anti-Covid-19 vaccination** campaign in Italy and across the globe. At the Brennero worksite, we setting up a vaccination hub at our base camp, within the campaign promoted by the healthcare authorities of Alto Adige.

were held at the hub, involving **160 people**, who were given full





The administration of vaccinations was managed by the **local** health authority while BTC, our JV, conducted coordination aspects and provided logistic support for a successful campaign.

Isarco Scarl, the contractor of the adjacent lot, also partook in collaboration and optimisation to achieve a shared social objective.

Trocal communities

We build public works that generate **long-term local benefits** by enhancing **services** to citizens and increasing the **productivity** and **competitiveness** of the **area**. The **environment** also benefits, as in the case of railway projects that promote a transport modal shift from road to rail and so improve air quality, or water projects that reduce spills of wastewater into water courses or the sea.

Our presence in the area feeds the **economic activities** through the creation of **jobs** in the worksite and along the supply chain. The international nature of our company also involves the **transfer** of **knowhow** between the various regions of the world where we operate and the subsequent **professional growth** of the highly specialised local workforce.

However, we are aware that construction can cause **inconveniences** and disruptions for the communities in close proximity to the worksites, such as **noise**, **vibrations** or the temporary closure of roads and public areas. In the case of sites in urban areas, such as projects for metro lines, there may be additional inconveniences associated with the **traffic** of construction vehicles and supplies, and the transport of excavated materials through city streets.

For this reason, our worksites engage with local stakeholders from the earliest stages of construction with the aim of informing and consulting them, of mitigating negative impacts as much as possible and, where possible, offering compensatory measures.

Information-oriented initiatives include individual visits to residents (door knocking), "Meet the contractor" events or initiatives to involve schools adjacent to our worksites.

Mitigation measures include the installation of noise barriers. At some worksites, for example, the conveyor belts for excavation materials have been designed with outdoor roofing, to minimise the noise generated by the continuous movement.

Compensatory measures may include direct contributions, with a view, for example, to installing special windows or doors to dampen noise, or indirect contributions, in the form of donations and sponsorships of

initiatives for the benefit of the entire community.

For example, local residents and community groups helped with the design of an alternative play space in an Auckland suburb after a playground was removed to make way for a Central Interceptor construction site. Client, Watercare, covered the costs for the consultation and construction of the new community play space near the site. A brand new playground will be installed on the CI site after the project has been completed.

Furthermore, during a year that was affected by measures to prevent the spread of the coronavirus, the challenge of working remotely in the area surrounding the worksite was recognised. To thank local residents for their patience, the GAJV sent them Christmas hampers during the festivities.

Some initiatives of stakeholder involvement are managed directly by our Customers with the help of the worksite personnel. This is the case of **visitor centres** for schools and private citizens, which feature information about the various stages of construction and excavation, and which often offer the possibility of arranging organised tours of the worksites.

Our client BBT, of the Italian Brennero project, at the request of the Municipality of Fortezza and the Autonomous Province of Bolzano. contributed to the establishment of the Observatory for the construction of the Brenner Base Tunnel²⁸. The body aims to create an **interface** between the project and the District Communities of the Eisack Valley and the Upper Eisack Valley. Representatives of the communities are part of the management body of the Observatory and speak out for the concerns of the communities in all the various stages of construction.

BBT has also created the **BBT-**Infopoint in the Habsburg fort of Fortezza, with a large exhibition area that presents the technical issues related to the excavation, but also the nature and culture aspects of the project. Also, as of the summer of 2021, the construction activities of the Brennero Base Tunnel project were displayed through evocative largescale images in an exhibition space at the Innsbruck central station.

Ghella Abergeldie JV and client Watercare recently launched a mobile visitors' centre called the **Discovery Centre** for use in engagement in the local community and schools. This fully mobile seven-metre long centre includes virtual and augmented reality experiences, and touch screen games, guided by an animated character called Wai Mā, a long-fin eel which is native to New Zealand.

In Australia, the **Experience Centre** of the Cross River Rail project offers a very broad selection of services for the community. For example, the Centre manages information activities about archaeological findings discovered during excavations and offers free summer camps for children. In 2021, the Centre hosted the **STEM Girl Power Camp!** of the Queensland Department of Education, with the participation of 55 girls who got the chance to hear from female project engineers about their careers and the Cross River Rail project.

Our international footprint in 15 countries and 4 continents makes ensuring a seamless **integration** of our expatriate staff in the local context very important. It is an opportunity to enhance our unique corporate culture and promote mutual enrichment. With the same spirit, **we respect the rights and customs of Indigenous peoples** and place them at the centre of activities that facilitate the integration of worksite personnel in new settings.

The involvement of the local communities in the Broadway Subway project of Vancouver

The communities that benefit from the infrastructure works that we help create are the ultimate recipients of our work. Hence, their involvement, from the very first stages of the project, is recognised by our clients as a crucial element for success.

In 2021 there were numerous preliminary involvement activities in our project for the **Broadway Subway** line in Vancouver, Canada. An online **public consultation** was conducted between April and May in which the project team, jointly with the City of Vancouver, requested input on the **design of the stations**, including aspects inherent to the entrances, the yards next to the stations and other aspects of the structures on road level.

Also, in the month of July the second stage of a **contest for artists residing in Canada** was launched, to develop **works of art** to decorate the **stations** of Great Northern Way-Emily Carr, Mount Pleasant, Broadway-City Hall and South Granville.

Parallel to this, the Province of British Columbia, jointly with the Musqueam Indian Band, Squamish Nation and Tsleil-Waututh Nation communities, under the **Cultural Recognition Program**, selected three artists and a team for the creation of artistic installations of **Indigenous art**. The works will be on display at the Arbutus, Oak-VGH and Great Northern Way-Emily Carr stations.

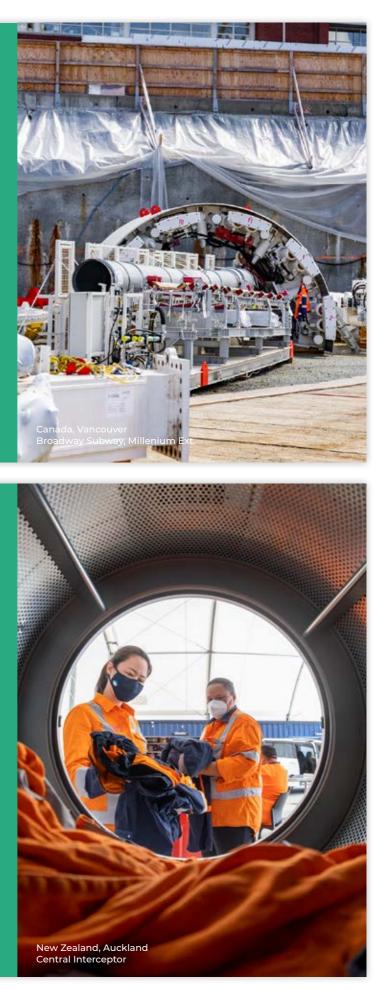
The Laundry: a social enterprise at the Central Interceptor project in New Zealand

Watercare's Central Interceptor project aims to leave a **positive legacy** in the area where it operates, that lasts well past the construction stage. An example of this is Te Whare Manaaki (**The Laundry**), a social enterprise started in 2021 at the Mangere site.

The Central Interceptor team in collaboration with the local Māori hapū (community) started an **on-site laundry service for PPE**, the personal protective equipment used on site. The business is managed by **Te Ahiwaru iwi of the local Makaurau Marae**, (**an extended family group from a common ancestor**) and includes the collection of the PPE from the various sites, washing, mending, updating of the inventory and delivery. The service guarantees the washing of **120-260 sets of overalls** from different sites.

The capital costs including washing machines, dryers, building facilities and a van were paid by the project, which also offered support through **consultancy on business management**, with the intention of transferring the entire business to the community at the end of the project so that they may continue it as an **independent business**.

The service also guarantees considerable benefits for the **health and safety of worksite personnel** and their families, thanks to separating the washing of the PPE and thereby reducing the risk of **hazardous substances** contaminating household washing machines.





Value Key financial figures

REVENUE

EBITDA

ECONOMIC VALUE GENERATED AND DISTRIBUTED

USA

0.78%

0.09%

Costa Rica

Australia

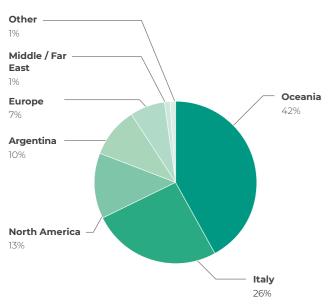
28 50%

Italy

21,59%

€648^M €76,4^M €632^M

A breakdown of our 2021 revenue and order backlog by geographical area shows the international scope of our business with more than 70% of revenue and roughly 66% of our order backlog developed abroad.





Order backlog by geographical area

Vietnam

1.02%

Brazil

440%

7,46%

France

Norway

Argentina

8,43%

9,40%

Canada 10.83%

7,51%

New Zealand



Conomic value generated and distributed

The generated and distributed economic value is calculated by reclassifying the income statement figures of the consolidated financial statements as at 31 December 2021. In 2021, the directly generated economic value amounts to 686.38 million euros and includes revenue and financial income. Most of this value (69%) is distributed to suppliers and includes the cost of purchasing services and raw materials. This is followed by the value distributed to personnel (17%), in the form of wages and benefits. The value distributed to the Financial system is 3% and includes financial expense, exchange losses and any distributed dividends. The public administration received 3% of the economic value generated in the form of income and other taxes and duties. The sum of investments in the community is about 200,000 euro²⁹. The Value held by the company is 8% of the directly generated total.

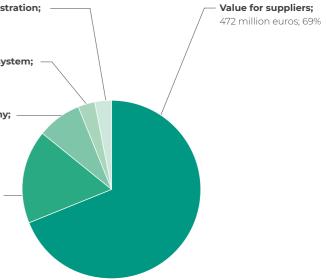
Value for Public Administration; 19 million euros; 3%

Value for the financial system; 20 million euros; 3%

Retained in the company; 54 million euros; 8%

Value for personnel; 121 million euros: 17%

Distribution of generated economic value





Unicredit Sustainability-Linked Loan

advantage. In the last two years, Ghella has conducted various green loan operations. These require the reporting of **sustainable** investments, identified using the European Taxonomy, and achieving

During the first months of 2022 Ghella obtained a **30 million** euro Sustainability-Linked Loan from Unicredit in support of the investment plan for 2022 and linked to the attainment of a **specific** ESG improvement target established upon signing the loan. The operation is linked to a quantified reduction of **CO_{2ea} emissions** that Ghella has committed to achieve **by 2025**, upon publishing the



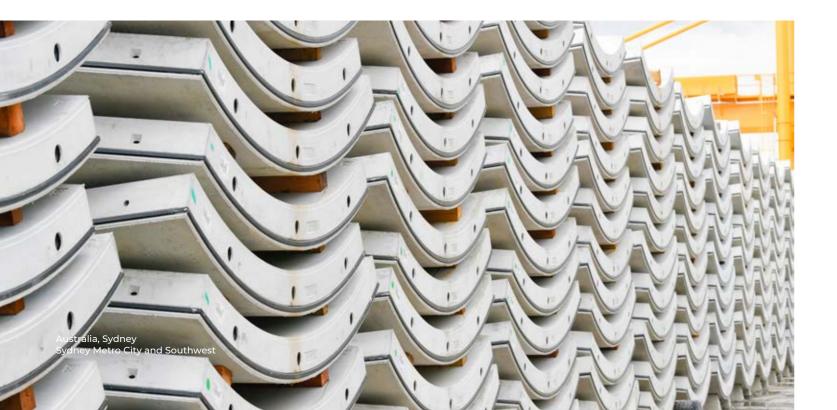
"Meet the buyer" event at the Cross River Rail worksite in Australia – opportunity for local suppliers

Our Cross River Rail worksite in Brisbane, Australia, represents one of the main employment incubators of Queensland and will boost economic growth and local employment for years to come.

create 1,500 jobs per year and 450 apprenticeships and internships

During 2021, the project JV organised a "Meet the buyer" event at the Toowoomba site to give **local suppliers** the opportunity to of local suppliers and maintaining ethical work practices.





Our supply chain

Supply chain management plays a • ethical procurement;

key role in the construction industry. Suppliers of works, goods and services

(hereinafter "suppliers") are **key** stakeholders whose performance can significantly affect the efficiency,

quality and sustainability of our own activities and construction projects.

Ensuring the **responsible and** transparent management of the supply chain is therefore essential to promote business sustainability and the creation of value in the areas where we work.

We have set up a **Sustainable** Procurement Policy that describes the principles that we apply in the management of the supply chain. Specifically:

- support for the circular economy; • assessment of the ecological footprint of construction materials; • protection of the environment, including upstream of the value chains of our worksites;
- promotion of local purchases; compliance with working conditions standards for our
- workforce; respect for diversity within our workforce:
- journey.

Furthermore, we share our policies and guidelines with our suppliers, asking them to comply therewith and, thus, guarantee a unified, consistent

QUALIFICATION AND MONITORING OF SUPPLIERS

The qualification of a new supplier, previously identified during a market survey ("scouting"), begins with the request to register on our **Ghella** Vendor list platform, where the supplier fills in the qualification questionnaire. Successful suppliers are included in Ghella's List of **Vendors**. In projects that adopt the qualification system of a partner, we check that its qualification criteria are aligned with those included in our questionnaire.

In 2021, more than 2,700 suppliers were handled. 97% of them are local, meaning that their company name is registered in the same country where the contract is being carried out, and 97% of the overall expense is allocated to them. This is an expression of our attention to local suppliers, with a view to generate a mutual benefit. More than 600 suppliers signed contracts for the first time in the reporting year. On average, for all of the units included in the reporting boundary, about 47% was assessed according to criteria of guality, safety and environment. 42% was also assessed based on social criteria. In Australia and Canada 100% of the main suppliers were assessed according to social and environmental criteria. None of our suppliers come from geographical areas that are at risk of human and children's rights. When environmental criteria were

not included in the qualification process, they were introduced into the supplier monitoring process during the execution of the contract.

not only a requirement for accessing our supply chain, but also a condition to be maintained and improved throughout the collaboration period and beyond: our intention is to gradually engage suppliers in our sustainability journey, working as a team and following shared rules.

chain is consistent with our values and objectives, we have introduced the following measures:

- including our principles and guidelines on environmental and social sustainability in purchase orders and contracts;
- periodically monitoring supplier performance, including aspects of environmental, social and economic sustainability;
- organising sample audits of suppliers, to check whether the qualification requirements are actually met, and of the procurement departments of our own worksites, in order to verify that the qualification and monitoring processes are conducted in line with our

- engagement of suppliers and subcontractors in our sustainability
- Good sustainability performance is
- In order to ensure that the supply

approach throughout the entire value chain.

These principles are also reflected in our corporate Sustainability Plan, where they are turned into defined objectives, actions and targets, specific to the supply chain.

The path taken with the SA8000 certification, therefore, places us in an increasingly synergetic relationship with our suppliers, in view of a mutual drive to continuously improve. We are as diligent as our suppliers in verifying conformity with the Standard.

- corporate procedures;
- training our buyers, both in our headquarters and on site, about sustainability criteria introduced at Corporate level;
- involving suppliers in corporate sustainability projects.

If suppliers who have had criticalities found during periodic audits and monitoring do not intend to implement the mitigation actions required within the established terms, they are removed from our register.



We constantly test ourselves when we face engineering challenges and look for safe work solutions that allow us to carry out work safely,with a view to monitoring technical decisions by pre-empting problems and promoting theknow-how transfer of know-how.

Excellence in the development of construction projects is a distinctive trait that positions us in our reference market for our in-depth specialisation. The ongoing search for innovative construction solutions and our specialised expertise place us on a path of constant improvement of the quality standards of our projects, guaranteeing safer working conditions.

Most of the operational innovations are developed within the worksites, where new solutions are tested on a daily basis to achieve the best results. In 2021 we continue to endeavour:

- to conduct applied research and validation of new technologies, materials and concepts, and the filing and management of patents;
- to create and develop improvements, in conjunction with the world's major TBM manufacturers, reusing, where possible, materials and regenerated equipment.

Our main innovations include:

- Traffic protection shield: these shields are used to work on tunnels without disrupting traffic flows to the considerable benefit of both motorway users and operators. It is an actual "counter tunnel" that separates the worksite from the motorway lanes, significantly increasing safety levels.
- Automatic rib: a Ghella patent to install a rib in a tunnel without using personnel on the excavation face which means greater safety conditions.

Other applications of innovative technological solutions include:

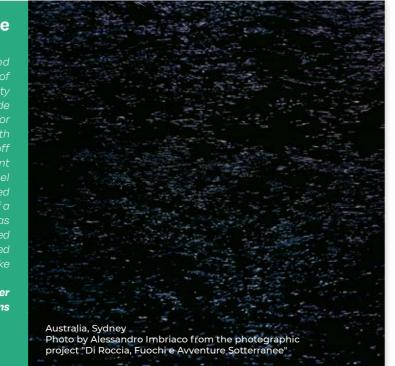
New electric traction technologies: The Central Interceptor project in Auckland uses electric locomotives. This innovation will reduce greenhouse gas emissions and improve the air quality inside the tunnel. It will also reduce the energy consumption of the primary fans and the risk of fire in the tunnel, as diesel locomotives are the primary source of this risk;

- Anchored Gasket: segment gasket anchored in the cast concrete. It minimises the costs and use of labour and increases quality. This innovation has been used since 2021 in the Central Interceptor, Cross River Rail and Brenner worksites;
 - Compact launch structure: this method launches the TBM quicker and into tighter spaces, whereas the traditional way to assemble a few segments would reduce the manoeuvring space. In addition, avoiding the use of these segments eliminates the safety risks associated with their subsequent demolition. The structure, used in 2021 at the Central Interceptor worksite, made it possible to launch the TBM in full safety and without any water infiltration.



We are aware of the fundamental role that **research** and **innovation** have towards improving **environmental performance** of the works that we build. For this reason, we sponsor various university research projects, in view of a mutual exchange, where we provide not only resources but an immediate application environment for the identified solutions. In 2021, we started a collaboration with GEEG (Geotechnical & Environmental Engineering Group), a spin-off of La Sapienza University of Rome, to study an **alternative** cement free mixture to be used to fill the ring space between the tunnel excavated surface and the external surface of the pre-fabricated segments that line it. The research project lead to the creation of a mixture that guarantees the same mechanical characteristics as cement, but is produced with a **blast furnace cement waste**, called **slug**. The reduced emissions associated with the mixture produced with no cement, and the reuse of waste from another process make this solution an excellent example of **circular economy**.

The new mixture will be used in 2023 for the Oslo E6 Clean Water Tunnel project, providing a drastic reduction in scope 3 emissions associated with more than 60,000 m³ of mixture.





MASSIMO MAFFUCCI Tunnel Division Manager, Rome

How long have you been at Ghella and what has been your journey to date?

This year I am celebrating 20 years at Ghella. I was initially hired as the Site Engineer for the Valencia Subway in Venezuela. Following that, I took part in the railway project of Puerto Cabello-Las Encrucijadas, first as Senior Project Engineer and then as the Construction Manager. After six years in Venezuela I moved to the Dominican Republic, to the worksite for the Higeuy and Bavaro public water supply, as the Project Manager. In the same role, I also worked in Brazil, at the Gastau gas line. In 2011, I went back to Rome, to the Tunnel Division at the Headquarters, which represents our core business. In 2015, I was appointed executive and since then I have had the chance to follow worksites in Canada, Norway, Australia and New Zealand.

Can you briefly describe your role?

I follow our worksites abroad through weekly meetings with management and periodic visits. The objective is to collect information on the planning and execution of the works in observance of the contract budget and schedule. For some contracts I actively participate in the tender team, which means developing the project, the budget, the method and the work schedule that we will follow if our bid wins. Through my role, I can help transfer the experience and know-how of our business from one worksite to another across the globe, making the most of the lessons learnt and ESG-related best practices.

You partook in the process of defining the company's new targets for 2030. What do you think the added value is for the organisation to have set quantitative commitments?

I took part in the process with enthusiasm. Since I was lucky enough to partake in some bids and oversee worksites in Australia and New Zealand, the sustainability culture was already part of my training. The far-sighted Clients that we collaborated with in those countries had already set similar targets, that we could use as a reference point for this corporate work. Currently, it is not possible to build a future without defining sustainability objectives, otherwise we would simply be excluded from certain geographical areas. Our global presence requires us to adopt the same strategy also in countries that are less advanced on these themes.

How do you think your work can help improve Ghella's sustainability performance?

My department can significantly help improve the sustainability performance of our business. The effort is even more effective if it begins at the tender stage, so that it continues after the bid is won, in the setting-up stage of the worksite. For example, four years ago we started using electric vehicles in the tunnels, and this has now become standard practice for us; we use cement free materials or mixtures with less than 55% cement components, through the use in our concrete of blast furnace slug that guarantees the same performance; we use the Push Frame Methodology, a system that makes it possible to start the TBM in very tight spaces and therefore build fewer rings, thereby considerably saving CO2 and avoiding subsequent disposal.



Donations, sponsorships and association memberships

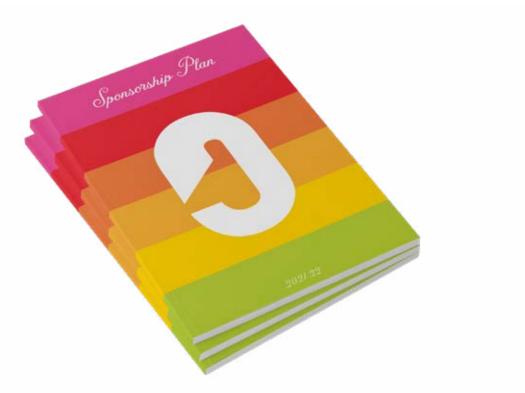
We are aware of our social responsibility and have adopted a **Sponsorship** and **Donation Plan** to support initiatives that reflect our values. Our commitment takes three forms:



Culture, by promoting cultural excellence in Italy and in the world, such as through donations to the Accademia di Santa Cecilia in Rome.



believe that freedom of expression helps us open up to the imagination and avoid prejudice - which is why we support the creation of works of art. Following the successful editorial project Di roccia, fuochi e avventure sotterranee, published by Quodlibet and documenting a series of photographic surveys conducted in the worksites in Athens, Oslo, Hanoi, Sydney and Brennero, the samename photo exhibition was held at MAXXI, National Museum of 21st Century Arts, curated by Alessandro Dandini de Sylva.



Consistently with our sponsorship and donation policy, we **actively support associations** with which we share ideals and goals. We are long-time members of the Società Italiana Gallerie (SIG, Italian Tunnelling Association), an association that for over 40 years has been involved in the promotion, coordination and dissemination of studies and research in the field of tunnel construction and large underground works. We are members of ANCE, the Associazione Nazionale Costruttori Edili (National Constructors Association), for which Federico Ghella, our Deputy Chairman, holds the role of **Deputy Chairman** and Chairman of the committee for works abroad.



DONATIONS



SPONSORSHIPS



SOCIAL INVESTMENTS

Our actions are aimed at achieving two strategic objectives: social support and shared value creation.

We have decided to focus on six different areas, each of which contributes to the development and growth of the communities where we operate:



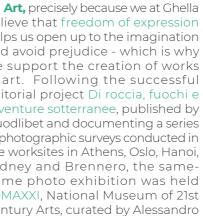
Social, i.e. support for organisations that carry out assistance and solidarity activities, and associated employee awareness raising on the causes supported by the company. These include donations to the Lazzaro Spallanzani National Institute for Infectious Diseases and the Comunità Engineers of Dirextra Business School di Sant'Egidio.

Education and Instruction, investing in undergraduate and specialist degree courses and master's courses, in order to transmit our passion and expertise to future generations; for example, we sponsored the Master for Business and the level II Master in "Tunnelling and Tunnel Boring Machines" of the Turin Polytechnic.



Sustainable communication, to promote our Mission and Vision through our stakeholders.







Environment, because we believe that greater care is needed for the places where we live and work: accordingly, we support FAI, the Italian Environment Fund, a foundation for the protection, safeguarding and enhancement of Italian natural and artistic heritage.

Since 2019, we have been members of the Green Building Council Italia, which promotes the spread of a culture of sustainable construction. In 2021, we became members of Sustainable Infrastructures Association (AIS), a technical-scientific association founded in Italy in 2020 with the aim of promoting a broad and gualified culture of sustainability and increasing awareness of the social and economic value to avail of sustainable infrastructures. In 2021, our New Zealand subsidiary Ghella Ptv Ltd became a member of Infrastructure Sustainability Council (ISC). the association that manages the main sustainability rating for infrastructures used in Australia and New Zealand.



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Italy, Rome MAXXI exhibition "Di Roccia, Fuochi e Avventure Sotterranee"







Ghella for Rome

EXHIBITION "DI ROCCIA, FUOCHI E AVVENTURE SOTTERRANEE"

The photographic campaigns commissioned by Ghella are inserted in a traditional chronology of documentation of large-scale engineering projects and represent a series of creative explorations of tunnelling.

Diroccia, fuochi e avventure sotterranee, curated by Alessandro Dandini de Sylva, is a collection of 120 images, taken between 2019 and 2020 at five worksites and on three continents, initially resulting in an editorial project (Quodlibet) and then two exhibitions, one held from 22 September to 14 November 2021 at MAXXI - National Museum of 21st Century Arts in Rome and another from 12 March to 5 June 2022 at MAXXI L'Aquila.

Running it are five of the most interesting authors of Italian photography today. **Fabio Barile** (Barletta, 1980) worked on the railway tunnel that will connect Oslo to Ski, juxtaposing images of natural and artificial systems; **Andrea Botto** (Rapallo, 1973) on the other hand, worked in the tunnel under the Brennero pass, joining Italy and Austria, documenting the activity of the worksite through the explosions of the excavation front. **Marina Caneve** (Belluno, 1988) was in charge of the relationship between city, contemporary planning and historical memory at the subway line that will connect the airport of Athens to Piraeus Harbour; **Alessandro Imbriaco** (Salerno, 1980) shot details inside the enormous tunnel boring machines used for the tunnels that run under Sydney bay. Finally, **Francesco Neri** (Faenza, 1982) was in charge of Hanoi's first underground subway, representing the worksite as a zone of conflict and challenge in the face of the chaotic, unexpected and organic environments of the city. **A selection of the works from the exhibition will become part of the MAXXI Photo Collection** de facto becoming state assets.

MAXXI LEGENDARY TICKETS

For the **Di roccia, fuochi e avventure sotterranee** exhibition, Ghella **gifted** all of the employees at the Rome headquarters of **two MAXXI Legendary Tickets**: single entry valid for the next one hundred years, **until 2121**. All is needed is to find a couple of free hours over the next century.



Ghella worldwide

SOLID SUPPORT TO OUR COMMUNITY

In a difficult time for Italy, Ghella has supported the people who were in the front line fighting the Coronavirus. This is why, in 2020, we donated £100,000 to the Lazzaro Spallanzani National Institute for Infectious Diseases, the Rome-based hospital which was the first to isolate the virus and has treated thousands of Covid-19 patients since the outbreak of the pandemic.

The same amount, in support of research, **was donated again** in **2021**.

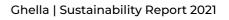
GHELLA SUPPORTS THE XXXV INTERNATIONAL MEETING FOR PEACE

In keeping with the company's values of cooperation between individuals and the idea of **leaving a better world for future generations**, Ghella supported the XXXV International Meeting for Peace, organised by **Comunità di Sant'Egidio** and held in Rome on 6 to 7 **October 2021**.

The event, focusing on the central theme of "**Peoples as Brothers, Future Earth**", concluded with a ceremony at the Colosseum on the afternoon of 7th October, with the participation of the leaders of the Christian churches and of the great religions, along with high figures of international politics and culture. A solemn moment of reflection, prayer and coming together, a **message of hope for the future in the name of peace**. A particularly important message in this historical period, ravaged by war conflicts near the heart of Europe.











Environment

For us, protecting the environment is a priority and as such, it is the subject of both the Policy for the Environment and the Sustainability Policy. This year we made our commitment even more tangible by defining new ESG targets and focusing on the ambition of becoming Carbon neutral by 2050.

We recognise the very delicate role that we cover because of the context we operate in and the nature of the works that we execute. This is why we operate according to high sustainability standards, with the aim of reducing the environmental footprint connected to the works as much as possible, taking care to preserve the wealth of the local ecosystem and recognising our role as key players in reducing Climate Change. Proper management of environmental issues has always been at the centre of our modus operandi and is formalised through the adoption of an **Integrated** Management System, whose environmental component is certified in accordance with the international standard ISO 14001: 2015. The system adopts a Risk-based-thinking approach and aims to ensure that, right from the planning stage, all our worksites carry out an assessment of the significant environmental **aspects**, i.e. all elements of our activities that interact with the environment and that can generate impacts on it, both in normal operating conditions and in potential emergencies. Below are the environmental aspects that are typically significant to our projects, that we keep under control because they may generate direct impacts on the local area:

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management

Noise and vibrations

Vehicular traffic

Management of

substances

waste and hazardous





Management of historical. architectural and archaeological heritage

We also quantify and monitor the environmental aspects that under normal operating conditions generate indirect impacts on a global scale, in order to raise awareness and reduce them over time. Specifically:



Consumption of natural resources and raw materials

ЛТ	
(4)	Energy

The methods for managing and monitoring environmental aspects that are significant for the contract are subsequently defined within an **Environmental** Management Plan and, in some cases, a Sustainability Management Plan, in order to prevent or mitigate the related impacts.

Planning the management of environmental aspects as part of Project Plans takes into account local legislation, contractual requirements, and objectives and targets set by the client for the works. Our company Sustainability Policies and Plan ensure the commitment to meet the needs and expectations of all stakeholders in each project, to adopt the same sustainability standards globally and the continuous improvement of our **environmental** performance over time.

The **results** achieved with our Projects for **2021** are described in the paragraphs below and compared with the information provided in the two previous years. It is worth noting that these representations are based on During the **construction** stage of the works, our different reporting boundaries.

y consumption



GHG emissions (scope 1 and 2)

teams perform an operational check and continuous monitoring of the significant environmental aspects. Other site activities are targeted training of the staff, audits and periodic inspections, analysis and resolution of environmental non-conformities and reporting of project performance as part of the periodic reporting to clients and to the headquarters.

On a Corporate level, we leverage this flow of information to monitor the organisation's environmental performance and set up suitable plans of action to pursue continuous improvement.



Trofilo



SANDRA EDWARDS Social Responsibility Manager, Central Interceptor, NZ

What is your career path and what brought you to **Central Interceptor?**

With a lifelong passion for travel, I joined the Royal New Zealand Navy as a Navigation Officer straight out of high school. My time was spent mostly sailing around New Zealand or the South China Sea and completing my Bachelor Studies. I then moved to Auckland Council as a Compliance Officer as I was not interested in the warfare studies which was the next step in my career. During my time at Council, I had most enjoyed working with earthworks and large-scale infrastructure projects so decided to get into construction. I worked for two of New Zealand's top tier construction companies, Downer NZ and Fletcher Construction. Initially as a Heath, Safety and Environment Advisor, then progressing to the National Environmental and Sustainability Manager for Fletcher Construction Infrastructure Division. I was keen to get back into project work and jumped at the chance to join the Central Interceptor international Joint Venture as the Environmental Manager initially then with a promotion to Social Responsibility Manager.

Can you briefly describe your role and what it entails Māku e kī atu 'He tāngata! He tāngata! He tāngata! on a day-to-day basis?

As the Social Responsibility Manager, I lead the Stakeholder/Communications, Environment and Sustainability Teams so no two days are the same. One day I could be reviewing steel and concrete usage to feed into our carbon data and the next I could be discussing noise and vibration monitoring results with an interested stakeholder. We also work hard to engage with mana whenua (local indigenous people) and support our client with their partnership relationship with them. We have Cultural Monitors during topsoil stripping, keep them up to date with progress on the project and look for opportunities to provide useful resources such as trees for carving or flax for weaving.

What challenges in your opinion are faced by women in construction?

Working in construction can be difficult for anyone with any outside of work responsibilities. With the early starts and long hours, it is important to have a support network around you. I am fortunate to have a very supportive husband and parents to help manage our family to get the children to school and football practice etc. I am always astounded by the single parents and expats who manage on their own.

What is the most stimulating aspect of the job?

The people who make up our Joint Venture whānau (family) are amazing – with such diverse backgrounds and experience. There is a māori whakatauākī (proverb) that is widely used in New Zealand because it is so true: it savs:

Kī mai ki ahau 'He aha te mea nui o te ao?' If I was asked 'What is the most important thing in the world?'

It is the people! It is the people! It is the people!

Meri Ngaroto, early 19th Century Te Aupouri wāhine rangatira (female chief)



Energy consumption and greenhouse gas emissions

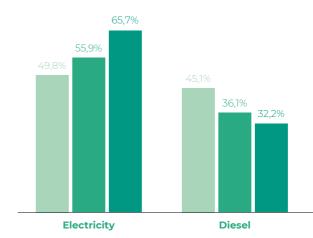
In our Environment Policy we aim to reduce the consumption of energy and minimise greenhouse gas was 696,311 GJ, recording a 6% drop compared to last year emissions. Construction work and on-site operating activities involve the consumption of energy resources - which we constantly monitor. This consumption is attributable to activities carried out by both Joint Ventures and subcontractors working on-site.

Consumption

Natural gas	
Petrol	
_PG	
Diesel	
Electricity	

Total

Below is the division by energy sources in the last three reporting periods:

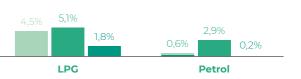


Energy consumption by source for 2019, 2020 and 2021

In 2021, the overall energy consumption at our worksites and 36% compared to 2019, as shown in the table.

unit	2019	2020	2021
GJ	0	2	0
GJ	6.673	21.714	1.674
GJ	48.772	37.929	12.554
GJ	491.805	267.987	224.320
GJ	543.011	415.146	457.762
GJ	1.090.261	742.778	696.311

2019 2020 2021





The primary source of procured energy is still electricity, and TBMs, where applicable, as well as auxiliary activities which is 65.7% of the total, about 10% more than last year. It is especially used for the operation of worksite machinery

in the offices and base camps. Of the employed fuels:



Is the second most procured source and nevertheless down 16% compared to 2020. It can be used for the operation of generators and worksite machinery and for the car fleet;

0

Diesel

Can be used to produce steam, canteen service. It is down by about 67%;

Is used as fuel for the car fleet for heating and domestic hot water and for construction vehicles. In 2021, in offices and base camps and for the it supplied a mere 0.2% of overall consumption.

In 2021 we recorded again a drop in all supplied fossil fuels, in keeping with our objective to reduce direct greenhouse gas emissions, stated also in the Sustainability Plan 2019-2022.



Energy consumption by source in 2019, 2020 and 2021



Worksites included in the 2020 reporting scope, with the exception of Cross River Rail recorded a drop in energy intensity. This is 0.08 GJ per hour worked in 2021, down about 8% compared to last year.

In addition to monitoring our energy consumption, we track greenhouse gas emissions associated to it, differentiating between those generated directly by the onsite production of energy through the combustion of diesel, LPG and petrol (Scope 1 emissions) and those related to the

Emissions

Scope 1

Scope 2

purchase of electricity from the grid (Scope 2 emissions), generated upstream at the power stations and that we are indirectly responsible for. The calculation method for scope 2 emissions is location based, i.e. the emission factors adopted for the calculations strictly depend on the energy mix of the countries where consumption occurs.

In 2021, we emitted 72,600 tCO_{2eq} related to energy consumption. Below is the division of the scope 1 and 2 emissions of the last three reporting periods.

unit	2019	2020	2021
tCO _{2eq}	40.225	23.966	17.717
tCO _{2eq}	63.569	45.650	54.883
tCO _{2eq}	103.794	69.616	72.600

Over the years, the share of scope 2 emissions is constantly rising, a clear sign of the current electrification process. The information provided so far refers to the overall consumption of the worksite. If the criteria of financial

control is applied, i.e. we allocate emissions according to the percentage of shares in the JVs, the overall value becomes **25,846 tCO_{2eq}**, down 8.3% in comparison to 2020, when Ghella's scope 1 and 2 emissions were **28,183 tCO_{2eq}**.

Emissions	unit	2020	2021	Var. 2021/20
Total	tCO _{2eq}	69.616	72.600	4,3%
Ghella Share	tCO _{2eq}	28.183	25.846	-8,3%

The table shows Ghella's share of GHG emissions normalised by revenue, i.e. per millions €

Some examples³⁰ of **energy saving** and emission **quantification** and **reduction initiatives** implemented up to 2021 are set out below:

- installation of LED lighting systems in tunnels and offices;
 use of electrical locomotives in tunnels instead of locomotives powered by the TBM's diesel generators;
- use of efficient machinery and ventilation systems in tunnels;
- use of an electric conveyor belt to move the excavated material out of the tunnel, rather than by truck;
- installation of solar-powered lighting towers to replace diesel-fuelled hybrid lighting towers;
- use of electrical locomotives in tunnels instead of locomotives powered by the TBM's diesel generators;
 performance of LCA (life cycle assessment) studies to obtain the EPD (environmental product declarations) for some construction materials, quantifying the carbon footprint of their life cycles.

Electric trucks for spoil transport

In 2021, Ghella Abergeldie JV, which is building the **Central** Interceptor, the longest wastewater collector in New Zealand, was given funding of \$500,000 New Zealand dollars from the **Low Emission Vehicles Contestable Fund**, a government programme to accelerate the use of electric vehicles in the country.

The co-funding contributed to the purchase of **three electric trucks** and the associated charging infrastructure, dedicated to transporting about **66,600 tonnes** of **spoil** material generated over the project life cycle.

For every 100,000 km travelled, these trucks will allow savings of about 40,000 litres of diesel with a **79%** reduction in **CO**_{2eq} emissions compared to the diesel truck scenario. The project predicts overall savings of about **300 tCO**_{2eq} equivalent to the annual emissions associated to the average energy consumption of **400 homes** in New Zealand.

In addition, electric trucks reduce **local** and **noise pollution**, and have **lower maintenance costs**.

This initiative will help achieve the **ISC** (Infrastructure Sustainability Council) rating requested by the Client Watercare, and will contribute to our **corporate target** of reducing **CO**_{2eq} emissions globally.

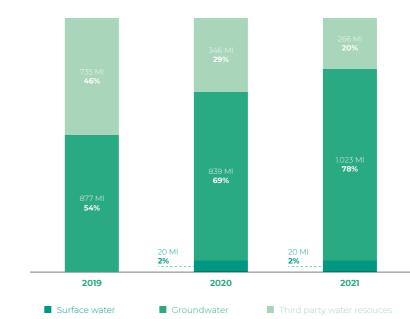




A 9% change was recorded in the water requirements, mainly due to the varying distribution of project phases within the reporting scope. In particular, the Cross River Rail worksite showed the most significant change, attributable

Resource protection

We are aware that the materials and natural resources we use in our production activities, or with which we interact, are not unlimited and are of great value. This section describes our approach to water, biodiversity and materials resource management.



WATER

We are aware that water resources are a precious asset, hence we promote their efficient use and guarantee the protection of the quality of groundwater and surface water. Water is withdrawn at all our worksites in compliance with local authorisations, obtained for the extraction of water from water bodies or public supplies. This activity is monitored and guided by resource saving principles, so

as to avoid any interference with the local water balance. The water requirements mainly fulfil TBM cooling, dust abatement, segment construction and other tunnelling works. In keeping with our Sustainability Policy, we implement, where appropriate, eco-design criteria aimed at water savings, from the very design stage.

Water recovery systems installed at the

segment factory



Reuse of the water generated during tunnelling, following purification



Use of non-potable underground water for construction activities by storing it in on-site tanks fed by wells



Collection and recovery of rainwater through accumulation systems.

Environment



Closed loop recirculation line of the TBM cooling water

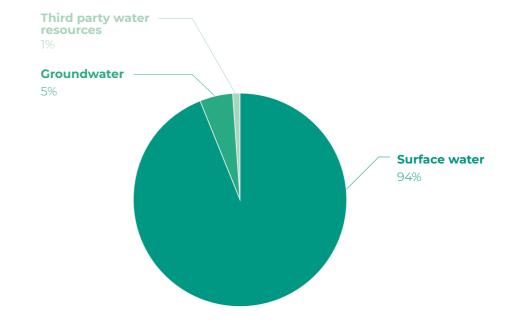
In 2021, we externally procured 1.310 MI of water, 79% of which was non potable. Below is the division by source of supply for the last three reporting periods:

Source of supply	unit	2019	2020	2021
Surface water	MI	-	20	20
Groundwater	MI	877	839	1.023
Withdrawal from public water supply	MI	735	346	266
Totale	MI	1.612	1.204	1.310

The overall data does not include the Broadway Subway worksite in Canada. In this case, water consumption is managed through licenses issued directly by the Client

Water withdrawal by source of supply for 2019, 2020 and 2021 (in MI)

In 2021, underground water continues to be the main source of supply. 78% of overall water withdrawals are from underground water, a further 9 percent increase from 2020. The withdrawal of surface water remains stable, while withdrawals from public water mains has dropped slightly. This result is due to the Italian Brennero worksite fulfilling its water requirements by withdrawing from



Division of wastewater in 2021

to the fact that excavation works were concentrated in this period. Below is a comparison between the division of water consumption by source of supply in the last three reporting years:

large underground water reserves, plentiful in the Upper Eisack Valley, therefore without stressing the water tables. Wastewater from our worksites consists of the water residue from site activities that has not been reused, the runoff water from the yards and the wastewater generated by offices and base camps. In 2021, this amounted to 7.005 MI, divided as follows:



In order to avoid potential alterations in water quality, we ensure compliance with the discharge requirements set out in the authorisations issued by local authorities. We do so by periodically sampling and analysing the quality parameters of the treated wastewater, according to a careful monitoring plan, through samples taken upstream of the discharge point. This may take place in the sewer and/or in surface water bodies, depending on local conditions (e.g. proximity to the sewer). Almost all discharges were carried out into surface water. Discharges into underground water amount to just 5% and are limited to Australia.

We pay utmost attention to preventing potential accidental damage to the water and soil compartments,

through the selection of the products we use and the application of operating instructions and containment and waterproofing measures. Potential accidental damage in our worksites may be due to:

- pollution caused by suspended solids, generated by the excavation works, hosing down of site surfaces and washing of vehicles;
- pollution due to the dispersion of cementitious components during concrete processing;
- pollution caused by hydrocarbons and oils, due to leaks from worksite vehicles and the handling of fuels and lubricants;
- accidental discharges of pollutants into surface waters or onto the ground.

environment. Before setting up the worksite, we carry out

investigations aimed at identifying any relevant plant or

animal species, for which it may be necessary to develop

a specific management and monitoring plan. Below are

the other main activities for protecting biodiversity:

Fauna protection measures

MATERIALS

The specific nature of the activities performed at our worksites entails significant demand for materials. In line with our Sustainability and Sustainable Procurement Policies, we promote the careful management of materials,

Reduce the consumption of materials and minimise waste 7 R



Consider their environmental footprint in the selection stage

BIODIVERSITY

With our Environment Policy we commit to preserving who actively manage their impact on habitats and the protected areas and species at risk of extinction, and in general to adopting technical and organisational measures suitable for the protection and safeguard of ecosystems and biodiversity. With our Sustainable Procurement Policy, we have formalised our effort to collaborate with suppliers

Flora protection measures

activities.



We limit the removal of local vegetation to the amount necessary for construction purposes to lessen the impacts on land use, so as to minimise the risk of erosion and sedimentation problems;



We guarantee the restoration of the

vegetation at the end of the construction



If injured animals are found during the cutting of the vegetation, we take charge of their transport to and treatment at previously identified veterinary centres.



Before removing vegetation, we ensure that the animals found within the site boundaries are relocated to a suitable habitat, in areas far enough from our work activities to be safe but not too far from the original location and featuring the same vegetation;



Respect for nature during local fauna relocation operations

We place great care in minimising the impact of our worksites on the local fauna. For this reason, the Environment team at the Central Interceptor project in Auckland works with a local ecologist from Ecology NZ to capture copper skinks, a type of native lizard in New



In 2021, we supplied **2.079.046 t** of construction materials. Compared to the previous reporting year, the amount of procured materials has gone down by 34%. This result is also affected by the exclusion from the reporting scope of projects that were close to the end of their life cycle. When considering just the projects included in both 2020 and 2021 reporting scopes, the intensity of the consumption of materials remained unchanged, and was 0.25 t/worked hour. Almost all materials used come

Fibre-reinforced concrete: eco-design applied to the segments of our tunnels

We are constantly looking for technical innovations that reduce the environmental impacts of our tunnels, also through eco-design solutions. An innovative practice that Ghella has implemented in recent years is the use of **steel fibres** instead of the traditional iron reinforcement of the segments, the elements that compose the ringlining of the tunnel. This choice leads to a significant **simplification of** the segment production process requiring less labour, thereby reducing the risk of injury, and offering better durability and ductility of the elements. In this way, we are able to reduce, while maintaining the in a similar **reduction in the emissions** associated to the element due

In addition, the carbon footprint of steel fibres and reinforcement bars can vary based on the industrial, energy and environmental cases, the former is lower, hence leading to a further reduction in the overall emissions of the fibre-reinforced elements compared to bar reinforced ones. With specific reference to the worksites where we saved CO , emissions for each single project, between 53% and 82% compared to the solution of reinforcement with bars, saving a total of **2,750 tCO _{\rm 2ed}** equivalent to the emissions associated to the average energy consumption of more than 850 Italian families in a

with the aim of limiting raw material depletion and reducing the environmental footprint associated with the supply of goods, by applying the following principles:



Give preference to materials with the highest circular economy benefits



Encourage reuse on site

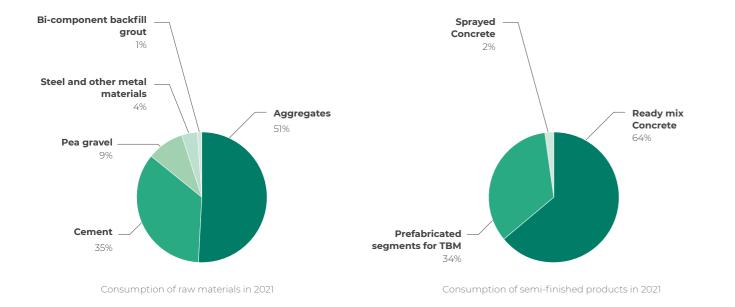
from non-renewable sources. The most significant raw materials for us are **aggregates and cement**, which make up 86% of the total, mainly used for the on-site production of concrete. The most significant semi-finished material is **Ready mix** concrete. Where possible, we install mills for the transformation of the excavation material into aggregates, so as to reduce our dependency on external procurement.





Furthermore, we promote on-site concrete production, with the installation of mixing plants, and on-site segment building. All of this makes it possible to directly manage

production and therefore have greater control over costs, over the efficiency of the process and the relative impacts (in this case, the impacts connected to transport are nil).



Other best practices that we have implemented to date to reduce the supply of materials are:

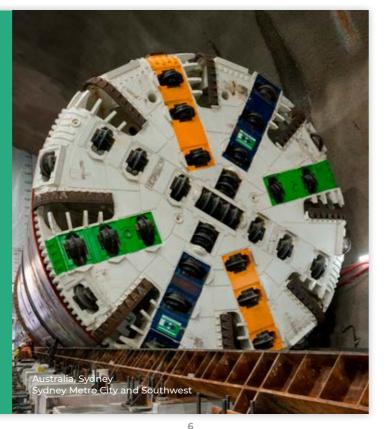
- identifying solutions during design to reduce
 using recycled materials compatible with aggregates the quantities of concrete required;
- providing recovery systems for concrete waste during production;
- reusing temporary base camp accommodation;
- maximising the reuse of on-site excavation materials • instead of purchasing new aggregates from quarries;
- (such as crushed glass) to reduce the purchase of new aggregates from quarries;
- producing or requesting from suppliers EPDs of the main construction materials for information about their environmental (and carbon) footprint throughout their life cycle.

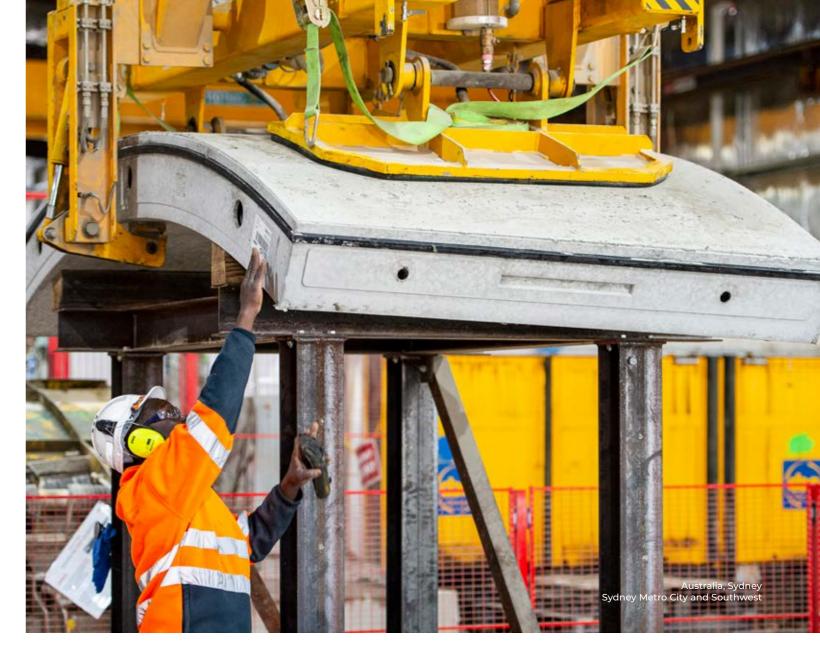
Reusing TBMs - circular economy among Australian worksites

The **TBM**, tunnel boring machine, is **the heart of mechanised** excavation. TBMs are sophisticated machines, so large that they contain an entire team of up to 20 people during operations. This is

To promote the efficient use of resources and lower environmental impacts, the Wendy and Mabel TBMs, used in the Sydney Metro City reconditioned and reused for the Cross River Rail project in Brisbane, where they were renamed Else and Merle.

for each machine), for a total weight of **800 tonnes of iron** and other reconditioning on-site prevented **CO** emissions associated to the transport of new machines, which are typically procured from China





Eliminating before reducing: the Whitney Street shaft in the Central Interceptor worksite

Constructing the Central Interceptor in Auckland, New Zealand, There are multiple **sustainability benefits** for this major design temporary shafts used for the launch and recovery of the TBM. These communities and stakeholders; and an estimated reduction of **200** tCO_{2ea} emissions, an amount equivalent to the emissions associated to the annual energy consumption of more than **258 houses** in New

also meant an increase in risk due to the size of the site. In addition, this site was a temporary structure with no permanent function or connections to the Central Interceptor, other than as a working shaft The project team investigated the possibility of eliminating the shaft section for the TBM with a curve and overall length of 1,193 m, a brand new record for MTBM (Micro-TBM) with a diameter of less than 2.5m. it possible to guarantee the quality of the project within the project



Waste and excavation materials

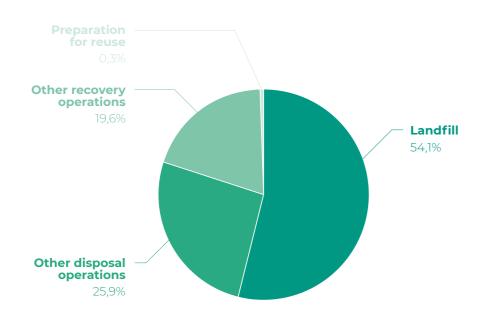
WASTE

demolition waste, sludge, municipal waste from offices and base camps and waste deriving from the maintenance of vehicles and machinery, vegetation waste/green cuttings.

In 2021, we generated **91,279 t³¹ of waste materials** overall, with more than 99% being non-hazardous in

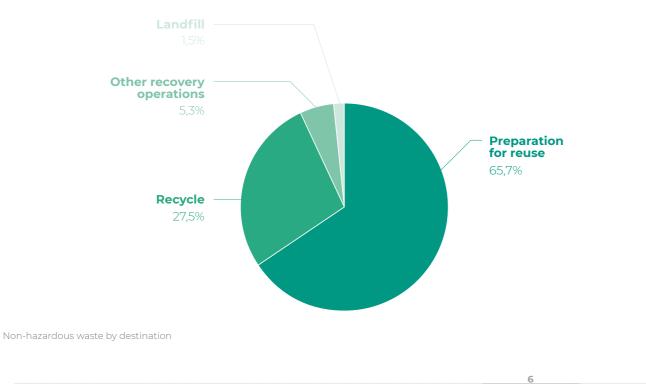
Our worksites produce mainly construction and nature, confirming the high attention to the selection of substances and products used at our worksites. Less than 2% of the waste produced went to disposal.

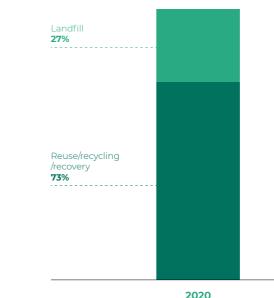
> Hazardous waste such as asbestos, sludge from collectors and mineral oils, amounting to 349 t, are mostly disposed of and, specifically, going to landfill.



Hazardous waste by destination

In 2021, a total of 90,930 t of non-hazardous waste was produced, of which only 1.5% went to landfill.





Total waste by disposal method in 2020 and 2021

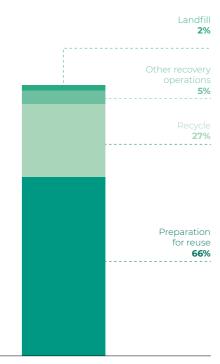
From the underground to the buildings of Brisbane: reusing excavated earth to make bricks

The Cross River Rail project in Australia established an important partnership with Austral Bricks Rochedale, a brick manufacturer in with circular economy principles.

over the course of the works, of which almost 300,000 m³ dug up by the TBMs alone. Of these, about 60,000 m³ will be used by Austral Cross River Rail is equivalent to the volume of 24 Olympic pools and will provide raw materials for Austral bricks for the next 6 or 7 years.

At the moment about 80% of the excavation material has been reused or stored for future use. Other uses include reuse in other worksites such as Brisbane Airport and the modernisation works of the Pacific Motorway. The material is used again in other lots of the project, such as RIS (Rail, Integrations and Systems) and internally at

as the raw material for making the Urban Developer Awards for Industry Excellence trophies, a prize that celebrates innovative urban



2021





Excavated earth and rocks

excavation materials produced during our work, where deemed suitable through analysis and testing, in • 6% reused in construction activities; accordance with local legislation.

In 2021, we produced 4,740,355 t of excavated materials, of which 98.6% was uncontaminated and reusable while just 1.4% was contaminated and therefore disposed of. 54% of the uncontaminated excavation material was reused on site, and specifically:

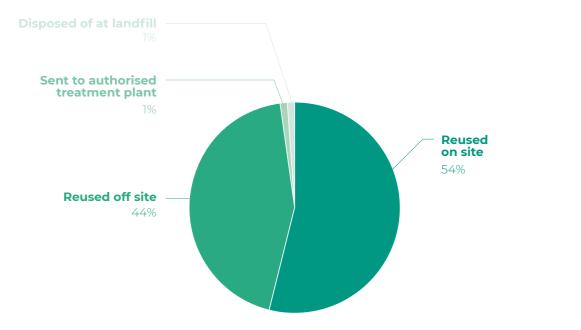
• 76% sent for environmental restoration - i.e. transferred to open-air deposits identified by the client to be reintegrated into the environment at the end of the work through replanting;

- We are committed to maximising the reuse of 17% reused as aggregates for the production of the tunnel segments and lining castings;

 - 1% reused for backfilling, embankments and tracks.

The amount of excavation material that is reused off site has risen by 30 percentage points to around 44%. This responds to our commitment to collaborate with other actors in the industry in order to promote circular economy.

2% of the uncontaminated excavation material was sent to landfill or to authorised treatment plants.



Destination of uncontaminated excavated earth and rocks in 2021

Lime stabilisation of excavated earth at the NA-BA worksites

Naples to Bari, in Italy. We therefore aim to create synergies and transfer best practices among the various lots that we are involved

One of these techniques is lime **stabilisation of the excavated** earth, currently being tested out at the Frasso Telesino-Telese lot,

800,000 m³ of excess excavation material that cannot be reused on site. According to our client's "Excavated earth and rocks reuse plan", this material would be sent to **external** allocated sites, about **90 km**

for embankments amounts to about 300,000 m³.

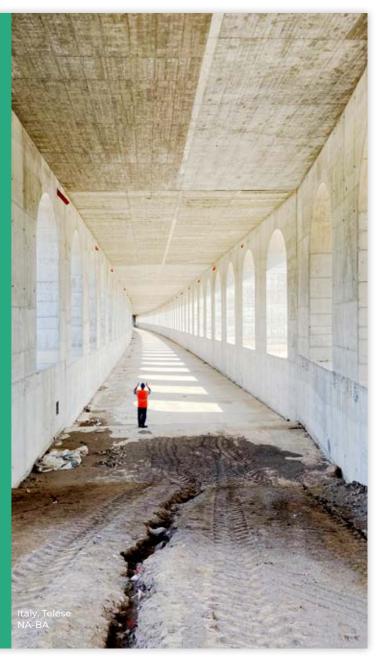
With lime stabilisation, we will be able to re-use about 200,000 m³ of excavation material on-site, 25% of the total, with a considerable drop from the quarry and with the transport of excavation materials to the

designated site and from the quarry to the worksite by **more than** 2,600 tCO

of materials improving **local traffic** and **air quality** and limit inconveniences to the **local communities**.

raw material availability issues linked to simultaneous work processes





The Rome head office

ELECTRICITY FROM THE GRID

2019	> 885.117 kWh
2020	> 767.962 kWh
2021	> 852 990 kWh

RENEWABLE ENERGY PRODUCED *

2019	> 33.750 kWh
2020	> 30.710 kWh
2021	> 29.030 kWh

WATER CONSUMPTION

2019	> 2.637 m³
2020	> 2.987 m³
2021	> 2.987 m ³

WASTE

2021 > 2.005 ton

Paper – **40%** . Compost - **35%** Plastic/Glass/Metal - **14%** Landfill – **11%**

2021 INITIATIVES AT THE HEADQUARTERS



Environment



Appendix Methodological note

OBJECTIVES

The Sustainability Report is the tool that we use to improvement process because through monitoring and communicate the impacts and results of Ghella's activities measuring performance alone it is possible to plan and and of its most significant production units to all of our stakeholders. For us this is fundamental to the continuous

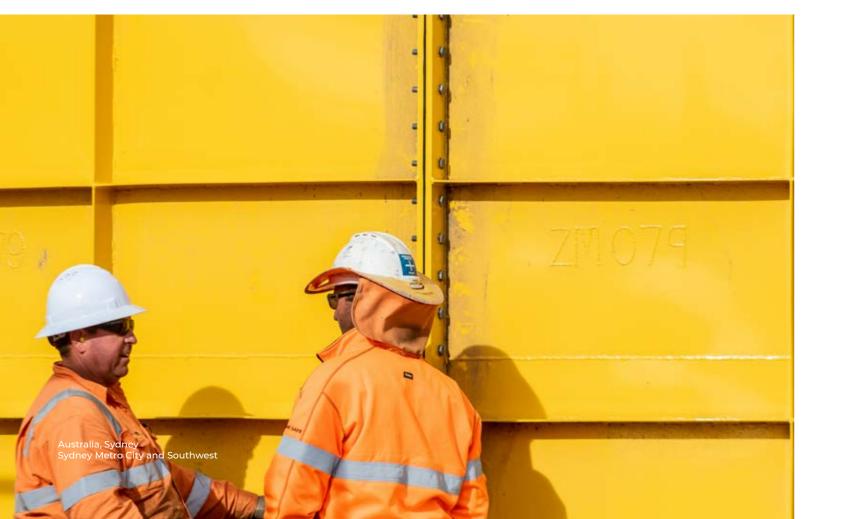
REPORTING PERIOD AND SCOPE

We have prepared a Sustainability Report every year and voluntarily, starting in 2019. The data included referdata refers to the period 1st January 2021 - 31 December 2021 and, where applicable, areis compared with the results of the two previous years. In addition to the Parent Company Ghella S.p.A., the Consolidated Financial Statements also include the companies controlled by it, directly or indirectly. Specifically, subsidiaries are bodies that Ghella S.p.A. controls, either as the direct or indirect shareholder

define a solid and competitive strategy.

of the majority of votes at the shareholders' meeting, or by having the dominating influence expressed through the power to determine the financial and managerial choices of the body, obtaining the relative benefits. The Sustainability Report, on the other hand, includes the following production units in addition to the Ghella S.p.A. parent company (the headquarters of Rome, Turin, Telese, Buenos Aires):

COUNTRY	PROJECT	AREA	CUSTOMER	JV	COMPANY
Australia	Cross River Rail	Metro	Cross River Rail Delivery Authority	CPB, BAM, Ghella, UGL	Pulse partnership Pty Limited
Canada	Broadway Subway Project	Metro	Province of British Columbia	Acciona Infrastructure, Ghella	Broadway Subway Project Corporation
Italy	Brenner Base Tunnel - Lot "Mules 2-3"	Railway	BBT SE _ Brenner Basistunnel	Astaldi, Ghella, Cogeis, PAC	Brennero Tunnel Construction S.c.a.r.l.
Italy	High Speed Naples-Bari, Cancello - Frasso Telesino section	Railway	RFI Rete Ferroviaria Italiana S.p.A.	Pizzarotti, Ghella, Itinera	Consorzio CFT
New Zealand	Central Interceptor	Water	Watercare Services Ltd	Ghella, Abergeldie	Ghella Abergeldie JV



Projects were selected according to parameters estimating their potential environmental, social and economic impact. The collected and reported data refers to the projects in their entirety.

The reporting for 2021 also includes the subsidiaries Ghella Ptv Ltd. Ghella Limited and Ghella Canada. that the aforementioned productions units are managed by.

The material themes are those identified through the materiality analysis of 2019 and described in the chapter "Company".

The data provided in the chapter "Environmental protection" refers to production sites only. The Sustainability Report is prepared by the Compliance & Sustainability department, reviewed by the ESG Committee and approved by Ghella S.p.A.'s Board of Directors.

KPMG S.p.A. performed a Limited Assurance Engagement in accordance with ISAE 3000 (Revised). For more details on the audit and the procedures conducted by the independent auditor, refer to the "Indipendent auditors' report on the sustainability report".



GRI CONTENT INDEX

Ghella has reported in accordance with the GRI Standards for the period 1st January 2021 – 31st December 2021.

GRI STANDARD	DESCRIPTION	PAGE	NOTES
General disclo	osures		
2-1	Organizational details	6, 14	The headquarter of Ghella S.p.A. is located at Via Pietro Borsieri, 2/A - 00195 Rome
2-2	Entities included in the organization's sustainability reporting	82-83	
2-3	Reporting period, frequency and contact point	82	
2-4	Restatements of information		
2-5	External assurance	83, 88-90	
2-6	Activities, value chain and other business relationships	6-7, 22-23	
2-7	Employees	35-36	
2-8	Workers who are not employees	36	
2-9	Governance structure and composition	14-16	
2-10	Nomination and selection of the highest governance body	16	
2-11	Chair of the highest governance body	14	
2-12	Role of the highest governance body in overseeing the management of impacts	16	
2-13	Delegation of responsibility for managing impacts	16	
2-14	Role of the highest governance body in sustainability reporting	16, 83	
2-15	Conflicts of interest		Board members sign a declaration of responsibility and absence of conflict of interest.
2-16	Communication of critical concerns		"The reports are processed and verified by the competent control body (OdV for Italy, General Counsel for the foreign perimeter). Upon completion of the activities, the reports are circulated to the Board of Directors. We recorded no critical reports in the year 2021."
2-17	Collective knowledge of the highest governance body		The external certification body RINA S.p.A. annually conducts a third-party audit of the organization to verify compliance with the requirements of ISO 9001, 14001, 45001 of the Management System and Policies signed by the President.
2-18	Evaluation of the performance of the highest governance body		The BoD is not subject to performance evaluation.
2-19	Remuneration policies		Our practice is to pay in line with the market to attract the best skills and most experienced resources.
2-20	Process to determine remuneration		Due to the nature of our organization, the indicator is not applicable.
2-21	Annual total compensation ratio		5.25 in 2021 (+9% over 2020). The result is an average of what was collected from the units included in the scope of reporting and is calculated on employees only.

GRI STANDARD	DESCRIPTION	PAGE	NOTES
General disclo	osures		
2-22	Statement on sustainable development strategy	3	
2-23	Policy commitments	17	
2-24	Embedding policy commitments	17	
2-25	Processes to remediate negative impacts	17-20	
2-26	Mechanisms for seeking advice and raising concerns	20	
2-27	Compliance with laws and regulations		There are no significant cases of non- compliance with laws or regulations in 2021.
2-28	Membership associations	59	
2-29	Approach to stakeholder engagement	10	
2-30	Collective bargaining agreements	41	
3-1	Process to determine material topics	10	
3-2	List of material topics	10	
Anticorruptio	n		
3-3	Management of material topics	17-20	
205-3	Confirmed incidents of corruption and actions taken		During 2021, there were no corruption cases and no lawsuits against Ghella or his representatives.
Non discrimir	nation		
3-3	Management of material topics	17-20, 37	
406-1	Incidents of discrimination and corrective actions taken		During 2021, there were no incidents of discrimination by size of diversity or violation of the rights of indigenous people.
Diversity and	equal opportunity		
3-3	Management of material topics	17-20, 37-39	
405-1	Diversity of governance bodies and employees	37-39	
Human capita	al development		
3-3	Management of material topics	17-20	
401-3	Parental leave	37	
404-1	Average hours of training per year per employee	40	
-	Sustainability culture	42	



GRI STANDARD	DESCRIPTION	PAGE	NOTES

Occupationa	I health and safety	
3-3	Management of material topics	17-20, 44-45
403-1	Occupational health and safety management system	44-45
403-2	Hazard identification, risk assessment, and incident investigation	44-49
403-3	Occupational health services	44-45, 49
403-4	Worker participation, consultation, and communication on occupational health and safety	44-45
403-5	Worker training on occupational health and safety	40, 44-45, 47
403-6	Promotion of worker health	44-49
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	44-49
403-9	Work-related injuries	45-47
Externality ev	aluation	
201-1	Direct economic value generated and distributed	52-53
Evaluation of	suppliers	
3-3	Management of material topics	54-55
204-1	Proportion of spending on local suppliers	55
308-1	New suppliers that were screened using environmental criteria	55
408-1	Operations and suppliers at significant risk for incidents of child labor	55
414-1	New suppliers that were screened using social criteria	55
Energy and e	missions	
3-3	Management of material topics	62-63, 65-69
302-1	Energy consumption within the organization	65-66
305-1	Direct (Scope 1) GHG emissions	67
305-2	Energy indirect (Scope 2) GHG emissions	67

GRI STANDARD	DESCRIPTION	PAGE	NOTES
Resource prot	tection		
3-3	Management of material topics	62-63, 70-75	
301-1	Materials used by weight or volume	73-74	
303-1	Interactions with water as a shared resource	70	
303-2	Management of water discharge-related impacts	71-72	
303-3	Water withdrawal	71	
303-4	Water discharge	71	
304-2	Significant impacts of activities, products and services on biodiversity	72	
Waste			
3-3	Management of material topics	76-79	
306-3	Waste generated	76-78	
306-4	Waste diverted from disposal	76-78	
306-5	Waste directed to disposal	76-78	

GRI

DACE NOTES







Ghella Group Independent auditors' report 31 December 202

KPMG S.p.A. Revisione e organizzazione contabile Via Curtatone. 3 00185 ROMA RM Telefono +39 06 80961 Email it-fmauditaly@kpmg.it PEC kpmgspa@pec.kpmg.it

(This independent auditors' report has been translated into English solely for the convenience of international readers. Accordingly, only the original Italian version is authoritative

Independent auditors' report on the sustainability report

To the board of directors of Ghella S.p.A.

We have been engaged to perform a limited assurance engagement on the 2021 Sustainability report (the "sustainability report") of the Ghella Group (the "group").

Directors' responsibility for the su ainability report

The directors of Ghella S.p.A. (the "parent") are responsible for the preparation of a sustainability report in accordance with the "Global Reporting Initiative Sustainability Reporting Standards" issued by GRI - Global Reporting Initiative (the "GRI Standards"), as described in the "Methodological note" section of the sustainability report.

The directors are also responsible for such internal control as they determine is necessary to enable the preparation of a sustainability report that is free from material misstatement, whether due to fraud or error.

They are also responsible for defining the group's objectives regarding its sustainability performance and the identification of the stakeholders and the significant aspects to report.

Auditors' independence and quality control

We are independent in compliance with the independence and all other ethical requirements of the International Code of Ethics for Professional Accountants (including International Independence Standards) issued by the International Ethics Standards Board for Accountants (the IESBA Code), which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Our company applies International Standard on Quality Control 1 (ISQC Italia 1) and, accordingly, maintains a system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

KPMG S.p.A. è una società per azioni di diritto italiano e fa parte del network KPMG di entità indipendenti affiliate a KPMG International Limited, società di diritto inglese

Ancona Bari Bergamo Bologna Bolzano Brescia Catania Como Firenze Genova Lecce Milano Napoli Novara Padova Palermo Parma Perugia Pescara Roma Torino Treviso Trieste Varese Verona

Società per azioni Euro 10.415.500,00 i.v. Registro Imprese Milano Monza Brianza Lodi e Codice Fiscale N. 00709600159 R.E.A. Milano N. 512867 Partita IVA 00709600159 VAT number IT00709600159 Sede legale: Via Vittor Pisani, 25 20124 Milano MI ITALIA

Auditors' responsibility

Our responsibility is to express a conclusion, based on the procedures performed, about the compliance of the sustainability report with the requirements of the GRI Standards. We carried out our work in accordance with the criteria established by "International Standard on Assurance Engagements 3000 (Revised) - Assurance Engagements other than Audits or Reviews of Historical Financial Information" ("ISAE 3000 revised"), issued by the International Auditing and Assurance Standards Board applicable to limited assurance engagements. This standard requires that we plan and perform the engagement to obtain limited assurance about whether the sustainability report is free from material misstatement.

A limited assurance engagement is less in scope than a reasonable assurance engagement carried out in accordance with ISAE 3000 revised, and consequently does not enable us to obtain assurance that we would become aware of all significant matters and events that might be identified in a reasonable assurance engagement.

The procedures we performed on the sustainability report are based on our professional judgement and include inquiries, primarily of the parent's personnel responsible for the preparation of the information presented in the sustainability report, documental analyses, recalculations and other evidence gathering procedures, as appropriate.

Specifically, we carried out the following procedures:

- outcome is validated internally;
- the sustainability report.

Specifically, we held interviews and discussions with the parent's management personnel. We also performed limited procedures on documentation at specific sites (Brennero, Cancello Frasso Telesino, Cross River Rail and Central Interceptor) to gather information on the processes and procedures used to gather, combine, process and transmit non-financial data and information to the office that prepares the sustainability report.

Furthermore, with respect to significant information, considering the group's business and characteristics:

- at parent level

 - indicators ntitative information;

1) analysing the reporting of material aspects process, specifically how these aspects are identified and prioritised for each stakeholder category and how the process

2) comparing the financial disclosures presented in the "Key financial figures" and "Economic value generated and distributed" sections of the sustainability report with those included in the group's consolidated financial statements;

3) understanding the processes underlying the generation, recording and management of the significant qualitative and guantitative information disclosed in

a) we held interviews and obtained supporting documentation to check the qualitative information presented in the sustainability report;

b) we carried out analytical and limited procedures to check, on a sample basis, the correct aggregation of data in the qua on a sample basis, supporting the correct application of the procedures and methods used to calculate the

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Ghella Group Independent auditors' report 31 December 2021

- with reference to the Brennero, Cancello Frasso Telesino, Cross River Rail and Central Interceptor sites, which we have selected on the basis of their business, contribution to the key performance indicators at consolidated level and location, we obtained documentary evidence on a sample basis, supporting the correct application of the procedures and methods used to calculate the indicators.

Conclusion

Based on the procedures performed, nothing has come to our attention that causes us to believe that the 2021 Sustainability report of the Ghella Group has not been prepared, in all material respects, in accordance with the requirements of the GRI Standards, as described in the "Methodological note" section of the sustainability report.

Rome, 2 August 2022

KPMG S.p.A.

(signed on the original)

Marco Maffei Director of Audit

- PORTER M. E., KRAMER M. R., Creating Shared Value, in "Harvard Business Review", January/February 2011, p.64-77
- "Scope 1 and 2" emissions mean direct greenhouse emissions generated through combustion in plants, vehicles, boilers, etc either owned or under the company's control (Scope 1) and the indirect greenhouse gas emissions generated through the electricity used by the organisation (Scope 2)
- https://www.bbtinfo.eu/it/bilancio-della-co2/ 3
- 4 https://www.napolibari.it/content/fsinapolibari/it/il-progetto.html
- https://cloud.telt-sas.com/index.php/s/MWLBhuOJOMTtppA 5
- 6 Sydney Metro CSW Business Case Summary
- 7 Cross River Rail business case, Building Queensland, August 2017
- 8 Described in the Sustainability Report 2020 (p. 70)
- 9 https://www.sydneymetro.info/sites/default/files/2021-09/Project_Overview_Sydney_Metro_Western_Sydney_Airport_September_2020.pdf
- 10 https://www.sydneymetro.info/sites/default/files/2021-09/Sydney_Metro_Western_Sydney_Airport_Environmental_Impact_Statement_ Newsletter.pdf
- 11 Eglinton Crosstown West Extension Initial Business Case, Feb 2020, Metrolinx
- 12 https://www.adb.org/projects/40080-013/main#project-pds
- 13 https://www.ametro.gr/?p=8313&lang=en
- 14 https://roads-waterways.transport.nsw.gov.au/projects/f6/index.html
- 15 https://www.worldbank.org/en/news/feature/2014/07/29/avances-matanza-riachuelo
- 16 http://www.idea-rt.com/projects-our-work
- 17 Approved by the Interministerial Committee for Ecological Transition (Cite) in resolution no. 1 of March 8, 2022
- 18 Year of reference 2020
- 19 Employees with the right to parental leave are those with contracts that cover this aspect and who had children during the year.
- 20 The frequency index (LTIFR) expresses the average frequency of injuries lasting more than three days as required by Eurostat and is calculated according to the UNI 7249 standard by considering the ratio between the number of injuries and the total hours worked, multiplied by
- 21 The lost time incident severity rate (LTISR) shows the average severity of incidents lasting more than three days as established by Eurostat and hours worked multiplied by 1.000
- 22 The total frequency index (TRIFR) takes into account all the accidents that have occurred (recordable accidents at work: accidents at work - lost-time injury "LTI"-; injuries with medication only - medical treatment case "MTC"; injury which did not generate an absence from work restricted work case "RWC"-, death). The index is calculated by considering the ratio between the number of recordable occupational injuries and the total hours worked, multiplied by 1,000,000
- 23 The data from 2020 and 2019 were recalculated on the total of active Projects in those years and include Ghella S.p.A. workers
- 24 occupational injuries "LTI" lost-time injuries
- 25 injuries with medical treatment only medical treatment case "MTC"
- 26 injury that did not lead to absence from work restricted work case "RWC"
- 27 The rate is calculated by dividing the number of severe injuries by the total number of hours worked multiplied by 1,000,000
- 28 https://www.bbtinfo.eu/it/osservatorio/
- 29 The data only refer to investments made by Ghella S.p.A., and does not take into consideration the contributions of the worksites to the respective local communities. The data include donations and sponsorships for foundations that promote scientific research, cultural events, music academies
- 30 The list presents some examples of projects implemented in some of our worksites
- 31 The data do not include the Central Interceptor worksite in New Zealand. In addition, it should be noted that 0.25 MI hazardous waste (mainly septic waste), and 2,705 m³ non-hazardous waste (generic waste from offices, paper and cardboard) was sent to the landfill, of which 48% going to recycling and 52% going to landfill.

is calculated in accordance with UNI 7249 by considering the ratio between the number of days of absence from work and the total number of











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