

# TIM GROUP'S ALIGNMENT WITH THE RECOMMENDATIONS OF THE TASK FORCE ON CLIMATE-RELATED FINANCAL DISCLOSURES (TCFD)

July 2024



TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES



The TIM Group manages climate change-related risks and opportunities in accordance with main international frameworks and standards, reporting its performance in line with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD). Specifically, the TCFD promotes the voluntary disclosure of Climate-related financial information with the aim of supporting organizations' stakeholders in properly assessing climate-related risks and opportunities by identifying the four key areas of recommended climate-related financial reporting: Governance, Strategy, Risk Management e Metrics & Targets.

The following is an overview of the TIM Group's alignment with the above recommendations, based on the individual domains and related disclosure requirements addressed by the TCFD Framework.



1) TIM's governance on climate-related risks and opportunities



- a) Information regarding the Board's oversight of climate-related risks and opportunities
- b) Role of management in assessing and managing climate-related risks and opportunities

TIM has a solid corporate governance system to minimize business risks and costs, through the assignment of clear roles and responsibilities including those related to environmental and climate themes.

In particular, on ESG aspects, the Board of Directors is supported by two endoconsiliar committees that, at least annually, oversee and inform the Board itself on climate aspects. The committees have specific responsibilities, expertise appropriate to the tasks they are called upon to perform and have a dedicated annual budget and spending autonomy:

- Sustainability Committee: composed of five directors with advisory, proactive, monitoring and instructional duties, it supports and directs the activities of the Board and management, on the Environmental (including purely climate aspects), Social and Governance sustainability front, in terms of positioning, objectives, processes, specific initiatives at the Group level.
  - The Committee reviewed and endorsed the decarbonization program initiated to reduce Scope 1, 2 and 3 emissions, in line with the Science Based Targets initiative, and achieve Carbon Neutrality targets by 2030 and Net-Zero targets by 2040.
  - Thus, the Board of Directors, through the approval of Sustainability Strategic plan and monitoring of Sustainability Reporting, validates and oversees the strategy in the environmental and climate areas and the implementation of the different environmental sustainability policies and initiatives considering in its assessments the risks and opportunities related to environmental aspects and climate change. In this regard, the Sustainability Committee is also involved in the ESG aspects of the activities overseen by the remaining endoconsiliar committees, in terms of sharing documents or joint investigations.
- Control and Risk Committee: composed of nonexecutive directors, all of whom are currently independent, the Committee monitors observance of corporate governance rules, regulatory developments and best practices in the area of controls and corporate governance, oversees the preparation of financial and nonfinancial reporting for the period (which provides disclosure on climate performance), and collaborates with the Sustainability Committee in the assessment and management of sustainability risks, including those related to environmental issues. In this



context, the same Committee annually oversees and approves the materiality analysis, which considers Climate Change a relevant issue for the Group.

Both committees have the opportunity to access information and question the corporate functions necessary to carry out their tasks.

At the management level, the oversight of sustainability issues in Environmental (including climate aspects), Social and Governance is entrusted to the Corporate Communication & Sustainability (CCS) Function, which reports directly to the CEO. Within the above function, a 'Sustainability' organizational function was established in April 2022, representing a single pole dedicated to defining, guiding and managing sustainability. The Function specifically, defines in collaboration with other corporate functions the ESG targets for the Business Plan, identifies sustainability initiatives to support the Plan, drafts the Non-financial Statement, oversees sustainability ratings in coordination with the CFO, collaborates with the Risk Management Function in order to assess and manage risks related to environmental (including climate issues), social and governance aspects.

The head of the Corporate Communication & Sustainability function jointly with the head of Sustainability participates in all Sustainability Committee meetings, regarding which the Chairman provides specific information to the Board of Directors.

The management of sustainability issues is also present in the mandate of some corporate functions with direct organizational impacts on the economy, environment and people, which act in synergy with the Sustainability Function (Chief Human Resources & Organization Office, Procurement & Logistics, Chief Enterprise and Innovative Solutions Office, etc.).

Within the Group, TIM Brazil also has its own governance structure with four Endoconsiliar Committees supporting the Board of Directors. Sustainability topics are managed by a Sustainability Function and at the strategic level by the ESG Committee, which interacts with the Compensation Committee and the Control and Risk Committee.

Lastly, in order to give full substance to our people's commitment to environmental issues, within the long-term incentive plans of the CEO, top management and certain managers of TIM's business units, we include targets linked to the reduction of CO2 emissions, which can be achieved through an increase in the renewable energy component of total energy consumption (percentage is defined as MWh from self-produced and purchased renewable sources divided by total MWh consumed). In addition, business unit managers, depending on their sphere of operation, benefit from a short-term incentive (MBO) system, which is also accompanied by targets that aim to achieve CO2 emission reductions through an increase in the use of renewable energy in total energy consumption, and through energy efficiency projects and aimed at introducing low-carbon solutions (e.g., smart working, smart mobility).

2) Actual and potential impacts of climate-related risks and opportunities on TIM's business, strategy, and financial planning



- a) Climate-related risks and opportunities identified in the short-, medium-, and long-term.
- b) Impact of climate-related risks and opportunities on the organization's activities, strategy and financial planning.
- c) Resilience of the organization's strategy, considering different climate scenarios, including scenarios of temperatures equal to or below 2°C.

The TIM Group, one of the world's leading ICT players, structurally bases its business on fixed network, mobile and data center infrastructures that consume large amounts of energy, growing year by year, impacting the environment in terms of  $CO_2$  emissions.



Our direct production activities and value chain activities may have an impact on climate change in terms of greenhouse gas emissions and global warming as a result of fossil fuel consumption, non-renewable energy sources and refrigerant gas leakage, and the use of suppliers.

Strongly aware of our role in building a low-carbon future, we are committed to the mitigation and/or resolution of negative climate change impacts through:

- the inclusion of ESG issues in the Group's strategic planning;
- setting specific ESG targets in the Business Plan of which as many as six are focused on the environment, such as the achievement of 100 percent renewable energy and the achievement of net zero emissions;
- the implementation of projects aimed at the progressive decarbonization of supply chain activities, efficient management and with increasing use of renewable sources for infrastructure; the choice of sustainable suppliers to contain the emissions of the entire value chain; and the development of low-emission solutions, products and services for customers;
- the definition of Codes of Conduct and Policies that commit the company and relevant stakeholders, including the Environmental Policy in line with the main international reference standards (e.g., ISO 14001, ISO 14064, ISO 50001, GHG Protocol);
- the implementation of offsetting initiatives aimed at neutralizing emissions from certain Group activities;
- transparent and systematic communication to its stakeholders of its climate strategy commitments, promoting stakeholder engagement and capacity building on environmental issues.

FOCUS   Low Carbon Products						
Type & Description of product(s)	Level of aggregation	% of total revenues from "climate change" product(s) in the FY2023	Estimated total avoided emissions per year	Comment		
Low carban product(s)  Consumer 2023: Tim box Sim green Repeater EasyMesh Modem Corded Cordless	Group of products	1%	64 tCO2e	Examples of low carbon products:  TiM Box that is the decoder for streaming and entertainment services provide both by TIM (e.g. TimVision, TimMusic, etc.) and by other providers (DA2N, Netflix, Prime Video, etc.), which also includes the new DVB-T2 decoder (Digitaterrestrial TV). TIM Box belongs to the TIM Eco-friendly line of green products, that includes modems, access gateways, decoders, corded and cordless phones. Thanks to an effective cooperation with the Group's suppliers, specific ecodesign rules and energy saving features have been adopted.  TIM Green SIM, a newly developed SIM for mobile services which is half of the previously produced ones by dimension and for which 60% of the used plastic comes from recycled materials. Starting 2021, the new Green SIM card is used for both new Customers and maintenance purpose (i.e. change of SIM due to loss, theft, substitution, etc.). The use of sustainable sim cards has contributed to saving about 8 tons of plastic in 2023.		
Avoided emissions for third- parties  TIM low carbon services 2023 for Enterprise market are:  data processing, hosting and related activities  data-driven solutions for GHG emissions reductions  programming and broadcasting activities	Group of products	4.4%	13,813 tCO2e	Here is the offer specifically developed for Enterprise Customers, i.e. Data Center Solutions and Virtual Hosting. Through Data Center Solutions (DCs Colocation and DCs Housing) TIM manages to house and host its Customers' physical servers in the Group's Data Centers. With the same infrastructure we manage Virtual Hostin services. This allows a saving of energy consumption due to the better energy performance of our DCs compared to the average available DCs on the market. This lead to a saving in terms of emissions generated by Customers. Such aggregation of services is based on the requirements of the EU Taxonomy to classify the services that contribute to climate change mitigation and adaptation objectives: (Regulation (EU) 2020/852 of the European Parliament and of the Council of 18 June 2020.  The evaluation of the CO2 savings of the Enterprise services was made considerin the emissions due to these services in NOOVLE compared to a market baseline.		

Our commitment to minimizing impacts related to climate change also translates at the operations level with the achievement, by the Group's main functions and/or companies that have a significant impact on stakeholders, of certifications in line with ISO 14001 and ISO 50001.

Further evidence of the Group's commitment to climate mitigation is the validation of its emission reduction commitments by the Science Based Targets initiative (SBTi). Finally, the Group is an active



member of numerous national and international industry associations and nonprofit organizations whose objective is environmental protection, including:

- European Green Digital Coalition;
- GSMA Foundation;
- European Telecommunications Network Operators' Association (ETNO);
- European Telecommunications Standards Institute (ETSI);
- Global e-Sustainability Initiative (GeSI);
- International Telecommunication Union (ITU)
- Eco Rating.

Climate change events can have physical, economic and regulatory implications, with financial repercussions on the company's image and reputation. To prevent, monitor and mitigate the possible negative impacts of risks, TIM has defined its own risk matrix, which includes an adaptation plan, defined on the basis of the specific context in which the company operates, covering all existing operations (in terms of revenue, 100%) and future new operations (in terms of revenue, 100%).

With respect to existing operations, we have the ambition to implement adaptation solutions in a timeframe of less than 5 years, with the opportunity to strengthen resilience and efficiency of our assets and to start a process of energy transition.

In the Climate area, the Enterprise Risk Management Function identifies and assesses in the short, medium, and long term the physical risks associated with rising temperatures that cause extreme and unexpected weather precipitation, landslides, floods, or overflows. In particular, it considers:

- Hydrogeological risks related to damage caused to real estate and network assets, increased Assurance Costs (Assurance Cost Overspending), and reduced capacity due to temperature increase stress (Decreased job performance)
- Transition risks arising from the potential introduction of a Carbon Tax applied to CO<sub>2</sub> emissions and increased spending on energy to purchase or produce renewable energy to curb emissions (Energy Overspending).

In this context, TIM may have to manage excessive Opex and Capex spending to ensure business continuity, expected quality to customers, and compliance with Strategic Plan goals through the following targeted interventions:

- optimization of the placement of all types of equipment within the real estate;
- insurance coverage for catastrophic natural events;
- structural interventions aimed at containing the effects of flooding/flooding;
- analysis of hydrogeological risk maps for network planning and development;
- prioritization of decommissioning of energy-intensive equipment and technologies based on risk level;



• agreements with network providers to regulate service restoration efforts during extreme weather events.

			Risks and op	portunities   Example 1	
		Impacted value chain part	Primary potential financial impact	Time horizon	Impact magnitude
		Direct operations	Increase in direct costs Estimated financial implications of the risk before taking action: 32 €million	Medium-Long term  Average estimated time frame (in number of years) for financial implications of the risk:  5	Medium-low
	ן tax		Company	- specific description	
	Emerging Regulation   Introduction of a carbon tax	Region) lead to increasing demand electricity generation (Scope1) and effuels seems to be a realistic measure years in the EU if the Emissions Tra	for the Group's energy and, consequen electricity purchase (Scope2). In this cont e in order to put pressure on companies. ding Scheme (ETS) fails. The introductions used for heating and electricity general	tly, also to an increase in CO2 er ext, a regulatory intervention aimed The evolving legislative scenario su n of a carbon tax on emissions gen	ructure (new 5G technology) and data centers (Cloud missions generated from the consumption of fuels for at introducing a carbon tax to reduce the use of fossil ggests the possible introduction of a carbon tax within 5 erated by the company would increase operating costs e cost of electricity/kWh), since a significant portion of
¥	rodu		Explanati	on of financial impact	
RISK	gulation   Int	costs. In addition, it is also assumed be passed on to the cost of electricit 2023 and a conservative estimate of	to increase the cost of renewable energy y for users such as TIM. The financial im f the carbon tax price based on currently	procurement, as the costs of devel pact estimated by the Group is base available information. Considering	ch would have an economic impact on TIM's operating oping renewable energy generation technologies could do on Scope 1+2 emissions generated by the Group in post-Cowld trends, carbon tax prices are expected to g a significant increase in the cost of fossil fuels and
	g Re		Risk	response cost	
	rgin	Estimated costs of these actions: 4 €	million		
	Eme	Management System in line with t (agreements to purchase PPAs and efficiency of air conditioning system industrial properties according to a r assets supporting the business and	he ISO 14001 Standard and taking on development of facilities for self-generatic s on power plants, in order to ensure a le eplacement plan that takes into account reduce their environmental impacts- ener	ambitious science-based targets on) - creation of a plan of interventic ower impact in terms of emissions the obsolescence and strategic nati gy-saving projects such as the imp	s emission impact:- adopting a certified Environmental (SBTi)- increased use of renewable energy sources ms, at the national level, to upgrade infrastructure and - progressive modernization of technological assets of ure of the sites, in order to strengthen the resilience of lementation of Building Energy Management Systems, ms (power and air conditioning) in the halls of fixed-line

	Risks and oppo	ortunities   Example 2	
Impacted value chain part	Primary potential financial impact	Time horizon	Impact magnitude
Direct operations	Increase in capital expenditures  Estimated financial implications of the risk before taking action: 90 €million	Long term  Average estimated time frame (in number of years) for financial implications of the risk: 200	Medium-high

Company- specific description

TIM offers fixed and mobile voice and data services, operating through a substantial number of sites, widely distributed throughout the country where switching centers, data centers and other ICT equipment are located. In addition, the network includes all connections, wired or overhead. Climate changes in recent years have brought extreme weather situations, such as intense rainfall phenomena (flash floods) and storms with strong winds (windstorms). The nationwide distribution of TIM's assets therefore exposes the company to possible direct and indirect damage from such events. As a non-exhaustive example, windstorms can affect air links, while floods have major impacts on buildings where our switching and data centers are housed. The geographical areas at risk are numerous and depend on the type of event: earthquakes are more likely in regions classified as having a higher seismic risk, such as Campania, Emilia Romagna, Abruzzo, and the Apennine area in general. Flash floods are more likely to have an impact, as happened in the northeastern area of the country, i.e., Veneto, Trentino Alto Adige, Friuli Venezia Giulia, Emilia Romagna, and Liquria.

# Explanation of financial impact

Analyses were conducted with the help of the TIMgis system linking the Hydrogeological Risk Maps of ISPRA (the public agency under the supervision of the Ministry of Ecological Transition) with the TIM geo-referenced databases of properties and the network, valued at reconstruction/replacement cost. The focus was on assets located in high-risk areas. In the assessment, the level of vulnerability was defined for both properties and the network with the goal of estimating the potential impact of a catastrophic event (e.g., a once-in-200-years event-0.5 percent of cases). IMF (International Monetary Fund) surveys show that in Italy, in the face of the 1.1° degree rise as measured by ISTAT, there has been an increase in the frequency of natural disasters. The most frequent are those related to Hydrogeological risk (44%) followed by storms with 23%, for a total of 67% of natural disasters that strike the Italian territory. From the correlation between risk exposure value, vulnerability of real estate assets and network, historical frequency of major damage events of the IMF, and temperature estimated for the coming years by NGFS (Network for Greening the Financial System), the possible increase in risk value to 2030 and 2050 was quantified with an algorithm.

## Risk response cost

Estimated costs of these actions: 15 €million

In order to cover the potential losses arising also from this type of event and, more specifically, to cover the losses caused by disasters, the TIM Group has implemented an appropriate All Risks Property insurance program. The premium rate the All-Risks insurance does not discriminate between the different causes of accident and the type of asset insured. Below is a summary case study for the risk in question. The main feature of telecommunications operators is that their assets are distributed throughout the country. In a context of rapid evolution of weather and physical events due to climate change, this widespread distribution also leads to increased exposure to damage related to extreme weather situations. With the aim of reducing as much as possible the exposure to these intense rainy phenomena and windstorms, TIM has carried out an in-depth analysis to estimate the potential direct losses related to these events, mapping the real estate assets and network infrastructures. All information is then input into specific simulation models to obtain the expected direct losses related to these events.

RISK



# Products and services | Development and/or expansion of low

	Risks and opport	unities   Example 3	
Impacted value chain part	Primary potential financial impact	Time horizon	Impact magnitude
Downstream	Increased revenue from increased demand for products and services.Quantitative estimate: 950,227,000 €.	Short term	High

### Company-specific description

The ICT sector can contribute to the fight against climate change by raising awareness of the opportunities arising from the digitization of services for citizens, businesses and public administrations, which act positively in terms of the emission impact on the physical movement of people and things. For example, TIM offers digital solutions that help customers reduce their energy consumption such as cloud, telemedicine, smartworking, smart industry and smart agriculture, smart metering and smart parking solutions that leavange 5g technology and IOT services to reduce energy consumption and resource use. TIM has also developed a line of products designed and manufactured with sustainability in mind, promoting circular trade-in models to reuse/recycle materials and reduce environmental impact.

### Explanation of financial impact

The financial impact shown refers to 2023 revenues from eligible activities according to the EU Taxonomy, i.e., economic activities explicitly included in the European Taxonomy because they contribute substantially to climate change mitigation or adaptation. TIM's revenues according to the EU Taxonomy: a) 8.1 data processing, hosting, and related activities: €702,106,000 (mitigation and adaptation);- b) 8.2 Data-driver solutions for GHG emission reduction: €27,754,000; c) 8.3 Programming and transmission activities: €220,417,000 (d which €216,669,000 eligible and €3,748,000 aligned). The sum of these products and services is 950,227,000 €. Information is published in the TIM Group's 2023 non-financial reporting document.

# Cost and strategy for realizing the opportunity

Estimated cost of realizing the opportunity: €173,286,000
Services are tailored to the specific needs of clients through a market analysis. Costs refer to operating expenses of eligible activities according to the European Taxonomy, i.e., economic activities explicitly included in the European Taxonomy because they contribute substantially to climate change mitigation or adaptation. TIM's Opex activities according to the EU Taxonomy 8.1 data processing, hosting and related activities is €173,286,000 (mitigation and adaptation). The information is made public in the TIM Group Sustainability Report 2023. Below is a summary case-study for the relevant opportunity. The ICT industry has a great opportunity to contribute to the fight against climate change by serving as an enabler for digitization/virtualization. With the new framework of the EU Taxonomy Regulation, TIM can also enhance this aspect of its business that contributes to climate change mitigation and adaptation. In this context, the key point for the company is to create business opportunities to increase revenues and offer low-carbon products/services. TIM has focused its efforts on, among other things, defining and launching a range of products/services that support customers in reducing their

TIM also adopts qualitative and quantitative scenario analyses with Group-wide coverage to make assessments with respect to its climate strategy. Specifically, two scenarios aligned with keeping the global temperature below 1.5° C were



considered in the analyses, among those proposed by NGFS (Network for Greening the Financial System)

- Transition Scenario | NGFS | 1,5°C: quantitative analysis against the Net zero target to 2040 focused on a) potential regulatory obligations aimed at offsetting non-reducible CO2 emissions, such as the introduction of the carbon tax; b) increased costs associated with the 'introduction of the carbon tax. In a time frame up to 2040, a linear estimate of the gradual reduction of CO2 emissions was made, and with time intervals of ten years, the possible failure to reach the target was also estimated with hypothetical deviations of 10%, 20%, 30% and the related potential economic impact.
- Physical climate scenario | based on the RCP 1.9 (1,5°C) and RCP 4.5 (2.1°C 3°C) scenarios: The Group has chosen a scenario analysis that can be effectively applied to its climate strategy in the coming years. The analysis of climate change risks is included in the Group's Risk Management (RM) framework, and climate-related risks that may affect the Company's assets (such as river floods and flash floods) and, more generally, the Group's business continuity were assessed. Specifically, the analysis focused on two relevant risks for the Company: hydrogeological risk and work performance risk. With respect to the hydrogeological risk (Net zero scenario by 2050), with the help of the TIMgis system, hydrogeological



risk maps produced by ISPRA (the public body under the supervision of the Ministry of Ecological Transition) and the TIM georeferenced databases of properties and the network valued at reconstruction/replacement cost were related. By correlating the frequency of the phenomena detected by the IMF with the temperatures recorded by ISTAT and with the help of the NGFS database, it was possible to define the increase in the risk value. In particular, from the correlation of the exposure value at risk, the vulnerability of the real estate assets and the cable network, the historical frequency of the IMF's relevant damage events and the temperature estimated for the coming years by the NGFS, it was possible to quantify through an algorithm the possible increase of the value at risk to 2030. With regard to the risk of work performance disruption, the analysis shows that physical labour productivity is significantly reduced by hot and humid weather conditions by 9.84% at global level. Thus, the impact on work performance in TIM varies with the increase in temperature. The impact that could occur on Tim's job performance ranges from a 0.8% drop with a risk value of EUR 16 Mln in the case of a 1.4° (best case scenario) increase to a 2.4% drop with a risk value of EUR 50 Mln in the case of a + 2° increase (worst case scenario).

TIM has assessed the most significant events related to weather changes in the ICT sector that could affect the conduct of its business activities, disrupting service business continuity and putting financial results at risk.

- Regarding the transition scenario and the introduction of a potential carbon tax during this decade, the impact on business strategy was immediate: an estimate was made of the annual cost of a carbon tax based on the total emissions produced by the Group in 2023, considering a unit price of 95 €/tC02. To avoid this average annual cost, TIM has revised its target of using 100% renewable electricity, bringing it forward to 2025 for the Italian operations; while for the Brazilian scope the target is substantially met.
- Regarding the physical risk scenario, TIM conducts a climate risk assessment to assess the
  potential damage to assets and monitor its evolution over time, downstream of mitigation
  actions. As part of crisis event management, to ensure that the Essential Communication
  Services continue to function for all stakeholders, drills are conducted to test their operation
  and simulate their handling of critical events and emergencies caused by natural disasters, civil
  defense events, computer failures, etc. Vulnerability assessment tests are also carried out
  periodically for risks associated with IT systems to verify the efficiency and effectiveness of
  implemented security countermeasures.

The above analyses result in corrective action plans, when necessary, while residual risks are covered by specific insurance plans.

Within the table below are represented the main areas of TIM Group strategy that are impacted or could be impacted by climate change risks and opportunities.



Impacted area	Description of the influence
Products , services and solutions	Climate change represents an opportunity for TIM to develop environmentally friendly products, services and solutions. In this direction, it contributes to the fight against climate change by promoting the closing of the country's digital divide with investments in ultra broadband connectivity, digital solutions for people, businesses and institutions that enable digitization such as cloud services, smart working, telemedicine, and smart agriculture, in particular, the adoption of cloud technology enables the storage and processing of data with flexibility, efficiency, speed, is one of the main leveral the digitization process, as well as a driver for the development of the economy (DESI 2020 Report - Digital Economy and Society Index - the Report on the Digital Transformation of flaty). In this context, 2021 saw the establishment of Noovle SpX, the TIM Group's cloud company that has given further impetus to growth and digital transformation in Italy, among the main partners of Google Cloud in the Italian market. Noovle aims to grow businesses and organizations by leveraging the full potential of digital, offering reliable secure and sustainable public, private, hybrid and edge computing solutions.
Supply chain and/or value chain	TIM does not produce products but collaborates with its suppliers in the development of products with the aim of directing purchasing choices towards increasingly efficient solutions in terms of performance and environmental impact. This is a joint effort of the requesting lines and the Procurement function, which adopt sustainability parameters at all stages of the purchasing process, for example by introducing a specific ESG parameters, thus contributing to monitoring the sustainability performance of the supply chain with a view to reducing its carbon footprint. The potential impact of climate change on the Group's supply chain is also the subject of specific audit activities that the Procurement function conducts annually on its suppliers as part of the Joint Audit Cooperation. The association founded in 2010, whose members include the world's leading ICT players, has in recent years audited 1,060 manufacturing plants of the most strategic suppliers in all areas of the world (150 in 2023), and is expected to increase the number of audited supplier plants in the coming years. The audit activities that the Procurement function implements towards its suppliers are followed by the necessary adaptation and mitigation activities.
Investment in research and development	Climate change represents an opportunity for TIM to develop environmentally friendly products, services and solutions. The research and development of innovative technologies and services, processes and business models, carried out by the Group's R&D department in collaboration with the Marketing function, is a key factor in helping to overcome socio-cultural barriers and develop increasingly advanced services that can help improve efficiency and reduce energy consumption and emissions for businesses, public administrations and citizens. Overall, TIM has committed about 1,450 people to technological innovation and engineering in Italy in 2023, for a total investment for the TIM Group of 1,016 million euros.
Operations	TiM's ESG Plan 24-26, integrated into the Business Plan, confirms the company's commitment to reducing emissions and containing energy consumption even as voice and data traffic volumes increase. In 2023, TiM continued to work to reduce emissions and contain energy consumption related to investments in next-generation networks and data centers, while increasing the use of energy from renewable sources. Analyses for new business models through external partnership agreements, in a non-capital-intensive logic, were initiated in 2021. In 2022, in addition to the reinstatement of 101 small-scale Photovoltaic plants in the country, the Group planned the activation of an additional 14 photovoltaic plants from June 2023. In 2021, TiM also signed one of the largest Corporate Power Purchase Agreements (PPA) with ERG to purchase energy from renewable sources of 3400Whityear (22-30) to which an additional 200 GWhityear (period 23-31) was added in 2023, confirming the great desire to contribute to the achievement of the national renewable development targets set by the National Energy and Climate Plan (NREAP) to 2030. TiM's energy efficiency interventions have also been recognized with the award of Energy Efficiency Titles, which attest to the achievement of energy savings in the end use of energy through virtuous energy-saving interventions. One Energy Efficiency Titles with a total value of 6.6 million through Decommissioning, Building Energy Management Systems (BEMS), Energy Performance Contracts (EPCs) and High Efficiency Cooperator (CAR) installation activities.

The impact of climate change risks and opportunities on the Group's financial planning was also assessed with respect to revenues, operating costs, capital expenditures, capital allocation, access to capital, and assets:

- Revenues: revenues refer to what is accounted for within the EU taxonomy disclosed by the Group and for 2023 are about 5.9 percent of total revenues. They basically consider cloud based services, eco-friendly products and vertical IOT solutions with a positive impact on emissions. Although this percentage can be classified as medium-low, it is considered strategic as it refers to the opportunity for "Development and/or expansion of low-emission goods and services.
- Operating costs: operating costs refer to energy purchased in the form of electricity and fuels. Total energy costs amount to about 7 percent of total purchases and are expected to increase year by year due to increased energy demand for grid development and services. However, all the energy efficiency initiatives implemented in Italy each year are offsetting potential increases in energy consumption and are even enabling some savings, thus reducing overall energy consumption and energy costs. Opportunity costs arising from products/services considered eligible in line with the EU Taxonomy relate to the opportunity "Development and/or expansion of low-emission goods and services" (12.7 percent in 2023). The impact on operating costs can be considered medium to low but is significant.
- <u>Capital Expenditure/Capital Allocation</u>: for TIM, energy efficiency projects, require the allocation of economic resources. The impact on capital expenditures can be considered medium to low, but it is significant.
- Access to capital: the efficiency of TIM's approach has been recognized with the awarding of Energy Efficiency Certificates. In 2023, TIM was awarded 26,807 Energy Efficiency Certificates with a total value of 6.6 million related to Decommissioning, Building Energy Management Systems (BEMS), Energy Performance Contracts (EPCs), and High Efficiency Cogenerator (CAR) implementation activities. The impact can be considered low but strategic. As investors increasingly look at companies' performance on climate change, we expect TIM's access to capital and its stock market value to benefit from recognition of all the actions put in place to reduce its carbon footprint and to support other sectors of the economy and governments to do the same.
- <u>Asset:</u> assets are defined as the infrastructure and equipment used to provide communication services to subscribers. The likelihood and impact of climate-related catastrophic events are

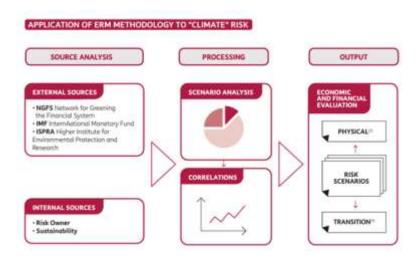


considered in our Enterprise Risk Management process, and funds are allocated for both adequate insurance coverage and network planning to ensure the possibility of recovering the economic value of assets and continuity of service, which is strategic for the company and our customers.

# 3) How the organization identifies, assesses and manages climate-related risks

- a) Organization's processes for identifying and assessing climate-related risks.
- b) The organization's processes for managing climate-related risks.
- c) Integration of climate-related risks and opportunities into current decision-making and strategy formulation.

To identify, assess, and manage risks and opportunities related to climate change in the short (0-3 years), medium (3-10 years), and long term (10-20 years), the TIM Group puts in place a climate risk management process on an interim basis (more than once a year) that is integrated into the broader corporate risk management process, providing full disclosure of the correlations between risks and opportunities related to climate change and the Group's entire value chain (direct operations, downstream value chain and upstream value chain), for proper formulation of business strategies.



Specifically, within the structure of the Chief Finance Officer, the Enterprise Risk Management (ERM) and Insurance function work with risk owners to identify and assess risks and are responsible for updating the risk register (the so-called Risk Universe). In addition, the function support risk owners in the selection of risk mitigation activities, ensuring constant monitoring of their implementation. Based on interviews with process owners on the objectives of the corporate business plan, risks are confirmed/modified/removed and assessed on 2 dimensions, impact and probability, and then allocated in a 3X3 matrix (Risk Heat Map). Possible reputational and criminal impacts are also considered. In addition, the Enterprise Risk Management function, in collaboration with the Sustainability function, has developed a methodology for assessing and monitoring ESG risks using a Key Risk approach.

For strategic risk, the assessment is carried out through a probabilistic framework supplemented by econometric models that measure risks not only at the individual factor level, but also from the perspective of the risk portfolio, considering the correlation between the risks themselves. The results are probability distributions over multiple scenarios to assess the worst case and its economic impact. In particular, within this framework, climate risks related to transient and physical scenarios are assessed by considering climate developments to account for potential business risks and opportunities.



The above process is used to determine which identified climate risks and opportunities could have a substantial financial or strategic impact for the organization in the short, medium and long term. The climate changes experienced in recent years have generated extreme weather situations, including intense rainfall events (flash floods) and storms with high winds. The nationwide distribution of our assets therefore exposes the company to possible direct and indirect damage from such events.

In order to assess the potential damage that the Assets could suffer and manage this risk, TIM uses a specific Risk Analysis tool. Desk analyses are also carried out through a specific tool that makes it possible to assess the risk profile of plants (risk ranking) and monitor their evolution over time. On the plants deemed most relevant/strategic and on those found to be most critical, on-site analyses are carried out in addition to desk assessments.

Probabilistic analyses were conducted to estimate the potential direct loss (damage to assets) from the occurrence of adverse weather phenomena such as flooding/flooding/windstorms. Specifically, this assessment estimates the potential impact of a catastrophic event, such as an event occurring every 200 years (0.5 percent of cases). The actions put in place, such as flood protection systems, appropriate relocation of facilities, and burying cables where possible, can limit the damage associated with the most frequent cases. Moreover, TIM ERM function carries on its risk assessment activities through the use of a simulation tool, named CLIMADA, that enables the Company to assess the economic risk associated with natural catastrophe risks such as Earthquakes, Floods, Landslides, Fires, and Extratropical Storms, using numerous input data.

# CLIMADA - (CLIMate ADAptation) tool

In the context of managing emerging risks, tools for risk assessment are crucial and enable companies to identify, quantify, and manage risks associated with natural catastrophic events, especially in an era of climate change. It is for this reason that in TIM it was decided to customize one of the most advanced and widely used tools for this purpose, named CLIMADA.

CLIMADA is an open-source model developed by the Swiss Competence Center for Climate Change Research and Disaster Prevention (C2SM) and the Center for Climate Risk and Resilience (OCCR). This tool allows for the calculation of the probability and potential impact of natural catastrophic events, providing a scientific basis for the assessment and management of climate-related risks.

TIM's decision to adopt CLIMADA aligns with the growing recognition of the importance of advanced risk assessment tools in today's climate-affected world. By leveraging CLIMADA, TIM aims to enhance its ability to calculate the probability of natural disasters, assess the potential impact, enhance adaptation and mitigation strategies and inform insurance decisions. TIM's integration of CLIMADA is a multi-faceted process involving several key steps:

- Data Collection/Analysis and Customization to TIM's Context
- Scenario Simulation;
- Strategic Planning and Insurance Optimization.

TIM's adoption of CLIMADA marks a significant step towards enhancing its risk management capabilities in the face of climate change. By leveraging advanced tools to calculate the probability and impact of natural disasters, TIM not only safeguards its assets but also optimizes its insurance coverage, ensuring long-term resilience and sustainability. By adopting CLIMADA, TIM stands to gain several significant benefits, such as enhanced resilience, cost optimization, informed decision-making and regulatory compliance.

In addition, to cover losses from catastrophes, the TIM Group has put in place an appropriate "All Risks Property" insurance program.

In 2021, an analysis was initiated to begin estimating possible indirect business interruption losses from natural catastrophic events with impacts on assets. The results of the Risk Management process are shared with the Risk Management Steering Committee, which aims to ensure the governance of the Group's Risk Management process through the validation and coordination of preventive action plans to contain the level of risk exposure within acceptable limits. The results of the Risk Management Steering Committee's activities are reported to the Audit and Risk Committee.

Within the following table are represented the types of risks considered in the company's climate risk assessment:



Typology	Relevance	Description
Current regulation	Relevant	The incorporation of European Directive 2014/95/EU into Italian national legislation has made the reporting of environmental impacts, particularly greenhouse gas emissions, mandatory. In addition to emissions and carbon intensity, a company must provide disclosure with respect to its strategy and on plans to contribute to national efforts to meet the Paris Agreement targets. Reporting must be complete and reliable and is subject to verification by the national public authority responsible for regulating Italy's financial markets.
Emerging regulation	Relevant	With a view to meeting the targets set by each country that has ratified the Paris Agreement, a carbon tax seems to be a realistic measure. Several European countries have already introduced a carbon tax and more are expected to join. Italy may also decide to introduce a carbon tax to pressure industry to reduce its use of fossil fuels. A carbon tax is also being considered in Brazil.  The evolving legislative scenario suggests to us that a carbon tax could be introduced in the EU within 5 years if the ETS fails.  Considering the post Covid trends, carbon tax prices are expected to reach 100 euro/tCO2 in perspective by 2030 (Bioomberg NEF). A conservative estimate could be 95 €/TCO2, resulting in a significant increase in the cost of fossil fuels and electricity, with an impact on TIM's operating costs. The Group manages risk by investing in energy efficiency projects that allow economic savings and a reduction in emissions, thus maintaining energy consumption at acceptable levels, while increasing the use of renewable energy sources.
Technology	Relevant	The new ICT technologies, when considering their entire life cycle, lead to increased energy consumption. However, the Digital With Purpose report developed by the Global e-Sustainability initiative estimates that the global ICT sector's "footprint" of greenhouse gas emissions will rise from 1.8% in 2017 to only 1.7% in 2030, remaining substantially stable. The much higher footprint in business-as-usual conditions is partially offset by a reduction in energy intensity in production and data centers and by clean energy growth rates. The spread of digital technology will generate a positive impact allowing the reduction of carbon dioxide emissions estimated at seven times the growth of the related footprint in the period between 2019 and 2030. For the TIM Group, therefore, the impact of ICT on climate change can be seen more as an opportunity than a risk, provided that the Group and the ICT sector in general continue to identify and implement energy efficient solutions for networks, infrastructure, products and services.
Legal	Not relevant	Changes in the climate also involve changes in regulatory and regulatory aspects. However, we do not believe that the negative impact on the climate of TIM's production activities could be so significant as to generate causes and disputes, also considering the fact that the Company continuously invests in energy efficiency measures to reduce energy consumption and emissions. Through the reporting of non-financial information, which the TIM Group has been carrying out for over 25 years, it also regularly fulfile legal obligations, paying particular attention to the emissions strategy.
Market	Relevant	The Group's strategic customers, such as households, businesses and institutions, are paying increasing attention to their energy consumption. This is why we are committed to providing them with energy efficient and cost-effective products, services and solutions. Although the ICT sector is expanding, the demand for services and products continues to be influenced by the cost factor. In addition, increasing environmental literacy makes consumers increasingly aware of the consequences of their purchasing choices, increasingly turning towards energy-efficient and low-carbon products and solutions.
Reputation	Relevant	Sustainability is an integral part of TIM's strategic planning. The fight against climate change is one of the main ESG intervention directions and is the basis of the Group's Environmental Policy. A bad reputation in this area can damage the trust of customers and investors, with significant consequences also for the business in terms of increasing the costs of acquiring new customers and retaining existing ones, reduction in operating margins. These considerations are supported by RepTrak's Global Trend Report (2020) that business leaders identify climate change as one of the top five priorities in which it impacts reputation. Additionally, always a global study of RepTrak (2019), argues that acting in response to environmental concerns contributes to significantly increasing a company's reputation by making consumers switch from a distrustful attitude to that of promoting the company's brand.
Acute physical	Relevant	Serious weather events, such as floods and hurricanes, are increasing in number and intensity in the territories in which TIM operates, therefore the operational continuity and vulnerability of assets assume a central role in the Company's Enterprise Risk Management process. On the other hand, periods of extreme drought could increase costs and even reduce the availability of hydropower, with consequent repercussions on TIM's activities, in Brazil. A specific analysis of hydrogeological risk was carried out, which allowed the estimation of the incremental value of risk exposure by 2050.
Chronic physical	Relevant	Average temperatures are rising and weather conditions require extensive use of cooling for offices and industrial infrastructure. As a result, electricity consumption is expected to gradually increase, leading to higher operating costs. Energy efficiency interventions are therefore guaranteed as part of the business plan with the allocation of a specific budget to ensure the right balance between investment and payback time. A specific analysis was also conducted on work performance risks, which show that labor productivity can be negatively impacted by an increase in temperature.

4) Metrics and targets for assessing and managing relevant climate-related risks and opportunities



- a) Metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.
- b) Greenhouse gas (GHG) emissions Scope 1, Scope 2, and, if appropriate, Scope 3, and associated risks.
- c) Targets used by the organization to manage climate-related risks and opportunities and performance against targets.

In line with what was disclosed as part of the 2023-2025 Strategic Plan, TIM has voluntarily set ambitious specific targets aimed at ensuring the Group's contribution to the transition to a low-carbon economy. Specifically, the TIM Group has adopted the following targets:

Net Zero<sup>1</sup> (Scope 1+2+3) by 2040;

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<sup>&</sup>lt;sup>1</sup> In the future, we intend to submit the Net Zero target for validation by SBTi. In this regard, we are aware that in order to achieve a 2040 net zero target according to the SBTi standard, offsetting residual carbon emissions in the long term is only possible for residual emissions that cannot be abated due to inherent business limitations. Specifically, this will include, in line with the standard, assessing the possibility of abating 95 percent



- Carbon Neutrality (Scope 1+2) by 2030;
- 75% reduction in emissions from the Company's production activity (Scope 1) and power purchase (Scope 2) by 2030 (baseline 2019) target validated in 2022 by SBTi;



- 47% reduction in Scope 3 emissions (categories 1, 2 and 11 2019 baseline) by 2030 target validated in 2022 by SBTi;
- Covering 100% of the Group's electricity needs through renewable sources by 2025.

Therefore, in order to assess progress against its objectives and targets, and in managing climate change risks and opportunities, the Group conducts continuous monitoring of the following indicators/metrics:

- amount of Scope 1 emissions generated by production (direct emissions);
- amount of Scope 2 emissions generated by the purchase of electricity;
- amount of Scope 3 emissions produced (categories 1, 2 and 11);
- organization's GHG emission intensity rate (carbon intensity);
- amount of electricity consumed from renewable sources out of total electricity consumed.

The effectiveness of the actions taken by the Group to manage the negative impacts and risks and opportunities related to climate change is demonstrated by the performance achieved in the 2023. In particular, with reference to the assumed environmental targets, the 2023 closures are reported:

- the reduction of about 58% vs 2019 of Scope 1+2 emissions generated in 2023 (SBTi target);
- Group-wide achievement of 72% of electricity from renewable sources in total electricity.

The effectiveness of the Group's environmental strategy is also demonstrated through the following performance:

- the 8% vs 2022 reduction in Scope 1 emissions generated by production;
- the 32% vs 2022 reduction in Scope 2 emissions generated from power purchase;
- the 33% vs 2022 reduction in BU Domestic's GHG emissions intensity (carbon intensity).

of Scope 1+2 emissions, offsetting the remaining 5 percent; and abating 90 percent of Scope 3 emissions, offsetting the remaining 10 percent.



The following is an overview regarding our annual emissions targets, all of which are targeted during 2023:

GHG Emissions	Closing 2023 (1 CO <sub>2</sub> eq)	Target 2023 (t CO <sub>J</sub> eg)
Scope 1	104,418	110,000
Scope 2	232,269*	270,000
Scope 3	1,928,756	2,200,000

<sup>\*</sup> Emissions are calculated using the market-based methodology.

Below is an overview of the Scope 1, Scope 2 and Scope 3 emissions generated by the TIM Group in the period 2021-2023:

TIM's Group emissions				
Туре	u.m.	2023	2022	2021
Scope 1 Emissions		104,418	112,989	127,810
Trigeneration		47,735	57,922	77,175
Transport		31,124	33,046	31,017
Ozone-depleting gases		13,061	10,499	9,688
Heating		9,081	7,945	8,522
Self-production of energy from mixed sources	tCO <sub>2</sub> e	3,370	3,578	1,408
Scope Z Emissions (market-based)	q	232,269	341,807	405,235
Scope 3 Emissions		1,928,756	4,606,523	5,270,033
Purchased goods and services (cat. 1)		1,304,139	862,780	912,842
Capital Goods (cat. 2)		548,330	3,338,948	3,914,964
Use of sold products (cat. 11)		76,287	404,795	442,227