## IMPACT REPORT

2023

For Financial Year 2022







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#forpeopleandtheplanet #investingfortomorrow #sustainableimpact #UNSDGs #inclusion

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## Building a professional impact ecosystem for the long term

The shift to impact is picking up momentum. Consumers are demanding products and services that are better for the environment and that actively seek to address the social challenges the world faces. As a result, they and the investment institutions they support - pension funds, insurers, and even public entities - are channelling more capital into impact investment. In 2022, the worldwide impact market reached \$1.16 trillion, exceeding \$1 trillion for the first time, according to the Global Impact Investing Network. This is good news for people and the planet.

Impact investing is founded on the intention to deliver positive environmental and societal benefits alongside a financial return. In 2022, we achieved B Corporation status, joining an elite group of some 6,500 companies worldwide that have a clear focus redefining the role of business to be a force for good. It is a globally recognised stamp of approval that lends even more credibility to our name and is a natural progression of our French Mission Company status, achieved in 2019. Proud as we are, B Corp recognition is not our final goal. Rather, our aim is investing to create infrastructure that makes a meaningful difference to people's lives and the planet we all inhabit. We are on the right track, but there is still more that we can and want to do.

Beyond labels and intention, impact needs a clear strategy and investment infrastructure to really hit its mark. Today, we are striving to further professionalise impact by aligning our investment ever

more closely with our Five Pillars<sup>1</sup> and the UN Sustainable Development Goals, and by creating impact tools, processes and methodologies. For instance, our impact measurement tool Simpl. provides a dashboard to monitor our performance on specific targets for each asset, and is backed by quantitative measures relating to each of the SDGs. Where



We have never considered an infrastructure project without thinking about what it can do for people. Our next step is to further professionalise impact investment, so it becomes even more sustainable for the long term.

**Thierry Déau**Founder and
CEO, Meridiam

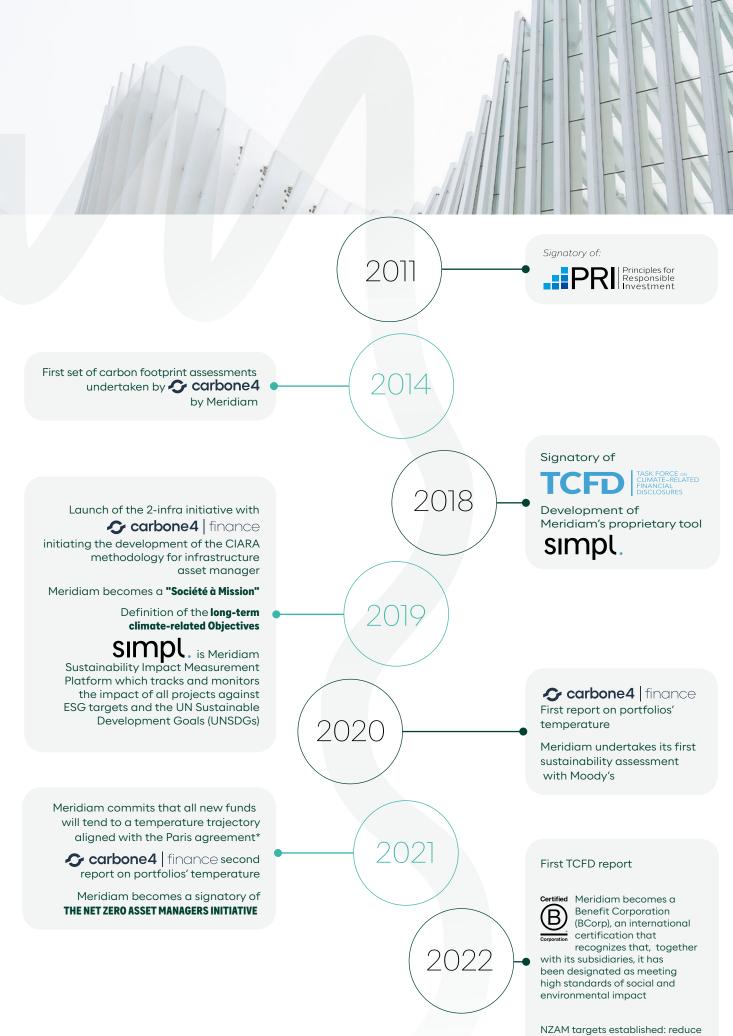
methodologies do not exist, we build them, such as the Ciara toolkit for taking the temperature of our assets, which was able to measure the alignment of our portfolio with the 2°C target enshrined in the Paris Agreement for the first time in 2022. As a forerunner for impact in infrastructure, our tools and methodologies can help others in the industry measure and improve their own performances.

This year's Impact Report outlines the ambitious targets we continue to set for our firm, including our commitment to become carbon neutral across all our assets by 2050 under our membership of the Net Zero Asset Managers Initiative. It not only shows how our strategy is evolving, but also the impact our investment is having – and will have – for example in tonnes of CO<sub>2</sub> avoided, jobs created, or opportunities for women and young people.

Real world impact requires significant investment. Throughout the course of 2022, we invested more than \$4 billion overall and more than \$1.5 billion in fibre projects that will drive digital equity for underserved and disadvantaged communities, breaking down social divides. New projects can limit their climate effects from Day 1, but we - like most in the infrastructure industry - own assets that can be made more sustainable. For that reason, we implemented action plans to do more and go beyond on climate action in particular, transforming our older portfolio and assets created from 2006 onwards and reducing their emissions.

**Impact is not a destination, it is a journey.** We have our guiding Mission and ambitious goals. These are matched by strong commitments, as well as by the tools and resources to really measure the impact we – and our infrastructure assets – are having on people and the planet.

scope 1 and 2 emissions per million invested by 50% by 2030





#### **+\$80** billion invested

since inception



**+\$20** billion of assets under management



+\$4 billion invested in 2022<sup>2</sup>



Portfolio<sup>3</sup>

#### **Revenues of**

\$6.5 billion (vs \$2.6 bn in 2021)

> & EBITDA of **\$2.3** billion

(vs \$1.6 bn in 2021)

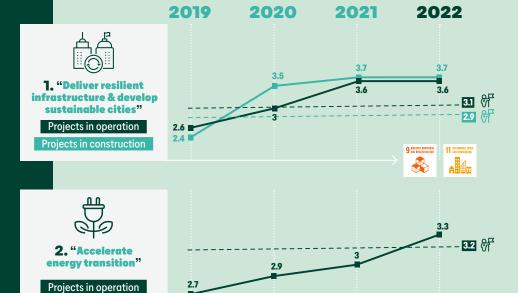
#### **Entreprise Value \$32.3** billion

(vs \$26.1 bn in 2021)

#### 3-year mission objectives (2019 – 2022)

Meridiam Mission Committee reviewed the 3-year mission objectives end of March 2023, and welcomed the achievement of the objectives on the selected SDGs.

Meridiam's overall governance score based on our sustainability assessment performed by Moody's improved, and reached 65 (versus an objective of 70), illustrating our strong commitments and concrete achievements on ESG and sustainability. The agency underlined that we display a strong capacity and willingness to integrate ESG factors into our strategy, operations, and risk management, with advanced results achieved on managing risks across operational efficiency, reputation, legal security and human capital.



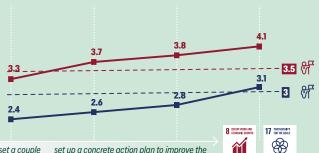


3. "Avoid & reduce emissions" For MIAF: tend towards carbon neutrality between induced emissions and avoided emissions

Other funds: tend towards maximum portfolio temperature of 2°C 13 CUMATE ACTION



4. "Promote good work conditions, inclusion. diversity & gender equality"





On SDG5 gender parity - a goal set a couple of years ago - Meridiam scored 59 in 2022, versus an objective of 63. This is in part caused by the slight decrease in the share of women employees in Meridiam from 35% to 33%, whereas 28 more women were hired last year, and also a consequence of the evolution of the benchmark for gender parity. The Mission Committee invites Meridiam to

set up a concrete action plan to improve the SDG5 score. The company is already a signatory of

the France Invest charter which aims to promote gender diversity and has already started to measure the performance of its assets in portfolio on this SDG5 through Simpl., its proprietary sustainability impact measurement platform.







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## **Meridiam** for people and the planet

## SUSTAINABLE DEVELOPMENT GENERALS



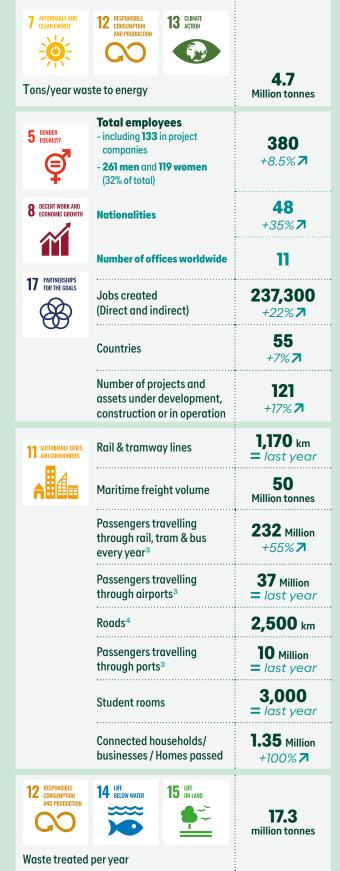






SDGs 5, 8, 9 and 17 apply to all categories below.

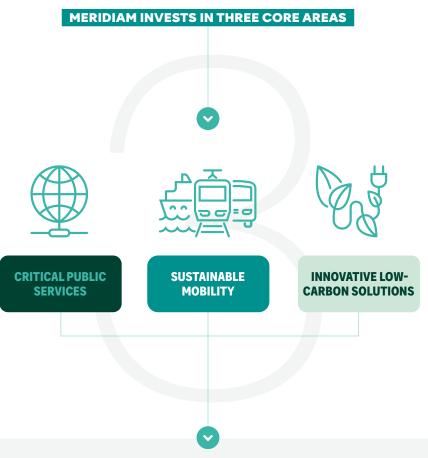
3 GOOD HEALTH AND WELL-BEING 11 SUSTAINABLE CITIES AND COMMUNITIES	Healthcare facilities	<b>57</b> +5% <b>⊅</b>	
		Hospital beds	<b>10,800</b> +23% <b>7</b> 1
4 QUALITY EDUCATION	11 SUSTAINABLE CITIES AND COMMUNITIES	Students <sup>1</sup>	23,000
6 CLEAN WATER AND SANITATION	People served with clean drinking water		<b>66</b> Million
7 AFFORDABLE AND CLEAN ENERGY	Production Capacity  EV Charging points		<b>657*</b> мw +9,4% <b>7</b>
13 CLIMATE ACTION			<b>40,000</b> +43% <b>7</b>
Carried electricity		<b>1.4</b> gw +100% <b>7</b>	
	Length of land and subsea cables		<b>725</b> km +100% <b>7</b>
	Deployed Smart devices <sup>2</sup>		<b>384</b> мw +75% <b>⊅</b>



- 1. Not including campus utilities assets
- 2. Electricity demand management
- 3. At full capacity
- 4. Transgabonaise perimeter adjusted

# Impact report 2023

## Projects Focus



Our goal, through our Mission, is to work with our investors and partners to deliver infrastructure that improves the quality of people's lives. We make this happen by aligning our Five Pillars with the **UN Sustainable Development Goals**. The result is infrastructure that has meaningful and measurable positive impact on people and the planet.





2. Accelerate energy transition



3. Avoid & reduce emissions













Resilient infrastructure and Sustainable Cities



Clean and affordable energy



**Climate** strategy



Decent work, inclusion, and gender









**Biodiversity** 











Critical Public Services



Resilient Infrastructure & Sustainable Cities

Avoid & Reduce Emissions Good Work Conditions, Inclusion, Diversity & Gender Equality



Improve digital connectivity, flexible access, highavailability and quality telecoms services for resident and businesses.

Accommodate home-working trends where needed, and reduce commuting requirements.



Modern and resilient digital infrastructure that can grow with cities.

Investment and partnership model allows for expansion into adjacent municipalities, and new infrastructure projects in other fields, such as vehicle charging.



Expanding access to opportunities in the modern economy for economically and socially disadvantaged people.

Access to affordable devices and digital skills to use them, as well as alignment with government subsidy programmes.



Enabling remote access to physical services, such as education and healthcare.

Reducing the brain drain away from smaller cities.



Reducing GHG emissions and lowering energy intensity for data transmission.

## High-Speed Fibre Connections for All

The pandemic accelerated the shift that was already under way to online consumption and services. In doing so, it highlighted the large and widening disparities in something that many consider to be ubiquitous – access to fast and reliable internet.

In fact, a staggering 2.9 billion people, or 37% of the world's population, have still never used the internet, according to the International Telecommunication Union, a UN agency¹. Many more have limited or second-rate digital access, which in developed countries like the US can mean that those in the poorest or most disadvantaged communities, or even in second-tier and regional cities, are penalised (see Business Case: Sustainable and Resilient Cities of Tomorrow, page 16). High-speed, high-quality internet connection is a critical public service because it enables so many other basic and essential services in our rapidly evolving world.

We started the roll-out of our fibre platform in 2020 in Germany, and have since agreed investments spanning Austria, Romania, the US and Canada. In the past year, we have invested over \$1.5 billion. What sets us apart is our commitment to underserved communities. We design our projects in collaboration with cities and municipalities to reach every possible resident regardless of their wealth; we commit to fund our projects up front and do not phase or stage our investment; and we hold and manage our investments for the long term. As of end-2022, our projects aimed to reach over 1.35 million homes and premises. But our obligation does not stop with connection. We are investing and collaborating on initiatives that will put affordable devices in people's hands, and arm them with the skills to use them.

#### » A Snapshot of our Projects and Their Impact



#### Montabaur, Germany Connecting 17,000 premises across 24 towns and

municipalities.

Liezen, Austria Reaching 50,000 households in 29 municipalities in rural areas.



Doubling
existing
coverage
from 30,000
to 60,000
premises in four
years.



Alberta,

Canada
Fibre to
the home
across 41,000
residences and
premises in the
Edmonton area.

## Indiana,

USA
Connecting
70,000 homes
and premises
in Bloomington,
Columbus &
Shelbyville near
Indianapolis.









Sustainable Mobility



Resilient Infrastructure & Sustainable Cities

Avoid & Reduce Emissions Good Work Conditions, Inclusion, Diversity & Gender Equality



1,000 direct jobs, with a focus on women and young people, and estimated 8,000 additional indirect jobs for Dakar.

Reduced transport costs with intermodal fare policy and social fares for eligible low-income people.



First all-electric bus service in Africa, serving city of 3.8 million.

Dedicated bus lanes, enabling express services alongside traditional commuter option.



Improved access for residents to shops, education facilities and healthcare.

300,000 people expected to use clean mode of transport, reducing air pollution and congestion.



59,000 tonnes of CO<sub>2</sub> avoided annually. <sup>5</sup>

100% electric business charged using renewable energy.



## A New Model for Transport in Africa – Bus Rapid Transit Dakar

Dakar, like many cities in Africa, is growing at exponential rates. Its population of 3.8 million today is expected to expand by 40% over the next decade². And, as the city grows and its inhabitants become more affluent, the number of vehicles on the road will increase, doubling within the next two decades. That pressure will result in increased congestion and  $CO_2$  emissions unless addressed by radical change to the transport network.

In 2022, Meridiam joined forces with Keolis and Fonsis on the **Bus Rapid Transit project in Dakar, the first**<sup>3</sup> **all-electric bus service of its kind in Africa.** The project will put 121 electric buses on 18.3km of dedicated bus lanes, linking the coastal town Guediawaye, north of the capital to the city centre, and cutting the average journey time in half to 45 minutes. When operational in 2023, the service is expected to carry 300,000 people a day, serving 13 municipalities on the route with 24 stations.

Not only will Bus Rapid Transit provide a sustainable travel solution to Dakar's transport challenge, it will also deliver multiple social benefits to the city's inhabitants<sup>4</sup>. The project will create approximately 1,000 direct and local jobs, a third of which will be drivers, with a particular focus on hiring women and young people. More broadly, the transport efficiency and improved access is expected to bring 8,000 additional jobs to Dakar, with reduced fares for eligible people with low incomes.





- 2. https://www.esi-africa.com/industry-sectors/future-energy/new-all-electric-buses-upgrade-for-dakar/
- 3. https://energieservices.fayat.com/fr/actualites/fareco-equipera-les-carrefours-feux-du-nouveau-brt-de-dakar
- 4. https://www.cetud.sn/index.php/projets/brt-dakar
- 5. https://www.financialafrik.com/2022/03/23/senegal-meridiam-et-fonsis-au-volant-du-premier-parc-brt-en-afrique/





Innovative low-carbon solutions



Accelerate Energy Transition Avoid & Reduce Emissions Good Work Conditions, Inclusion, Diversity & Gender Equality



1.4GW of electricity carrying capacity in either direction, improving collaboration on clean energy.

Increased competition and reduced prices for consumers in domestic power markets.



£1.7 billion of forecast UK consumer benefits.

Over £1.5 billion of major contracts awarded, creating jobs in construction and management of interconnector project.



Reliable high-voltage technology and low-impact substations will deliver greater resilience to British and German network.

Increased flexibility to deal with changing power demands of industry, businesses and consumers.



Significant progress towards Net Zero plans with increase in renewables in energy mix

13 million tonnes of CO<sub>2</sub> avoided over 25 years



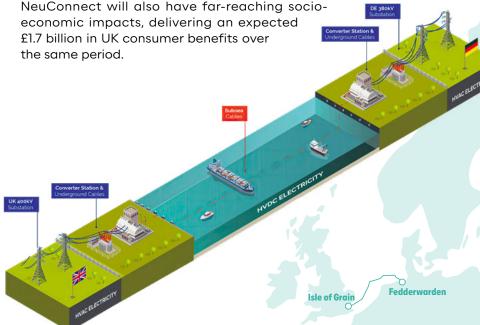
## Strengthening International Energy Cooperation – NeuConnect

War in Ukraine underscored the need for greater resilience and cooperation between energy markets in Europe.

That cooperation can lead to more efficient use of renewable energy resources, and so have a significant impact on reducing carbon emissions, while also reducing energy prices and driving financial benefits for businesses and consumers that flow through the economy.

Last year, we reached financial close on **NeuConnect**, the first subsea interconnector cable linking Germany and the UK, two of Europe's largest energy markets. At 725km, the cable will be one of the longest in the world and, when operational in 2028, will enable 1.4GW of electricity to flow in either direction. One of the core aims of the interconnector is to increase efficiency for Germany's offshore wind industry by permitting excess electricity generated to be supplied to the UK where it can increase competition and reduce costs in the power market. We expect that NeuConnect can supply the electricity need of over 1.5 million homes during its lifespan<sup>6</sup>. As power can flow in either direction, excess renewable electricity production in the UK can also be supplied to Germany, creating greater resilience in supply for the continental market.

The project will have a **sizeable impact on both country's climate goals** by increasing the use of renewables in the energy mix and reducing carbon emissions by 13 million tonnes over 25 years<sup>7</sup>.



- 6. https://www.ofgem.gov.uk/sites/default/files/2022-06/NeuConnect%20response%20Appendix%20B1%20to%20 NeuConnect%20FPA1656513741506.pdf
- 7. https://www.ofgem.gov.uk/sites/default/files/2022-06/NeuConnect%20response%20Appendix%20B1%20to%20NeuConnect%20FPA1656513741506.pdf



Transformation is often followed by consolidation. In 2022, we invested more than \$4 billion in many exciting new initiatives, while also building on progress with investment and initiatives to reinforce many of our existing infrastructure projects and platforms. Those efforts today will deliver even greater positive environmental and social impact tomorrow.

In a year when the world was shaken by the effects of war in Ukraine, which contributed to an energy supply shock, a sharp spike in inflation, and rapidly rising interest rates, we continued to focus on our core investment themes of innovative low-carbon solutions, sustainable mobility, and critical public services

The footprint of our fibre and digital platform expanded across North America and Europe to reach more underserved communities; we increased our investment in SUEZ Group to pursue and win contracts that will deliver higher standards in water and waste management; we backed innovative growth companies that will promote more responsible consumption and investment; we delivered transport infrastructure that can move millions of people daily with reduced environmental impact; and we became a B Corporation which recognises our sustainable business philosophy, our corporate mission and our long-term vision.

In this section, you can find a snapshot of **Meridiam's** highlights from 2022.

**A-Net, Canada**: Fibre connections to improve digital equity for over 40,000 homes and premises in the greater Edmonton region.



**Gaziantep City Hospital, Turkey**: Investment in our fifth hospital in Turkey in the city of Gaziantep, serving a population of two million with services including oncology, paediatric and psychiatric care.

Magenta Telekom Partnership, Austria: €1 billion-plus investment to roll out a fibre-to-the-home network to over 650,000 homes mainly in rural areas and medium-sized town in Austria.



**NetCity, Romania**: Financial close of a project that will double coverage of underground fibre connections in Bucharest within four years, improving quality and safety for city residents.





**LaGuardia Airport, US**: Opening of last two gates and taxiway at New York airport, one of the largest public-private partnerships in US history.

**Allego, Netherlands:** US-listing and capital raising to help finance expansion of Europe's leading public EV charging network, with over 40,000 charging ports across 12 countries.



**I-66 Express Lanes Outside the Beltway, US**: Opening of a 22.5-mile stretch of road and multi-modal transport on the I-66 highway serving 200,000 vehicles in Northern Virginia, outside Washington DC.



**Central 70, US**: Completion of construction of a 10-mile stretch of I-70 in Colorado, including new 4-acre park reconnecting the Elyria and Swansea neighbourhoods after almost six decades.



**Purple Line, US**: Financial close and construction of a 16.2-mile light railway line to take 17,000 cars off the road each day in the Washington DC area.<sup>1</sup>

**PisaMover, Italy**: Investment in electric-powered driverless trains linking Tuscany's largest airport to Pisa central rail station, also serving commuters in the area with low-emission transport.



Swiss Krono, France: Construction of a 64MW biomass plant at the wood materials manufacturer in the Loiret

**Popchef, France:** Lead investor in the impact-driven foodtech platform providing healthy meals and snack options for company workers, and fair payments for farmers.

**ESG Book, UK**: Co-lead investor in next generation ESG data platform, helping investors direct capital to more sustainable and higher impact assets.

<sup>&</sup>gt; Find out more details on https://www.meridiam.com/news/

<sup>1.</sup> Final Environmental Impact Statement: https://www.purplelinemd.com/about-the-project/studies/11-feis-document

<sup>2.</sup> Internal studies



# SUSTAINABLE GALS 2 mag and a control of the contro

## Supporting a New Purpose for SUEZ Group<sup>1</sup>

Following our acquisition of SUEZ, alongside Global Infrastructure Partners and Caisse des Dépôts Group, which we completed in January 2022, we supported the creation of an ambitious new sustainable roadmap for the company, spanning three pillars – climate, nature and social. Underpinning those pillars are 24 commitments<sup>2</sup>.

These include a target of 70% sustainable energy use globally rising to 100% in Europe – by 2030, bids for all new contracts to seek 10% water savings targets by 2027, and for the group's employee shareholding to rise to 10% by 2029. These commitments are already being reflected in some of the new contracts won by SUEZ, across the company's core areas of water and waste management services.

In early 2022, SUEZ started working on a seven-year contract with the **Bassin de Brive agglomeration in southern France.** The zone in the Corrèze department can experience summer droughts linked to climate change, making water conservation critical to the area's inhabitants, as well as its annual influx of tourists. The contract targets a 21% reduction in the quantity of water taken from the natural environment, with SUEZ's payments linked to an annual decrease in water volumes. Other measures include:

- Implementation of data collection (sensors) and data centre in order to manage & repair piping as early as possible.
- > Remote metre-reading systems for all inhabitants.
- Awareness raising, monitoring and sharing of consumption trends among residents.
- Inclusion of local SMEs in water and sanitation services, enabling creation and support for local employment.

In nearby **Montauban**, SUEZ is working on an innovative scheme focused on the reduction, rather than on the treatment, of waste volumes. The target is thus to reduce waste production by 10% in the town and its surrounding areas by 2028. The project includes:

- Communication & prevention campaign to encourage residents to adopt new behaviours to reduce waste.
- > New biowaste collection using low-impact bicycle collection in town centre.
- Data collection and monitoring to track and adjust waste management services.

# SUEZ's ESG strategy is matched by its ambition to grow internationally. Last year, the company won its largest ever contract in India, approximately €650 million agreement with the Municipal Corporation of Greater Mumbai to design, build and operate a wastewater treatment centre that will serve around 3.5 million people³. The 20-year project will include its own biogas-based production that will ensure that the plant is up to 75% energy self-sufficient. It will maintain the highest standards of sludge disposal adhering to US standards, and will include odour control systems which will be extremely vital as it is centrally located within the city. The facility will have one of the smallest footprints of SUEZ's wastewater treatment facilities in India.

In Africa, SUEZ's new waste water treatment contract with the Senegalese National Office for Sanitation will help clean up **Hann Bay in Dakar**<sup>4</sup>, improving conditions for 500,000 city residents and paving the way for the return of fishing and tourism to the severely polluted waters.

- 2. https://www.suez.com/en/news/press-releases/suez-unveils-new-sustainability-goals
- 3. https://www.suez.com/en/news/press-releases/suez-wins-the-largest-contract-in-its-history-in-india
- 4. https://www.suez.com/en/news/press-releases/in-senegal-suez-wins-the-contract-to-design-and-build-an-urban-and-industrial-wastewater-treatment-plant-hann-bay-dakar

 $<sup>\</sup>textbf{1.} \ \text{https://www.suez.com/fr/actualites/communiques-de-presse/plan-strategique-suez-double-investissements-conforter-position-acteur-reference-eau-dechets$ 



companies

Workers





Critical Public Services Sustainable Mobility Innovative low-carbon solutions



#### **Resilient Infrastructure & Sustainable Cities**

Accelerate Energy Transition **Avoid & Reduce Emissions** Good Work Conditions, Inclusion, Diversity & Gender Equality **Protect & Enhance Biodiversity** 



By 2050, almost 70% of the world's population will live in cities<sup>1</sup>. That means 2.5 billion more people living in urban environments within the next 30 years. At the same time, the pressure to combat climate change and reach net zero will require cities to change as they welcome new inhabitants. The result will be one of the greatest challenges for policymakers, city authorities, urban planners, infrastructure developers and investors, as well as one of the greatest opportunities for us all to reimagine the way we live.

The pace of urbanisation is very different around the globe. In developed countries across North America and Europe, 85% of the population already lives in cities. Indeed, many conurbations are today shrinking as their ageing populations move out. Emerging markets are earlier in their demographic shifts, with approximately 50% of people in China living in cities, while only 20% of Indians live in cities. The fastest pace of urbanisation will take place in Africa, however, with the continent's cities expected to be home to an additional 950 million people by 2050<sup>2</sup>.

Different urban locations also face different threats. Coastal cities in China, Latin America and Africa are among those most at risk from rising sea levels, while inland metropolises in Africa and India face significant threat from extreme heat and drought. Europe and North America are not immune to climate change, as many cities contend with more severe weather events, erosion and flooding.

There is no one-size-fits-all approach to creating a resilient and sustainable city of tomorrow. However, there are themes and trends that can be applied and adapted to all cities, enabling them to withstand climatic threats and other risks, while creating dynamic, inclusive and welcoming environments in which all people can thrive.

<sup>1.</sup> https://www.un.org/development/desa/en/news/population/2018-revision-of-world-urbanization-prospects.html"

<sup>2.</sup> https://www.oecd-ilibrary.org/development/africa-s-urbanisation-dynamics-2020\_b6bccb81-en#:~:text=Africa%20has%20the%20fastest%20urban,an%20additional%20 950%20million%20people.

#### TURF Resilience Objectives



Be inclusive of and responsive to the needs of poor and/or vulnerable urban communities.



Be resilient to long-term climate hazards and other sources of disruption.



Reduce climate change impacts on society through adaptation and/or mitigation components.



Produce social, environmental and/or economic benefits that extend beyond the direct objectives of the project.



Be conscious of the potential for unintended negative consequences and include scope/budget to mitigate those potential social and environmental impacts.

TURF's Resilience Objectives encapsulate the challenges facing cities in the 21st century, as well as the guiding principles for our investment. They reflect the values that Meridiam has held since its inception in 2005; our commitment to infrastructure that improves people's lives is unchanged. However, over the last 18 years many challenges to cities and communities - such as climate change - have accelerated, while new ones have emerged, such as digital inclusion and supply chain management. Addressing these, and more, is at the heart of sustainable and resilient cities of tomorrow.

#### Shaping Cities in the 21st Century

The ambition to create sustainable and resilient cities is enshrined in SDG 11.

The mission underpinning it is **to make cities inclusive, safe, resilient and sustainable**. In practical terms, the development of sustainable and resilient cities encompasses all the areas in which we invest, from critical public services to sustainable mobility and innovative low-carbon solutions. It also crosses all Meridiam's pillars – **Resilient Infrastructure & Sustainable Cities, Accelerate Energy Transition, Avoid & Reduce Emissions, Good Work Conditions, Inclusion, Diversity & Gender Equality and Protect & Enhance Biodiversity.** 

While many of our investments – from trams and airports to energy generation and schools – serve cities and make the lives of their inhabitants better, a holistic approach to infrastructure can address the multiple challenges and opportunities that cities face. In 2021, we launched The Urban Resilience Fund (TURF) in partnership with The Rockefeller Foundation and UNCDF specifically to help large and emerging cities alike in Europe and Africa to respond to urbanisation and protect against their increased vulnerability to climate change.

TURF works with city authorities from an early stage to identify challenges and define infrastructure solutions that can meet multiple issues. The aim is to work with and for cities to create environments that make a meaningful difference to people and environment around them, while paying close attention to the unintended and potentially negative effects that infrastructure development can cause.



development of cities if you want to provide the key services needed for a growing population. We want to deliver real social impact, not just infrastructure.

Emmanuelle Nasse-Brider, Executive Director, The Urban Resilience Fund (TURF), Meridiam



## Building Resilience to Climate Change

Cities cover only 2% of the world's landmass yet consume 78% of all energy and produce 60% of all carbon emissions, according to data from UN Habitat<sup>3</sup>.

They are not only huge contributors to climate change, but also highly susceptible to it. For instance, some 8% of Tanzania's Dar es Salaam is below sea level, putting 143,000 people at risk, according to global mayoral network C40 Cities<sup>4</sup>. In addition, informal settlements in the flood-prone areas cause additional public health risks when sewage and drainage systems overflow.

It is not only emerging markets that are counting the cost of climate change on their people and financially. 2022 was marked by record heat, wildfires and droughts in Europe. In the UK, heatwaves had a severe impact on the elderly and most vulnerable, with 2,800 people aged 65 and over estimated to have died during the period. Meanwhile, wildfires in France, Italy and Portugal destroyed 700,000 hectares of forest and other land, causing dramatic consequences for the regions' ecology and biodiversity<sup>5</sup>.

Through TURF and our regional investment funds, we are looking at ways to help urban centres prevent the potentially devastating effects of climate change. We are working with cities to identify the specific challenges they face, and devising solutions, such as flood and coastal defences that can protect and improve the lives of their inhabitants, while enabling those cities to continue to grow and be important drivers of economic development for countries and underdeveloped communities.

- $\textbf{3.} \ \text{https://www.un.org/en/climatechange/climate-solutions/cities-pollution"}$
- $\textbf{4.} \ https://www.c40.org/what-we-do/scaling-up-climate-action/adaptation-water/the-future-we-dont-want/sea-level-rise/$
- 5. https://www.nationalgeographic.com/environment/article/hurricane-sandy
- $\textbf{6.} \ https://transitec.net/fr/actualites/item/11161-launch-of-the-sustainable-urban-mobility-plan-of-nouakchott.html$



#### Coastal Defences – Nouakchott, Mauritania

The capital of Mauritania is today home to more than 1m inhabitants, a figure which is growing rapidly as the city expands<sup>6</sup>.

With much of the city at or close to sea level, Nouakchott faces the threat of flooding, exacerbated by the erosion of sand dunes due to a combination of natural forces, sand mining and livestock grazing on the fragile vegetation.

Through our existing relationship with Nouakchott as developer and operator of the city's port, we worked with the Mauritanian Ministry of Economic Affairs on priority urban infrastructure projects to build resilience against climate change and its repercussions.

By developing nature-based coastal protection, we aim to reduce the erosion and to strengthen the dunes' ability to safeguard the city from flooding risks. That development goes hand in hand with the construction of new pathways to the coast and areas for leisure that can create new activities for inhabitants, while making the city more comfortable for people during heatwaves. There will also be new planting and redirecting of waterways to improve vegetation and biodiversity.

The goal is a city that is more resilient to climate change, with critical infrastructure services that can also withstand extreme conditions, while providing a healthy environment for inhabitants and economic opportunities for the city to grow sustainability.

#### **OUR IMPACT\***

- Protect over 75,000 inhabitants in low-lying areas from risk of flooding.
- New 6.5km dyke/ring road to protect inhabitants to reduce coastal erosion and improve traffic circulation.
- Drainage solutions to counter the risk and effects of flooding in the city.
- 12km of dune rehabilitated and replanted, protecting local habitats and biodiversity.
- Relocation and upgrade of 6.7ha of land and buildings around city's fish market to reduce coastal erosion and reinforce economic activity.
- Construction of new commercial and recreational areas and links to sea to increase sustainable commerce, leisure and tourism.
- Direct jobs for local communities in construction and management phases, as well as indirect economic development in the city.

\* Meridiam ambition and internal figures



## Economic and Social Opportunities for Cities Through Digital Development

The advent of the digital age is fundamentally redefining the role of cities, as well as the essential needs of their inhabitants.

Today, high-speed, high-quality internet connection is a critical public service that has far-reaching benefits for individuals, as well as cities and communities. It is altering how people access work, as well as other services including education and healthcare (see Project Focus, Critical Public Services, page 9), and can have a significant impact on climate change.

In 2009, Sun Microsystems commissioned the "Open Work Energy Measurement Project" to analyse its employees' energy usage. The study found that commuting was responsible for 98% of all work-related environmental footprints. While over a decade old, much of data is consistent with today's energy use and standards.

Our focus is on bridging the digital divide that is driving a wedge between more affluent communities and lower income ones, particularly in developed markets in North America and Europe. Across the US, 42 million people are currently underserved for internet connection, according to the OpenVault Broadband Insights report<sup>8</sup>. Many are in smaller cities and regions, with whole swathes of the population lacking the services enjoyed by the majority. Analysis by McKinsey found that approximately 40% of Black American households did not have access to high-speed, fixed broadband

compared with 28% of White households, while in the south of country, 38% of Black households lacked broadband versus 23% of White homes.

Our objective is to bring high-speed fibre connections to underserved cities and communities to enable large numbers of people to fully participate in economic opportunities, while allowing smaller cities to compete with larger ones in their services to inhabitants. In Montabaur in the western part of Germany, the rollout of fibre broadband for some 17,000 households is permitting local inhabitants to work remotely for companies in nearby Frankfurt and Cologne. The result is encouraging more people to remain or move to the city, preventing the brain drain of talent to larger cities, and boosting the area's own economic life.

High-speed connections are only the building blocks for digital equity. In the US, we are working with local organisations to give people in low-income communities access to low-cost new and refurbished computers and devices, and helping with training on how to use them. We are working with Chattanooga's Enterprise Centre in Tennessee to replicate its "Tech Goes Home" that provides 15 hours of digital skills training and a device for as little as \$50, supported by low-cost subscriptions to internet services.

 $<sup>\</sup>textbf{8.} \ \text{https://www.zdnet.com/home-and-office/networking/we-need-more-broadband-internet-than-ever-with-covid-keeping-us-at-home/linear-li$ 

<sup>9.</sup> https://www.mckinsey.com/industries/public-and-social-sector/our-insights/closing-the-digital-divide-in-black-america

## 66

The pandemic made so tangible how critically important digital access is to many people...
We realised how fundamental it is in so many ways to have better access than we do, and more affordable access.

John Hamilton\*, 1ayor of Bloomington Indiana



#### Hoosier Network Fibre Project – Bloomington, Columbus and Shelbyville, Indiana

Situated 50 miles south of State capital Indianapolis, the cities of Bloomington, Columbus and Shelbyville are home to some 150,000 inhabitants combined.

The largest of the cities, Bloomington, is the seat of Indiana University, a leading public research university with over 40,000 students on campus. However, it is also an area that highlights the disparity in wealth and opportunity across the US. Estimates put the city's poverty rate at over 30% in 2021, over 160% higher than the State average<sup>10</sup>.

Further research in the city's own Digital Equity study in 2020<sup>11</sup> shows that **poor access to connectivity is one of the factors holding many city residents back.** Twice as many households on low incomes below \$25,000 had not internet at home, compared with those in the \$25,000-\$49,900 income range\*. Poor access further disadvantages the least privileged as lower income residents in particular reported lacking the skills and experience to recognise online threats, while a sizeable minority of parents and caregivers surveyed also felt poorly equipped to protect their children from online harm.

COVID exacerbated many of the digital challenges felt by the most vulnerable households in Bloomington and its neighbouring small cities. Children were less able to access remote learning, while elderly residents were at risk of being cut off from access to healthcare services that migrated online.

Our agreement with the city governing bodies in 2022 will see **more than \$90 million invested in fibre networks** that commit to reach 85% of premises, representing over 70,000 homes and businesses. Connections for residents across Bloomington, Columbus and Shelbyville will start in late 2023 with the final households expected to be online by early 2025. The project also foresees multiple plan choices tailored to households' needs and wallets. Eligible low-income residents will also be able to access subsidised support via the national Affordable Connectivity Plan that will enable them to benefit from fibre connection for free.

#### **OUR IMPACT**

- > 70,000 underserved Indiana homes and businesses to be connected to fibre.
- Total regional coverage to be 85% or higher.
- Affordable solutions for residents who qualify for federal support programmes.
- Programmatic approach to digital equity, literacy and community engagement.
- Part of global drive with \$1.5 billion invested by Meridiam in fibre for underserved communities in 2022.
- Over 1.35 million homes and premises currently targeted for fibre connection.
- 10. https://www.welfareinfo.org/poverty-rate/indiana/bloomington/
- 11. https://bloomington.in.gov/digital-equity
- https://bloomington.in.gov/sites/defeult/files/2022-05/City/x206/x208/comington/x208/gitts/x205/gitts/x205/actegic/x202/ac

#### Sustainable Logistics for Evolving Consumption Patterns

Technology has disrupted traditional consumption patterns with huge implications for the cities in which billions of people live.

Online retail spending, which was on an upward trajectory before the pandemic, jumped sharply in 2020, and is forecast to continue growing strongly. Data cited in Knight Frank's European Logistics Report 2022 showed that ecommerce spending across seven leading continental European markets including France, Germany and Italy, represented over 15% of total retail spend in 2021, with that figure expected to reach 19.3% in 2026<sup>12</sup>.

Increased penetration of ecommerce requires huge areas of land dedicated to logistics. Each additional billion of online spending requires 24,000 sq.m. of warehousing space to fulfil it. According to Knight Frank's analysis, an additional 3.5 million sq.m. of last-mile logistics will be needed in and around cities by 2026.

The demand is also leading to growth in emissions, as well as congestion, caused by delivery vehicles plying city streets. According to research from the World Economic Forum, both are on track to increase by over 30% in the top 100 cities globally by 2030 if there is no effective intervention<sup>13</sup>.

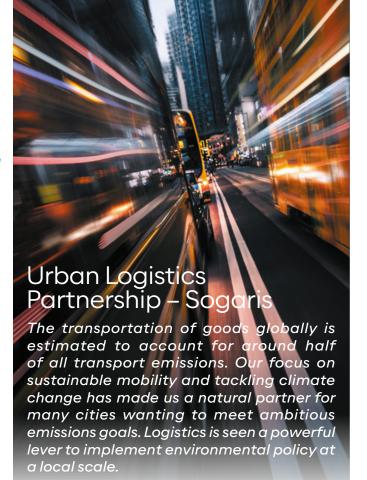
Our focus on efficient last-mile delivery will be key to more sustainable cities in the short and long term. While logistics has been a significant area of investment for large institutional investors and investment firms, many city administrations see the importance of maintaining control over their logistics infrastructure if they are to meet their climate change goals. Our approach is to work with public authorities to help them design and develop better warehouses that can be built as carbon neutral and autonomous in their energy consumption, while also supporting fleets of zero-emission vehicles that can deliver goods efficiently to consumers.

We are also looking at innovative solutions that can connect logistics networks between cities, taking vehicles off the road, reducing congestion and cutting emissions on a larger scale. We are the lead investor in "Cargo Sous Terrain" an ambitious project that aims to link Geneva to Zurich and beyond with underground tunnels carrying automated logistics vehicles to overground last-mile hubs. Work will start on the first phase in 2026 and could reduce logistics hub surface area by 600,000 sq.m. and take 367 million tonne kilometres off Swiss roads every year.

12. https://content.knightfrank.com/research/2542/documents/en/european-logistics-report-2022-europes-last-mile-9379.pdf

13. https://www.weforum.org/reports/the-future-of-the-last-mile-ecosystem

14. https://www.cst.ch/fr/quest-ce-que-cst/



Responding to this demand, Meridiam made a strategic investment in Sogaris, a publicly owned logistics enterprise primarily backed by the City of Paris and France's sovereign investment fund Caisse des Dépôts Sogaris is largest manager of delivery warehouses in Greater Paris with a portfolio of 13 assets covering 500,000 sq.m. across the region.

As the first private shareholder in the group, we are leveraging our infrastructure skills to develop further sustainable projects across France. The aim will be to help cities take control of their urban logistics networks and deliver benefits for their communities. We are building a pipeline of joint development projects that spans cities including Bordeaux, Lille, Lyon, Marseille and Montpellier.

#### **OUR IMPACT**

- Focus on strategic locations that will facilitate the shift to low-emission zones and transport.
- Highly efficient logistics buildings using renewable energy and clean mobility charging infrastructure.
- Incentives for tenants to move to green transportation fleet and reduce waste.
- 39,000 sq.m. of sustainable logistics space under development.
- Cargo Sous Terrain to avoid 45,000 tonnes of CO<sub>2</sub> emissions annually and to reduce inner city deliveries by 30%, improving air quality and reducing congestion.

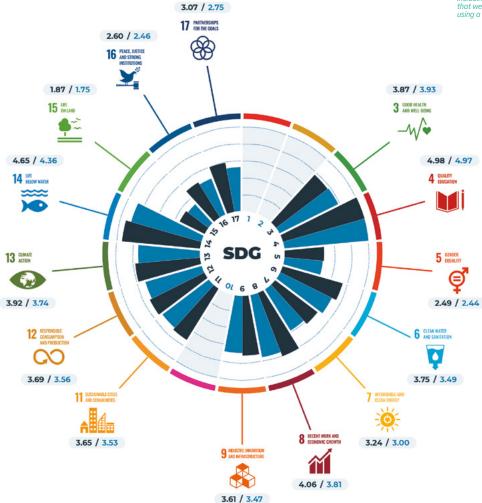


#### MERIDIAM Global results





\*Under a global 2°C scenario, including african funds that were intially calculated using a 1.7°C scenario



#### SDG 5

Across all projects, Meridiam fostered a stronger involvement in promoting gender diversity, namely by formalizing more internal commitments, in addition to providing more monitoring and auditing mechanisms. In fact, 89% of all assets have established structured internal measures to address gender equality.

#### **SDG 7 - 13**

Overall, renewable energies constituted a higher share in total energy consumption in 2022. Additionally, more efforts were deployed in improving energy management systems and furthering climate mitigation commitments, with 73% of all projects presenting a carbon emissions reduction internal policy and monitoring systems in place.



#### SDG 9

67% of all projects across our funds hold sustainability-related certifications, including ISO 9001, 14001, 45001, 50001, Leed Gold, BREEAM... while on track for obtaining more. For instance, Amman airport obtained the ACI 4+ accreditation (Transition level), a first in the Middle East. LaGuardia Terminal B was awarded world's best new terminal of 2023 by Skytrax, with a 5-Star Airport Terminal Rating.

#### **SDG 17**

48% of our assets engage in local community project investments.



#### MI Meridiam Infrastructure

## PORTFOLIO TEMPERATURE ASSESSMENT



#### DG 9

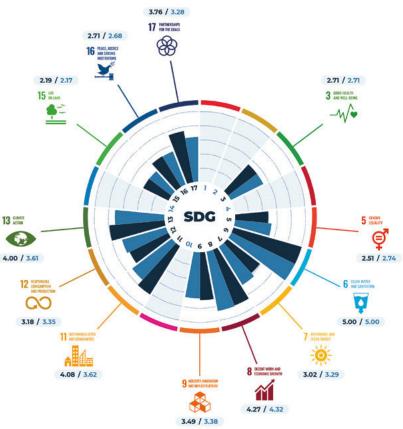
64% of assets in the portfolio have obtained a sustainability-related certification, including ISO 9001, 14001 and 45001 certifications. SDG 9 also increased due to improved traffic on the roads which also contributes to economic development of the regions.

#### **SDG 13**

Most projects furthered their emissions reduction commitments (Port of Miami Tunnel's LED lighting transition program, A5 Germany photovoltaics commissioning), while overall generating less scope 1 and 2 GHG emissions in 2022

LISEA spent €4.7 millions for environmental management (€2.7 millions for implementation and monitoring of compensatory measures, €1.3 million for environmental monitoring, and €0.7 million for the SEA natural fund, carbon footprint assessment, and land management). All of these actions contributed not only to reduce the carbon footprint of the asset but also generated positive impact on natural habitats (SDG 15), resources consumption (SDG 12) and overall governance





#### MIEII Meridiam Infrastructure Europe II

#### SDG 5

This SDG improved namely with an increase of assets implementing actions to address gender equality in leadership positions. For instance, hospital assets in Turkey underwent a "Genderless Jobs" study and created a platform and policies for hospitals and health campuses promoting diversity and inclusion. 62% of the fund's assets furthered a strong involvement in ensuring pay equality between genders (internal policy, monitoring systems and external audits).

#### SDG 9

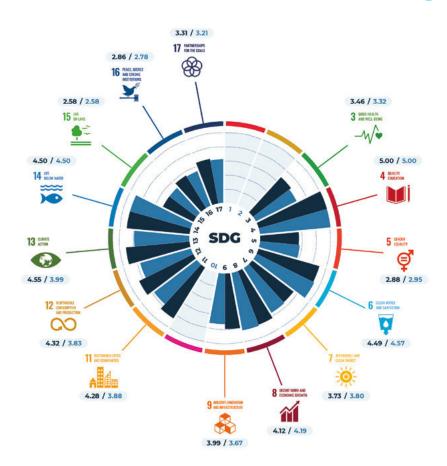
90% of assets in the portfolio have obtained a sustainability-related certification, including the Leed Gold certification, and Environmental Management System certified ISO 9001, 14001, 45001. Port of Calais is EcoPort ceritifed.

#### **SDG 12**

Stronger involvement in waste reduction initiatives and reporting of waste management in place (substantial increase of nearly twice the volume in share of waste sent to recycling).

#### **SDG 13**

71% of assets in the portfolio have an ambitious environment protection plan, including emissions treatment expenditures (€80k for E18 Phase II road in Finland). Overall reduction in scope 1 and 2 GHG emissions in 2022 namely for roads, port and hospital assets.



#### **MIEIII** Meridiam Infrastructure Europe III



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**TEMPERATURE** 

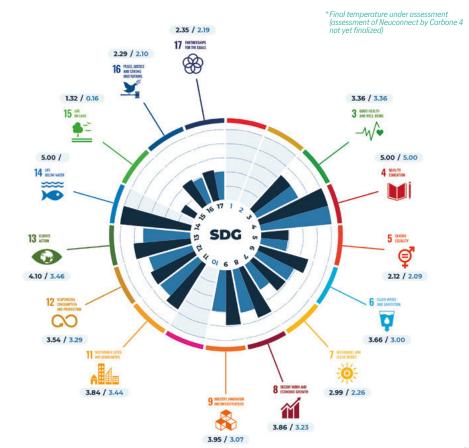
50% of the assets consume renewable energy in their total energy consumption. Welsh schools (WEP) implement on the schools' roof buildings PV panels which should cover the energy consumption of the entire buildings. The education facilities will be designed, built and operated to the best levels of sustainability and contributes to Wales Net Zero Carbon target. Currently, 64% of the assets implemented an internal policy and a monitoring system regarding emission reduction.

#### SDG 9

On average 65% of the assets are using recycled construction materials over the projects' total consumption materials. As an example, Carrefour EV charging stations recycled more than 1,200 m<sup>3</sup> of coated asphalt during the 2022 construction works.

#### **SDG 11 - 17**

A majority of the portfolio companies have implemented mechanisms to engage with the communities concerned by the projects. Namely, NeuConnect created a "Community Fund" to sponsor non-profit initiatives beneficial to the local communities. First project sponsored is the refurbishment of two communal houses in the villages of Sengwarden and Feddderwarden in Germany.



#### **MSIE IV Meridiam Sustainable Infrastructure Europe IV**

As for now, this fund includes 4 assets which all have a substantial contribution to SDG 7 and 13: the Pisamover project is a green, sustainable, fullelectric mobility solution that actively contributes to reducing CO<sub>2</sub> emissions; the fiber projects are more energy-efficient than previous communication technologies and result in carbon savings; and Swiss Krono biomass power plant directly participates to the energy transition of a major industrial complex.

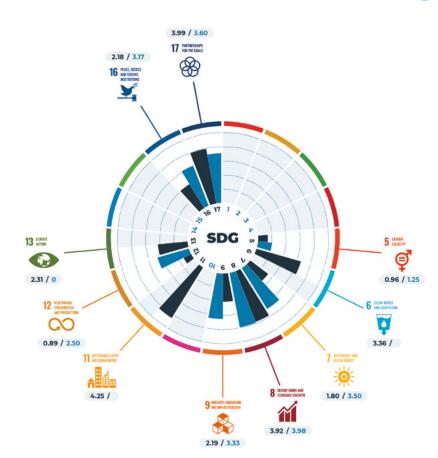
100% of assets report having the most robust level of suppliers, subcontractors and constructors' alignment with their ESG standards.

#### **SDG 11**

Pisamover is one of the first PPPs in the urban public transportation sector in Italy, and for a cable-based transportation asset. The ticketing system promotes the usage of this sustainable mobility transportation mode by offering a variety of solutions to users (e.g. discounts for park-and-ride facilities which contributes to limiting the number of cars in the center of Pisa).

#### **SDG 17**

A strong engagement process allow for all stakeholders to be involved in the decision-making process regarding the design and implementation of the projects.



## MINAII Meridiam Infrastructure North America II





\* Excluding Airport : 2.0°C

#### DG 7

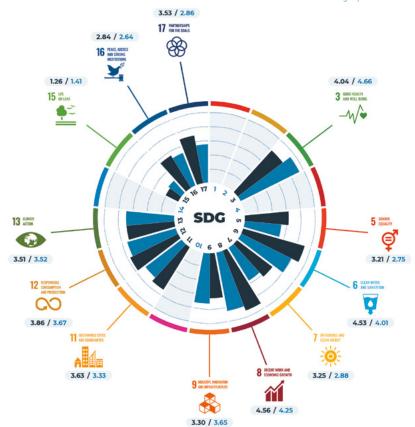
70% of assets in portfolio have obtained a sustainability-related certification, including the Leed Gold certification, and Environmental Management System certified ISO 14001. Presidio Parkway is, in addition, "Greenroads" certified. Further involvement regarding emission reduction and energy consumption in place includes: I-66 installed solar panels and implemented a re-use program for old concrete road surface, eliminating over 7 million tons of CO<sub>2</sub>; NEAH streetlights retrofitted to LED leading to a reduction of energy consumption of about 34%.

#### SDG 8

100% of assets increased involvement in health and safety measures and gender diversity actions. 77% of projects in portfolio contribute to the promotion of regional development and economic regeneration.

#### **SDG 17**

100% of assets in portfolio engage in local community projects with investments: CRCHUM project company contributes to charity actions through involvement in the CHUM fondations to provide medical equipment; La Guardia airport continued to sponsor the Queens Library Summer STEM program and ran its terminal-wide food donation program in support of City Harvest as well as supported numerous other local non-profits.



## MINAIII Meridiam Infrastructure North America III



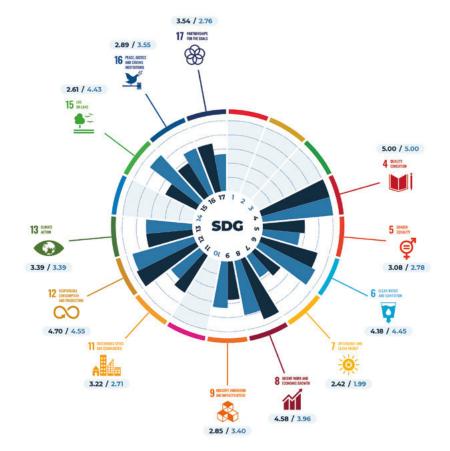
75% of the assets use renewable energy in their total final energy consumption. For instance, the University of lowa alone uses 92% of renewable energy. 100% of the assets implement an internal policy and a monitoring system regarding emission reduction. 166's energy providers are committed to increasing their percentage of renewable energy from wind, solar, hydropower/pump storage, and biomass power to reach the Net Zero emissions target by 2050.

#### SDG 8

All assets contribute to economic development and direct investment in the country. For example, the road I-66 spent more than \$400 million with local suppliers including disadvantaged, small and minority-owned businesses. Investment in the region also led to an average of 2000 workers on site daily.

#### **SDG 17**

The University of lowa's project works with the academic community and \$15M/year of funding for research projects and students, staff, faculty initiatives. Fresno university's project is providing annually two \$2,500 scholarships recognizing outstanding technical achievement and community outreach; this initiative will last over the 33-year concession period.







#### MT Meridiam Transition

#### SDG 7

In 2022, Evergaz and Agrimaine represent a total renewable energy capacity of 54 MW (cogeneration and injection). As of end of 2022, Voltalis had deployed smart devices in France to reduce demand by 384 MW at peak time, and Allego had rolled-out 40,000 EV Charging Points across Europe.

#### **SDG 12**

On average, portfolio companies reported recycling about 82% of their waste. For example, biogas platform Evergaz has implemented a stringent recycling program covering the systematic collection, recycling and reuse of oil, plastic and metals.

#### SDG 8 - 17

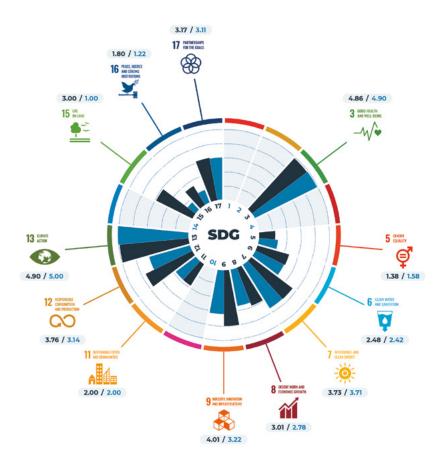
All biomass assets strongly contribute to the local communities' economic development. Evergaz assets' methanisation units use feedstock collected from local farmers and industries. Farmers receive in return digestates to fertilize their cultures. The plants hire only local people, subcontract to local companies as often as possible and source for the supply of raw materials at local farms providing additional revenue for local farmers that can create value from their waste.

#### **SDG 13**

The portfolio delivers a strong performance in terms of carbon emission intensity on a scope 2 basis. The fund's temperature was at 1.6°C based on Carbon 4's CIARA methodology based on the geographical, technical and socio-economic context.







## MIAF Meridiam Infrastructure Africa Fund

#### SDG 7

The Fund has 48% of its portfolio deployed on clean energy assets which significantly contribute to this Goal on their respective countries. In addition, Madagascar airports created an energy committee and mapped the airports' consumption as part of ACA1 certification, an internationally recognized airport carbon reduction standard.

#### SDG 8

All assets generate significant socio-economic benefits for the neighbouring communities which translates into a higher contribution of the Fund to this Goal. HR policies, namely on diversity, inclusion and social advantages have been further formalised and implemented across the portfolio. In 2022, 90% of projects had a formal HR policy and monitoring system vs. 66% in 2021.

#### SDG 9

Very strong contribution of all projects to this goal by providing essential services. 60% of assets have a sustainability-related certification, including Clean Development Mechanism and Gold Standard labeling as part of carbon credits certification, ISO 50001 and EDGE.

#### **SDG 15**

All projects having an impact on natural habitat protected and restored impacted areas (e.g., Kinguele offsetting at a ratio of over 800%). The share of projects having policies and monitoring systems in place for biodiversity and ecological habitat have reached 85% in 2022.

#### **SDG 17**

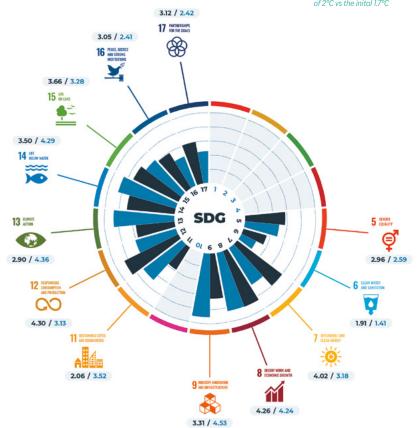
All assets have deployed a policy and a monitoring system as well as preventive and mitigation measures to address corruption and transparency risks.



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\* Under a rebased scenarion of 2°C vs the inital 1.7°C





automatically mean inclusion. It's not enough to hire women and people from minority groups, we need to empower those individuals, listen to their views, and learn from them.

Betty Mangatal,



Promote Good Work Conditions, Inclusion, Diversity and Gender Equality



As an investor, developer and manager of sustainable infrastructure across four continents, our projects touch and serve millions of people around the world.

Our aim is to improve the quality of their lives – providing critical public services such as education and healthcare, sustainable mobility including buses and trams that reduce cities' carbon footprints, and innovative low-carbon solutions such hydroelectric or power from biomass.

In a rapidly evolving world, the infrastructure we create must meet existing and emerging needs. The requirement for fast and efficient fibre connections means we are taking our services to less affluent and less well-served communities in the US, Africa and Europe. We are also finding new ways to contribute to health with investments at the nexus of infrastructure and technology, such as Popchef, a company that democratises access to affordable healthy food while creating better conditions for people in farming and food production.

Maximising our positive effect on people is at the heart of every project we undertake.

#### **GAZIANTEP CITY HOSPITAL**

Our fifth hospital investment in Turkey will be one of the largest and most important in the country. Located in the city of Gaziantep in southern central Turkey, the hospital will be a joint investment with Rönesans and Samsung. It will benefit from our experience from the development and management of existing hospitals in Adana, Bursa, Elazig and Yozgat. Expected to be completed in 2024, the hospital will target gold LEED certification, underlining our commitment to green standards, as well as a healthy and efficient environment for individuals.

- Seven separate facilities with a total of 1,875 beds, and capacity for 18,000 outpatients daily.
- Dedicated units for General, Intensive, Oncology, Paediatric and Psychiatric care.
- Serving a city with over 2 million inhabitants.
- Permanent employment for approximately 6,000 people.



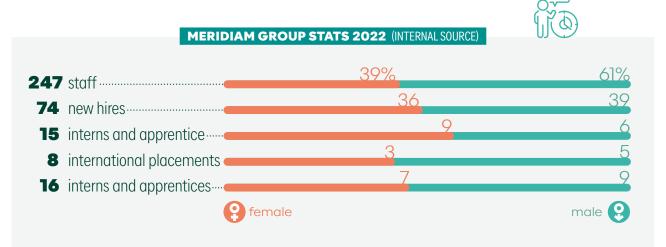
#### A Diverse, Inclusive and Nurturing Organisation

Creating projects that put real and lasting impact on people at their core, requires us to turn our focus on our own business and our own people.

We strive to create an environment that is open and inclusive, and which also gives opportunities to people from diverse backgrounds, supporting women and people from minority backgrounds to achieve their full potential and contribute to a better and stronger Meridiam.

We recognise that engineering, finance and the disciplines that characterise infrastructure investment have typically been dominated by men, so we are focusing on driving the participation of women at all levels across our business. We are actively recruiting female talents at Meridiam and in all project companies we are invested in.

Hiring often starts with measures that encourage more women into the industry. We create internships that enable us to identify female talents – as well as individuals from a broad array of backgrounds internationally – and give them the experience and skills that we, and other infrastructure investors and managers, need.



The Professional Equality Index has been designed as a simple and practical tool that enables companies to measure the pay gap between women and men and highlights the areas for improvement when these disparities are unjustified. Compliance and the publication of results is required under French law.

Companies with an overall score of less than 85/100 must set improvement targets and publish them on their website. Companies with a score below 75/100 must define adequate and relevant corrective measures, including a wage catch-up plan for female workers.

Meridiam score for **2022**....





#### **POPCHEF**

Meridiam was lead investor in French foodtech group Popchef's latest funding round in 2022. The company installs and operates connected refrigerators and counters in offices, providing healthy meals and snack choices to staff at reasonable prices. Popchef operates a zero-waste model with returnable containers and ensures that unsold food is redistributed to charities. The company counts Payfit and Blablacar, as well as Aldi, Vinci, l'Oréal among its customers.

- Democratises access to healthy eating and snacking options in the workplace.
- Encourages businesses and individuals to adopt sustainable practices.
- Brings staff from social integration programs into its teams every year.
- Sourcing aims to improve living conditions for farmers.

#### Reflections from the team



#### **Investment Associate, Paris**

I started as an intern in 2016 in Paris for one year and then in New York for six months in early 2018.

After joining Meridiam permanently, I wanted to meet and learn from different people and dig into the operational side of the projects, so I discussed with my manager the opportunity of moving abroad in 2022.

One of the main objectives of my mobility to Madrid was to participate in the refinancing of the Auvisa project, a 75km highway in the region of Castilla La Mancha. I learned a lot from Amparo, the CFO there, and gained practical experience from working on the refinancing itself.

This mobility was an enriching experience both professionally and personally, allowing me to see beyond the day-to-day activity of the Paris office, and following more closely the operational management of the assets. I would recommend all to participate in this kind of initiatives supported by Meridiam.



#### **Analyst, Paris**

I started as an intern analyst in 2018 in Paris before becoming a full-time analyst in the development team. In 2021, I was selected to take part in the internal mobility programme, moving to Amman in Jordan for six months.

My main mission was to support the regional director in the development of new investment opportunities in Jordan, something I continue to do from Paris today. From a professional standpoint, my mobility was an opportunity to discover different businesses projects and cultures, while building relationships with local and international partners. It has also been enriching from a personal perspective, as it allowed me to explore the Middle East.

I would encourage my colleagues to take part in the programme – it's an amazing experience and a great way to acquire new skills!





## Giving Diversity & Inclusion a Voice

Creating true diversity and inclusion means going beyond hiring more women and individuals from minority groups.

We need to create an organisation where all voices are encouraged to speak up and are heard. That benefits our business, our projects and the communities they serve.

In 2022, we began expanding our employee representative body throughout our international network of offices. This enables regional issues to be heard at a group level, bringing greater understanding and appreciation of cultural differences to our organisation. It is an example of how bottom-up initiatives are able to empower and benefit local staff and their communities.



#### Encouraging Health, Safety and Wellbeing

Health & safety regulation in France is broad and well-developed.

We have taken those rules and are using them as a template to extend best practice across our organisation. We take close care to identify and prevent risks to individuals at work, such as stress and burnout. And we go beyond regulation when it comes to supporting employees with children, or who may be caring for older family members. To achieve this, we are sensitive to the cultural differences that exist across the many regions in which we invest and operate.

The highest standards of protection of the individual are also applied to the projects we invest in. Not only do we set up procedures and protocols to protect the health & safety of workers at our infrastructure projects, but we also seek to minimise and manage risks to potentially vulnerable people in communities that they touch.

#### On The Road 2025

"Embody the Mission" is at the heart of our internal project and targets multiple objectives for the organisation.

We need all staff in our businesses and at our project companies clearly engages to understand what it really means to deliver sustainable infrastructure that improves the quality of people's lives. More than that, we want everybody to be aligned and working on achieving it.

On The Road 2025 clearly engages our leadership with the Mission and its pillars, encourages the development of team members in line with the

Mission, and fosters a collaborative spirit and collaborative approach.

We have created an internal social platform to enable all members of our team to communicate and share ideas openly and equally. The aim is to bring everyone from our international network of offices and projects together to forge the special links that will strengthen our organisation and our purpose.



#### KINGUELE AVAL HYDROPOWER PROJECT

When complete, the 35MW hydroelectric power project in Gabon will deliver some 13% of capital Libreville's power needs1.

The project has placed gender at the heart of its development, and has formalized the rejection of any form of discrimination or gender-based violence as a founding principle of its Code of Conduct.

The project company currently has 40% female staff, both in administrative and operational functions. The objective is to maintain or improve this ratio for the operation phase (by 2025). To achieve this, it plans to promote the technical roles to the local young female population, particularly at university level, in order to attract female talent to the new teams to be trained.

The project is also committed to the "Energy to Equal Africa" initiative led by the IFC which led to the:

- > Appointment of a woman as a director
- Implementation of a strong antiharassment policy for the operations phase.
- Study the living and working conditions on site during the operation phase to encourage the presence of women in the teams.

- Participation of a female leader (Compliance Officer) in the mentoring and training programme offered by IFC.
- Training managers to take gender into account.

As part of the construction phase, the project has devised and implemented a detailed action plan with the local NGO "Agir pour le Genre" to raise awareness about potential gender-related, health and safety, and diversity issues, based on:

- Training and education among workers, local inhabitants, healthcare professionals and security forces to improve quality of life in the community for men and women.
- A clear grievance mechanism to enable women victim of discrimination or even violence to make complaints with confidence.
- Sanctions for offenders carried out at a company level, and where necessary at a local judicial level.
- A victim-centered process that receives complaints and refers victims, if necessary, to our NGO partner for psychological and other support.



Education programme for women and men about gender-based violence in all its forms.

Empowerment and support for victims to report incidences of gender-based violence.



Prioritisation of local employment, giving greater economic power to local inhabitants, making them less likely to be subject to genderbased violence.





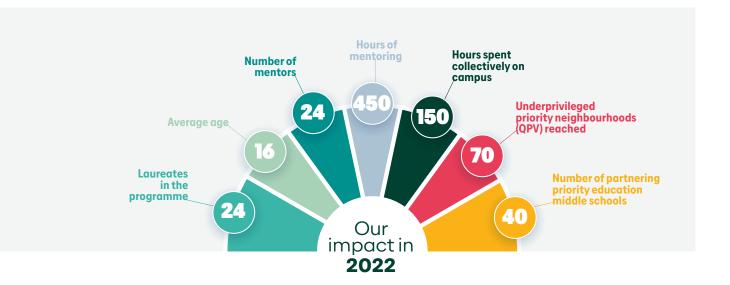
The Archery Foundation was established by Meridiam Founder and Chairman Thierry Déau in 2021 to help empower and guide young people from disadvantaged backgrounds.

The Foundation identifies and selects youngsters with not only great academic results, but also and more importantly – real drive and leadership qualities that can be nurtured. It then supports them until they finish their university studies. The goal is to help them unlock their potential and fulfil their dreams, enabling them to make a difference in their communities and throughout all society.

The Archery Foundation firmly believes that young people have enormous power and drive to affect great change. Already, young leaders are among

the most vocal on issues such as climate change, inequality, or the rise of intolerance around the world. Often, it is their energy and determination that shifts the focus of governments and companies onto topics of global importance. And that can lead to a better future for everybody.

Great young leaders come from all backgrounds. The Archery Foundation was created to help those from the most disadvantaged communities to find their voices and make them heard.



#### **Archery Foundation's Mission**

Archery looks beyond simply the brightest minds to identify young people with the strongest drive and passion.

The Foundation seeks out individuals who are not only performing well at school, but are also active in serving their communities. Their chosen paths may take them outside academia, so we search for young athletes whose ability is matched by their desire to share positive values. And we are looking for young artists, change leaders, or entrepreneur minded people who want to use their creative powers to inspire and elevate their communities.

We have already found many young talents – our Laureates – who embody these qualities, and aspire to great things. We are guiding a future entrepreneur who wants to create jobs in disadvantaged communities, a young artist who wants to use her medium to push for a more inclusive society, and a young scientist who hopes to contribute to the fight against cancer.



#### How Archery Foundation Works

Every year, Archery Foundation selects approximately 15 laureates to join our programme.

Our search for young talent takes us to 40 middle schools from Sarcelles, Saint-Denis, Paris 18° and northern district of Marseille. We also monitor local news from other disenfranchised areas to identify young talents from other parts of the country. In doing so, we seek to give opportunities to young people that can help them overcome unfair social constraints based on their background, race or gender. We want to give them the freedom to choose and pursue their own futures.

Our laureates are typically aged 14 to 15 years old when they enter the programme and the aim is to accompany them from the start of high school (lycée) all the way to their first permanent job. It is a significant commitment for Archery, as well as for the laureates, so we need to be sure they are equipped for the programme. We work with schools and local community bodies to identify the most suitable candidates and help them prepare for the journey.

Our first cohort joined in 2021 and completed their first year with Archery Foundation in 2022. Our second cohort joined last year and we are preparing to welcome our third intake this calendar year. Over the first three years of the programme, the individual track is coupled with a collective track that aims to raise awareness about social and environmental issues and empower them to act.



At the heart of Archery's focus on the individual is a mentoring programme that pairs a young person with a mentor who will work with them over a period of around three years. It is a handson, close collaboration with our group of mentors providing over 450 hours of support in the first year of the programme alone. Our mentors all are highly accomplished professionals with a deep sense of engagement.

Our collective work educates our laureates about the UN Sustainable Development Goals and gives them the tools to help tackle some of the biggest issues affecting society today. Our first cohort is currently devising a campaign to recruit young volunteers to the French Red Cross, benefitting their communities and helping drive progress towards the goals, including SDG 3 – Good Health & Wellbeing, and SDG 10 – Reduced Inequalities.

In addition to personal and collective growth opportunities, there is financial support to assist at school with extra tuition where needed, as well as day-to-day expenses such as travel and meals. As the programme develops, there are opportunities to explore further afield and learn English abroad.

The foundation will continue to work with its young people as they go through university and higher education, help them to secure internships, and support them until they reach their first permanent jobs. The result will be a commitment that will last for 10 years or more and create a large family of laureates all united by the ambition to make the most of themselves and change the world for the better.

#### **FROM OUR LAUREATES**

Laureates are not officers or employees of Meridiam SAS or its affiliates, or an investor in any investment vehicle managed by Meridiam. Laureates did not receive any cash or non-cash consideration from Meridiam for conducting this interview.



#### Leen

(15, Auxerre)

#### What's your ambition?

Short term, I'd like to win the French Chess Championship and have an exhibition for my paintings. Long-term, I'd like to become a chess Grand Master.

### How has the Archery Foundation helped you?

In the beginning, I was very timid and found it hard to express myself. The Archery Campuses have helped me improve in that respect, and learn many new things. The Foundation has helped a lot with my chess training and I feel myself progressing much faster.



#### lbrahim

(16, Marseille)

#### What's your ambition?

I would like to get into a prestigious school after my baccalaureate and continue to immerse myself in projects like the collective mission I and my fellow laureates are working on. I also want to improve myself culturally and intellectually – that's something that means a lot to me.

## Can you explain what Archery's support means to you?

It's intense, rich and dense – always given with kindness and trust. I really think I have matured since joining the Foundation as a result of the responsibilities we are given. And I think I have developed intellectually just as much as I have matured.



#### Éléana

(18, Marseille)

### What changes have you seen in yourself?

Since joining Archery, I've seen that I have broadened my professional understanding and been given many more opportunities to reach my goals. I have also widened my cultural knowledge and become better at expressing myself.

#### What does Archery Foundation mean to you?

Archery is the candle that is guiding me towards the light at the end of the tunnel!















Our approach to tackling climate change is becoming ever more robust year after year. We rigorously identify and mitigate risks, we implement sustainable initiatives and actions to preserve the environment and offset negative outcomes, and we have the tools to measure our concrete impact.

Ginette Borduas,
Partner and Head of ESG & Sustainability

Human-driven climate change continues to have enormous human consequences. Europe had its hottest summer on record in 2022, with extreme heatwaves believed to have contributed to over 20,000 excess deaths in Western Europe alone.

The climate issues affecting Europe and Americas are already causing even more extreme heat events in countries and regions less able to cope. The city of Jacobabad in central Pakistan is routinely recording summer temperatures so high that Amnesty International in 2021 declared the city "unliveable for humans". Climate change is without a doubt the most pressing issue affecting the world today, with huge repercussions on communities and cities, particularly in the developing world.

One of the major challenges facing countries, companies, investors and individuals is that addressing the steady rise in temperatures takes time. Even if we were to stop the release of greenhouse gases today, the earth's temperature would continue to rise. That is why it is essential to set ambitious targets and take action now.

#### Taking Action on Climate Change

2022 was a year in which we tightened our focus on our strategy and practical measures to address climate change. We enhanced our commitment to Net Zero with challenging but essential emissions targets across our entire business and all our assets, and we underlined our commitment to the Paris Agreement's temperature goals through new assessments of our Africa portfolio.

Good management requires good measurement. With this in mind, we are tracking the environmental and social impact of our investments in evergreater depth, and reporting our findings clearly and transparently to investors, regulators and stakeholders everywhere.

#### Meridiam's Commitment to Net 7ero

We are a proud member of the Net Zero Asset Managers Initiative a growing group of like-minded managers who jointly manage more than \$66 trillion of assets<sup>3</sup> around the world and who are all committed to becoming carbon neutral across their businesses.

In November 2022, we made our initial target disclosure on the path to Net Zero. Our commitment puts us on an ambitious path to manage 100% of our assets in line with Net Zero by 2050 or sooner. To meet that target, we are aiming for a 50% reduction in Scope 1 and 2 emissions across our portfolio by 2030. In real terms that means cutting our CO<sub>2</sub> emissions by over 20 tonnes per year per million euros invested. We are working on plans to integrate Scope 3 emissions targets in our assets by setting clear expectations for our partners and engaging with stakeholders.



- > 100% of AUM committed to be managed in line with Net Zero
- > **\$20bn** of AUM currently committed to Net Zero management
- > 43 tonnes of CO, e/year/M€ invested (current baseline)
- > 50% reduction in Scope 1 & 2 emissions by 2030

#### How Our Investments are Reducing Emissions



#### Swiss Krono

We won a 20-year contract to build, finance and operate a 64MW wood biomass power plant at the industrial production site of Swiss Krono, a leading manufacturer of quality wood products, including flooring and construction materials. The plant in Loiret, France, will run on bark, dust and wood chip left over by the manufacturing process and replace the existing, mainly gaspowered units.





35,000 tonnes of CO<sub>2</sub> avoided per year (700,000 tonnes over 20 vears)



13 CUMATE ACTION

reduction in energy needs

5% to 10%

Between 80% and 95% of gas consumed replaced by biomass

#### NeuConnect

At 725km, NeuConnect is set to be one of the longest interconnector networks in the world, linking two of Europe's largest energy markets - Germany and the UK. When complete in 2028, the €2.8bn project will create an invisible energy highway of subsea cables that will allow up to 1.4GW of electricity to flow in either direction, providing enough power for 1.5m homes over the project's 25-year lifespan.



520,000 tonnes



of CO<sub>2</sub> avoided per year (13m tonnes over 25 years)



#### Dakar BRT

Dakar Bus Rapid Transit is a new, clean public transport network in Senegal's capital that is entirely dedicated to 100% electric buses The project is the first of its kind in Africa4 and is expected to be operational in the summer of 2023. It offers an efficient alternative to the existing diesel bus network and a solution adapted to the challenge of climate change.



**59,000 tonnes** of



CO, avoided per year (885,000 tonnes over the 15 years of operation)



#### **Purple Line**

One of the first P3 rail projects in the US, the Purple Line is a 16.2-mile light rail line in Washington DC that will connect to commuter rail systems and local bus services, aiming to provide a reliable and fast alternative to vehicle travel. Due for completion in 2026, the Purple Line will provide a rapid, quiet, and environmentally friendly transportation. Powered with electricity, and emitting no particles, it is estimated to take 17,000 cars off the road daily, reducing fuel use by a projected 1m gallons annually.5





100% electric powered

road daily





**17,000** cars off the

3. As of November 2022

4. https://energieservices.fayat.com/fr/actualites/fareco-equipera-les-carrefours-feux-du-nouveau-brt-dedakar

#### Understanding Risks and Mitigating Climate Impact

Moving towards Net Zero requires us to understand all the ways in which climate-related risk can affect our infrastructure or the service we provide.

This enables us to seek ways to manage those risks, without creating negative impacts elsewhere. And it allows us to create products and structure investments that can deliver more positive benefits on the road to Net Zero.

Climate-related risks for our infrastructure projects fall into **three main categories:** 

- > Physical risks we have identified nine climate hazards, such as flooding or heatwaves, that are most likely to damage our infrastructure assets
- > Transition risks there are ten transition risks associated with societal and economic shifts toward a low-carbon and more climate-conscious future, spanning areas including policy, market movements, reputation and technology
- > Financial risks these can either be acute stemming from temporary disruption, or chronic in relation to gradual climate shifts that steadily erode asset performance over time.

Here's a simple example of the climate-related physical risks for railways.

#### How may physical risks impact rail infrastructure

#### >> Train tracks

More frequent and intense heat waves may damage train tracks, resulting in the need for replacement and disruption to services.

#### Electric outages

Intense heat may also cause electrical outages and cooling system malfunctions, not to mention worse conditions for outdoor workers. We use over 45 ESG conditions and criteria to create a detailed risk assessment that rates each and every asset we consider. Along with a detailed list of excluded activities, these ESG criteria allow us to reject possible investments at an early stage that do not have the potential to meet our climate objectives, while creating detailed climate risk management plans for those that do.

When we invest, we actively seek ways to enhance our positive impacts in relation to climate change. And we continue to assess our projects and throughout the development and operating phases and our ownership to ensure that we continue to keep on top of all climate-related risks.



#### » Drainage requirement

An increase in average and seasonal rainfall may lead to increased drainage requirements to prevent soil erosion and protect rail tracks.

#### Shrinkage of clays

Increased intensity and frequency of droughts and rainfall may lead to the shrinkage and swelling of clay subsoils, weakening support for the rails.

#### Turning Down the Temperature in Africa

MIAF portfolio Temperature: 1.8°C\*

**Ambition:** tend towards carbon neutrality between induced emissions and avoided emissions

Understanding our impact on the environment is a time-consuming task. Where data is not readily available, we need to create the toolkit to capture and analyse it. As a founding member of the Carbone 4 2-Infra challenge, we have been a partner in developing a dynamic methodology to enable infrastructure managers to measure their assets against the  $2^{\circ}\text{C}$  warming trajectory set in the Paris Agreement.

That cooperation has provided a methodology that spans 42 countries, principally across the EU and Mediterranean rim, as well as the US and Canada.

We have helped take these efforts a step further, devising and testing a methodology that can work for infrastructure assets across the African continent. This has given us the possibility of measuring the temperature impact of our African investments individually, and our fund as a whole. Armed with this knowledge, we are better able to target and define the climate strategies for our new investments. And we have greater understanding with which to improve the temperature performance of our existing infrastructure projects.

## Seizing Opportunities in Climate-Conscious Infrastructure

As a Benefit Corporation and global asset manager, we are driven by the aim of giving our investors and partners opportunities to invest in sustainable infrastructure.

This objective goes hand in hand with our commitment to deliver positive impact for people and the planet. Since our inception, responsible investment has been at the heart of our priorities and our strategic positioning, and an essential part of the management of all our funds and projects. We ensure that all our investments achieve the highest environmental, social and governance (ESG) objectives, and that alongside each project we implement clear impactful solutions, initiatives and actions.

As a result of our deep understanding and commitment, we launched our first dedicated, thematic fund in 2014 - the Meridiam Transition fund – to tackle climate change and address investment opportunities emerging due to ongoing physical and policy transition. Among its investments are projects dedicated to energy efficiency, local energy supply, smart grids and innovative renewable energies.

In 2019, we were one of the first French companies to become French Benefit Corporation, reaffirming our commitment to balancing profit with achieving positive impact. And in 2022, we joined an elite group of some 6,000 businesses worldwide that have achieved the internationally recognised Certified B Corporation<sup>TM</sup> ("B Corp") status by meeting the highest standards of social and environmental impact.

Our funds represent the values we hold and goals we target. In 2021, we successfully raised over €5 billion across five new funds, all of them:

- fully aligned with the firm's sustainability objectives and targeting a temperature trajectory in line with the Paris agreement,
- qualifying as Article 9 under the new EU Sustainable Finance Disclosure Regulation (SFDR), the highest sustainable classification in Europe and comprising sustainable goals as their objective.

Of these five funds, two were also thematic funds targeting sectors and assets adapted to modern challenges and climate scenarios well beyond Meridiam's investment time horizon.

- The Green Impact Growth Fund (GIGF), which targets Greentech SMEs working in renewable energy, circular economy, energy efficiency, smart city, and energy storage.
- > The Urban Resilient Fund (TURF) launched in partnership with the Rockefeller Foundation and the United Nations Capital Development Fund (UNCDF) to support cities in delivering critical resilient infrastructure projects across Europe and Africa.

Today, we continue to seek opportunities in innovative infrastructure targeting the renewable energy space, as well as new technologies that promote greater efficiency and which can lead to reduced CO<sub>2</sub> emissions.







Climate-related concerns are critical for infrastructure. Therefore, we integrate climate change issues from the beginning and at the core of our investment decisions and overall strategy.

Ginette Borduas, Partner and Head of ESG & Sustainability



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