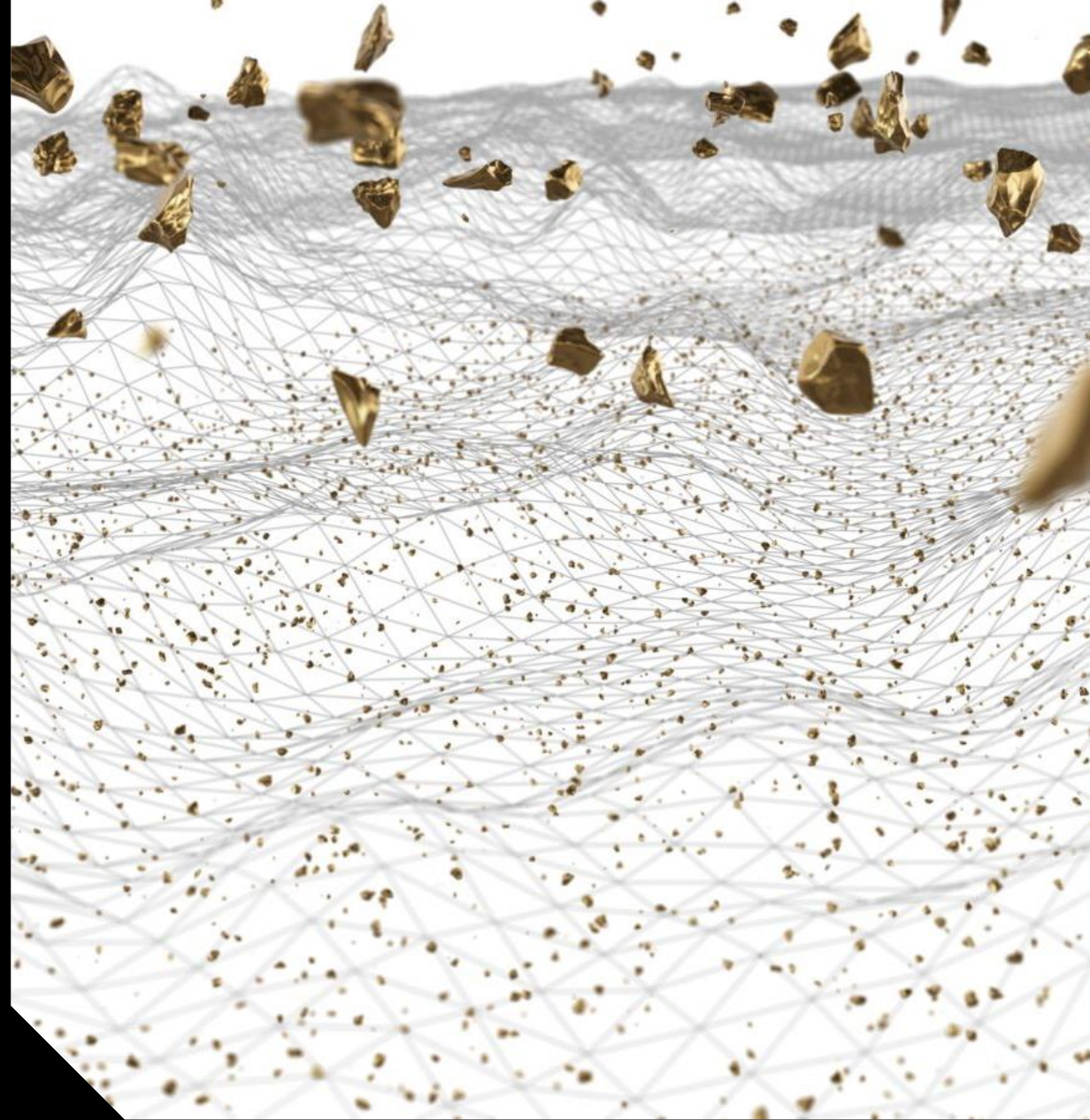


Metso:Outotec

Metso Outotec sustainability

December 9, 2021

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Metso Outotec – Enabling sustainable modern life

MEGATRENDS

Urbanization
Electrification
Sustainability
Resource scarcity

VISION

To be customers' number one choice for sustainable use of Earth's natural resources. Together we deliver service, reliability, innovation and results – safely.

TOP PRIORITIES

Financial performance
Customer success
Sustainability
Performance culture

BRAND PROMISE

We are the partner for positive change



AGGREGATES | MINERALS | METALS | SERVICES | CONSUMABLES

VALUES



High ambition
– always



Customer in
center



Getting it done
– together



Open and
honest

Metso Outotec key facts

Vision: To be customers' number one choice for sustainable use of Earth's natural resources. Together we deliver service, reliability, innovation and results – safely.

Purpose: Enabling sustainable modern life



3,9
billion euro
sales in
2020



15,400+
employees



100
million euro
to R&D
annually



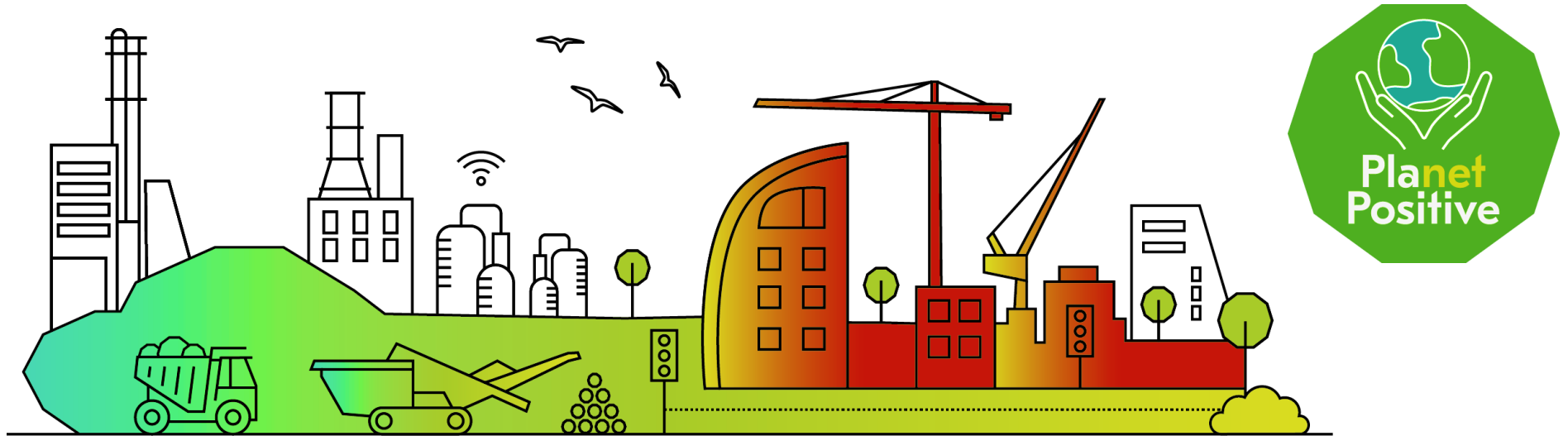
30
Locations with R&D,
testing or laboratory
capabilities



100%
R&D to have
sustainability
targets

Enabling customers to reach their sustainability targets

Planet Positive product for every part of the value chain



All R&D with sustainability targets

Accelerating Planet Positive sales

Partnering with suppliers to decarbonize the supply chain


Own operations CO₂ net zero by 2030

Uncompromised safety

Our sustainability focus is on climate change

We need to accelerate our sustainability efforts

- Sustainability is a strategic priority
- Climate change is one of the biggest global challenges
 - IPCC report published late August 2021
 - Very limited window of opportunity to achieve 1,5°C outcome

An aerial photograph of a dense city skyline, likely New York City, during the golden hour of sunset. The buildings are illuminated with warm orange and yellow light. A large black octagonal callout box is overlaid on the right side of the image, containing white text.

**Metso Outotec
has significant
role in addressing
climate change**

Demands set by global agreements and initiatives increase, long-term carbon neutrality targets stated

Carbon neutrality pledges cover 48% of global CO₂ emissions

The Paris Agreement

- Global temperature rise this century below 2°C, strive for 1.5°C
- Reduce emissions by 50% by 2030 vs. 1990

EU climate law (proposal):

- Greenhouse gas emissions at least - 55% by 2030 vs. 1990 peak
- Net zero greenhouse gas emissions by 2050

US

- Emissions -52% by 2030 from 2005
- 100% carbon free electricity by 2035
- Climate neutral by 2050

China

- Peak emissions by 2030
- Carbon neutrality before 2060

Example initiatives to enforce sustainability

- **EU taxonomy for sustainable activities:** classification system of environmentally sustainable economic activities.
- **TCFD:** the Task Force on Climate-related Financial Disclosures.
- **London Metal Exchange:** announcement of the launch of new responsible sourcing requirements for all brands listed on the exchange in Oct 2020. Producers must be fully compliant by 2023.
- **EU Conflict Mineral Regulation:** responsible sourcing practices (Jan 2021). Conflict minerals are tin, tantalum, tungsten and gold – no matter where they originate.
- **Carbon border adjustment mechanism CBAM:** imported goods to EU may have price increase of 1.6% by 2030.
- **Global tailings management standard** in Aug 2020.
- **Copper Mark:** assurance framework to demonstrate the copper industry's responsible production practices.

90% of GDP now covered by some net zero commitment

Major transformation in our customer industries

- Demand for metals increases
 - Especially clean energy materials e.g. copper, nickel, lithium
- Transition towards low-carbon operations
- Electrification and interruptible power
- Increased risks in the natural and social environment
- Increased focus on environmental demands from societies, regulators and investors



**Significant
technology
innovation
needed**

Sustainability is a
business opportunity
and a strong purpose
driver impacting our
brand and reputation

We are an enabler for net zero and decarbonization

Biggest impact is through our customers with technology and innovation



Aggregates

- Energy efficiency
- Electrification



Minerals processing

- Energy efficiency
- Water
- Circularity



Metals refining

- Energy efficiency
- Water
- Circularity

Planet Positive portfolio is a competitive advantage

We aim to have a Planet Positive product for every part of the value chain

- The biggest environmental impact comes from our handprint - **when our customers use our sustainable solutions and innovations.**
- Sustainable products and services
 - demonstrably better than the market standard
 - help our customers achieve their sustainability goals
- 100% commitment to sustainable R&D with innovations
- Growing part of our overall sales in the future



Energy efficiency
and emissions



Water
efficiency



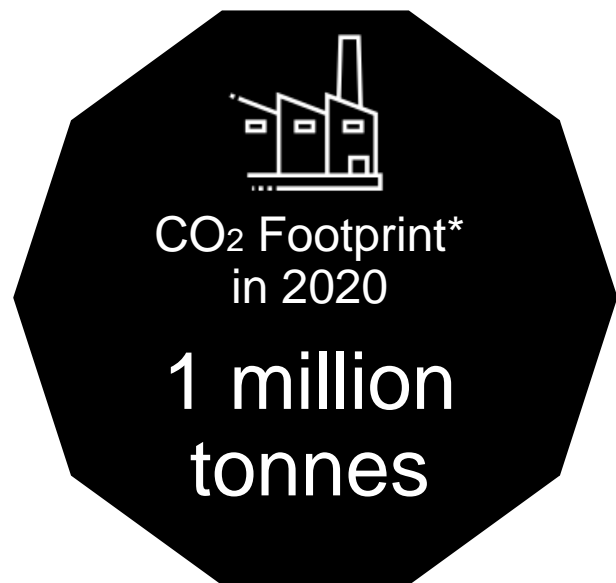
Circularity



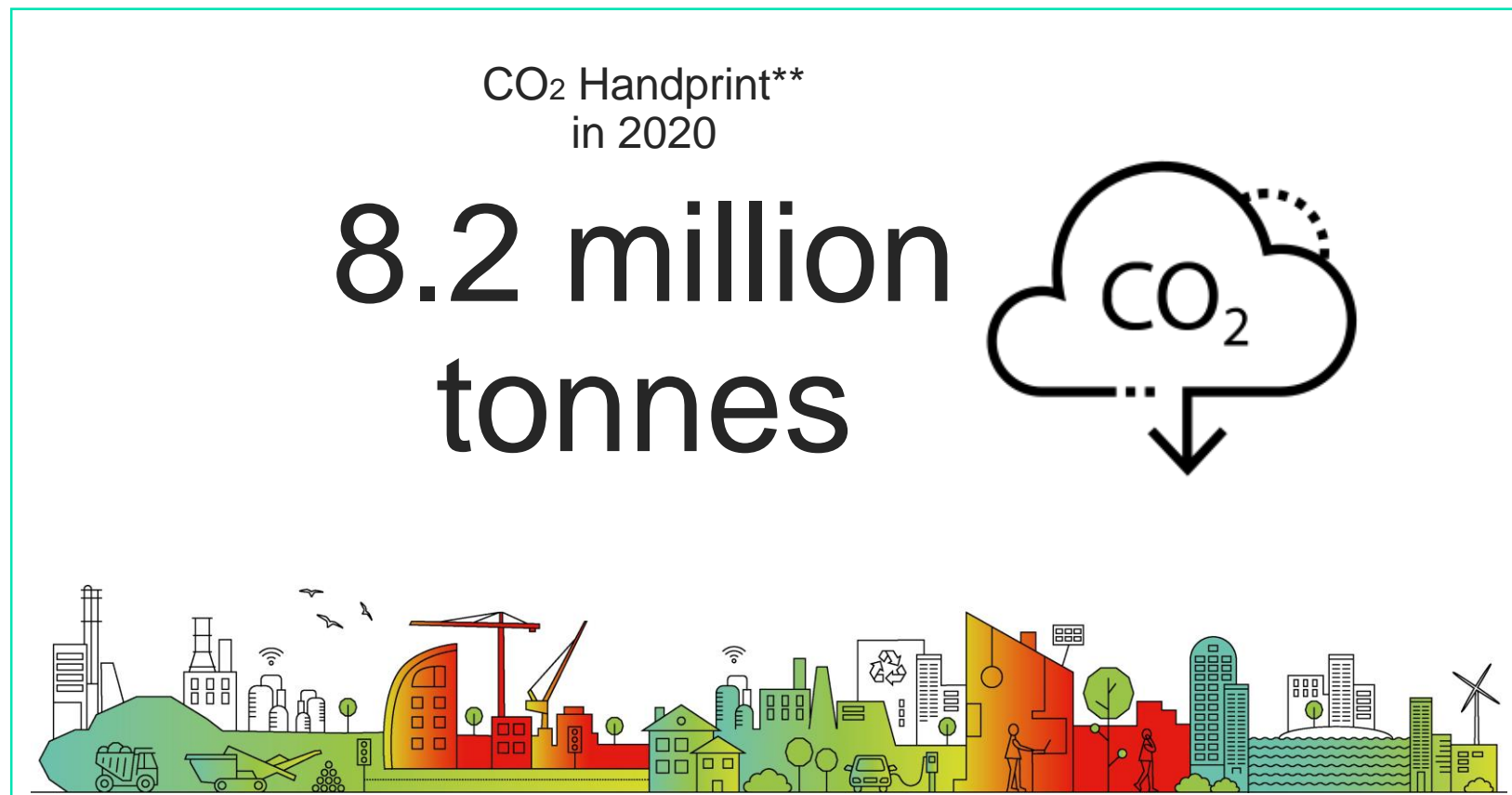
Safety



Our handprint is significantly bigger than our footprint



**Footprint = emissions generated in production, logistics, Purchased good and services and flights*



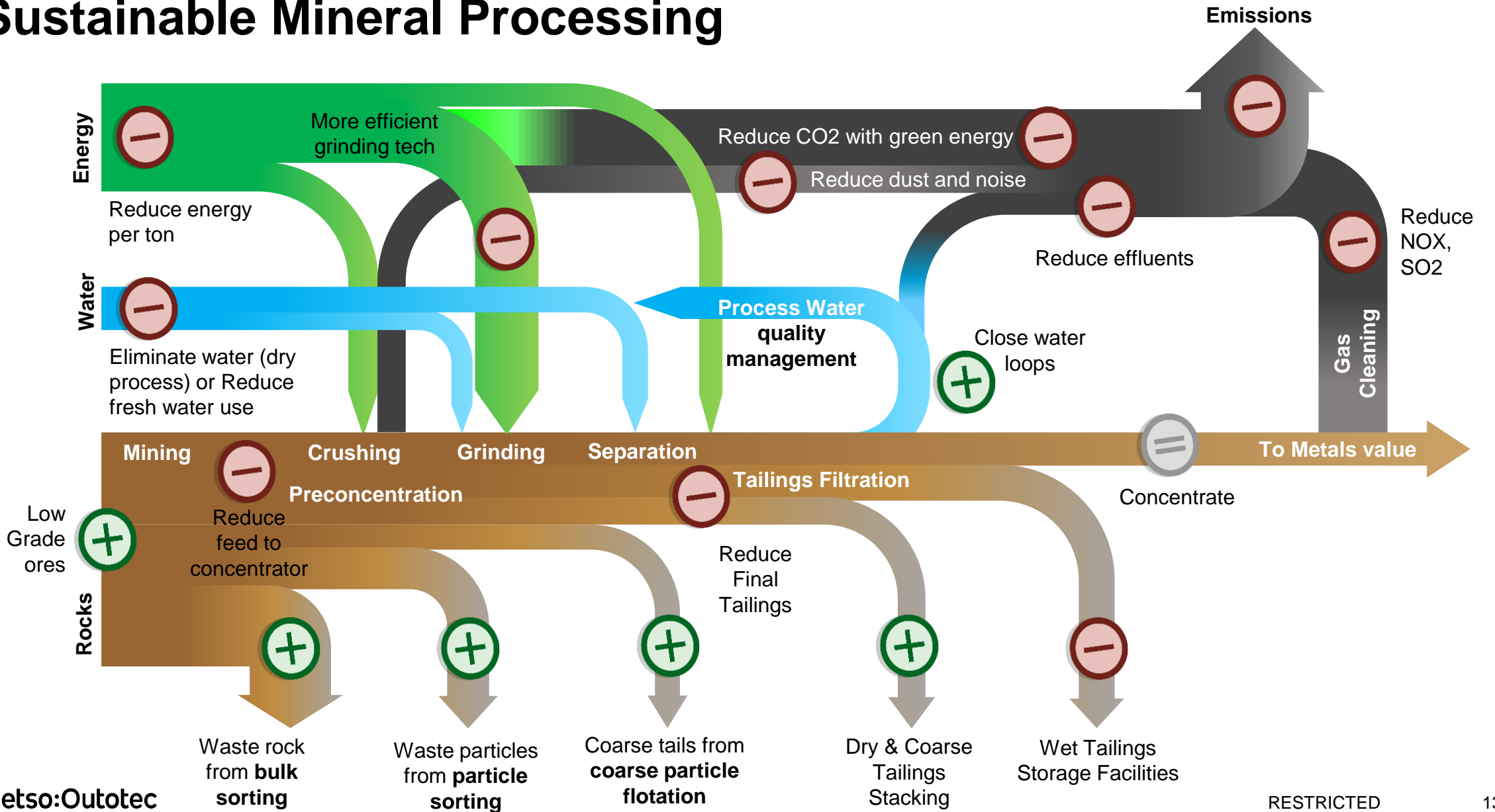
***Handprint = emissions avoided in customer operations with 17 metals refining and minerals processing technologies*

Metso Outotec all R&D with sustainability targets

Future aggregate concepts	<ul style="list-style-type: none">• Future mobile crushing & screening technologies• Future crushing technologies	
Smart and Planet Positive solutions for minerals	<ul style="list-style-type: none">• Preconcentration• Comminution• Separation• Tailings• Smart & connected equipment and process	Water efficiency
Metal solutions for batteries, carbon-free production and gold	<ul style="list-style-type: none">• Battery metals• Carbon-free production• Circular economy• Gold	Modular Digital
New materials and digital solutions for maximized performance and productivity	<ul style="list-style-type: none">• Supermaterials• Circular economy• Customer productivity improvement• Digitized field services	

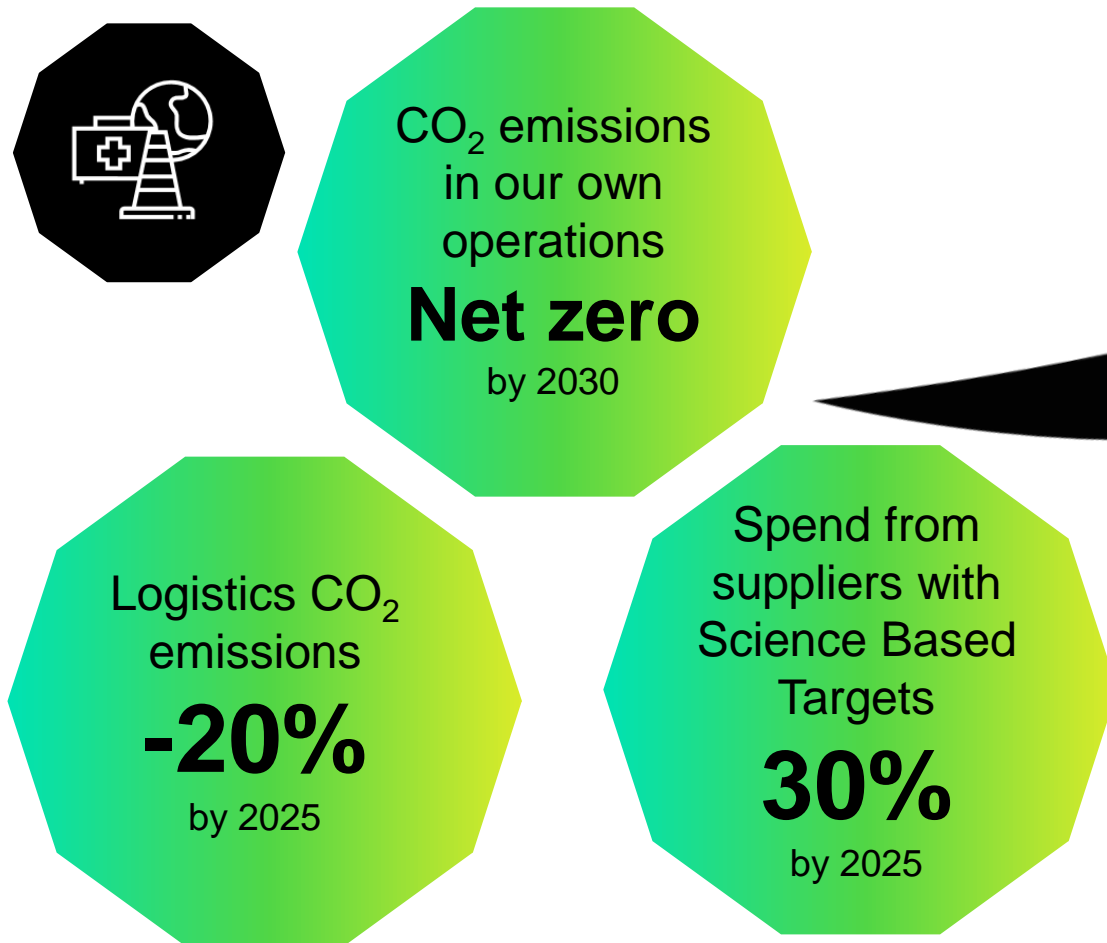
100%
R&D spend in sustainability

Our Innovation focus is on supporting the new equation for Sustainable Mineral Processing

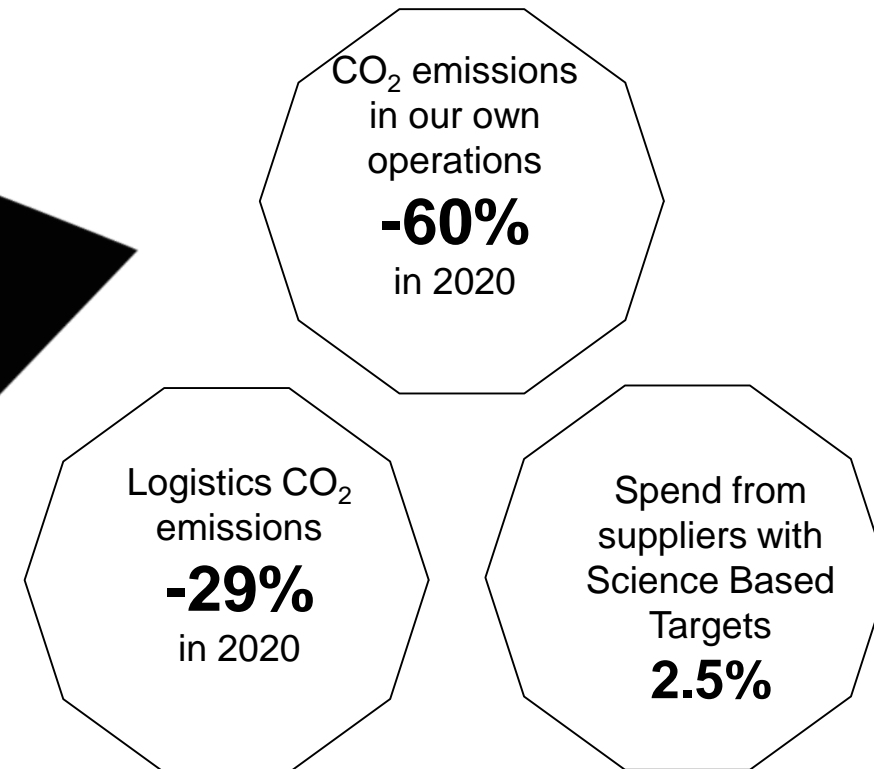


We manage our own footprint

Our footprint targets



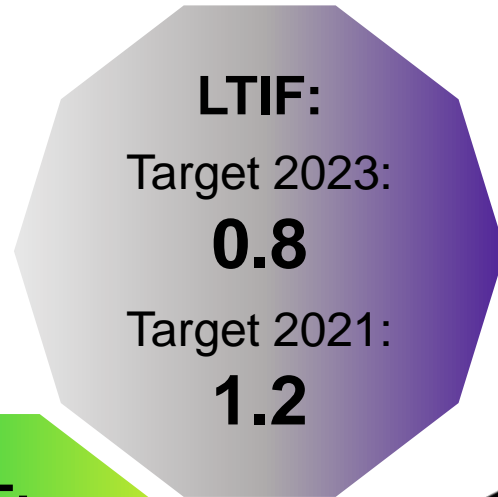
Our footprint results



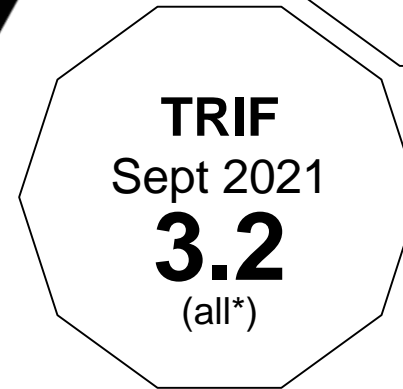
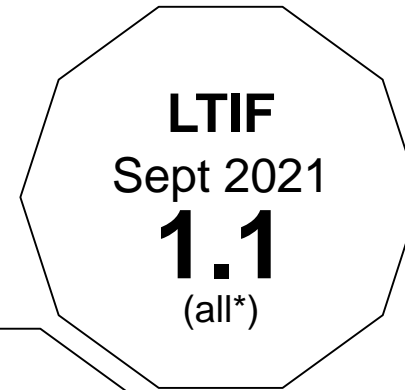
We target zero harm

We provide leadership and vision for the industry to drive safety culture improvement

Our safety targets



Our safety results



*All refers to our own employees and contractors

Metso:Outotec

Partner for positive change

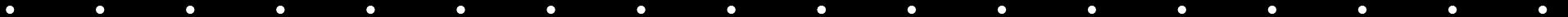


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