

### Agenda and speakers

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- Our progress in ESG
  Juha Erkkilä, VP Group Sustainability
- 3 Sustainability in raw material procurement
  Hannah Stratmann, Supplier Sustainability Manager
- 4 Closing
  Stefan Erdmann, CTO & Group Sustainability
- **5** Q&A









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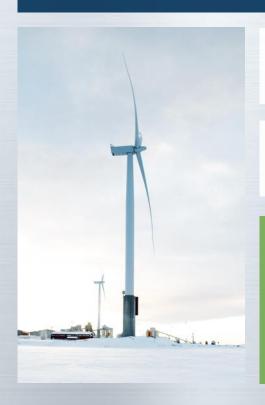
Outokumpu
Tornio works –
the biggest
material recycler
in Europe





## Our differentiators are the foundation for Outokumpu's ESG ambitions

Adoption of **Science-Based Targets initiatives (SBTi)** improves our market position as a key supplier of low-emission products towards our customers



Our in-house ferrochrome mine in Kemi is a unique asset – only chrome mine in EU.

The integrated ferrochrome and stainless steel mills at our Tornio site bring considerable efficiency advantages.

76%

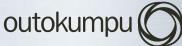
of electricity sourced from low-carbon sources already in 2020

Total incident frequency rate has decreased by

70%

from 2016





## A comprehensive approach is needed to address climate change

We are the only stainless steel company with a commitment to the business ambition of

1.5°C



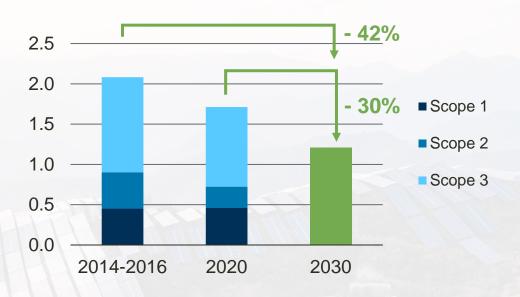
1.7

tonnes of CO<sub>2</sub> per tonne of stainless steel\*

70%

lower than global industry average

### Emission intensity (tCO<sub>2</sub>/t crude steel)



By 2030, we aim to reduce our total emissions by 30% from 2020 – and by 42% from the 2014-2016 baseline.

## Leadership in sustainability requires also a strong stance on social and governance



### **Social**

- Safety, compliance and commitment throughout the value chain
- Human rights risk assessment
- Corporate Social Responsibility actions in everyday life
- Diversity & Inclusion initiatives



### **Governance**

- ESG advisory council established
- ESG focus in sustainable sourcing
- Strong ethics and compliance programme incl. Code of Conduct revision and emphasis on competition law
- Embedding carbon costs in all technical projects



## New innovations in stainless steel products enable the world that lasts forever

World needs
to go net
zero – and
we are part
of the
solution

Stainless steel is a durable and low-weight solution for **optimum performance in specialized fields** and demanding conditions











Our products
are enablers
for our
clients'
– and their
clients' –
net zero
ambition



# Our progress in ESG

Key completed, ongoing and potential activities

Juha Erkkilä, VP – Group Sustainability



## This year, we have had a strong focus in implementing concrete ESG initiatives

**Organizational Health Index** survey

**Diversity and Inclusion initiative** ongoing in Americas, to be implemented on Group level in 2022

Updated 1.5 °C climate targets finalized and submitted to the SBTi

**Supplier requirements** updated and **Supplier Code of Conduct** in preparation



**Vaccination centers** in Germany and US

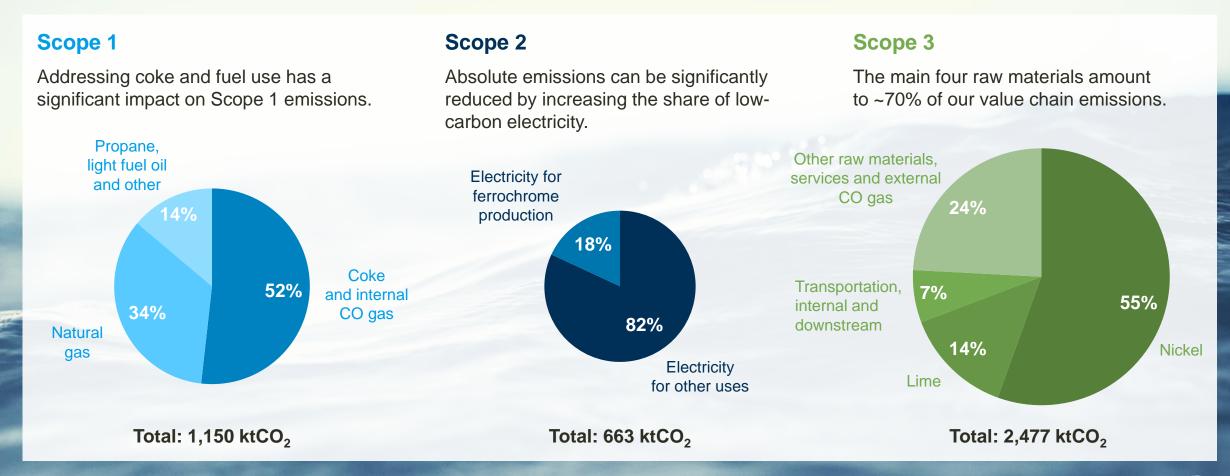


Leadership pipeline program to support empowering our employees

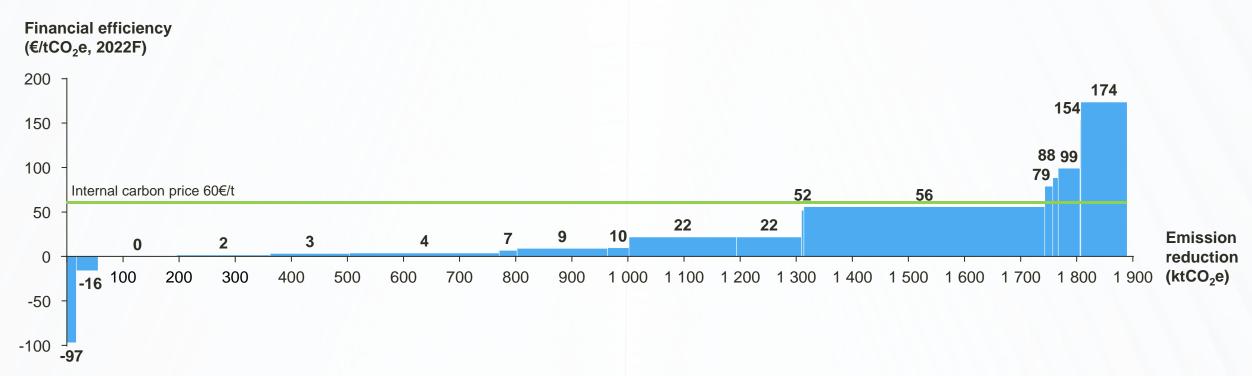
**Human rights risk assessment** conducted, in accordance with the **UNGP** on Business & Human Rights 10-year power supply agreement signed to increase the share of wind power in our energy mix



### Our starting point for emission reductions **Emissions per scope in 2020**



## Financial efficiency of carbon reduction projects Outokumpu's ability to reduce 1.75 Mt emissions with < 60€/t



We have analyzed measures to reduce emissions for categories covering 93% of our current total emissions – implementing all of those would reduce our emissions across all scopes by over 40%.

Efficiency improvement projects are not included in this graph.



## Projects identified to reduce our Scope 1 emissions

Scope 1 emissions constitute to a large extent from the use of coke and various fuels in our production processes - to reduce them, we will:

- As a transitional step, replace fossil coke with biocoke from forestry residue
- Replace fossil-based fuels with lower-emissions alternatives
- Invest in process efficiency measures for example, waste heat utilization at our Krefeld plant

This can be achieved with close to operational cost parity.



**Emission reduction potential until 2030** 

**Up to 0,4** MtCO<sub>2</sub>

**Emission reduction** 

40 €/tCO<sub>2</sub>

Average marginal abatement cost

**Cost impact** 

~160 m€ **CAPEX** 

~0 m€

Cost impact



## Alternatives to reduce our Scope 2 emissions

Alternatives to reduce the electricity emissions include:

- Directly purchasing low-carbon electricity
- Acquiring Guarantees of Origin
- Investing in renewable electricity

A new Power Purchase Agreement for low-carbon electricity, for example wind power was closed.

Ongoing initiatives to continually reduce our electricity consumption.



#### **Emission reduction potential**

**Up to 0.8** MtCO<sub>2</sub> **Emission reduction** 

~5 €/tCO<sub>2</sub> Average marginal abatement cost

#### **Cost impact**

0 m€ **CAPEX** 

5-6 m€ Cost impact

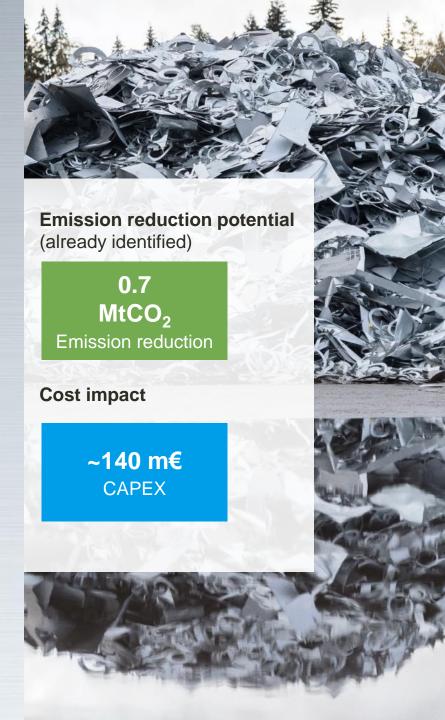


## Determined actions to reduce Scope 3 emissions

Our Scope 3 emissions constitute to a major extent from emissions related to raw material sourcing – and Ferronickel has the largest impact.

- Identified main low-carbon emission suppliers
- Multi-year contract agreed with a large Ferronickel supplier with 50% lower CO<sub>2</sub> emissions compared to industry average
- Optimize utilization of side streams

Other projects include e.g. increasing scrap share in sourcing and implementing lower-emissions transportation solutions, such as LNG fuel for vessels and road to rail.



## Our technical journey towards carbon neutrality The ambition is reflected in small and large projects alike

Done: progress already achieved

Energy intensity decreased by ~10% (Q3 2021 compared to Q3 2020)

- Biocoke trials
- Digital manufacturing
- EAF temperature prediction
- Renewable Energy PPA
- Over-alloying reduction
- Assessing CO<sub>2</sub> impact of investment projects

In Plan: approved for implementation

### Improving energy efficiency and reducing direct emissions

- Reducing use of fossil coke and fuels
- Share of low-carbon electricity
- Sourcing from lower-emissions raw material suppliers
- Trials for alternative heating
- Heat Recovery
- Product Carbon Footprint

**Future: step-change technologies** 

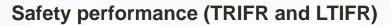
### Boosting efficiency and closing in on zero direct emissions

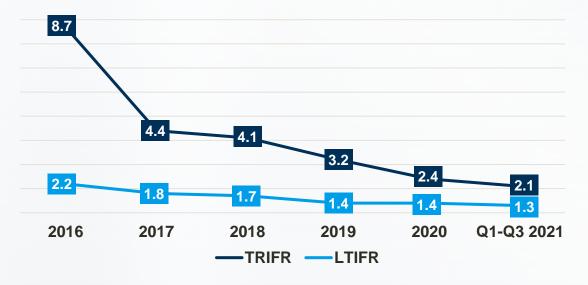
- Carbon Emission Free Ferrochrome Process
- Zero Carbon Emission Heating Technology
- Carbon Capture Technology
- Improved side stream utilization
- Large scale biocoke utilization



### Solid progress towards our goal of zero work-related accidents continues

In 2021, our safety performance reached its best level ever, remaining well below the industry average.







We are investing every year

18 m€ in improvements of environment,

health and safety

### **Workplace Excellence**

 Global Organizational Health Index survey

### We are constantly improving our safety procedures

Behavior-based safety approach



## We are striving for continuous improvement in employee health and well-being

### **Vaccination centers** in Germany and US

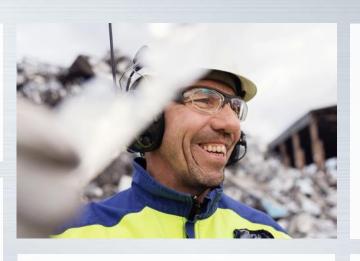
 COVID-19 regulations implemented successfully

### **Supporting everyday** health

 E-bikes for employees in Finland

#### New, safer pickling methods

• 3-year collaboration with the Fraunhofer Institute



#### **External collaboration**

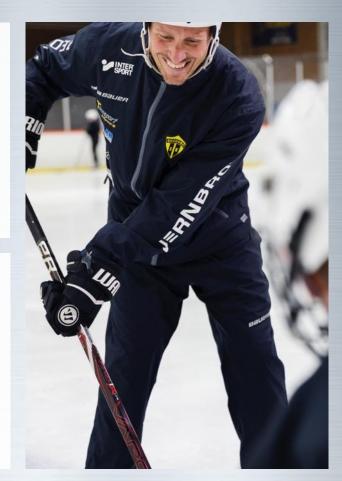
- Universities, technology providers and other industries
- Over 500 summer trainees in Finland and Sweden

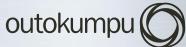
### **Diversity & Inclusion initiative** in BA Americas

 Global diversity, equity and inclusion (DE&I) assessment

### **Global leadership** training

 Leadership pipeline program implemented





## We increase the transparency and visibility throughout the value chain

### **New Supplier Sustainability Manager** and activities in raw material supply

- Auditing and incident follow-up
- Supplier ranking and scorecard adjustment

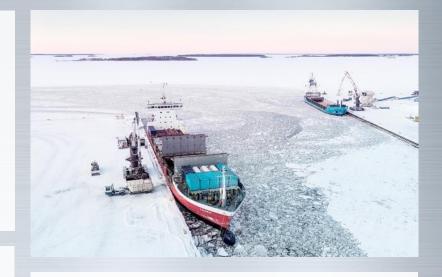


## Supplier Requirements updated and Supplier Code of Conduct in preparation

- Supplier requirements re-evaluated
- Fair business relationships, with zero human rights infringements

#### Holistic supply chain sustainability

- Strengthening own capabilities & engaging with our supply chain
- New screening and risk management practices



### **Human rights risks a high priority**

- · Human rights risk assessment done
- Measures to be implemented during 2022



## Sustainability embedded in everything we do through robust governance

#### **ESG Advisory Council established**

Best practices and cross-industry understanding

### **Example in value-chain** responsibility

- Internal Code of Conduct revised
- Mandatory training has been initiated for all personnel



### **Sustainability culture across** organizational levels

- Monthly Updates on Business Area Board level
- Investments consider carbon price
- ESG Core Team implemented

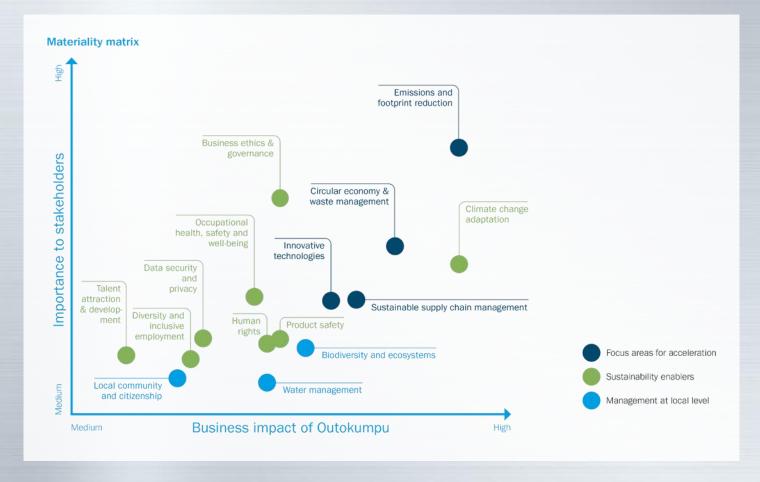


### Materiality analysis finalized in Q3 2021

 Double materiality analysis for sustainability work



## Emission and footprint reduction seen as the highest priority by our stakeholders









## Sustainability strategy – implications for raw material procurement

Aiming at 40% CO<sub>2</sub> reduction in major raw materials by 2030







**Strategic alliances with** responsible key suppliers

**Transparent and monitored supply chain** 





## Five high-priority initiatives for 2021 and 2022 Supplier sustainability assessment, scorecard and on-site audits Document review, supplier onboarding and Supplier Code of Conduct CO<sub>2</sub> emissions tracking United Nations Guiding Principles on business and human rights ESG incident management outokumpu ( 25 | December 8, 2021

## Implementation of supplier sustainability assessment and scorecard started

- Supplier Requirements
- Code of Conduct





### **Supplier scorecard**



### **ESG** incident management





## Applying the ESG incident management process: Vale and the Finnwatch report



### **Recommendations for Outokumpu by Finnwatch:**

- Commitment to United Nations Guiding Principles (UNGP)
- Identification of risks associated with Outokumpu's own operations and its value chain
- Action plan to address identified risks
- Assurance that Vale keeps its commitments made to the indigenous peoples in the final settlement



### Investigation phase included a site visit in Brazil

#### Investigation:

- Engaging external professionals: Enact
- Desktop study and stakeholder mapping
- Field work in Brazil: Meeting Vale, the Xikrin and several institutions
- 4. Continuous communication with Finnwatch

#### Field work targets:

- Directly engage stakeholders
- Identify human rights impacts on indigenous peoples alleged by Finnwatch
- Determine the reliability of Vale's risk management
- Assess risks to Outokumpu in this supply chain
- Derive a framework for integrating human rights into Outokumpu's supply chain management







### Site visit outcomes guiding the path forward

#### Outcome of the site visit:

- The necessary information to fulfil the field work targets could be obtained to a very large extend
- The way forward is outlined on a high level and discussed with Vale

#### **Next steps:**

- Consolidate all information and detail way forward
- Continue engagement with both Vale and other stakeholders
- Develop the framework that supports anticipation of potential human rights infringements in Outokumpu's supply chain













DRIVING AMBITIOUS CORPORATE CLIMATE ACTION







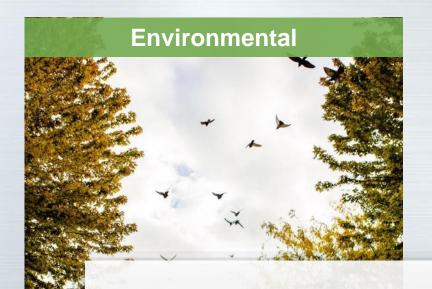




2020



## Progressing in sustainability is crucial for our success as a company







Outokumpu is fully committed to keep improving capabilities on all three fronts: environmental, social and governance

With the ambition presented today, we aim to ensure sufficient carbon allowances until the end of the decade



## **Q&A** session

To ask a question, please dial in via conference call

**Conference call details** 

Finland: (09) 8171 0310

UK/Europe: +44 33 3300 0804

US: +1 631 913 1422

Conference ID: 83305286#



