

TraceMet

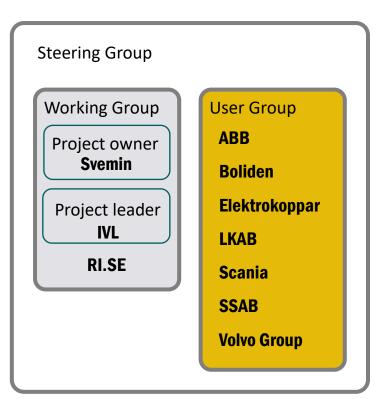
Tracing Environmental Performance of Steel and Copper Through the Value Chains





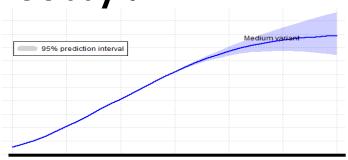
TraceMet – some basic facts

Timetable:	December 2019 to January 2021.
Financier:	The strategic innovation program Swedish Mining Innovation, a joint investment of Vinnova, Formas and the Swedish Energy Agency.
Project owner and promoter:	Svemin, the Swedish industry association of mines, mineral and metal producers.
Partners:	IVL Swedish Environmental Research Institute, RI.SE, Boliden, LKAB, Elektrokoppar, SSAB, ABB, Scania, Volvo Group

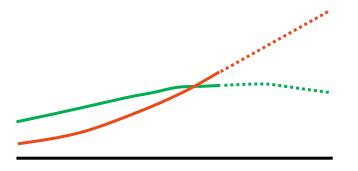




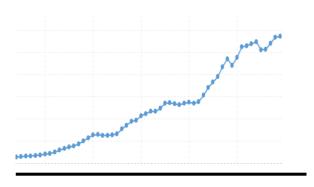
Why?



Global population 1950–2100 United Nations, 2019



Urban and rural population 1950–2050, UN World Urbanization Prospects 2018



GDP per capita population 1960–2020 Macrotrends, 2020

"Every extra bit of warming matters, especially since warming of 1.5°C or higher increases the risk associated with long-lasting or irreversible changes, such as the loss of some ecosystems." (IPCC, 2018)

"Nature is declining globally at rates unprecedented in human history—and the rate of species extinctions is accelerating." (IPBES, 2019)



Increasing demand for metals and minerals

Urgent need for sustainable supply chains



Possibility to trace the environmental performance through the value chains

Pro-active and responsible actors should have a competitive advantage



What?

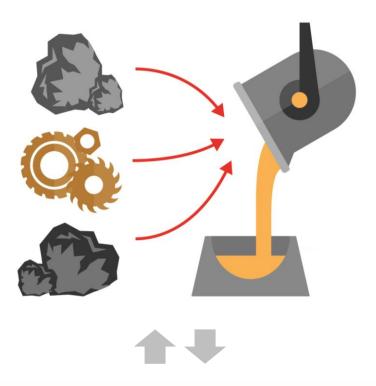
- TraceMet has developed a pilot system for steel and copper, to certify
 - a. the carbon footprint and
 - b. the percentage of recycled metal.
- 2. The environmental performance is be traceable throughout the value chain.
- 3. The system is **reliable**, **functional and distributed** so that it can be used by various actors in the value chain.





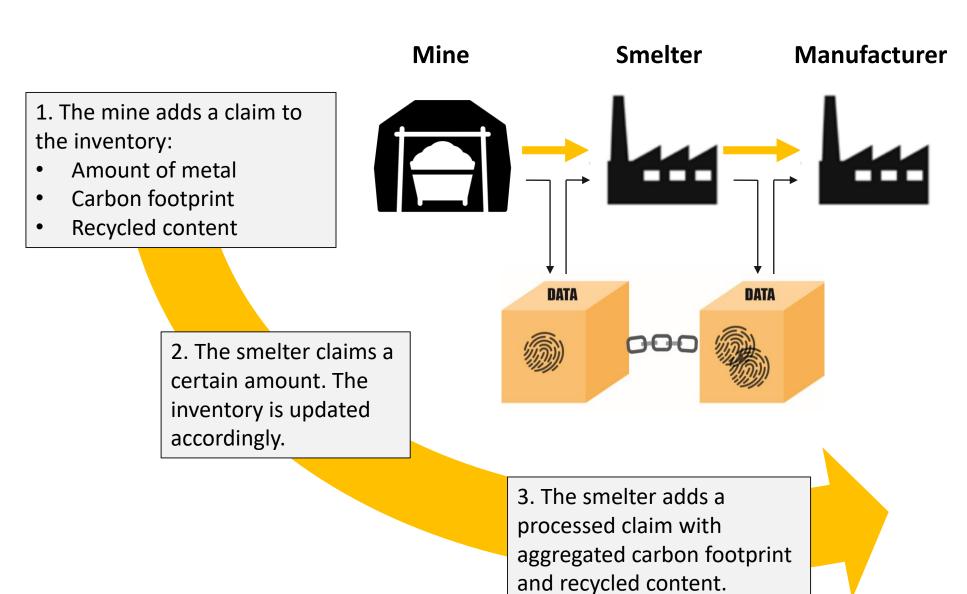


How?



- Mass balance chain of custody accounting.
- Blockchain database.
- Project internal certification scheme and product category rules (PCR).





- Mass balance.
- Granularity of data.
- Asynchronous reporting and computation.
- IoT and digitalization.







How Blockchain Technology Can Certify Responsible Value Chains

Open expert webinar on the new

traceability system for metals - TraceMet

March 18 - 13.00 - 14.30















PROJECT OWNER

Svemin

PROJECT LEADER

IVL Swedish Environmental Research Institute PROJECT PARTNERS

ABB, Boliden, Elektrokoppar AB, LKAB, Rise, Scania, SSAB, Volvo Group

FINANCIER









Strategic innovation programmes