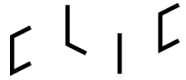




SYMMET – Result Webinar 26.11.2020

ELIC



SYMMET – Symbiosis of metals production and nature

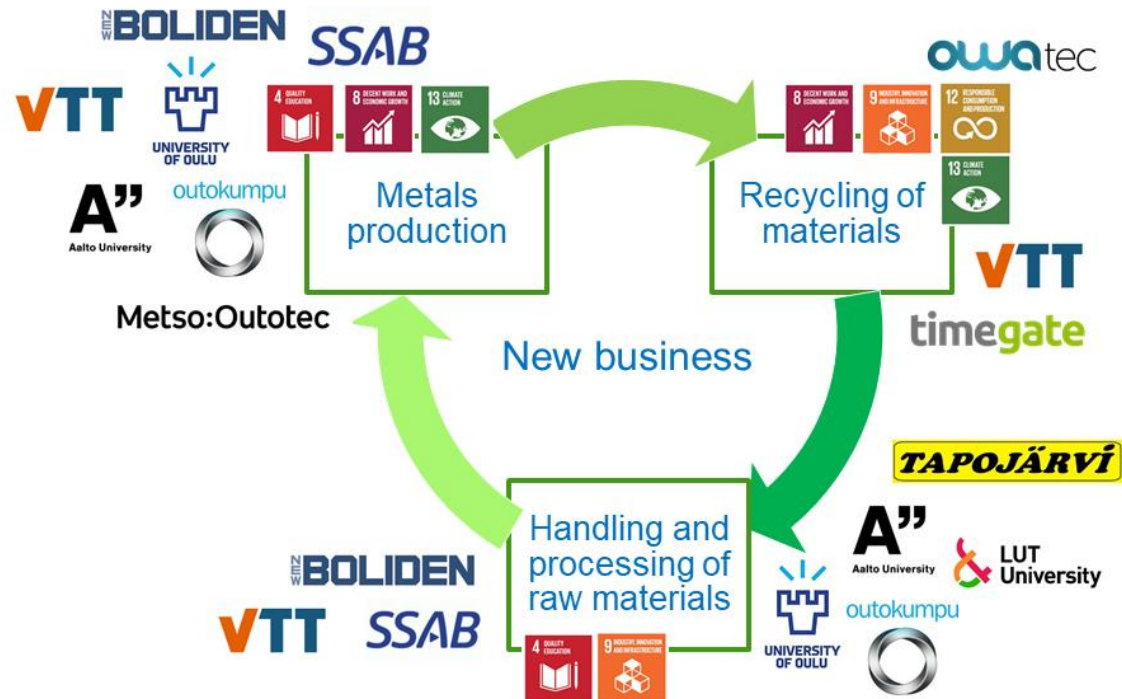
SYMMET – Symbiosis of metals production and nature – aims to find ways to minimize waste materials or residues formation in metallurgical processes, and to establish how best to utilize secondary raw materials in existing metallurgical processes. It also wants to promote creation of research-based innovations and new business.

The production from current mines is not sufficient to fulfil the need for metals, especially when clean energy, e.g. wind and solar, and electric vehicles are produced in growing amounts. SYMMET is trying to find answers to the sustainability gap, which is the result of continuously increasing need for metallic materials.

SYMMET gathers together a large consortium of metal producers, technology and service providers, SMEs and research institutes active in the metals production ecosystem. The industrial partners of the project are Boliden Harjavalta Oy, Boliden Kokkola Oy, Outokumpu Stainless Oy, Outotec (Finland) Oy, Owatec Oy, SSAB Europe Oy, Tapojärvi Oy and Timegate Instruments Oy. Aalto University, Lappeenranta University of Technology, University of Oulu and VTT Technical Research Centre of Finland support consortium by high level scientific research. The total budget of the two-year project is approximately €6.9 million.

SYMMET

Industrial partners and supporting research organisations





SYMMET – Result Webinar program

Ari Jokilaakso, Chairman

- 8:30 Opening, Ari Jokilaakso, Aalto
- 8:35 SYMMET contributing to circular economy, Juho Talonen, Outokumpu
- 8:50 Global guidelines for circular economy, Nani Pajunen, Sitra
- 9:05 Climate-neutral circular economy – proposal for a national programme, Taina Nikula, YM
- 9:20 Metal industry in the changing operational environment, Kimmo Järvinen, Metallinjalostajat
- 9:35 Technical development for sustainable metals production, Justin Salminen, Boliden Kokkola
- 9:45 New water treatment solutions for metallurgical industry, Jaakko Pellinen, Owatec
- 9:55 Discussion
- 10:05 *Break*

Circular Economy

Timo Fabritius, Chairman

- 10:15 Circular Economy approach as SSAB way to improve material efficiency, Jarmo Lilja
- 10:25 Utilization of steel production dusts and sludges in geopolymers, Elijah Adesanya, University of Oulu
- 10:40 Noble and critical metals recovery from secondary raw materials, Ronja Ruismäki, Aalto
- 10:55 Solvent extraction in purification of anode slime leachates, Niklas Jantunen, LUT

Reduction of environmental impacts

- 11:10 New approaches for modelling and control of hot metal desulfurization, Ville-Valtteri Visuri, University of Oulu
- 11:25 Biocarbon as an alternative for fossil carbon in reduction processes - updated market situation, Juha Hakala, VTT
- 11:40 Removal of zinc from submerged arc furnace flue gas wash water, Emma-Tuulia Nurmesniemi, University of Oulu
- 11:55 Discussion
- 12:05 What after SYMMET, Ari Jokilaakso



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