

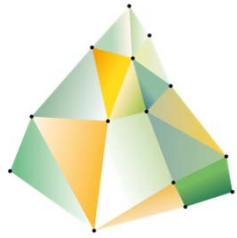


Good practice cases on innovation for mineral and metallurgical processing – Content of the 3 Policy Laboratories

Anders Sand

Luleå University of Technology
Division of Minerals and Metallurgical Engineering

Luleå, 18-19 May 2017

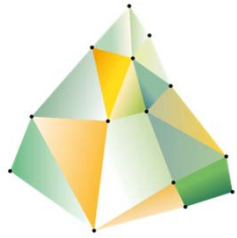


Innovative Processing D4.1 (Published Dec 2016)



- Analysis of innovation cases, particularly drivers and barriers and links to policies
 - Listing and brief description of some 30 innovation examples
 - Selection of 3 innovation cases for deeper analysis of innovation cases and connection to policies and legislation
 - Stage 2 – further innovation case analysis carried out for D4.2
- Policy Labs help providing diverse, multi-stakeholder input on industry innovation, links to policies and other drivers/barriers





Policy Lab Parellel Sessions



Policy Lab 1:

Mineral processing

Jan Rosenkranz –
Introduction

Hamid
Manouchehri,
Sandvik – Eco-
Efficiency in
Comminution

Antti Remes,
Outotec Oy – The
Outotec Oremet
Optimizer



Policy Lab 2:

Metallurgical processing

Johan Frishammar
– Introduction

Dan Hallberg,
LKAB – NOx-
reduction in
LKAB's pellets
production plant
KK4

Linn Andersson,
Boliden AB – A
novel process for
treating e-waste



Policy Lab 3:

Recycling & handling of processing rejects

Anders Sand –
Introduction

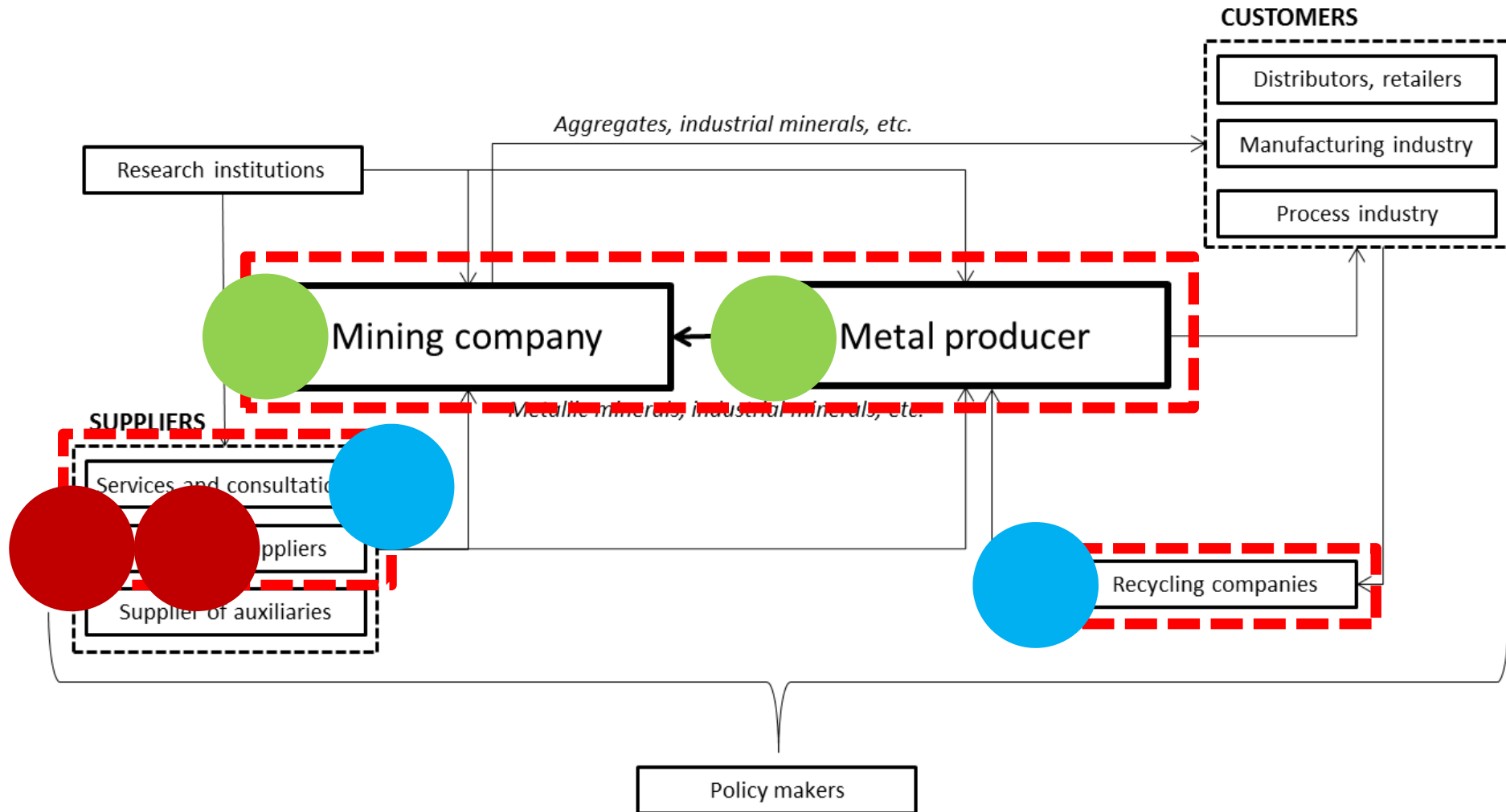
Sverker Sjölin,
Stenametal –
Sensing and
robotic sorting of
end of life
products

Barrie O'Connell,
Wardell Armstrong
– Innovation in
tailings handling



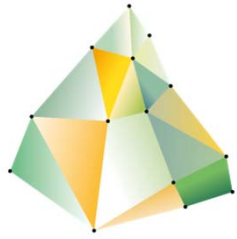


Stakeholder network (WP 4 Innovative Processing)



Source: MIN-GUIDE Report D4.1, Sand et al. 2016





Policy Lab Session 1 Mineral Processing

Facilitator: Jan Rosenkranz

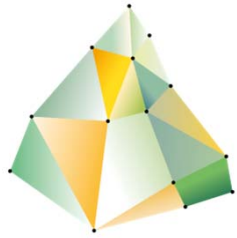
OreMet Optimizer

Antti Remes (Outotec Oyj)

Eco-Efficiency in Comminution

Hamid-Reza Manouchehri (Sandvik)





Policy Lab Session 2 Metallurgical Processing

Facilitator: Johan Frishammar

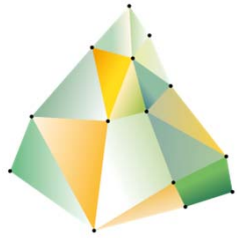
NO_x Reduction in LKAB's Pellet Production Plant KK4

Dan Hallberg (LKAB)

A Novel Process for Treating E-Waste

Linn Andersson (Boliden)





Policy Lab Session 3 Recycling and Handling of Processing Rejects

Facilitator: Anders Sand

Sensing and Robotic Sorting of End of Life Products

Sverker Sjölin (Stena Technoworld)

Innovations in Backfill Handling

Barrie O'Connell (Wardell Armstrong)





Thank you for your attention

Anders Sand

Luleå University of Technology
Division of Minerals and Metallurgical Engineering

www.min-guide.eu/

info@min-guide.eu

