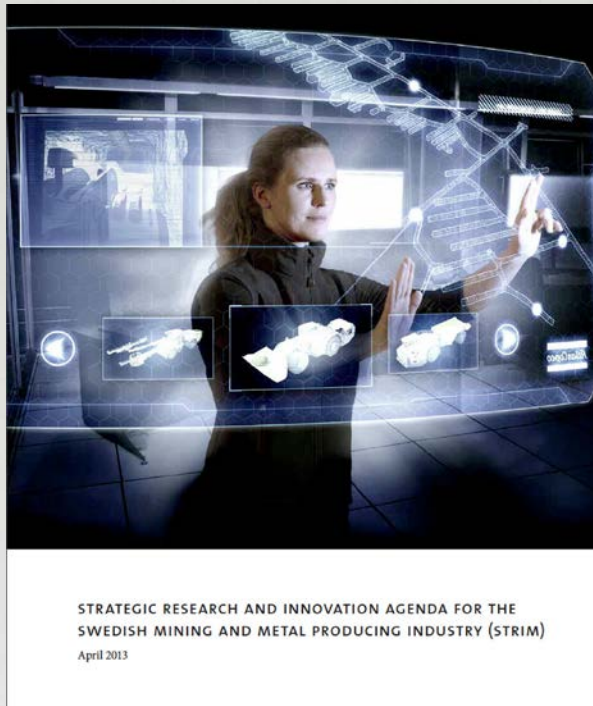


SIP | STRIM

Strategic Innovation Programme for the Swedish Mining and Metal Producing Industry



STRATEGIC RESEARCH AND INNOVATION AGENDA FOR THE
SWEDISH MINING AND METAL PRODUCING INDUSTRY (STRIM)
April 2013



STRIM
Strategic Innovation Agenda for the Swedish
Mining and Metal Producing Industry

Research and Innovation Programme 2013-2016

Revised 2013-12-11

1

**Strategisk Forskning och
Innovationsagenda
2013-2016**



**Strategiskt Innovationsprogram
SIP STRIM 2013-2016**



SIP | STRIM

Strategisk Forskning och Innovationsagenda 2017-2020



STRATEGIC RESEARCH AND INNOVATION AGENDA FOR THE
SWEDISH MINING AND METAL PRODUCING INDUSTRY (STRIM)



STRATEGISKA
INNOVATIONS-
PROGRAM

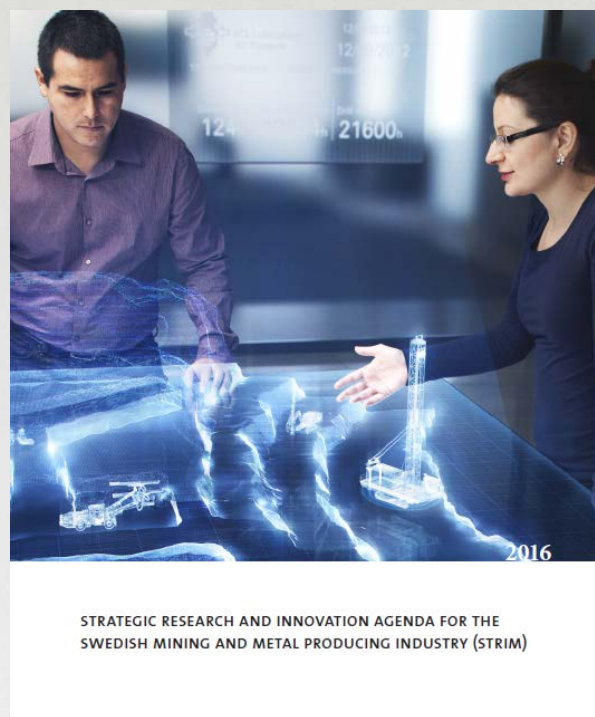
SIP | STRIM

Strategiska forskning och innovationsagendan för gruv- och metallutvinnande industri

VARFÖR?

VAD?

HUR?



Agenda- Områden

Exploration

Resource characterization

Mining

Mineral processing

Metallurgy and Recycling

Reclamation and Environmental Performance

Attractive Workplaces

Gender and Diversity in Mining

Social license to operate



Agenda- Områden

Vision

State of the art

Research and innovations needs and strategies and actions

Short term

Medium term

Long term

Expected impact

Technical

Economic

Environmental

Social

Actions to be implemented until 2020



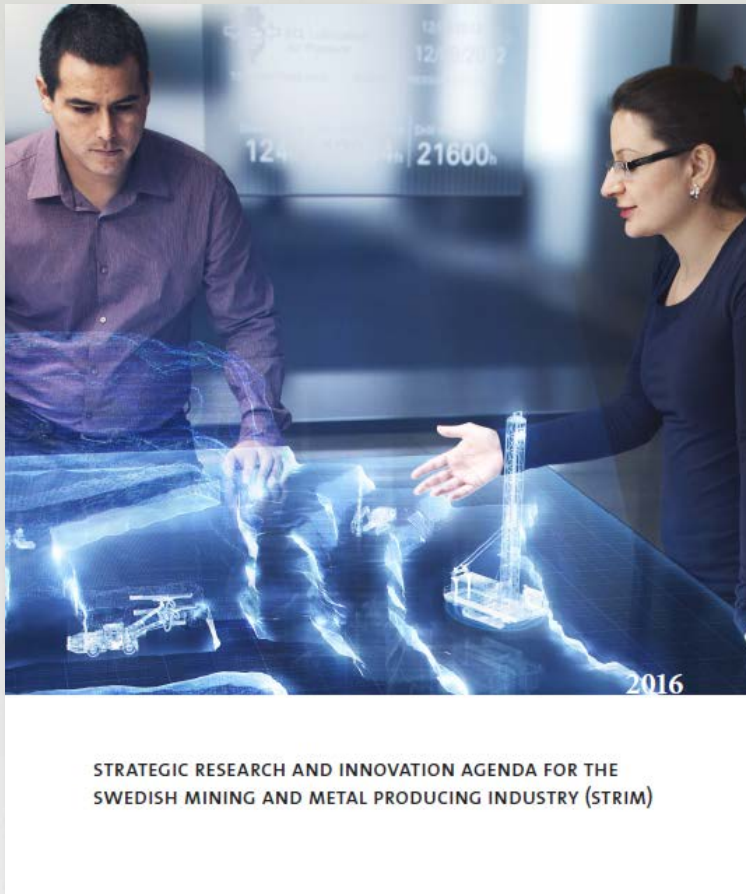
BEYOND VISION 2030

No critical metals
Fully automated mining operation
Zero waste
Closed secondary material loop
Zero fatalities and severe accidents

VISION 2030

Fully integrated resource characterisation	>30% increased resource base
No human exposure at the production face	>30% reduction of ore losses
No harmful emissions	>30% energy reduction
No accidents	>30% increase of resource efficiency
Improved resource efficiency	>30% less waste
Waste into products	>30% increase of by-products from ore and waste
Minimised climate impact	>30% increase in recycled carbon sources
Attractive and gender equal work places	

Sweden is a role model for social, economic and environmentally sustainable mining and metal production



EIT RawMaterials KIC
H2020



**Strategiskt
Innovationsprogram
SIP STRIM 2017-2020!**



Nationella program
SIP PiiA
SIP IOT
SIP Metalliska Material
SIP Re:Source
etc...

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Strategic Innovation Programme for the Swedish Mining and Metal Producing Industry

www.sipstrim.se