



# A SWEDISH SOURCE OF CRITICAL MINERALS, FROM MINE WASTE

Future Mine & Mineral 2021

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# THE FUTURE OF LKAB

Change in three major areas

New world standard  
for mining

Carbon dioxide-free sponge  
iron with hydrogen technology

Extract critical minerals  
from mine waste





# A COMPLETELY NEW INDUSTRY FROM TODAY'S MINE WASTE

Reducing dependence on imports and increasing security of supply of critical minerals in the EU

30 percent of EU's need of  
Rare Earth Elements (REE)

5 times Sweden's need of  
cadmium free mineral fertilisers





# VALUE CREATION AND SUSTAINABILITY STARTS IN THE MINE

Critical minerals

Material efficiency – circularity

Electrification and hydrogen

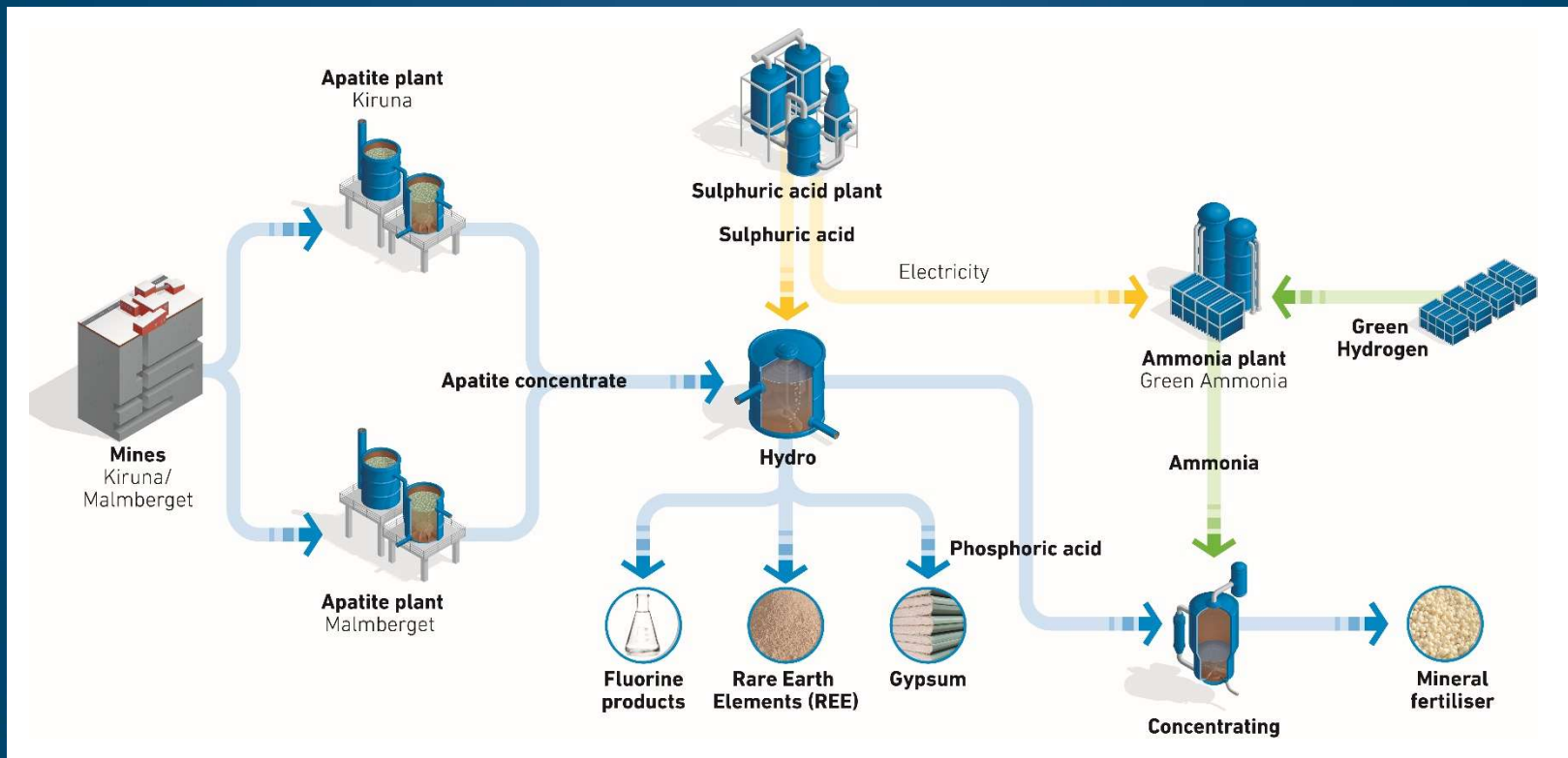
> 700 000 t CO<sub>2</sub>-reduction

A new industry in Northern Sweden

> 10 BSEK investments

Future jobs

# EXTRACTING CRITICAL MINERALS FROM MINE TAILINGS



## THE ROAD AHEAD

Localisation

Environmental permits

Electricity

New technology and processes

Financially viable (given new processes and sustainability ambitions)

Market premiums



THANKS FOR LISTENING!

Learn more on the project website  
[www.ree-map.com](http://www.ree-map.com)