

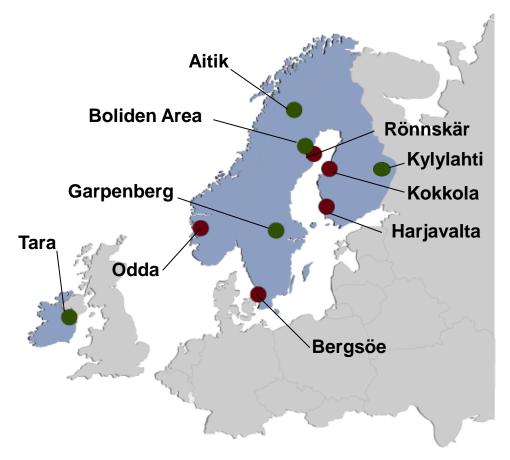
Brussels October 21, 2014

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Director Group Strategy & Business Development



A European base metals company



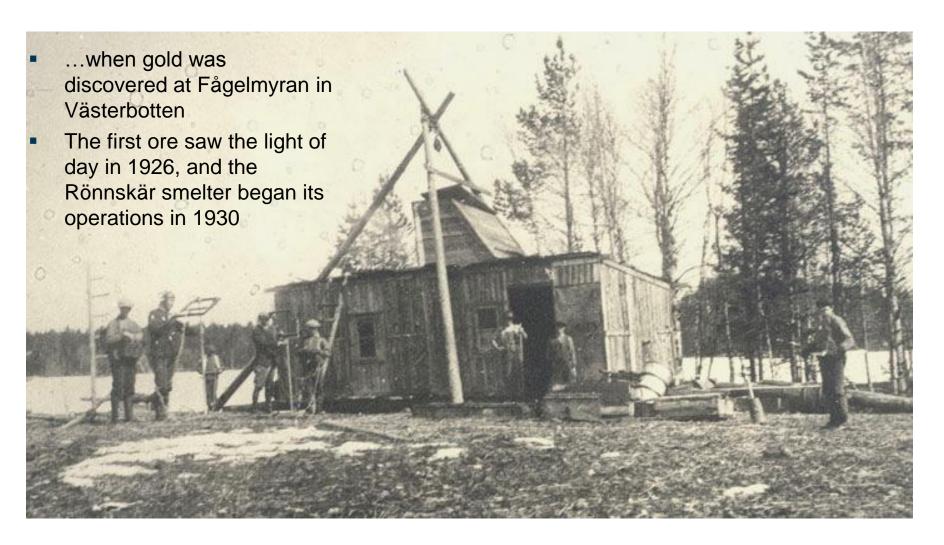
- Zinc, Copper, Gold, Silver, Lead
- Mining and Smelting
- Global leader in e-recycling
- High environmental performance
- In-house project execution resources
- Tech leader

Smelters

Mines

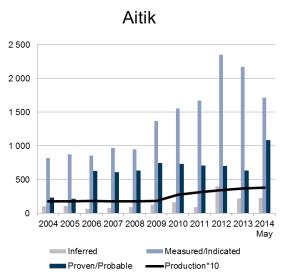


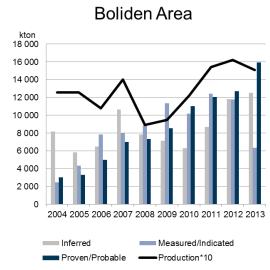
It all started with exploration...

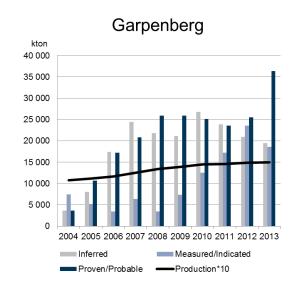


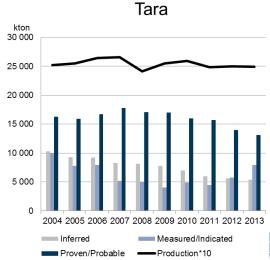


Mineral Resources and Reserves









Aitik expansion 2009-2014

- Competitive position
 - High productivity
 - Favorable stripping ratio
 - Gold by-product
- From 18 to 36 mt of ore
 - Target 36 mt reached 1 year ahead of plan
- Capex SEK ~6.2 billion 2006-2010

Mt	2009	2010	2011	2012	2013
Ore production	18.8	27.6	31.5	34.3	37.1

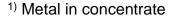




Kankberg – mid 2012

- One of five mines in the Boliden area
- Production
 - Ore 320 kt
 - Gold 37,000 troz¹⁾ (high yearly variations)
 - Tellurium 41 t¹⁾
- Life of mine >8 years
- Capex MSEK ~1,000





6



Expansion Garpenberg

- Capex SEK ~3.9 billion
- Profitable investment with robust financials
 - Period 2011 2014
- New industrial area
 - New underground facilities
 - New concentrator
 - New infrastructure
- From 1.4 to 2.5 mt of ore/year
 - 2 Mton 2014
 - 2.5 Mton pace end 2015
- Productivity increases from high levels
- Improved competitive position
 - Production cost per tonne of ore decreases





Silver recovery at Kokkola

- Increasing silver content in Zn concentrates
- Proven technology
- 25 t silver
- Full production expected end Q3 2014
- Capex 27 MEUR (~240 Msek)
- High return





Aitik45

- Decision to invest 600 MSEK 2014-2015, primarily for
 - Crusher at surface
 - Water management
 - Electricity supply
 - Smaller de-bottlenecking
- A first step to enable 45 mton/y
- Mine plan
 - Reserves 1 085 (633) mton
 - Life of mine 2040
 - Average reserve grade
 - Cu 0,22 (0,24) %
 - Au 0,14 (0,14) g/ton
- Continued evaluation of
 - In pit crushers, conveyor system
 - Tailings management
 - De-sulphurization
- Maintenance capex
 - Pushback, tailings
 - Other including mobile equipment





Rönnskär – no 1 electronics recycling plant



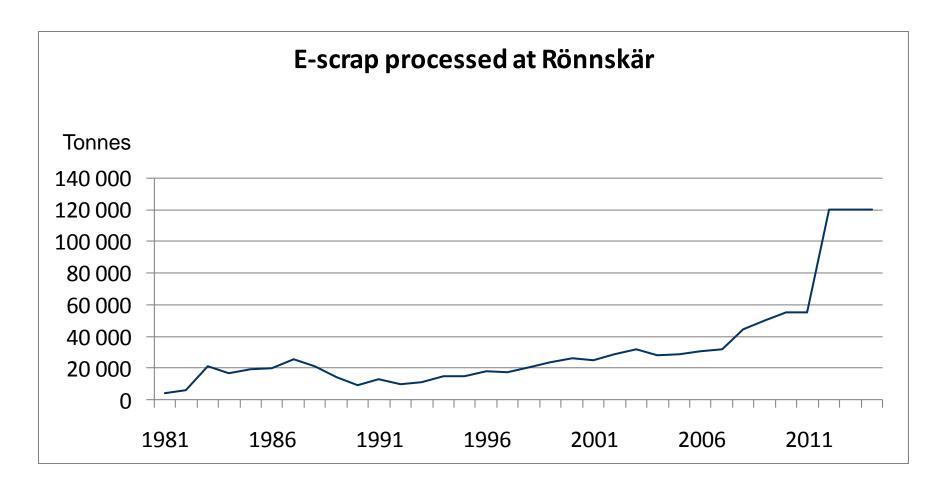
Project execution

- Production started on time
- Capex, MSEK ~1,300 on budget

Project data

- Raw materials scrapped electronics
- 120,000 t/year capacity
- Gold, silver, copper production

More than 30 years of experience in e-scrap smelting and recycling





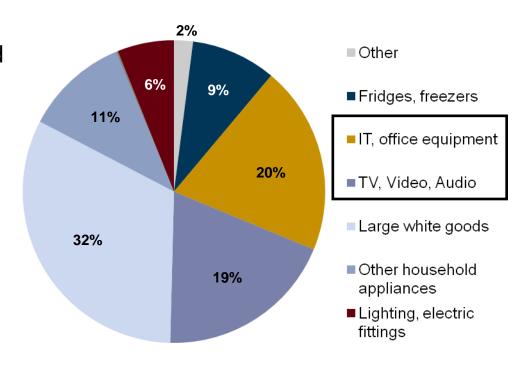
E-scrap recycling within EU – legislation will drive e-scrap volumes

Existing WEEE*-directive
Target to collect 4 kg per person and year

WEEE-directive 2016 (not yet decided)

Target to collect approx. 13 kg per person and year

The average EU citizen's electronic product purchases currently equate to 24 kg of e-scrap per year



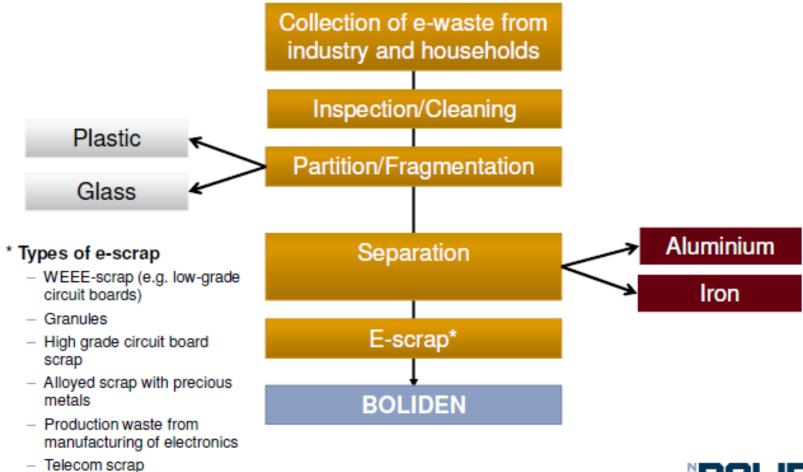
*WEEE = Waste from electrical and electronic equipment

=main source of supply

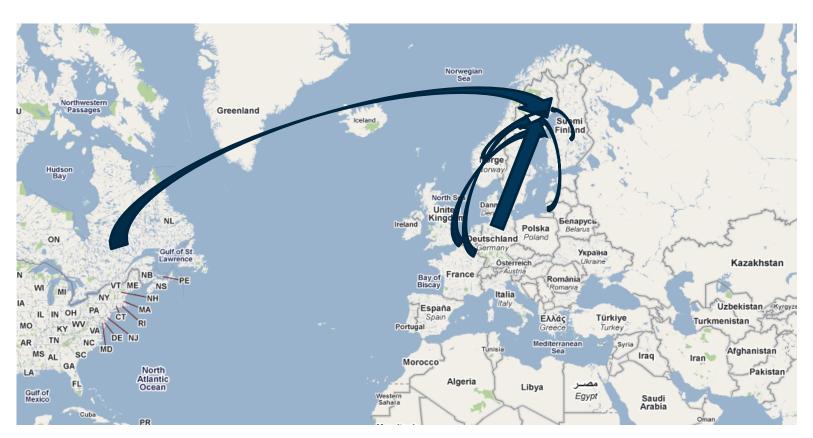




The value chain for electrical and electronic waste



Electronic scrap's ways to Rönnskär



Europe: 70% of volume

Scandinavia: 20% "North America: 5% "Others: 5% "-











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