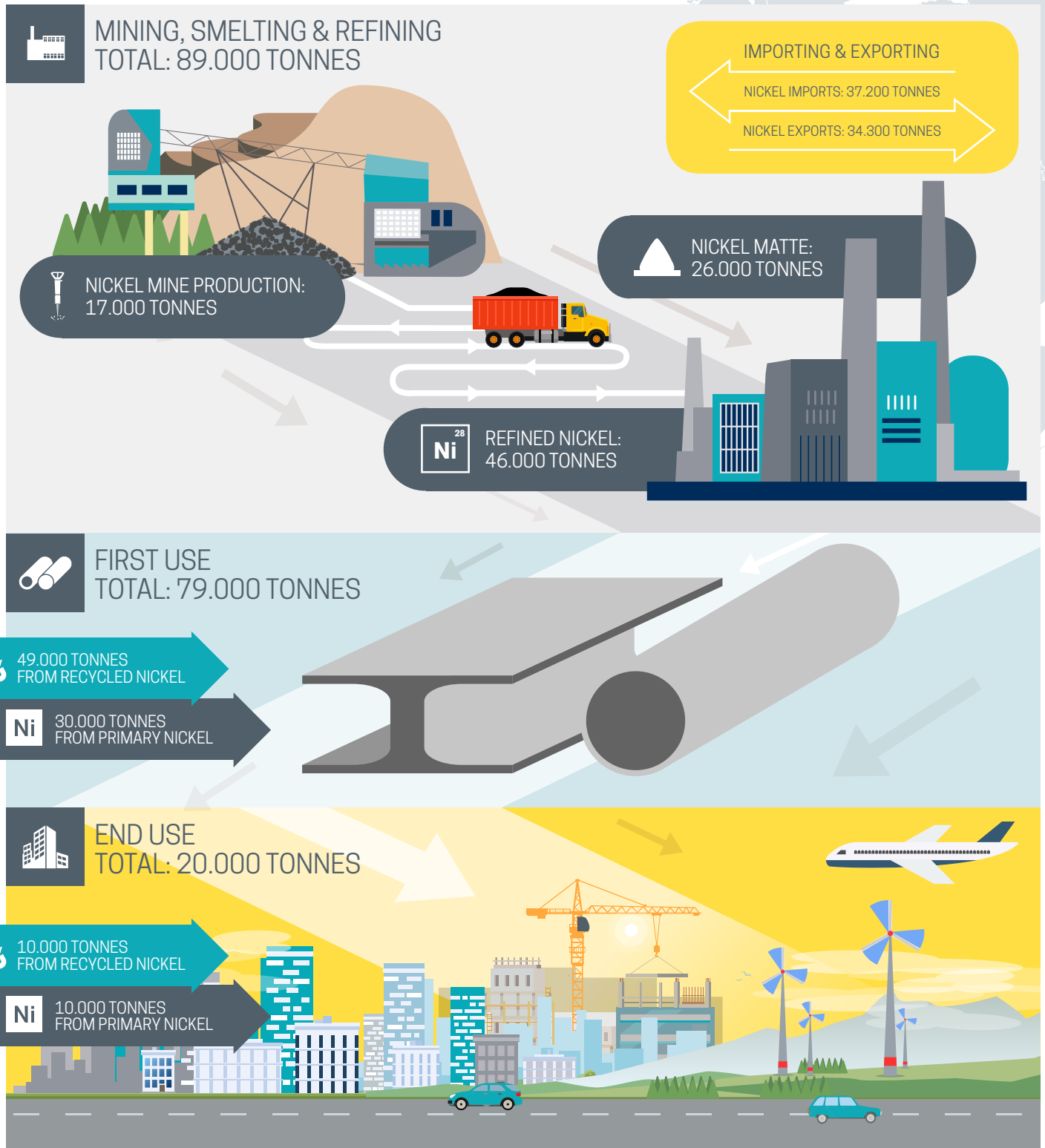


# Nickel in Europe

## FINLAND

OVERALL TONNAGES: 188.000 TONNES



### DEFINITIONS

**Nickel matte:** An intermediate product in the metallurgical processes with a nickel content varying between 30-60%.

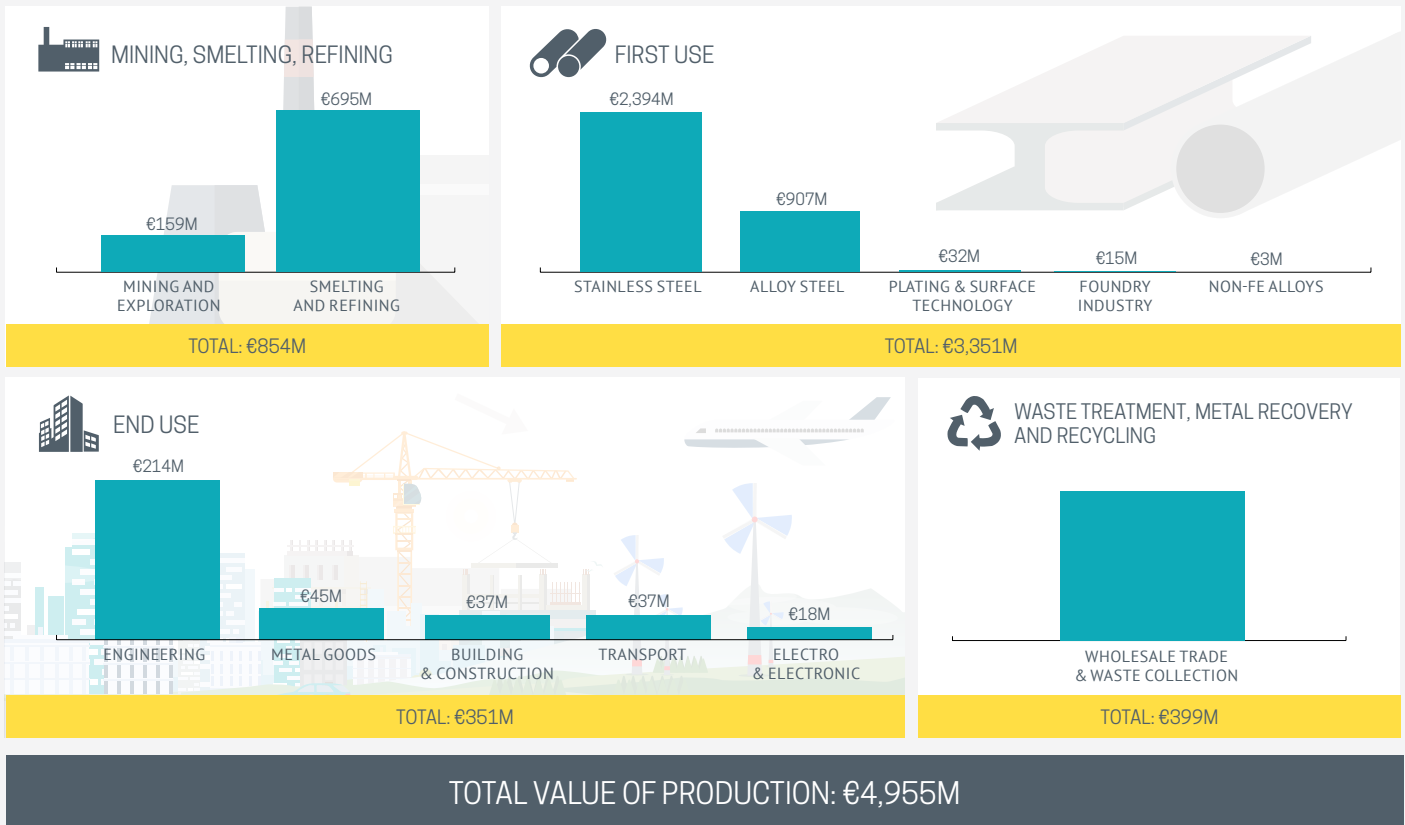
**First use of nickel:** Conversion of nickel into intermediate products, such as stainless steel and alloys, which form the basis for nickel-containing end use goods.

**End use of nickel:** Conversion of first use nickel products into final nickel-containing goods used in wide range of end use sectors, for instance building and construction, medical devices, batteries, electrical and electronic equipment, kitchen equipment and food processing, industrial equipment, transport & aerospace.

# Economic parameters

## ESTIMATED ANNUAL VALUE OF PRODUCTION\*

\* The production value is defined as turnover, plus or minus the changes in stocks of finished products, work in progress and goods and services purchased for resale, minus the purchases of goods and services for resale, plus capitalised production, plus other operating income (excluding subsidies) – Eurostat. Based on 2014 data.



## JOBS

■ Direct jobs ■ Indirect jobs

EXPLORATION & MINING: 1,631

SMELTING & REFINING: 1,521

FIRST USE: 16,969

END USE: 4,495

WASTE MANAGEMENT & RECYCLING: 300

TOTAL: 24,916

## ESTIMATED ANNUAL VALUE ADDED\*

■ Indirect value added ■ Direct value added

EXPLORATION & MINING: €76M

SMELTING & REFINING: €224M

FIRST USE: €1,324M

END USE: €234M

WASTE MANAGEMENT & RECYCLING: €85M

TOTAL

€1,317M

\* Value added at factor cost is the gross income from operating activities after adjusting for operating subsidies and indirect taxes. [...] It can be calculated from gross operating surplus by adding personnel costs – Eurostat. Based on 2014 data.\*

€626M

**TOTAL VALUE ADDED: €1,943M**

### Sources

Based on Socio-Economic Analysis of Nickel in the EEA: Database and Evaluation tool, Dr. Ying Zhu et al., ReachLaw & Dr. Gerhard C. Pariser, Heinz H. Pariser Alloy Metals & Steel Market Research, 2016-7  
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