

Competitiveness with digital product passports Case: Sandvik

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SANDVIK MINING AND ROCK SOLUTIONS

REVENUES

~65 BSEK

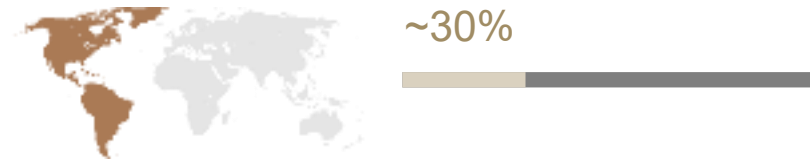
EMPLOYEES

~17 000

SALES BY SEGMENTS

SALES BY MARKET AREA

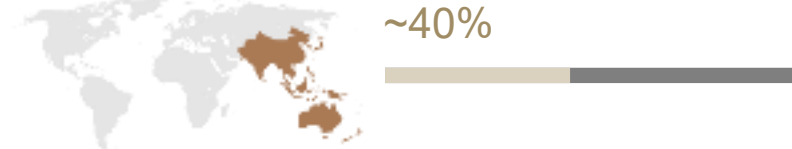
AMERICAS



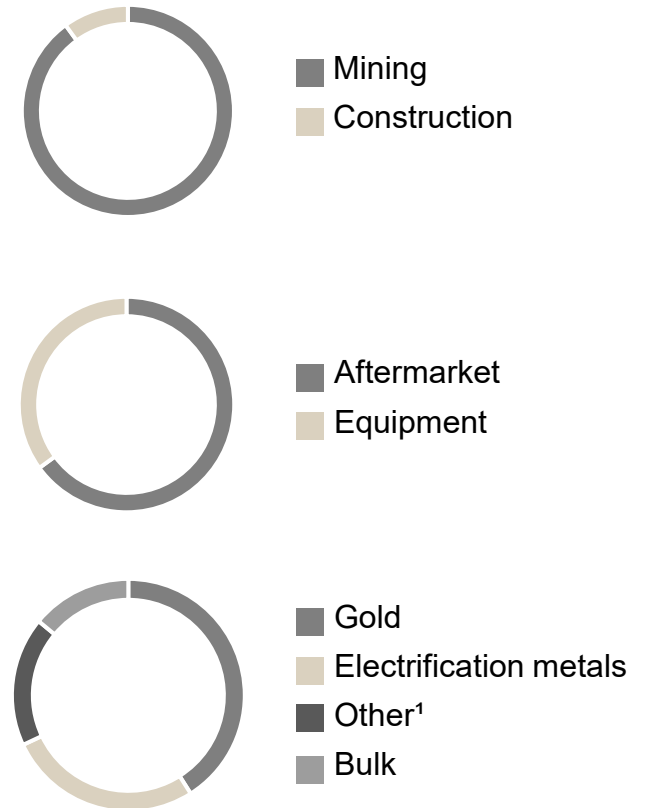
EMEA



ASIA PACIFIC



DIVISIONS





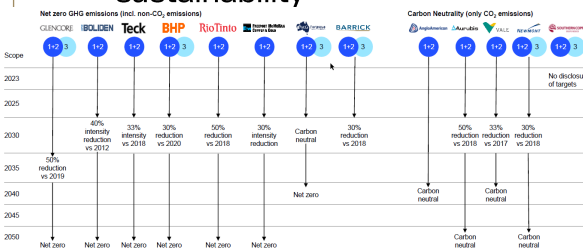
More Data – Case Sandvik

Why this was important – motivation ?

Growing demand for electric solutions - we sell battery electric loaders and drill rigs



- Interest to find new ways to produce value on the basis of shared data
- Growing customer requirements for transparency and sustainability



Corporate sustainability targets & EU level regulation



- DPP EU regulation around the corner
- Sandvik's sustainability objectives for circularity and CO2 reduction
- 50% reduction in CO2 and 90% circular by 2030

Data sharing over value chain and expected ERP integration burden



- Data sharing practices and industrial data space experiments
- Data sharing rules
- Standardization of industrial data not in place
- Identification of data assets

Co-operation and industrial per learning



- SIX Mobile work machines bringing companies together to solve common challenges
- Sitra extensive data economy background

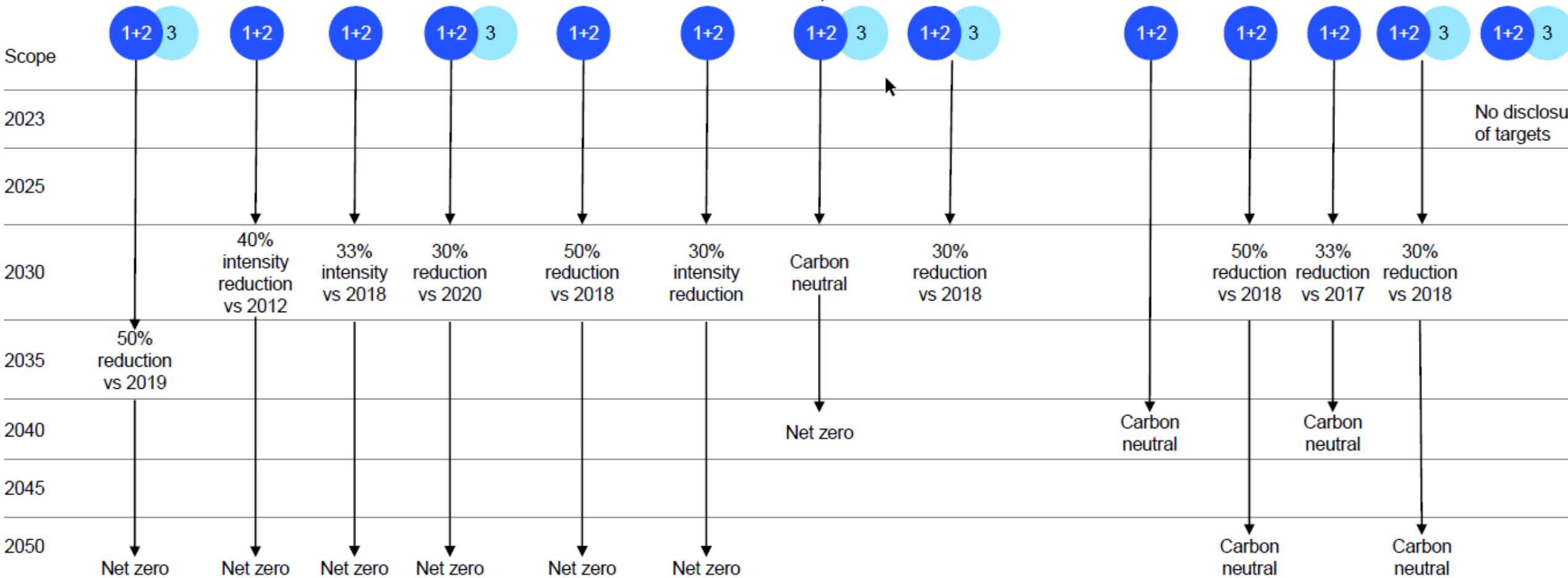


More Data – Case Sandvik

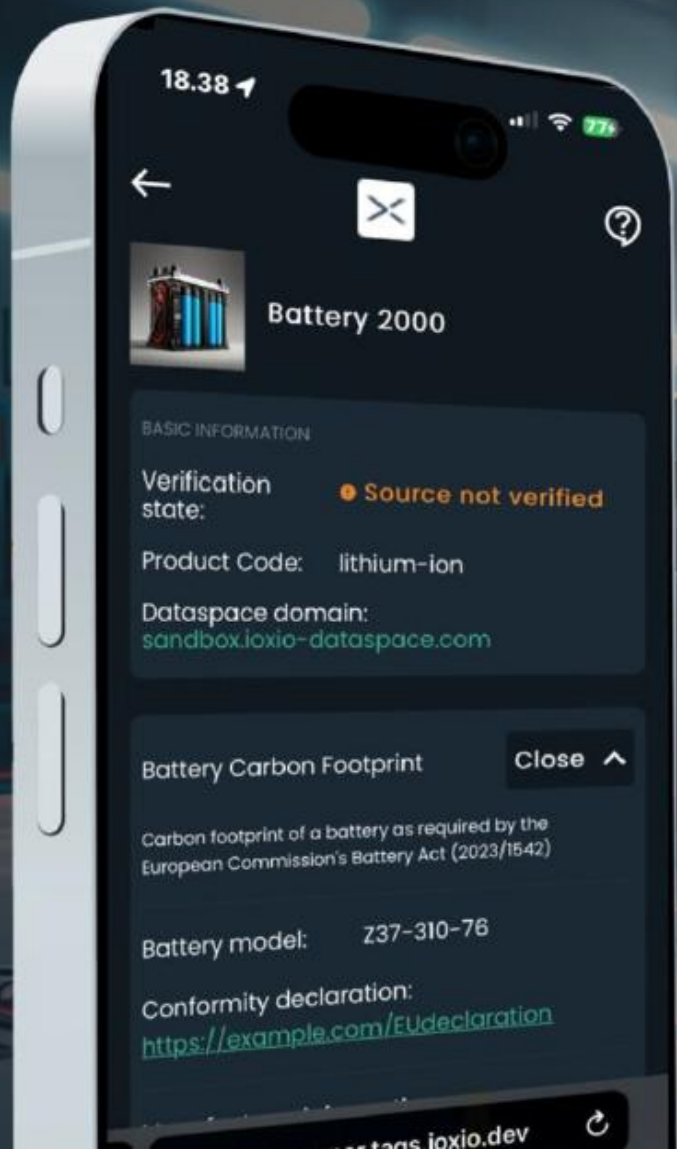
Why this was important – motivation ?

Net zero GHG emissions (incl. non-CO₂ emissions)

Carbon Neutrality (only CO₂ emissions)



No disclosure of targets





Digital Battery Passport – Pilot

AS BUILT DATA...

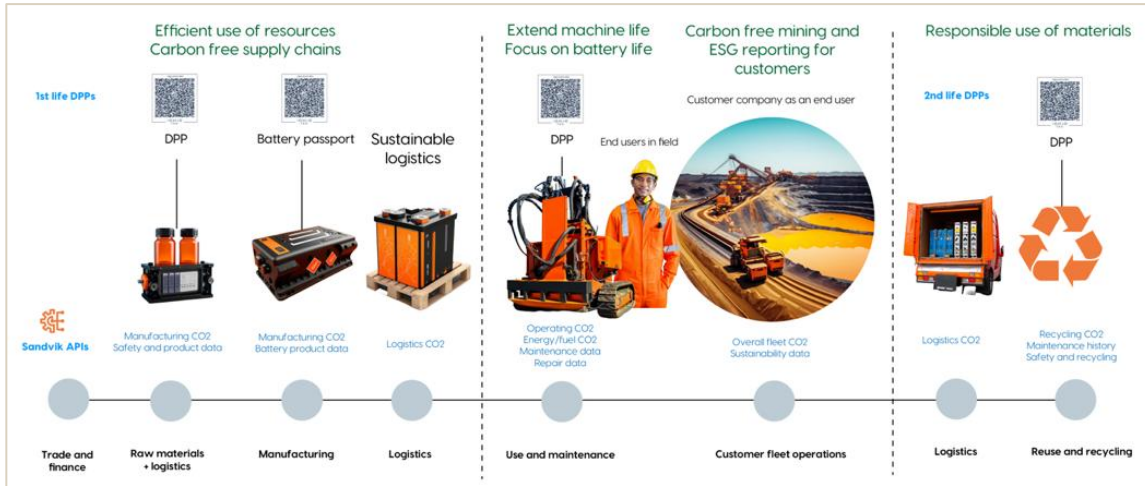
- Battery manufacturing data sheet

AS USED DATA...

- Battery operative and health data

AS RE-CYCLED/USED

- Battery end of life treatment data



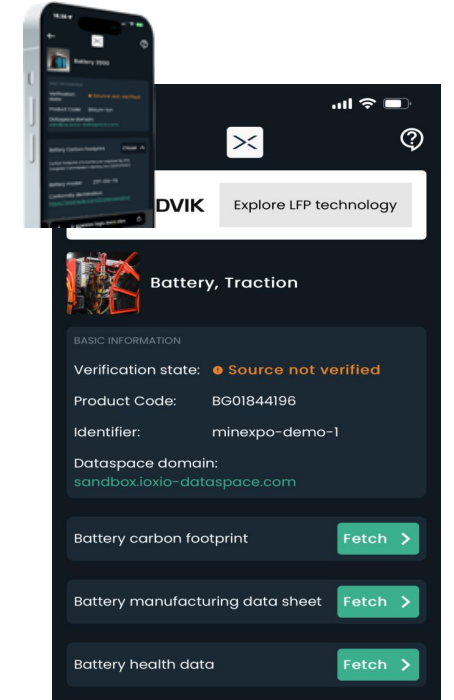
DIGITAL PRODUCT PASSPORT PILOT SPECIFICATIONS

- First of a kind digital battery passport created and demonstrated
- Industrial data space piloted for data sharing
- Real data extracted from real data locations
- EC Battery Act 2023/1542



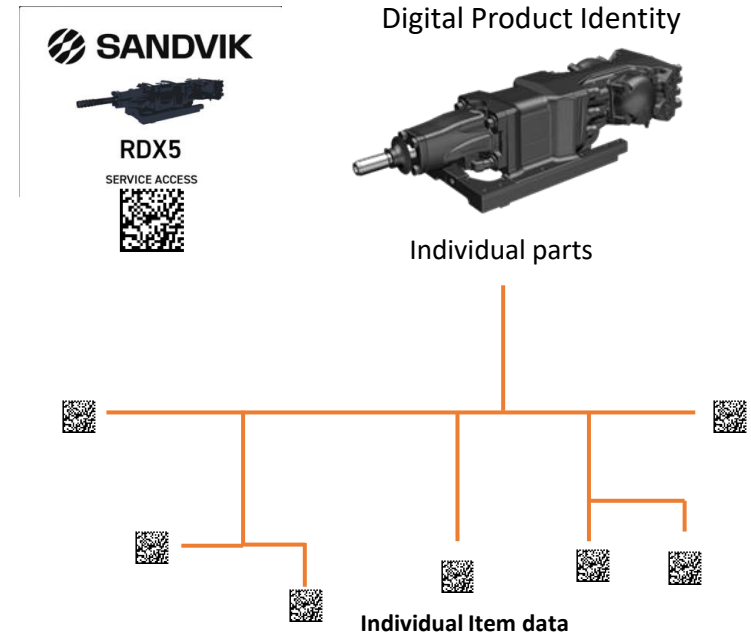
DPP PILOT INTRODUCTION IN MINEXPO 2024 - LAS VEGAS

- Customer feedback and reactions
- Food for thought and ideation for further development
- Project was selected into the list of the [‘Most Interesting Data Economy Solutions’](#) by Finnish Innovation Fund Sitra





Digital Product Passport – Future business opportunities



New business identification



- Digital product identities beyond batteries to other components
- Harnessing multi party produced data for new value creation
- Mapping of data assets
- Use case mapping for data over value chain and life cycle
- Value research: what value we could produce, to whom and how the value appears
- Digital birth certificate
- Digital BOM
- Relationship examples: Part belongs to some sub-module, that is used in the module X, that is used in machine X, that is located in place X, that is owned by company X



Components and systems align in the same data stream



Questions



Thank you!
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SANDVIK

