

Solutions to today's challenges often have digital components

Dominant trends

Shorter time to market	Production efficiency	Transparency
Value creation in networks	New business	Incumbents challenged

Emerging trends



We decided to focus into three areas



Customer Portal

CRM - Salesforce

Marketing automation



Production digitalization

Software robotics



SmartSteel



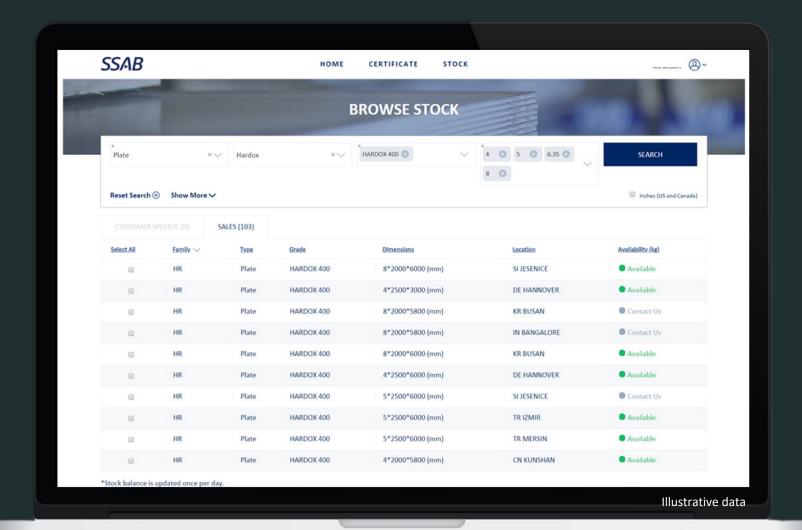




New customer portal being launched

First release enables stock availability checks and material certificate downloading

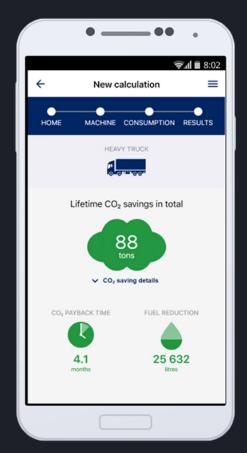
New services being developed based on customer feedback

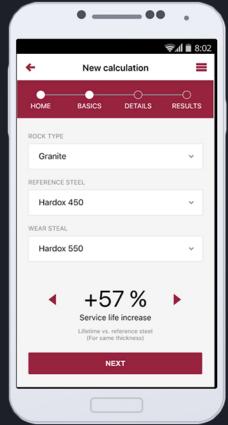




Mobile becomes a stronger service channel







Mobile application development roadmap

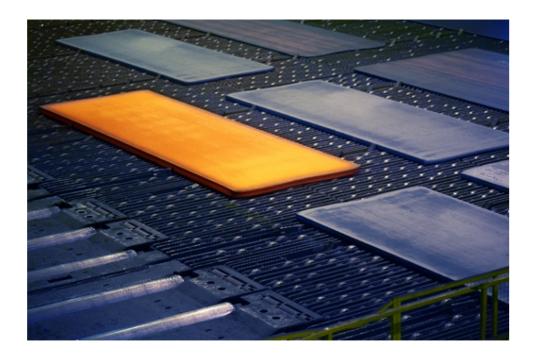
- ▶ WearCalc[™]
- SmartSteel
- ➤ WeldCalc[™]
- ▶ EcoUpgraded™
- ▶ BendCalc™
- ➤ WeldSelect[™]





Production digitalization

- ► Focus in data management
- Priority for projects improving stability, quality management and safety
- ► R&D for e.g. Al use in process optimization



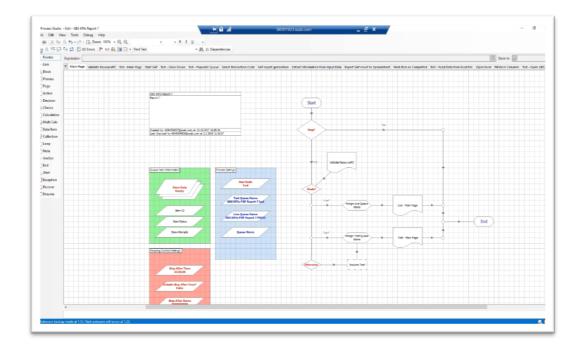




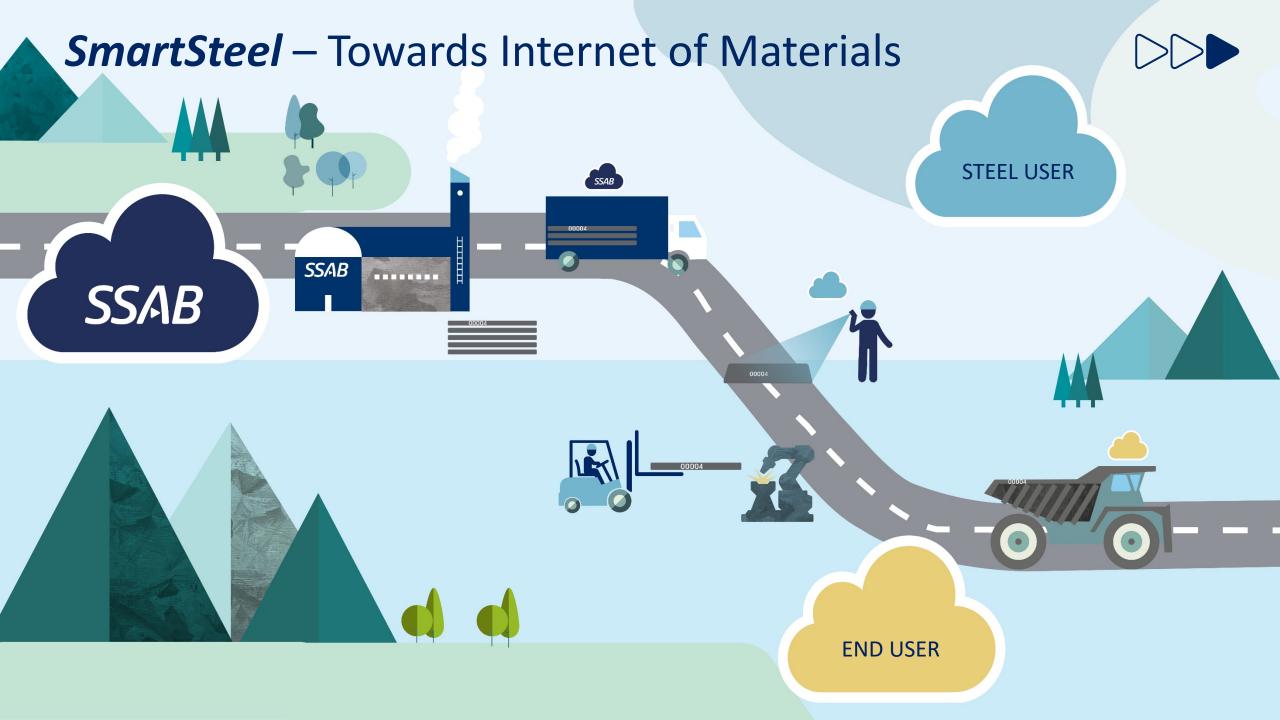
Software robots are automating our administrative processes



- ➤ Automation of administrative process steps that require repetitive and rule based human actions
- ► Robot "mimicking" the manual user









SmartSteel being developed on three levels

Short term

Rollout and improve **SmartSteel 1.0**

Mid-term

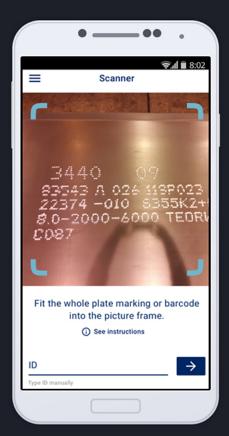
Pilots aiming for further releases. Focus in machine adjustment and improved connectivity

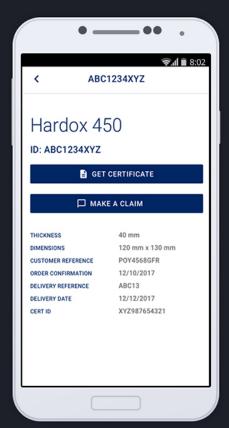
Long term

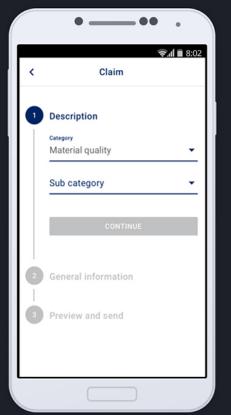
Research for breakthrough technology in steel recognition



Launching first release of SmartSteel









SmartSteel 1.0



Innovation challenge to find unique steel fingerprint











Nordic co-operation in three industrial ecosystems



Steel recognition research
SmartSteel concept development



Pilot projects with customers and stakeholders



Customer Pilots

Reference architecture

Concept development



