

Resand®

Hiekka ehtyvää luonnonvara

Jätehuoltopäivät
9.10.2024





Kalle Härkki
Chief Executive Officer

3 years with Resand
+25 years of industry experience





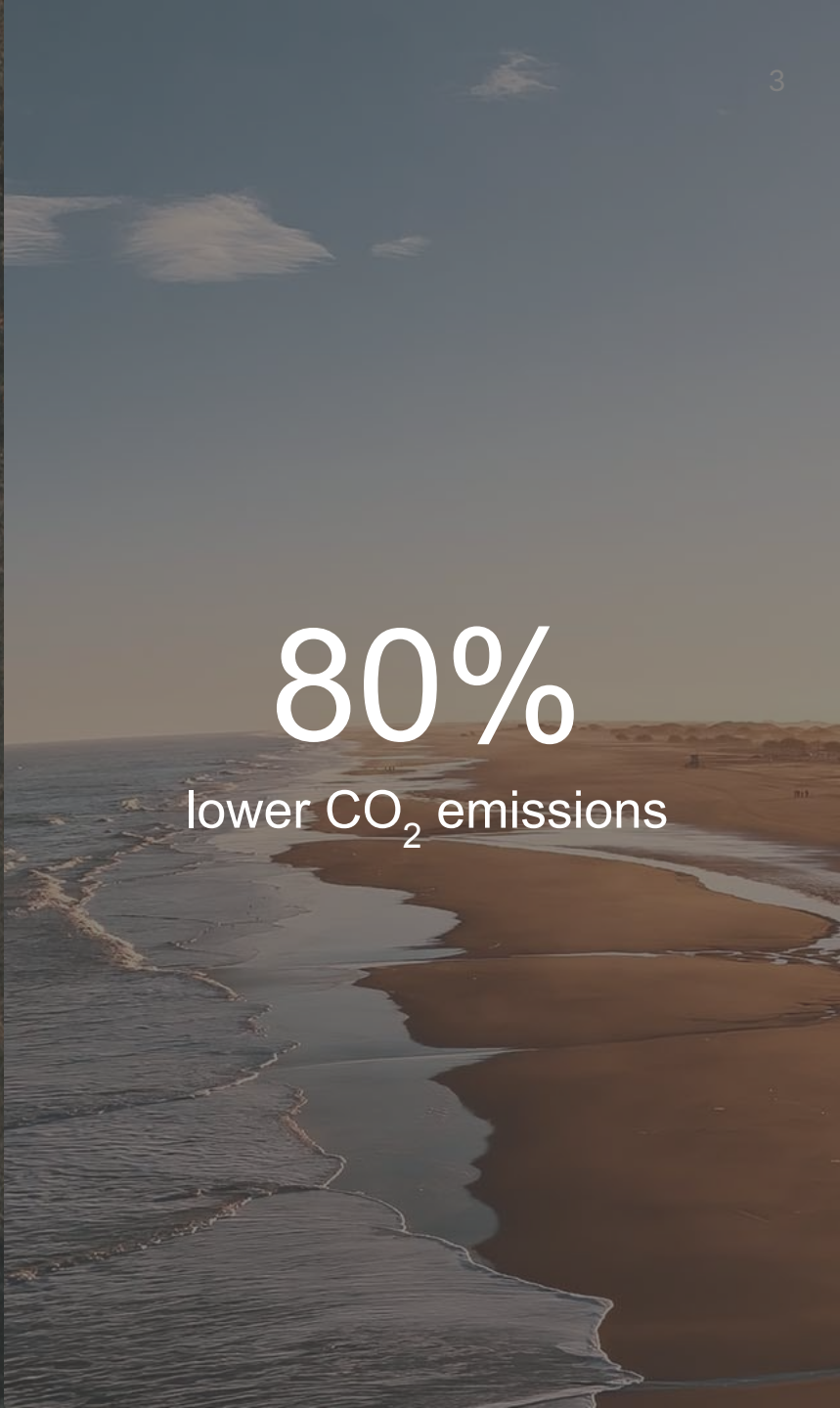
70
million

tons of waste sand
produced by foundries
every year



10-15 %

lower sand related costs



80%

lower CO₂ emissions

A woman with dark hair, wearing a dark blazer over a light-colored top, is speaking. The background is a blurred office environment with desks and chairs. The text is overlaid at the bottom of the frame.

of changing the ecosystem
for Maya and Aurora.

Resand in brief

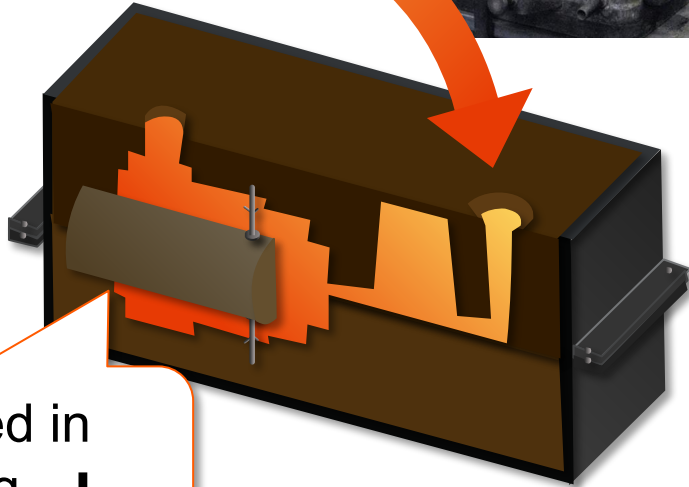
- A technology company specialized in foundry sand regeneration and recycling
- Sand As A Service solution enables almost 100% recycling of foundry sand
- Resand aims to achieve strong growth in the European foundry market and to expand its business outside Europe
- Founded in 2013, headquarters in Nuutajärvi, Finland



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Sand is a critical part of foundry casting process

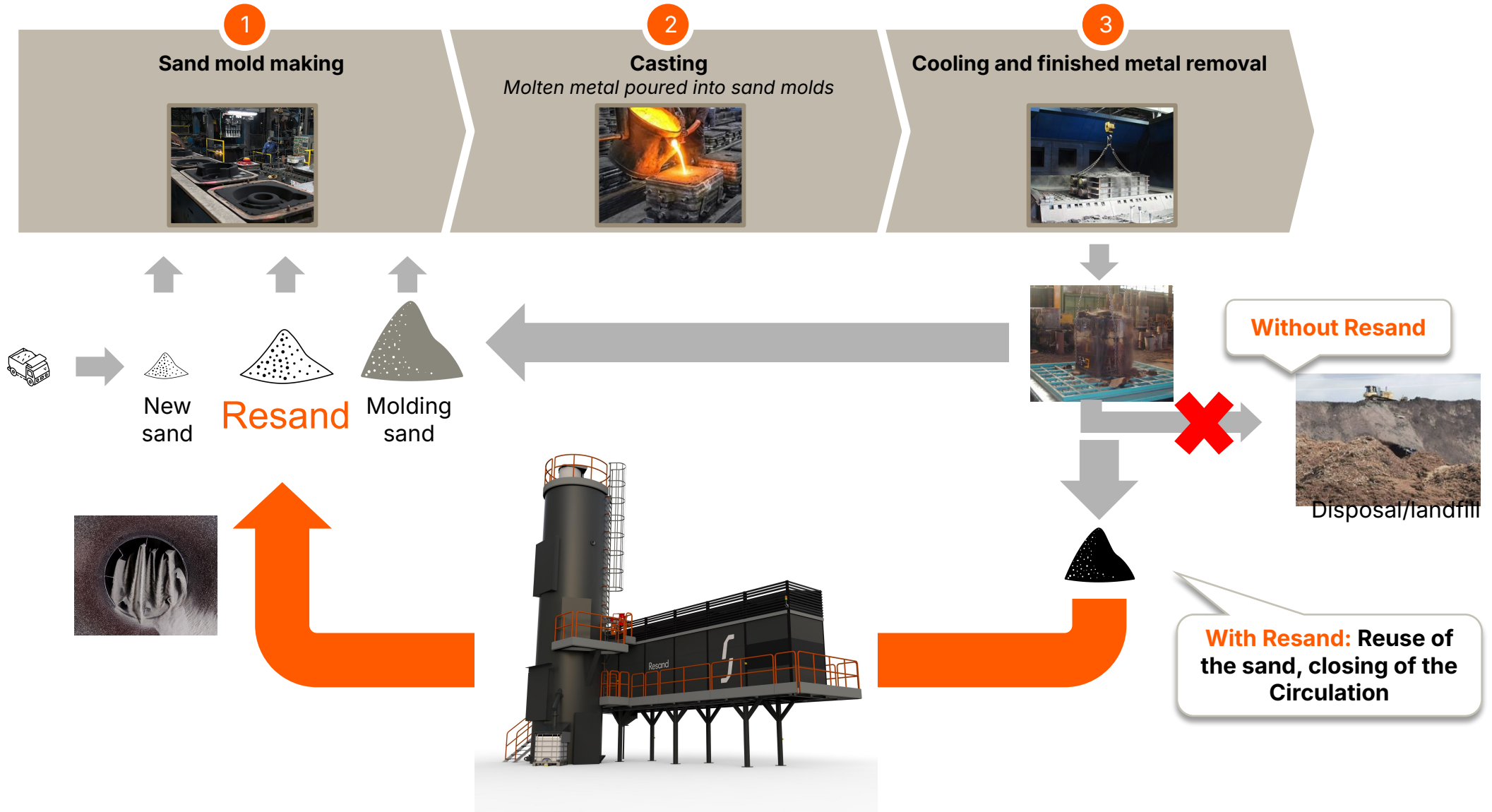
Molten metal
poured into the mold



Sand used in
casting
Resand



Resand® Resand will regenerate the waste sand into core sand



Industry challenge #1 – World is running out of sand



UN Sand and sustainability report 2022



! World is running out of virgin sand as sand is the second most exploited natural resource in the world after water (~50 billion tons of sand used globally each year)

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Industry challenge #2 – Increasing cost of disposal of waste sand



Challenge

- **EU's Landfill Directive** heavily regulates and limits the usage of landfills as places of waste disposal¹⁾
- Spent foundry sand cannot be used in the construction industry without subsequent treatment
- New laws in **Spain** regarding recovery rate of used foundry sand (80% in 2025) and prohibition of dumping it in 2025²⁾



Increasing challenge for foundries to dispose waste sand

Resand Resand technology eliminates the spent foundry sand disposal problem

Resand® pressure

Industry challenge #3 – ESG regulations and legislation puts

What will change

- **ESG has become critical for companies.** According to the Corporate Sustainability Reporting Directive (CSRD) adopted by EU, companies will very soon face **non-financial reporting obligations**
- Many regulations are aimed at making data and progress towards sustainability targets **more transparent and standardized**
- The ESG reporting requirement includes the collection of data on environmental issues, human rights, anti-corruption, and corporate governance

How foundry industry is influenced

- Foundries have historically been in a business environment, where **cost driven decision making has dominated the business climate**
- Foundries' end-customers have become **more aware of the carbon footprint** foundry products will bring with them
- This change in fundamental business environment **puts pressure on all size of foundries**, because if not adopting EU Directives, **end-customer will seek alternative suppliers**
- Winners will be companies who are able to demonstrate **superior performance in ESG and stay cost competitive**, simultaneously

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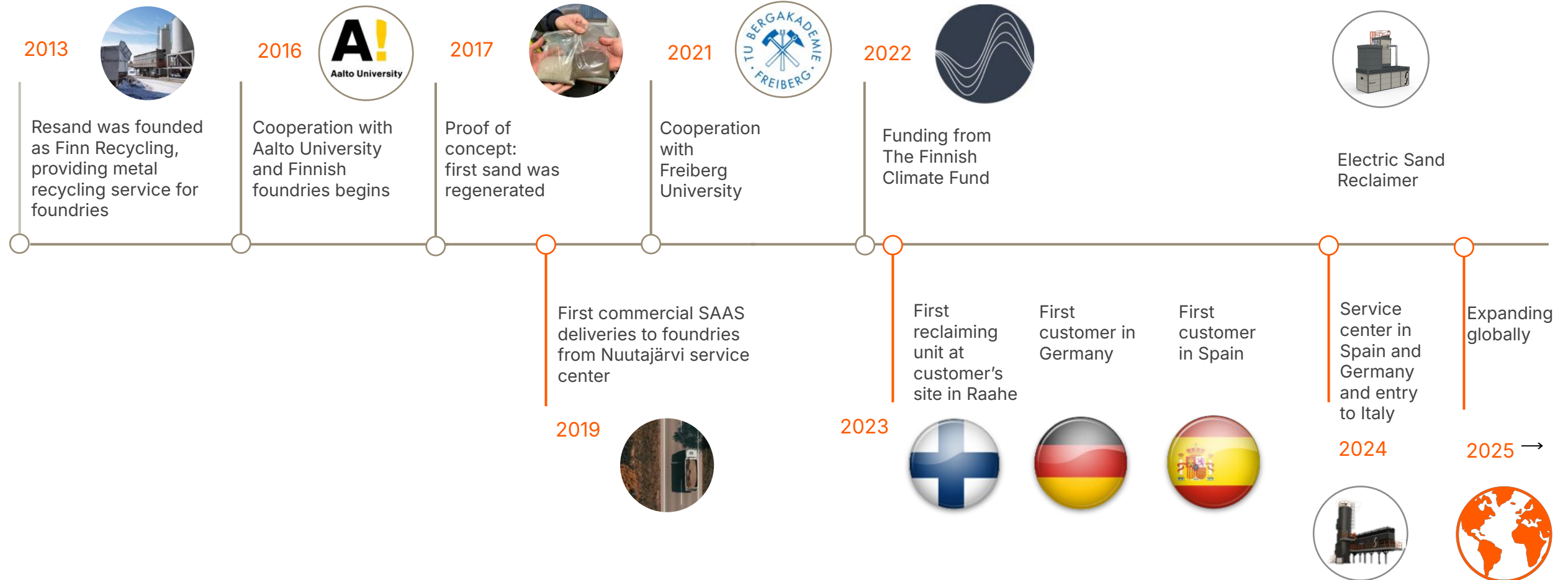
Resand solution is selected as the BAT (Best Available Techniques) for foundries sand reclamation, excellence in sand quality and demonstrated cost savings, simultaneously

Resand® Business model with strong customer value proposition



- ✔ Sand as a Service business model (Annual Recurring Sales)
- ✔ Designed & engineered in Finland. Proof of technology, in commercial operation since Jan 2019
- ✔ IP and black box automation protected globally
- ✔ Cloud based operations and local service concept
- ✔ Highly scalable production, outsourced

Building a global presence in sand regeneration



Resand