

# Succeeding with hydrogen fuel switch

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Nothing is possible.

Hydrogen breakthrough

# World's first aluminium made with green hydrogen

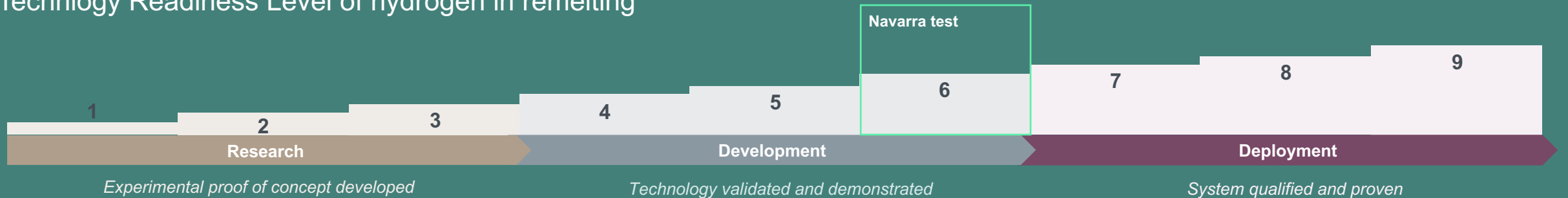
- Industrial scale test in Navarra, Spain, June 2023
- Proving H2 can replace natural gas with:

1. High metal quality
2. High energy efficiency
3. Great safety performance

«Operations just like natural gas»

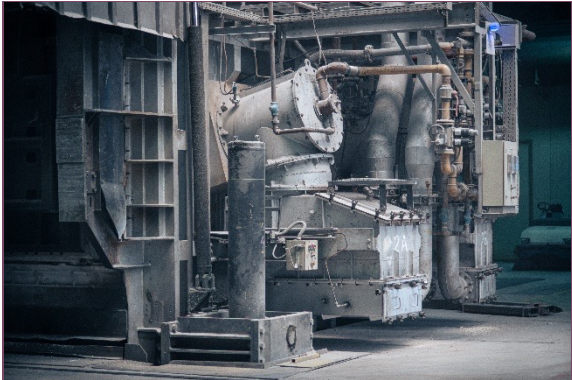


Technology Readiness Level of hydrogen in remelting



# New technologies in industrial applications

Broad implementation require evidence and confidence of acceptable implications on key processes



For all equipment & systems



During all operating modes



For all raw material qualities



For all product qualities

Safety

Product quality

Production capacity

Efficiency

Reliability

Emissions

Operability

Maintainability

Economics

# Let's succeed in the fuel switch!

1 Understand how and where the change will have an impact

2 Prove solutions and demonstrate capabilities

3 Ensure highest safety standards

Bridge the knowledge gap



HAVRAND |   
Hydro