



CLEVR

# Are you facing challenges with digitizing your manufacturing processes?

Find inspiration from a Hydrogen company.





# Growing Demand for Green Hydrogen

With the market set to reach \$12.8 billion by 2030, expanding production and efficiency is crucial for Hydrogen companies.

**Nel Hydrogen**, a leader in electrolysis equipment, faces scaling challenges. The journey towards modernization and growth is complex, requiring strategic partnerships to manage increased demand.





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Where we came from, a lot of processes were manual and the way we handled data in projects was highly manual too. We needed to automate and professionalize the way we handle projects and deliveries, and we need to continue that process. So, I think that's the biggest challenge we have, besides the fact that technology is developing all the time, and it's developing quickly.

”

**Torsten Mann** | Director of Product Engineering at NEL Hydrogen





# Challenges Faced by Nel Hydrogen

## Manual Processes

Traditional methods limited scalability and efficiency.

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## Operational Efficiency

Needed to modernize operations to meet green hydrogen demand.

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## Information Flow

Ensured seamless data flow and up-to-date documentation.



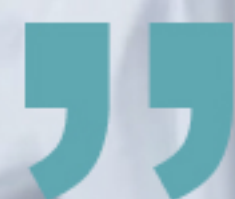


# CLEVR X NEL HYDROGEN

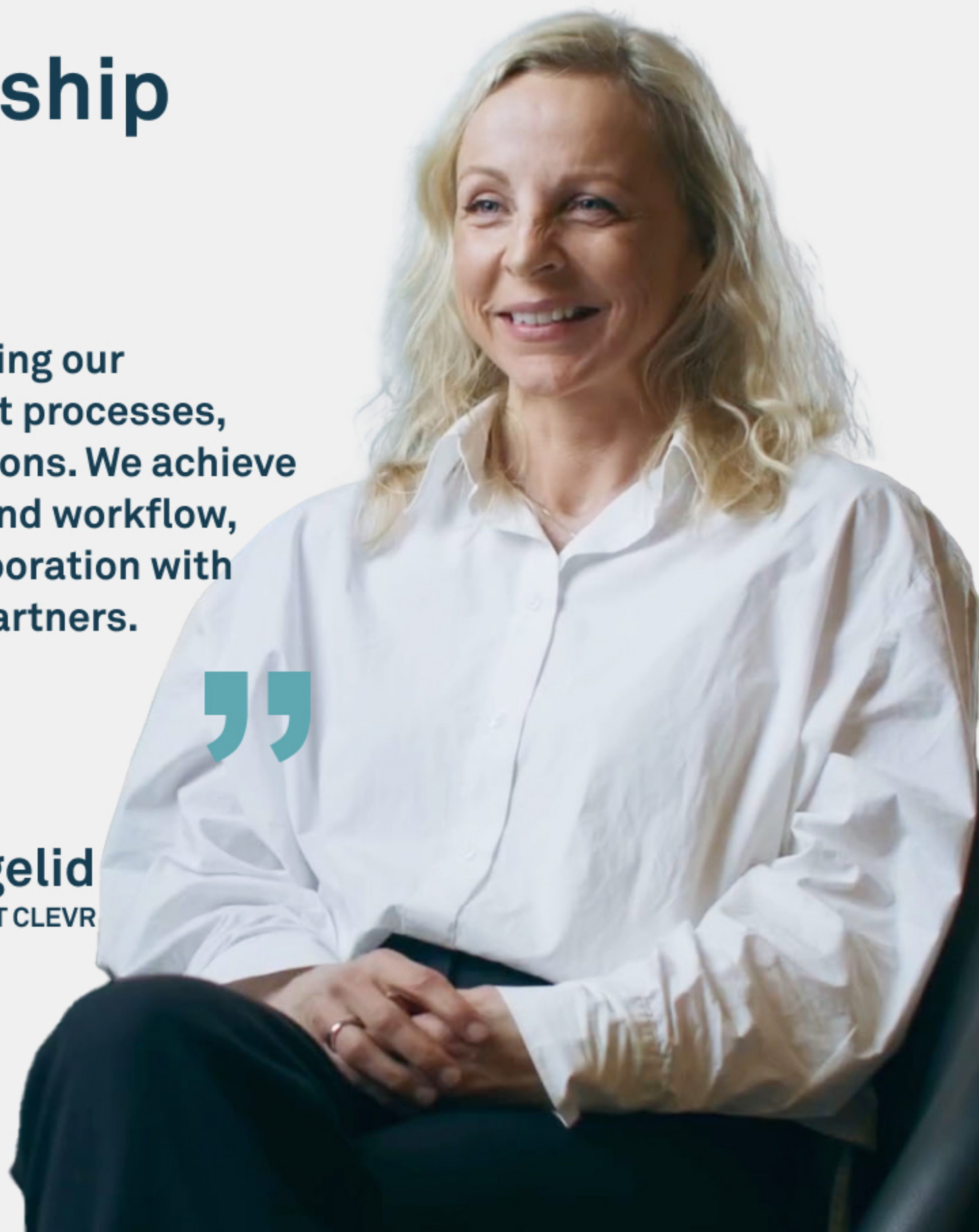
## The Partnership



Our priority lies in providing our customers with the finest processes, leading to the best solutions. We achieve this through an end-to-end workflow, developed in close collaboration with Siemens and our other partners.



— **Hanne Lill Dregelid**  
HEAD OF BUSINESS CONSULTANCY AT CLEVR

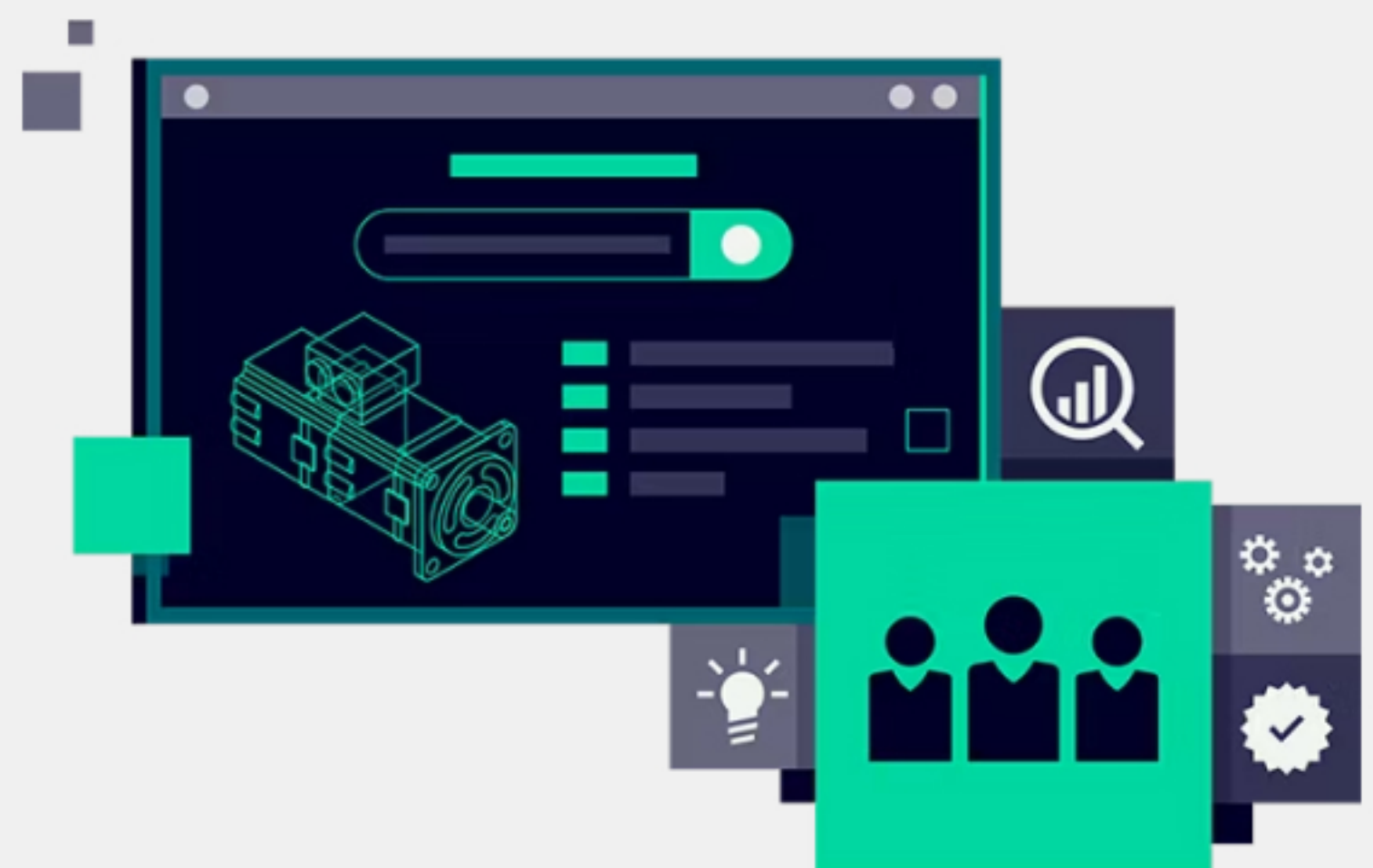




# Solution

## Implementing Teamcenter by Siemens

The project marked a transformative journey for Nel Hydrogen, integrating Teamcenter after a detailed assessment with Siemens and CLEVR. Chosen for its robust capabilities and seamless ERP integration, Teamcenter significantly improved procurement data transfer and operational efficiency.



# Methodology



## ASSESSMENT AND INTEGRATION

Chose Teamcenter after assessment with Siemens and CLEVR. Seamless ERP integration improved procurement data transfer.

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## OPERATIONAL EFFICIENCY

Improved efficiency through better data management. Established data model and captured internal processes.

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## DOCUMENT MANAGEMENT

Configured fixed templates (Word and Excel) for ease of use.

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## CAD INTEGRATION

Migrated CAD data from previous system to Teamcenter. Included all standard parts and design structures of two products.





“

**Productivity has increased dramatically since we moved production to the Heroya Facility, scaling it up by 10x and achieving a capacity of 500 MW. We transitioned from completely manual processes to a fully automated production line, marking a world first**

”

**Torsten Mann**

**PRODUCTS & ENGINEERING DIRECTOR  
NEL HYDROGEN**







**CLEVR**

Build Tomorrow Together