

## Hytros Safe transport and storage onshore and offshore\*

\* Offshore - a unique selling point for NL

Start	April 2024			
Subsidy	€ 14.236.764			
<b>Private contribution</b>	€ 3.719.524			
Leadership	René Peters (TNO), David Smeulders (Eindhoven University of Technology)			
11 universities	2 research institutes 2 universities applied science	19 industrial partners		







**OF APPLIED SCIENCES** 

## **Research Tasks**

**WUS UNIVERSITEIT ROTTERDAM** 

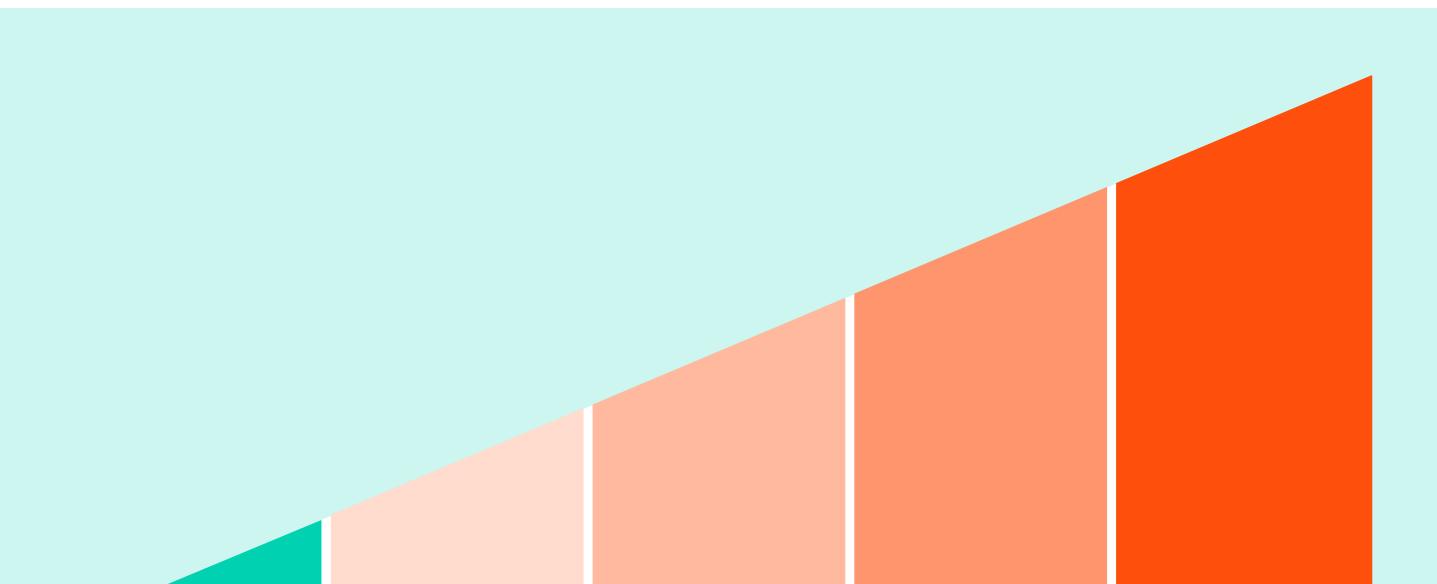






## GroenvermogenNL ambitions

Acceleration	
Scaling up	$\checkmark$
Reducing costs	$\checkmark$
Innovative ecosystem	
New talents	



inputs	activities	outputs	outcomes	impact
Experts & modern laboratories, talented researchers & other means.	Three technology based tasks: Infrastructure, Offshore & large- scale storage. Two tasks on integration & supporting aspects: safety standards and system integration.	Development of tools and methods. Development of safety standards. Inventory of risks on the integrity of large scale storage.	Stimulating synergy between offshore pipelines & reusing wells together with technical developments and standards for safe conduct. A roadmap for scaling a hydrogen system. Optimizing storage and reducing	Acceleration enhancing applicable knowledge on infrastructure and storage including degradation of materials. Scaling up through analyses helping implementing and accelerating hydrogen infrastructure.

risks (real-time data).

Sharing knowledge.

Reducing costs among

others by being able

to implement safety

standards. Innovative

ecosystem with new

participants in the

consortium. **New** 

talents because

approximately 25

hydrogen issues.

become involved in

PhD's are recruited and

2024	2025	2026	2027	2028	2029	2030	Beyond
<ul> <li>Start metho- dology</li> </ul>	<ul> <li>Modelling fatig</li> <li>Decision frame</li> </ul>		<ul> <li>Monitoring tools, risks assessments</li> </ul>	<ul> <li>Desalination</li> <li>Market modelli</li> <li>Safety protoco</li> </ul>	9	<ul> <li>End phase 1</li> <li>TR import</li> <li>Sensors</li> </ul>	