



Hydrogen and decarbonization mission  
Torino- 29 June / 1° July 2022

Blue App / University of Antwerp



# BlueApp

 Powered by UAntwerp

In collaboration with



And in collaboration with the Regional  
Innovation Clusters of Piemonte



per una crescita intelligente,  
sostenibile ed inclusiva  
[www.regione.piemonte.it/europa2020](http://www.regione.piemonte.it/europa2020)  
INIZIATIVA CO-FINANZIATA CON FESR

“BlueApp brings startups, corporates and researchers together under the same roof to demonstrate sustainable technologies that help society in protecting the environment and reaching climate neutrality”

## Water as a resource



- Chemical analysis
- Ecotoxicological analysis
- Waste water treatment
- Recovery of nutrients and precious materials
- Internet of water

## Carbon Capture and Utilization



- Material and catalyst development
- Electrochemistry
- Plasma technology
- Chemical reactor technology
- Process control (AI...)

## Hydrogen



- Production
- Photocatalysis
- Electrochemistry
- Plasma chemistry
- Transport and storage
- Reactor technology for hydrogen release

## Air quality



- Indoor and outdoor
- Analysis
- Chemical (VOC...)
- Biological
- Sensing/monitoring
- Air purification
- Photocatalysis



Offices: flex desks for researchers and companies

Labs (2000 m<sup>2</sup>): entrepreneurs in sustainable chemistry

Pilot facility (400 m<sup>2</sup>): from lab-scale to production – ceiling height up to 7m

Our activities

H2 Release Reactor – LOHC & Hydrates

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Hydrogen



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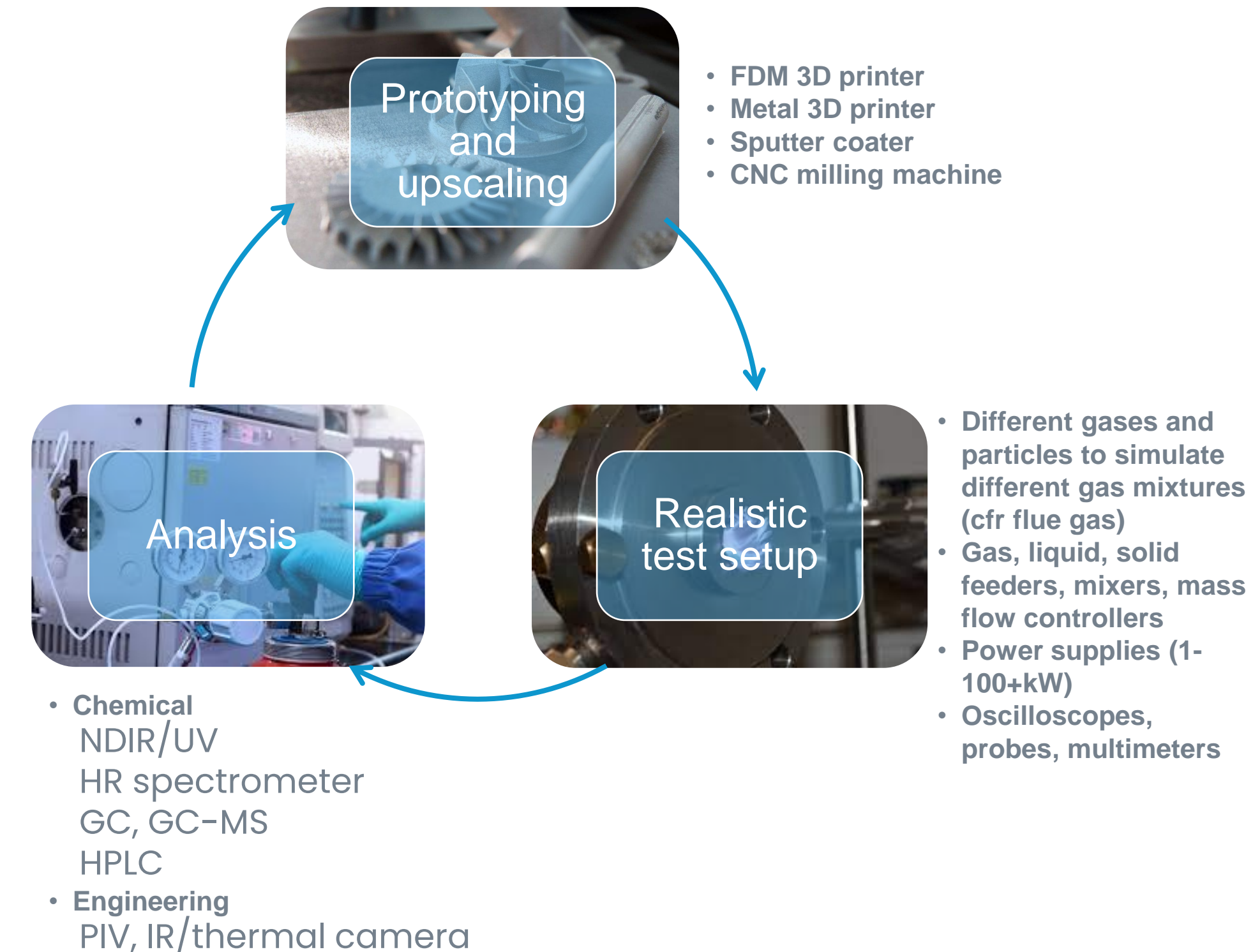
Plasma-based conversion processes



Electrochemical conversion processes



- *Scaling up and prototyping*



# What are we looking for

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*Why are you here? What would you like to find in this meeting?  
Projects/investments/initiatives that you are interested in  
New project partners? New clients? How should they be?*



**Extend our network:**

- Italian companies
- research institutes
- active in the field of Hydrogen & Sustainable chemistry

1. Partners for project proposals (HE/HER)
2. Investments (Blue App needs a lot...)
3. Offer support to Italian companies requiring a presence in Belgium



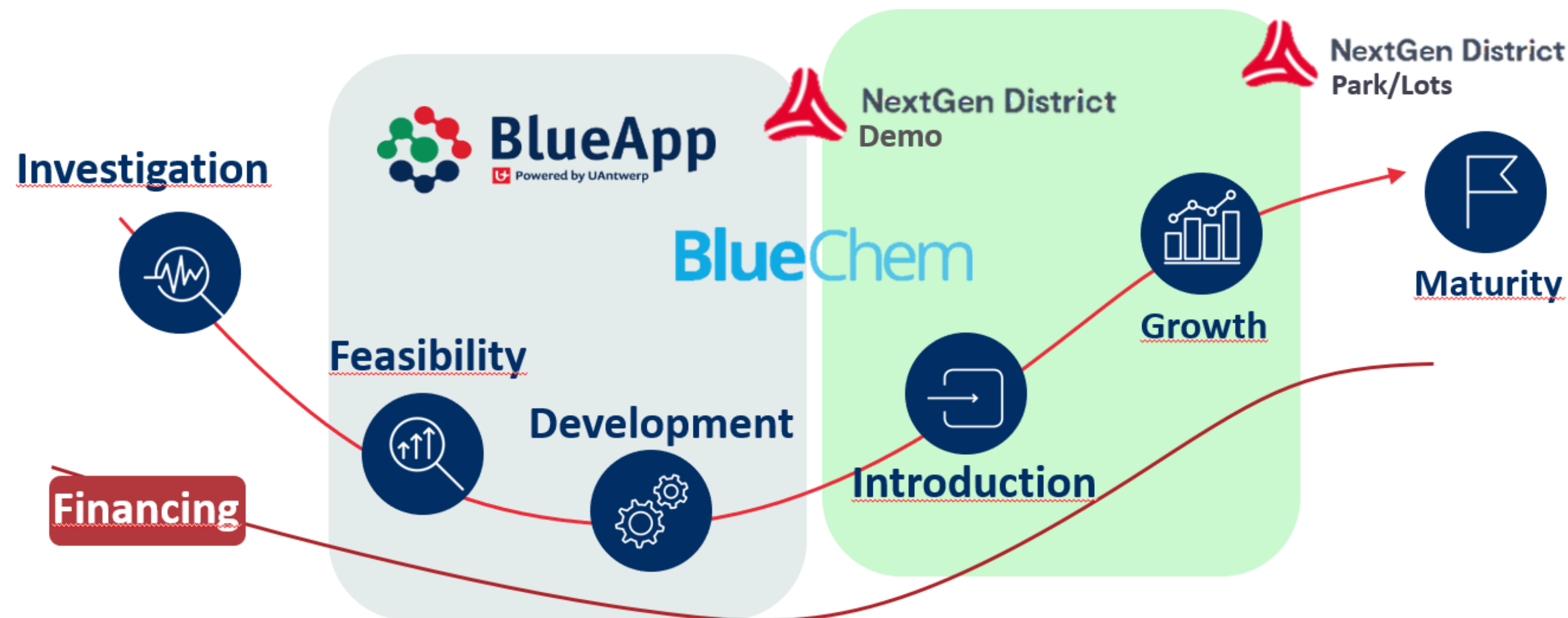
Politecnico di Torino



UNIVERSITA  
DEGLI STUDI  
DI TORINO



## The Antwerp region takes action to close the innovation gap – one ecosystem



Renting labs (private or shared)  
Renting equipment time (shared)



- Analytical and R&D services (short term)
- R&D projects (mid to long term)



- Scientific expertise (consultancy)
- Training
- Sponsorships

## Antwerp, its port, its chemical cluster and its knowledge institutes

- 2<sup>nd</sup> seaport in Europe
- 2<sup>nd</sup> chemical cluster in the world
- 19% of the GDP of the Belgian economy is generated in the Antwerp region
- UAntwerp, an entrepreneurial university
- Key in achieving climate ambitions





<https://www.blueapp.eu/en>



<https://www.linkedin.com/company/blue-app>



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