

IBERIAN RESEARCH CENTRE ON ENERGY STORAGE

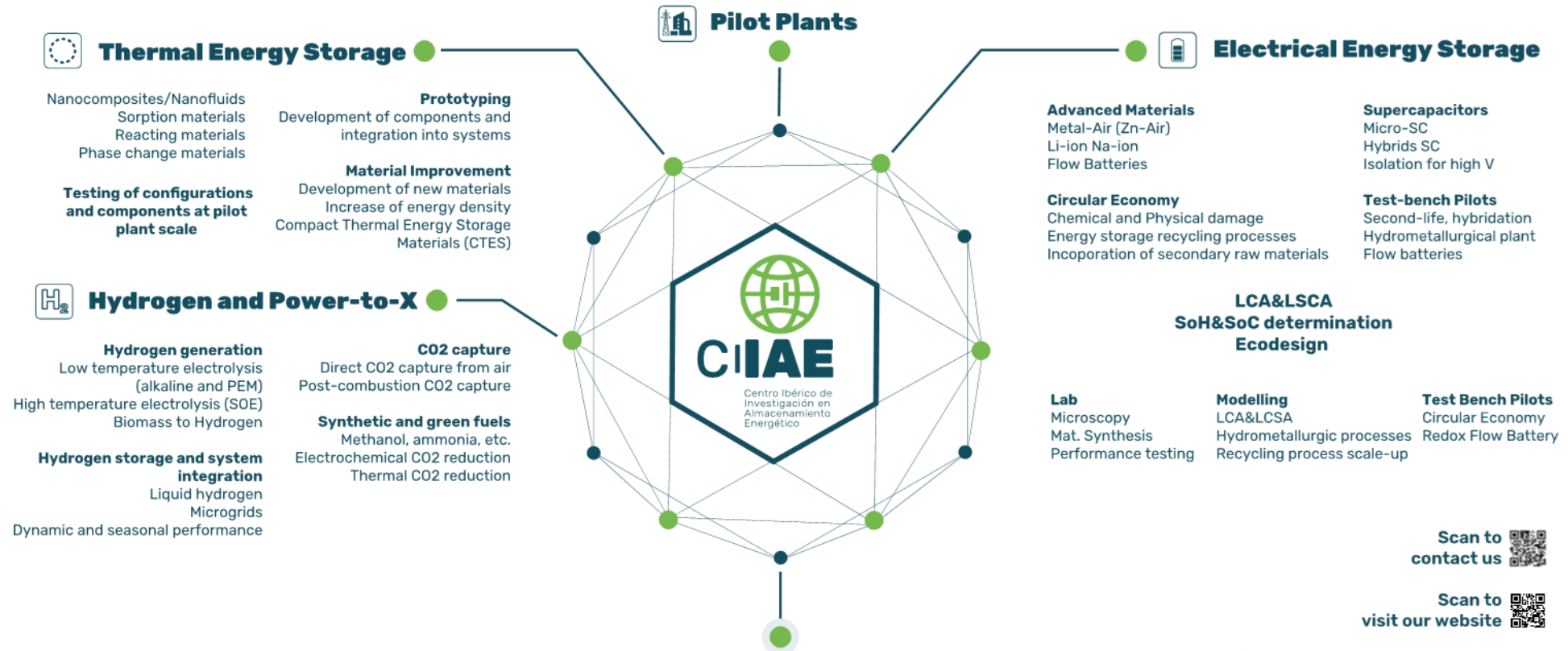
“Hydrogen: The missing piece of the puzzle for climate neutrality?”

March 21st , 2023

Irene Palomino

Delegate of Fundecyt-Pctex and Supporting entity of the
Iberian Centre for Research in Energy Storage (CIIAE)
Spain & Portugal

On the MW scale
Testing and validation of systems and components
Plants designed to be flexible and fully controllable
Dedicated building with 2000 m2 and adjoining workshops and outdoor facilities



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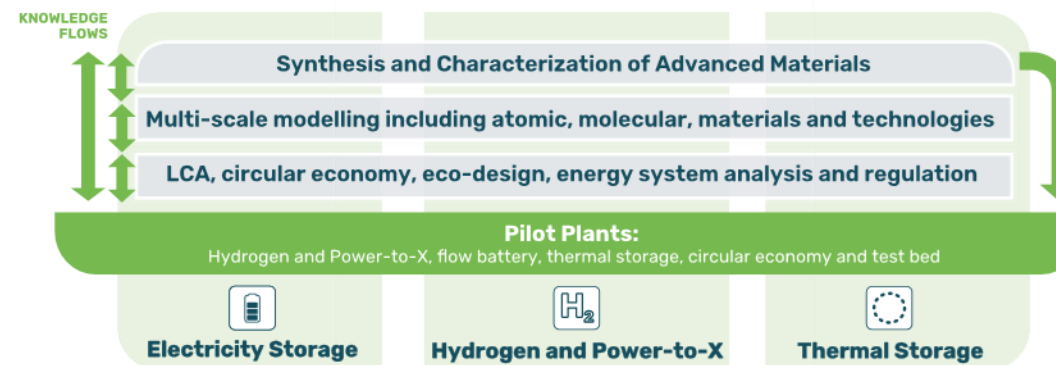


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CIIE STRUCTURE

vertical and horizontal research lines



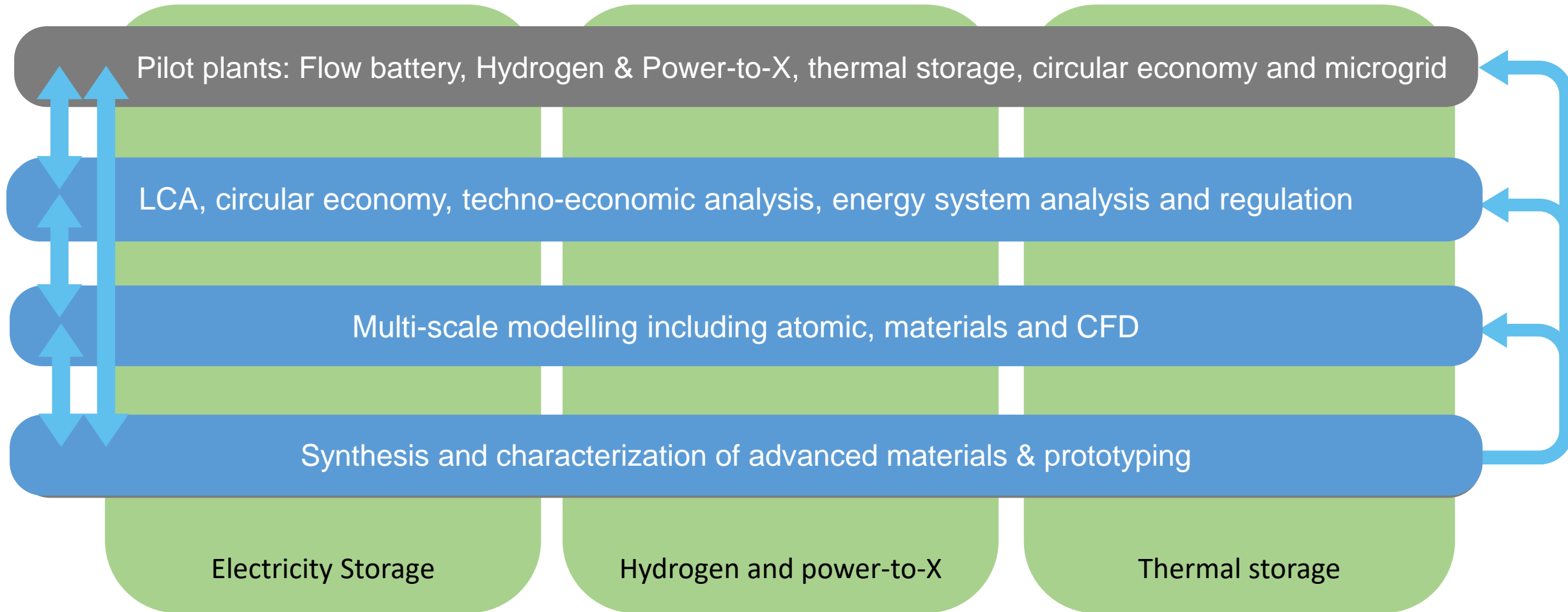
CIIE

Centro Ibérico
de Investigación
en Almacenamiento
Energético

4th November 2022 was a key date



Research structure and strategy



Pilot plants

- *Testing and validation at high TRLs*
- *Public-private collaboration*
- *Own and third party developments*

Dedicated building with 2,000 m2 and attached workshops and outdoor facilities



Plants designed to be flexible and fully controllable



Testing and validation of systems and components



On the MW scale



PILOT

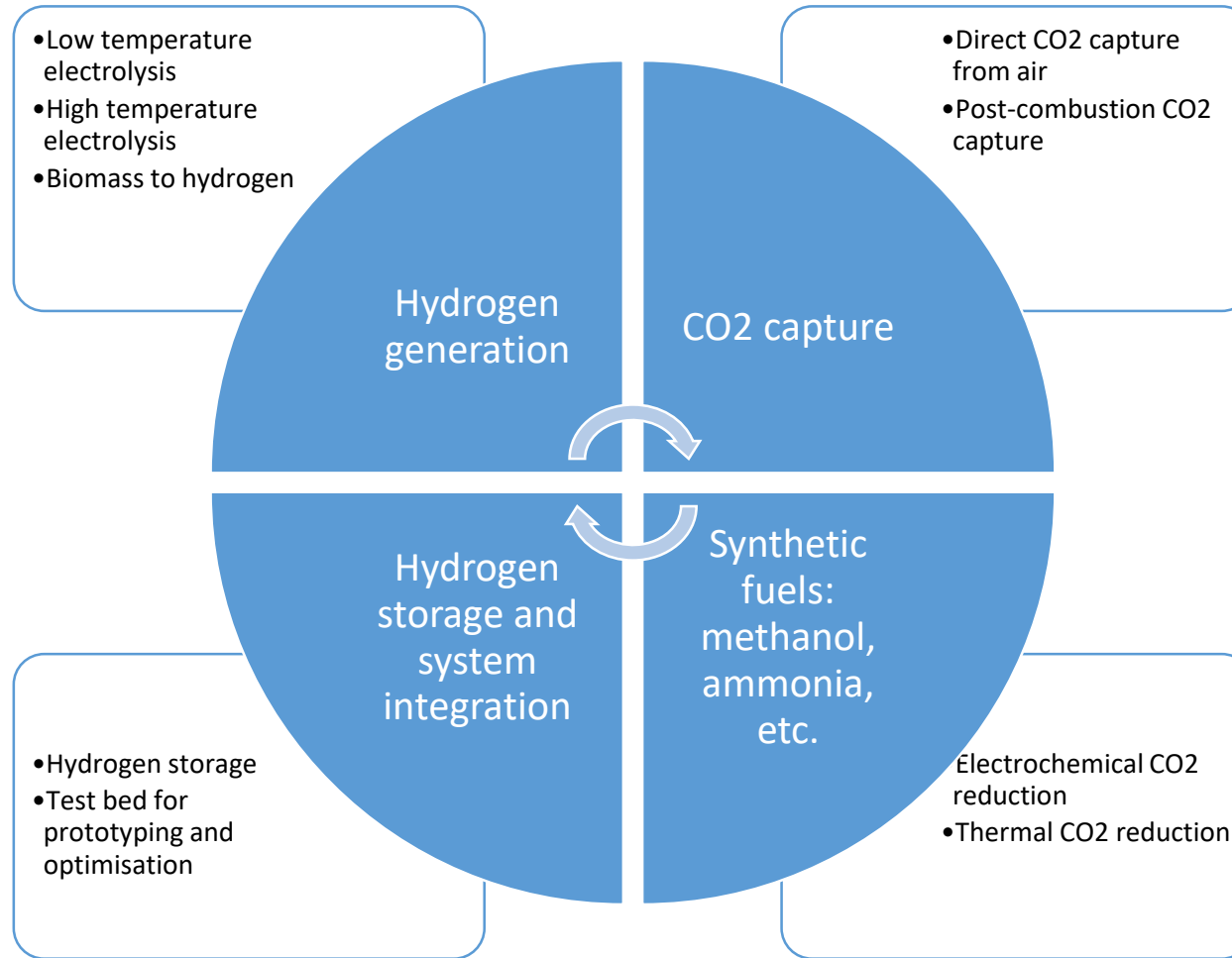
PLANTS



CIAE

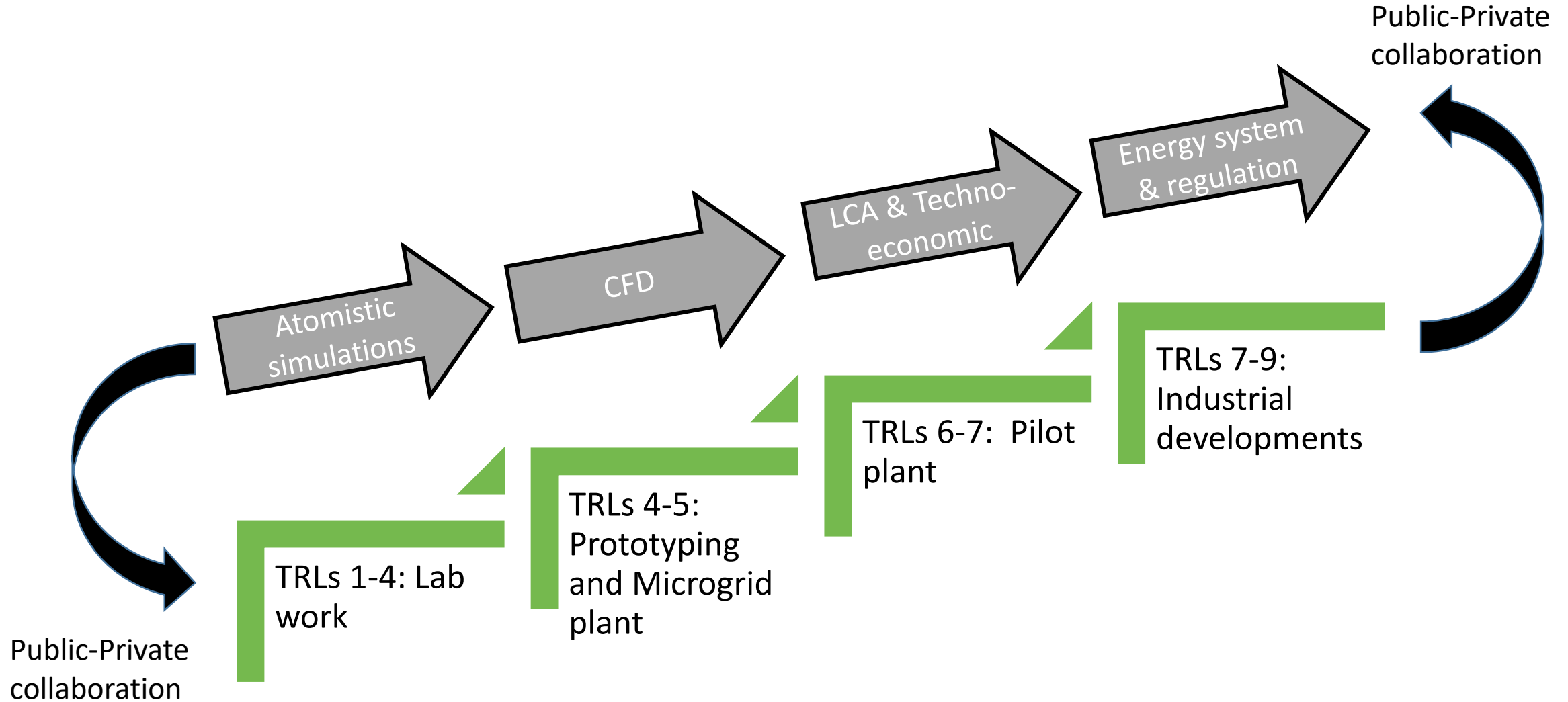
Centro Ibérico
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Hydrogen & Power-to-X department



**Lab work & simulations
(atomistic, CFD,
LCA, energy
system
analysis)**

Scaling strategy



Thank you!!!

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