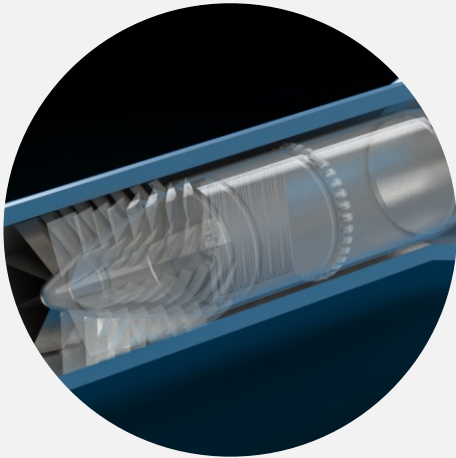




TÉCNICO
LISBOA



Advanced Hydrogen Power Systems and Technologies for Mobility Applications



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Motivation for Hydrogen

Hydrogen Technologies are enablers for a green transition:

- Wide-range of production options,
- Different consumption paradigms,
- Scale and matter state versatile storage systems.

Global perspective:

- Large-scale projects,
- Many academia-industry partnerships,
- Industry taking the lead.

Limitations:

- Equipment selection,
- Deployment scale,
- Cost,
- Policy,*
- Public perceptions.

Some International Examples



Nikola Motors One, US



Toyota's Project Portal, San Francisco



Fuel Cell Bus in Tokyo, JP

Alaka'i Skai Hydrogen VTOL, US



Alstom Hydrogen Train, DE, FR, UK



Hydrogen Ferry San Francisco & Energy Observer



Some International Examples



Parisian Hydrogen Taxi Fleet, FR



Linde H₂ eBike, FR



Hyundai Nexo, SK



Honda FCX Clarity, JP

ZeroAvia's Hydrogen six-seater, US-UK



Pragma H₂ eBike, FR



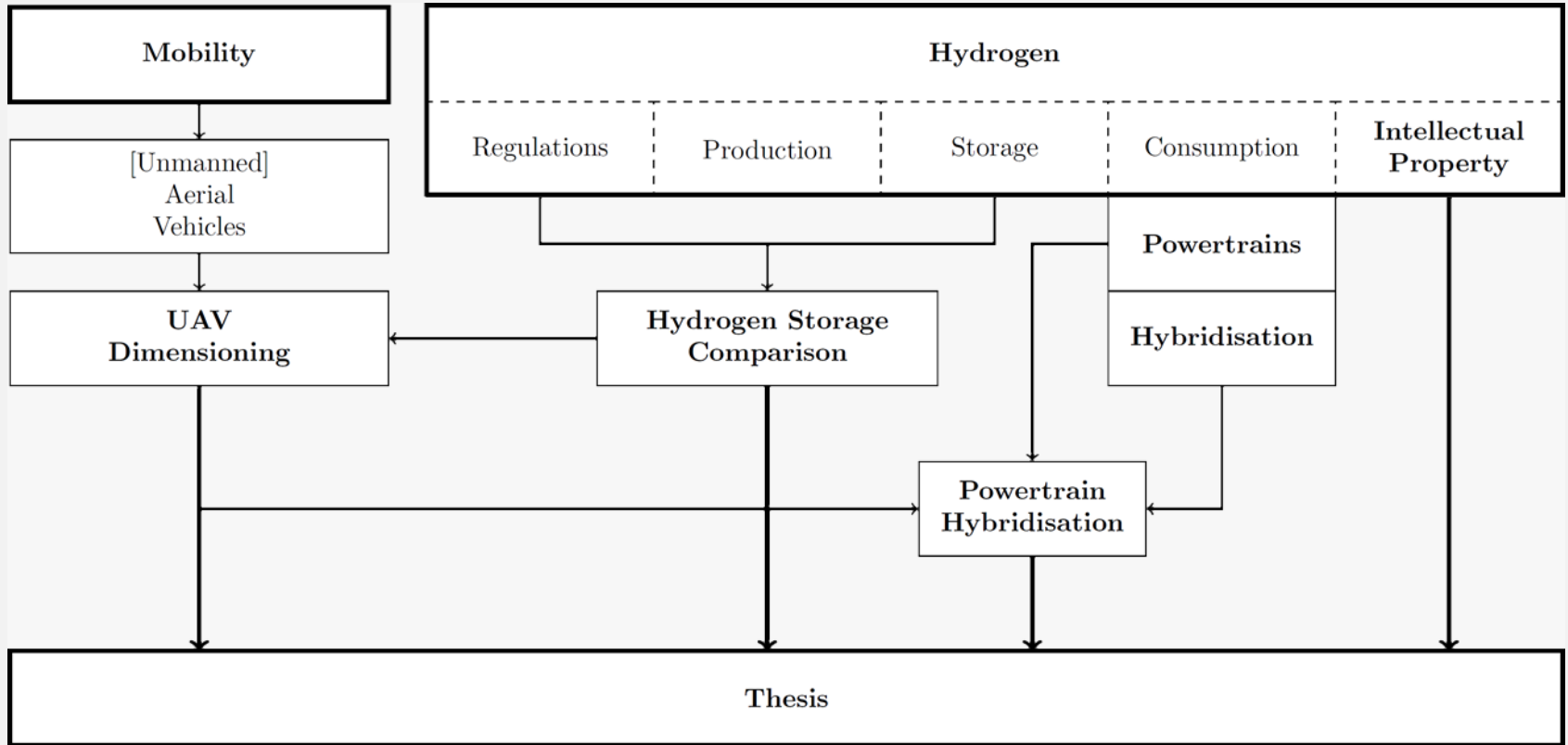
Toyota Mirai, JP



Riversimple Rasa, UK



Objectives



For projects and collaborations reach out at:
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THANK YOU