

Shift to Direct Current Project: An overview

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Agenda

- **SHIFT2DC Overview**
- **SHIFT2DC Solutions**
- **Portuguese Demonstrator**
- **Other Ongoing Projects in INESC ID**

SHIFT2DC Overview



DC

SHIFT2DC – Overview

General Numbers



42 months



December 2023
to June 2027



21 partners + 6
affiliated



13 Countries



4 DEMOS



11 M€ EU Funding

SHIFT2DC – Overview

Consortium

Engineering



System Operator



Utilities



Building

Data Centre



Certification Lab



Eco-systems representatives



DC DERs



Industry



Port



Data Centre Solutions



Living Lab



R&I



DC Grid Solutions



DC Heating and Cooling



DEMOS

Consortium

Legend

- Foundation/Association
- Industry
- Research center | University
- Technology Provider
- Utility

SHIFT2DC – Overview

Demonstrators

Data Centre Demonstrator



Building Demonstrator



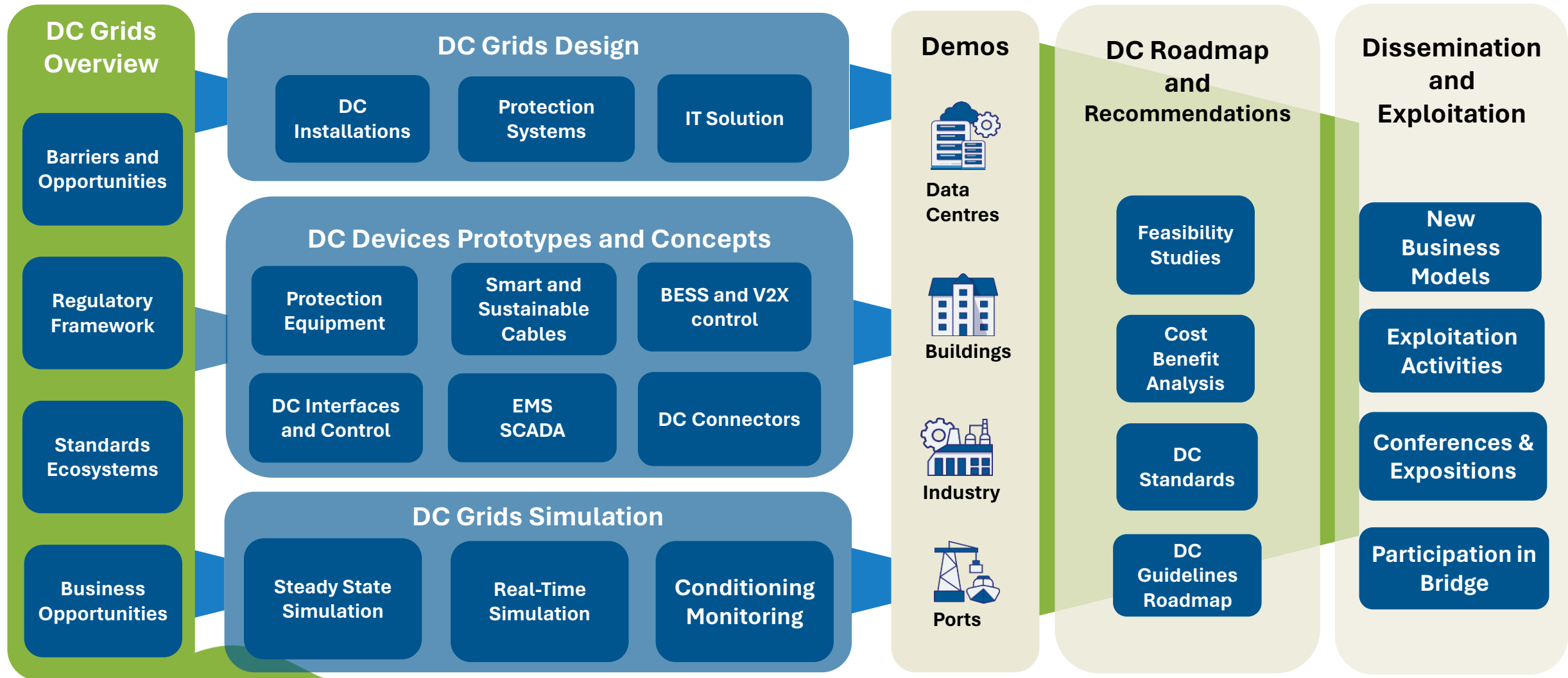
Industry Demonstrator



Port Demonstrator



SHIFT2DC – concept



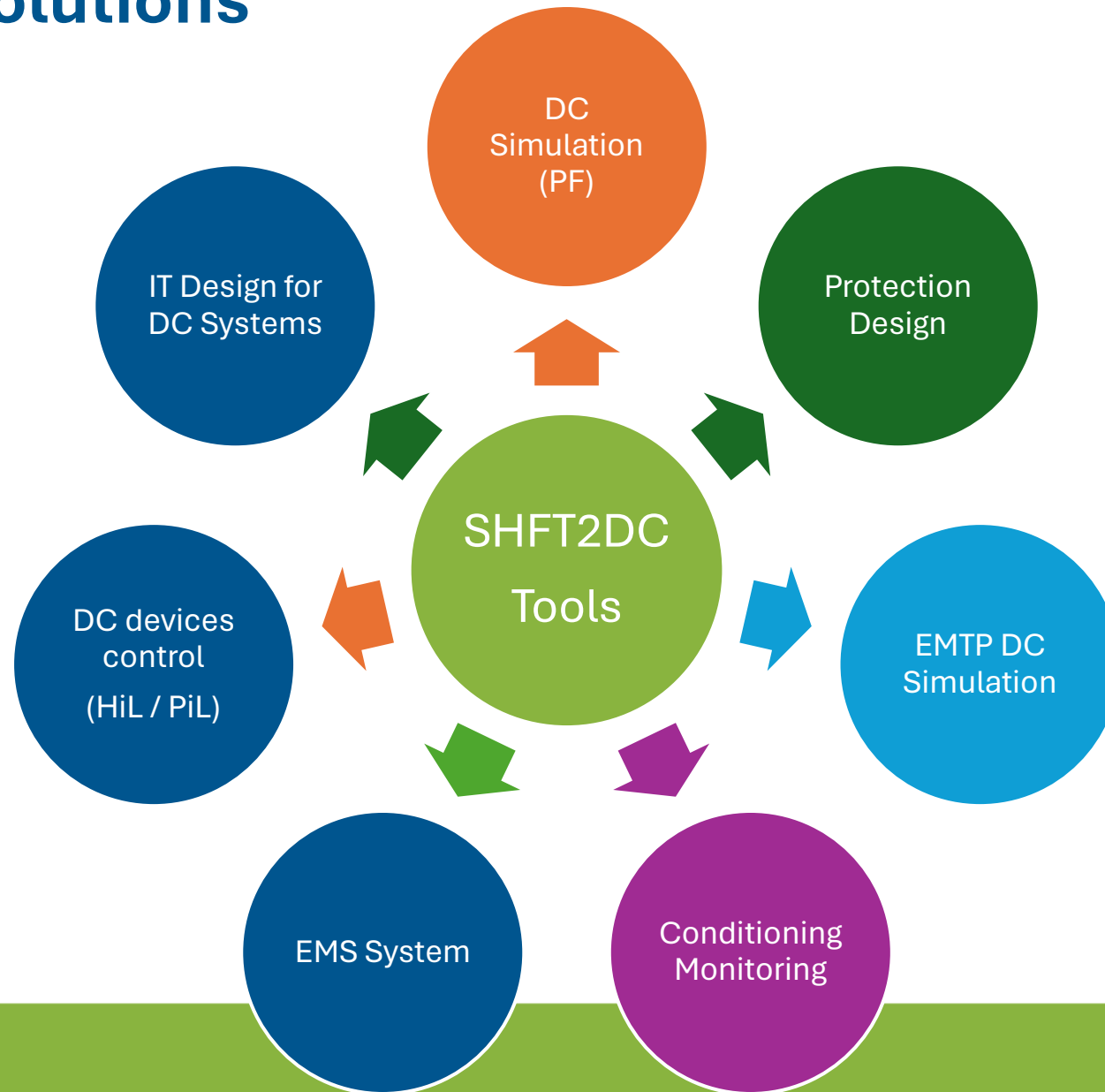
SHIFT2DC Solutions



DC

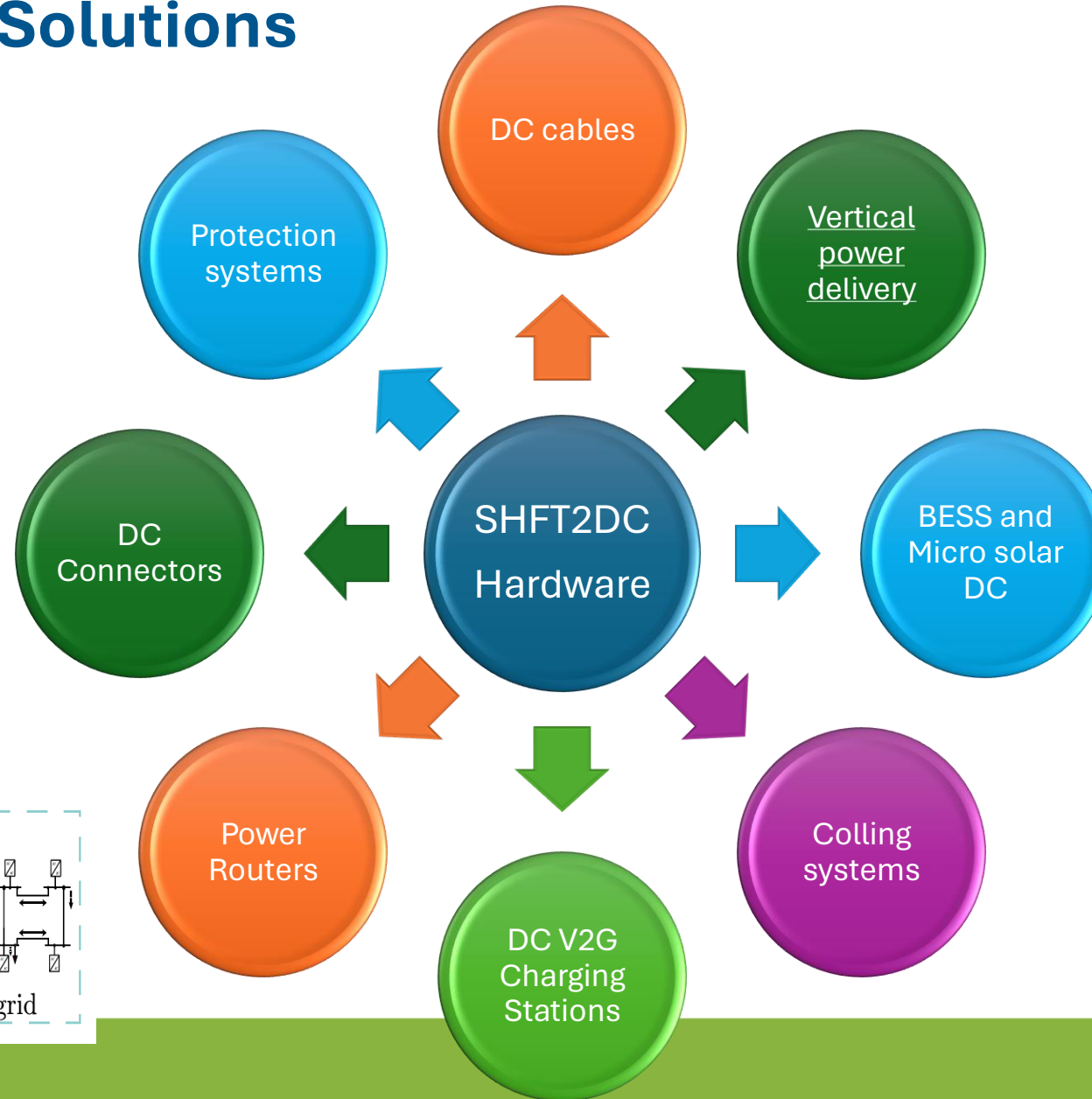
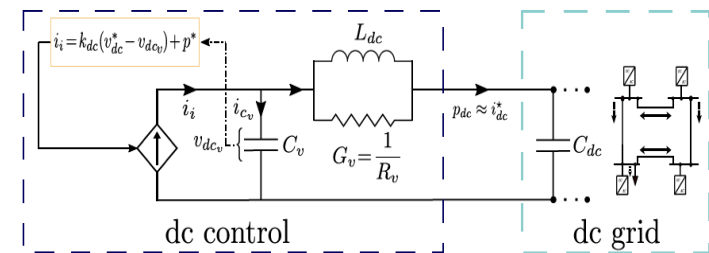
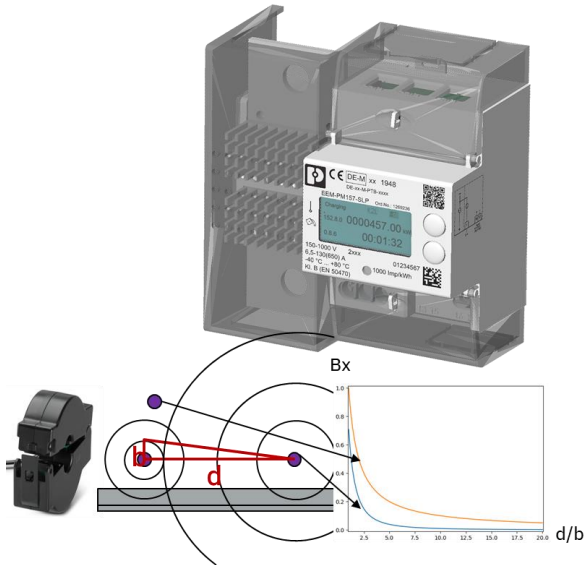
SHIFT2DC Solutions

Tools

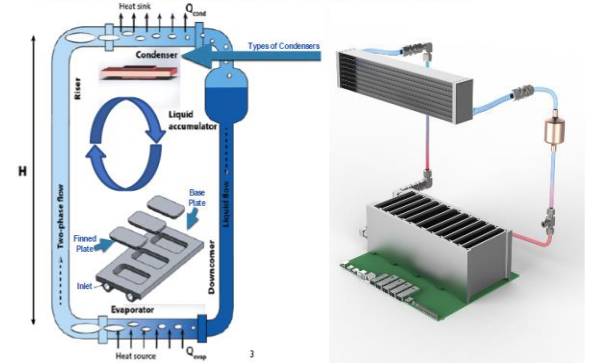


SHIFT2DC Solutions

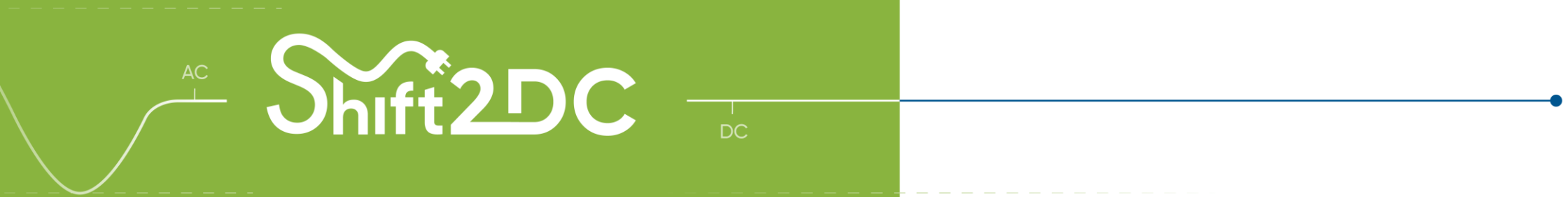
Hardware



Thermosyphon Cooling of Large Power Electronics Heat Loads: Choice of Condensers

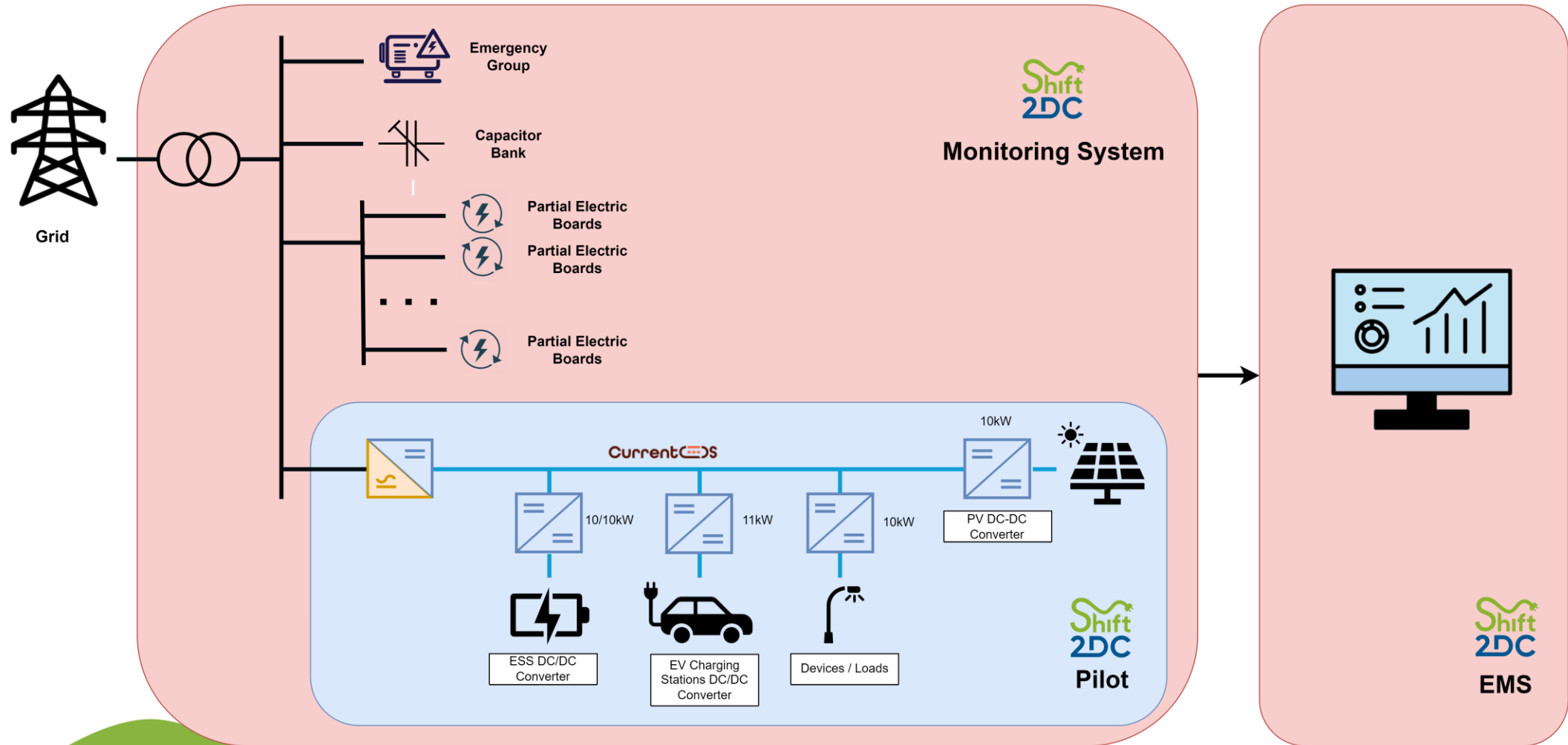


PT Demo



Portuguese Demonstrator

Pilot and Monitoring

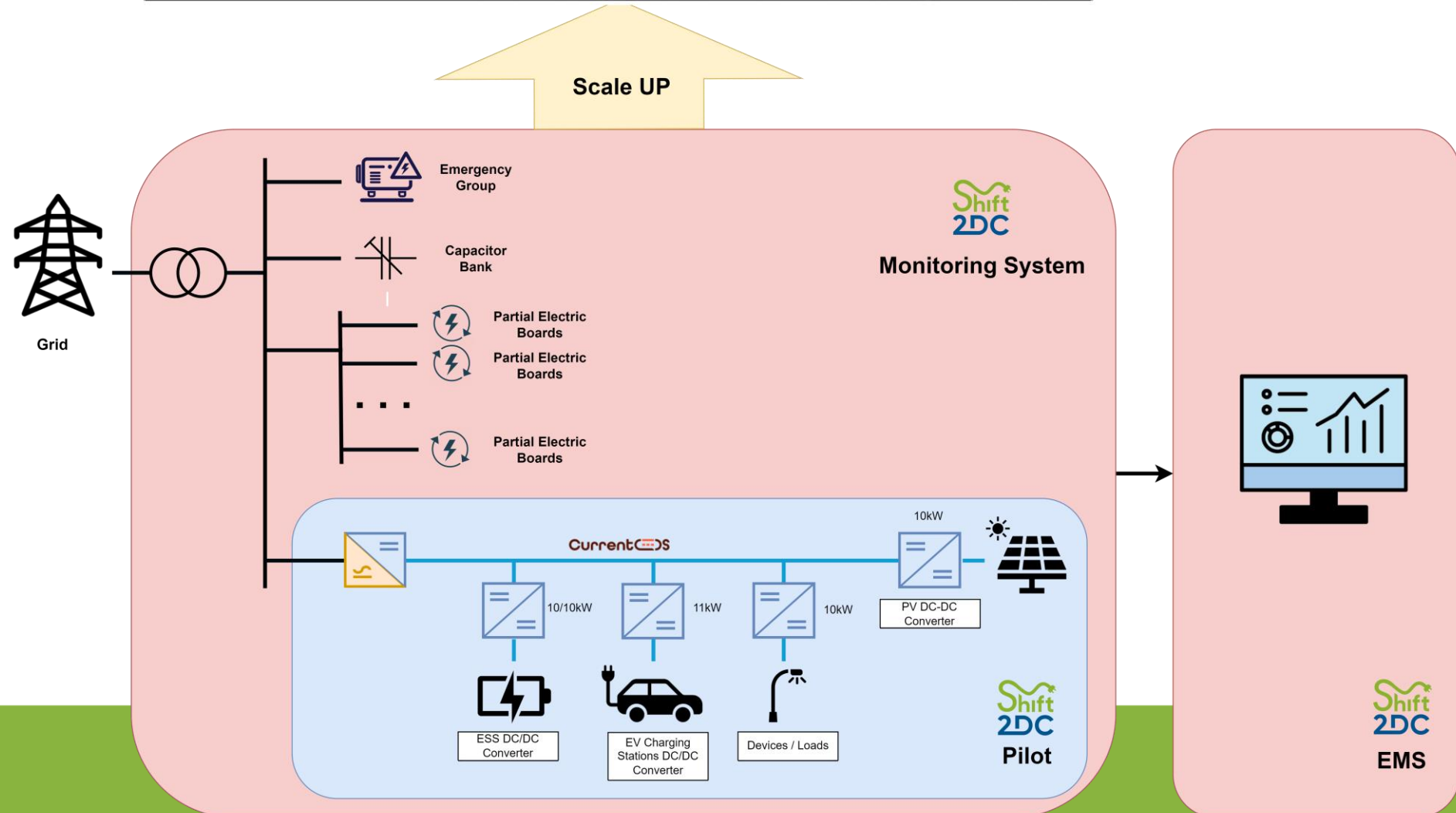


PT Demo

Pilot and Monitoring



Shore to Power
Grid Services
Microgrids
Energy Hub (H2)



Other Ongoing Projects in INESC ID

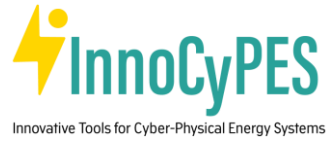


Other ongoing projects

INESC ID



<https://ev4eu.eu/>



<https://innocypes.eu/>

AHEAD



<https://alamo.tecnico.ulisboa.pt/>



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www.shift2dc.eu