

# Lorraine Smart Cities Living Lab - 15 years of experience



And its platforms

**FAB Living LAB** & **Green FAB LAB**

at the service of energy and environmental issues

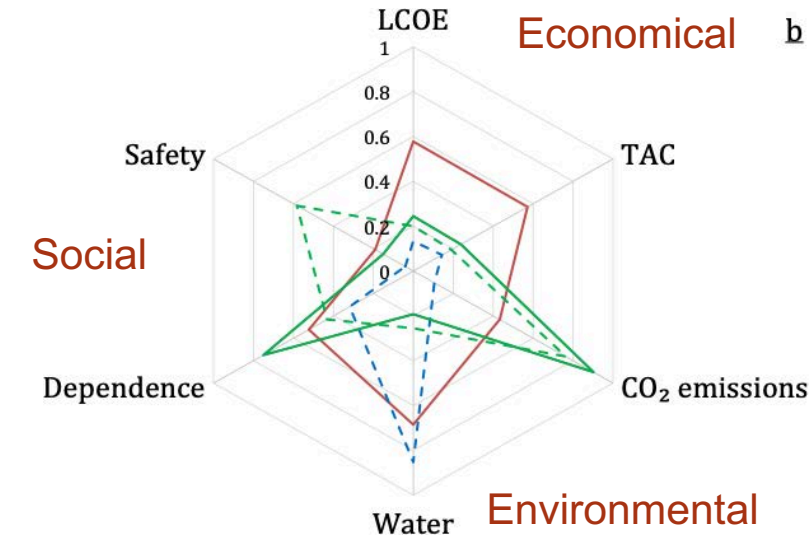
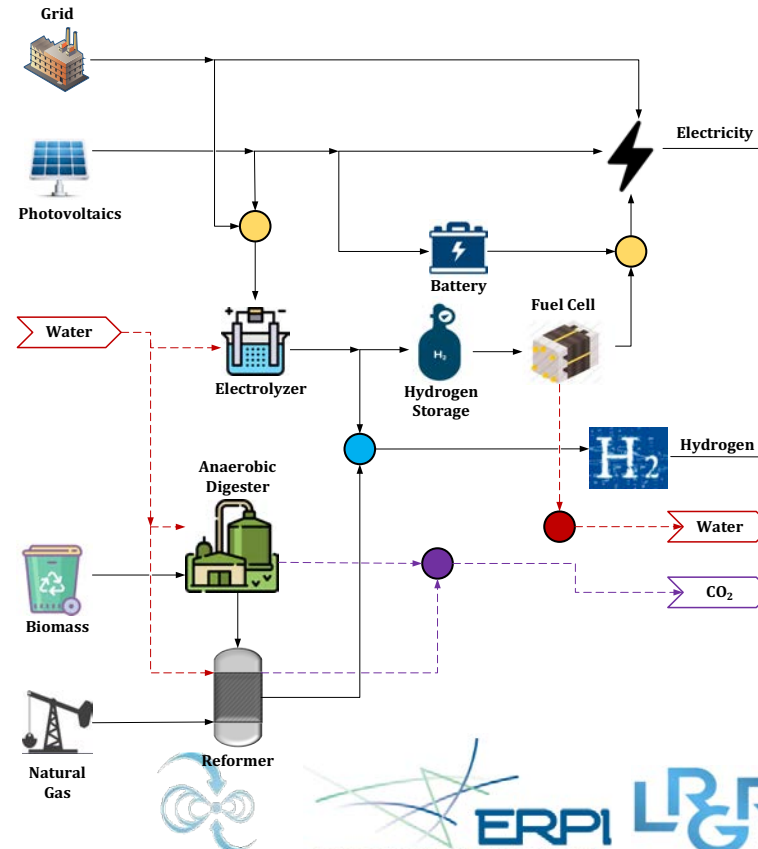


# 2017-2020: ULHys project

# Optimal Configuration of Distributed Energy Systems with Hydrogen as Energy Carrier under Sustainability Criteria

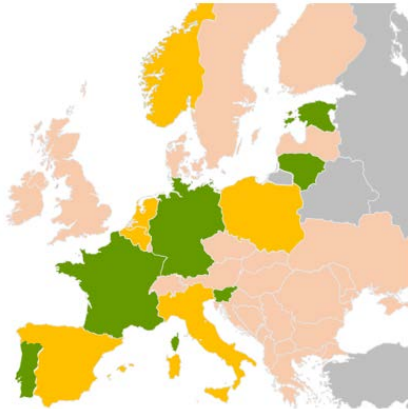
## Research Question

# How improve the early design of hydrogen-based distributed energy systems by using simulation tools and sustainability criteria assessment?



## Decision making under sustainability criteria

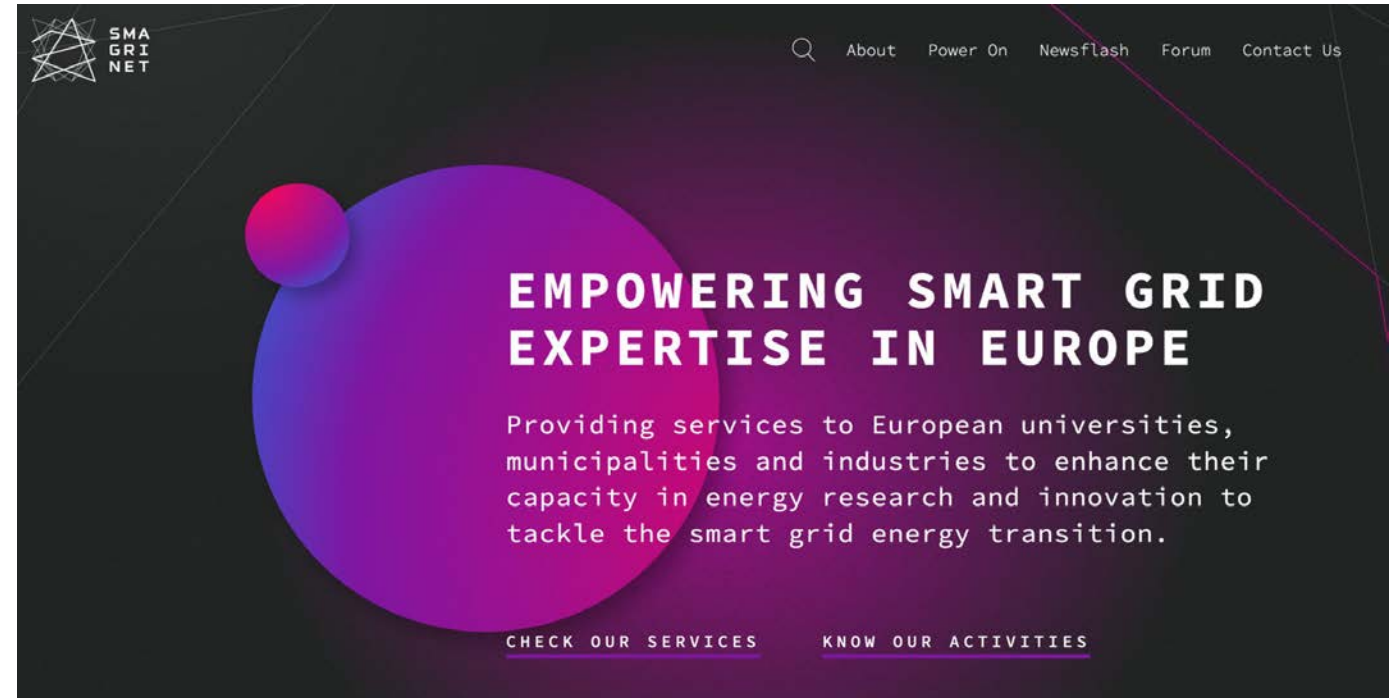
# 2019-2021: SMAGRINET project



Call: H2020-LC-SC3-2018-2019-2020  
(BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE:  
SECURE, CLEAN AND EFFICIENT ENERGY)  
Grant Agreement No. 837626



<https://www.smagrinet.eu/>



Conf paper: Alex Gabriel, Laurent Dupont, Mauricio Camargo, Kévin Berger, Valerie Rault, et al..  
**Applying a Living Lab Approach to Smart Grid Training Course Design.** 26th ICE / IEEE  
ITMC International Conference on Engineering, Technology & Innovation, Cardiff University, Jun  
2020, Cardiff, United Kingdom. [\(hal-02884574\)](#)

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# 2019-2022: INEDIT projects



**INEDIT**  
open INnovation Ecosystems  
for Do It Together process



<https://www.inedit-project.eu/>

INEDIT intends to demonstrate, through its twin – digital and physical – platform, the potential innovation around social manufacturing within the circular economy in designing global while producing local.

The project aims at the creation an open innovation European “Do It Together” ecosystem for sustainable furniture co-creation.

In order to develop this approach, it is proposed to use the acquired knowledge in terms of methods, tools and practices used by makers in FabLabs and by innovators in Living Labs and other innovation intermediaries or places.

An opportunity  
to spread our

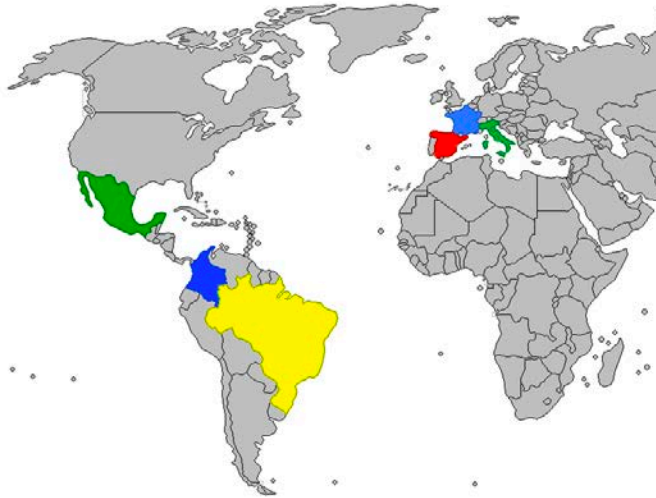
*Green* **FAB LAB** Approach

Call: H2020-NMBP-TR-IND-2018-2020  
(TRANSFORMING EUROPEAN INDUSTRY)  
Grant Agreement No. 869952

<http://lf2l.fr/projects/green-fablab/>

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# 2019-2022: Climate Labs project



<https://erpi.univ-lorraine.fr/projects/Climatelabs/>

Climate Labs seeks to strengthen the applied research and innovation capacities of ten partner universities from Mexico, Brazil and Colombia through the design and implementation of Social Innovation Labs for mitigation and adaptation to Climate Change. In a network with Universities from Spain, France, and Italy, plus Ashoka as a non-academic expert partner, the project seeks to build interdisciplinary and multi-stakeholder labs that will institutionalize the applied research and innovation for climate change in the territories the partners are inserted.

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# Humans & Trees, the roots of tomorrow

Territories of innovation

Action of the Programme of Investments for the future

<https://www.deshommesetdesarbres.org/>



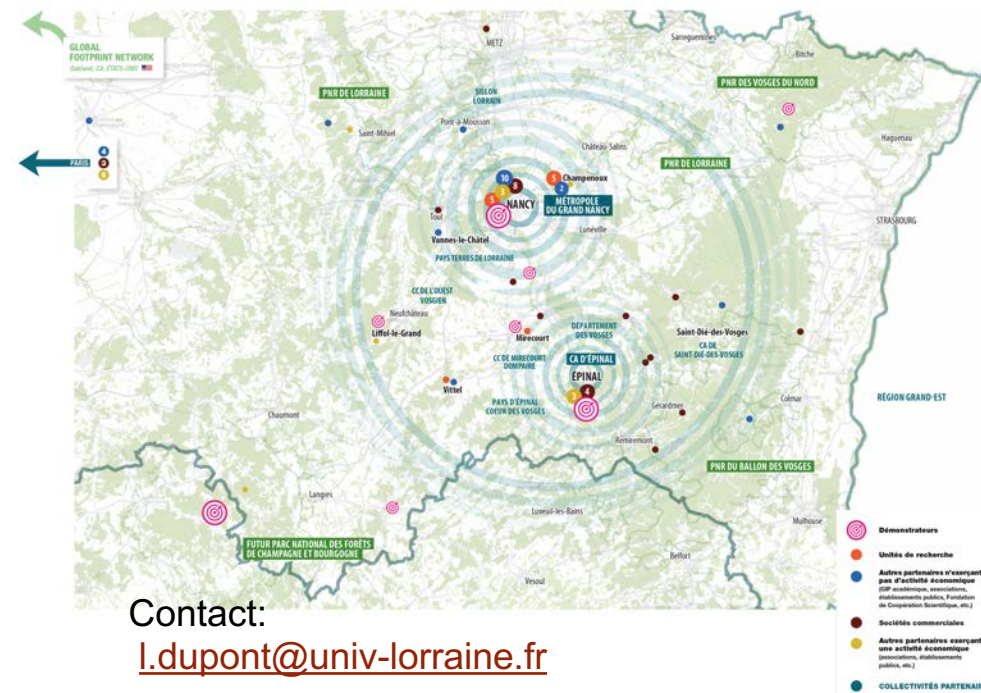
More than 100 stakeholders working together (companies, territories, associations, hospital, research center, etc.)

Involve citizens in regional and local projects concerning wood, forests, the timber industry and nature in general.



- > Health
- > Chemistry
- > Industry
- > Building / architecture
- > Design / furniture
- > etc.

One of the Winner of the French national call of project



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## Projects oriented Energy & Environments



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