

Sustainable Places 2022

September 8th, 2022

Nice, France



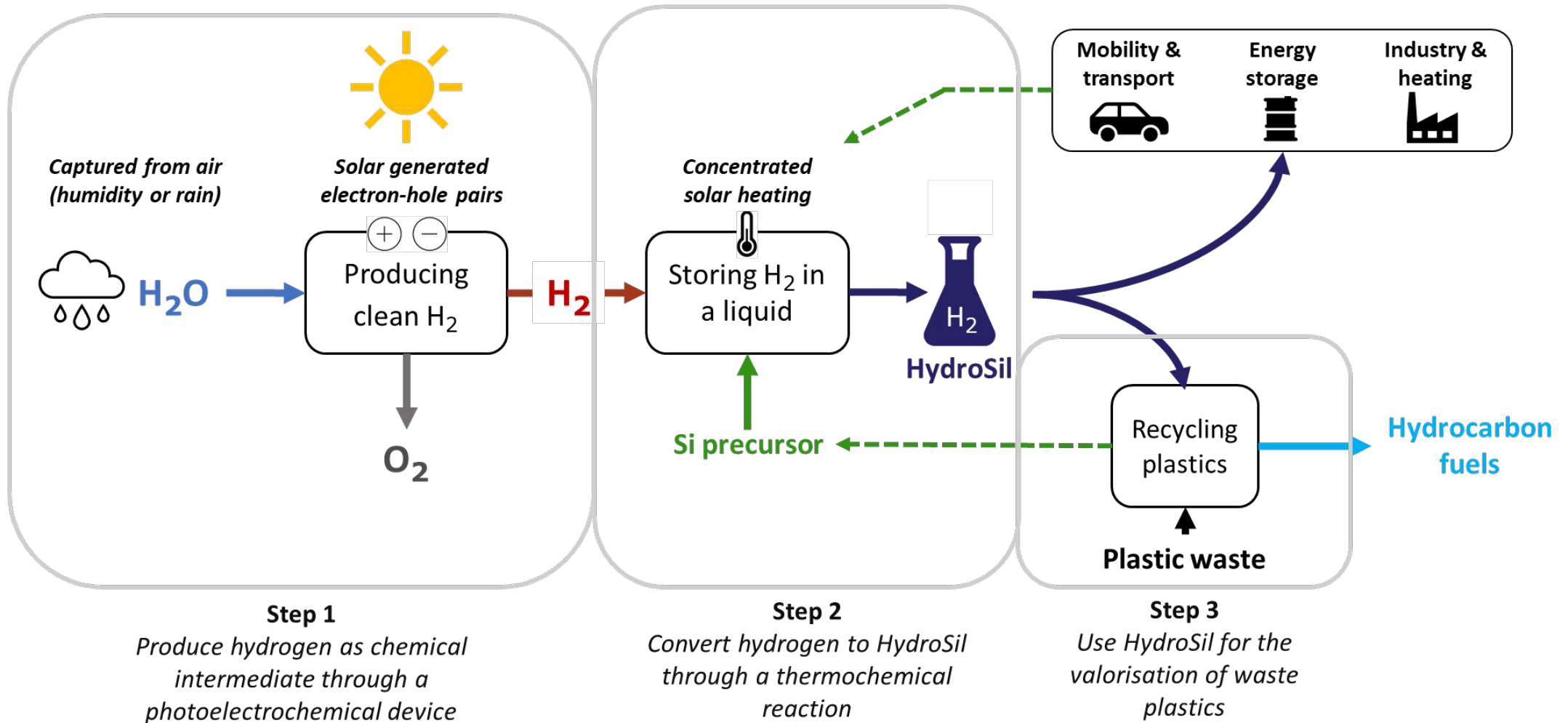
Luc Berman



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883264.

The Sun-to-X project

Presentation and exploitation strategy

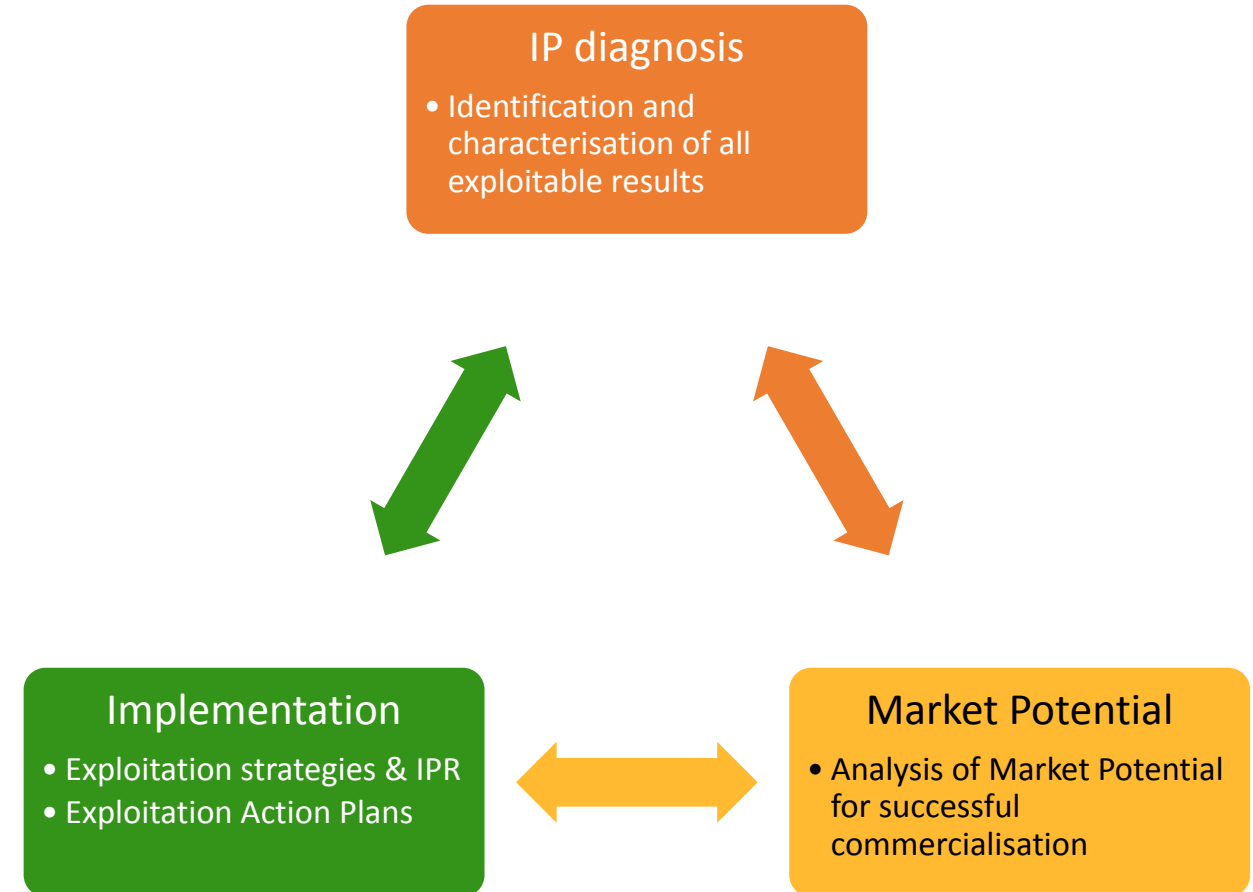


Sun-to-X project concept

- Using solar energy to produce a carbon-free, non-toxic, energy-dense, liquid fuel: Hydrosil
- The concept is applicable in the **transport** and **energy** sectors.
- Key novelties:
 - Overcoming challenges of high-performance photoelectrochemical fuel production by using membrane photoelectrode assemblies which can operate with solar energy using only ambient humidity as the water supply,
 - Developing reactors for and demonstrating the renewable production of HydroSil for the first time, using a thermochemical process,
 - Demonstrating a completely decarbonized energy cycle with liquid fuels,
 - In addition, the project will demonstrate the applicability of HydroSil towards the transition to a circular economy, by using it for the valorisation of waste plastics.

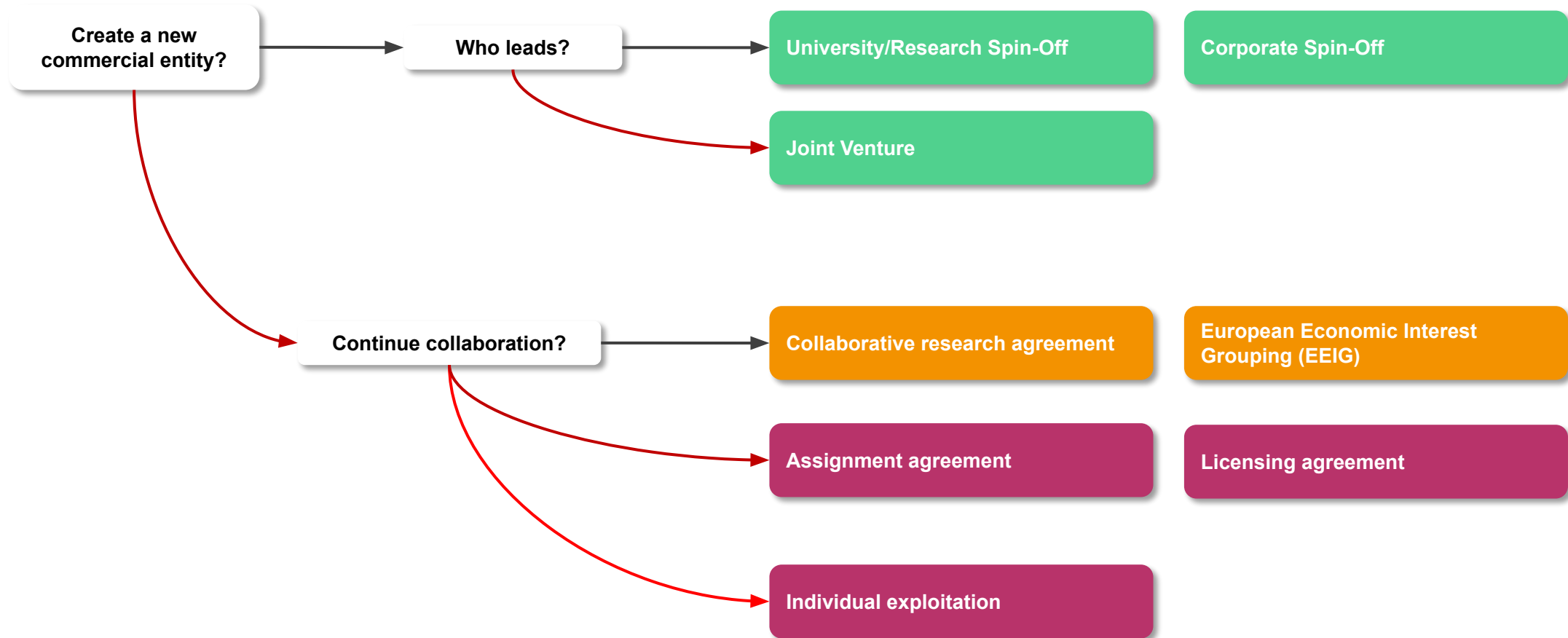
Sun-to-X's Exploitation Strategy

- Setting a strategic plan to exploit the project's results during and after the end of the Project
 - Establishing a common agreement on how the results will be owned and used
 - Providing general recommendations on:
 - Commercial opportunities,
 - Intellectual Property Rights (IPR),
 - Knowledge management,
 - Business models options for each partner.
- Focus on joint strategies **beyond Sun-to-X**



Exploitation Strategies

A simple decision tree



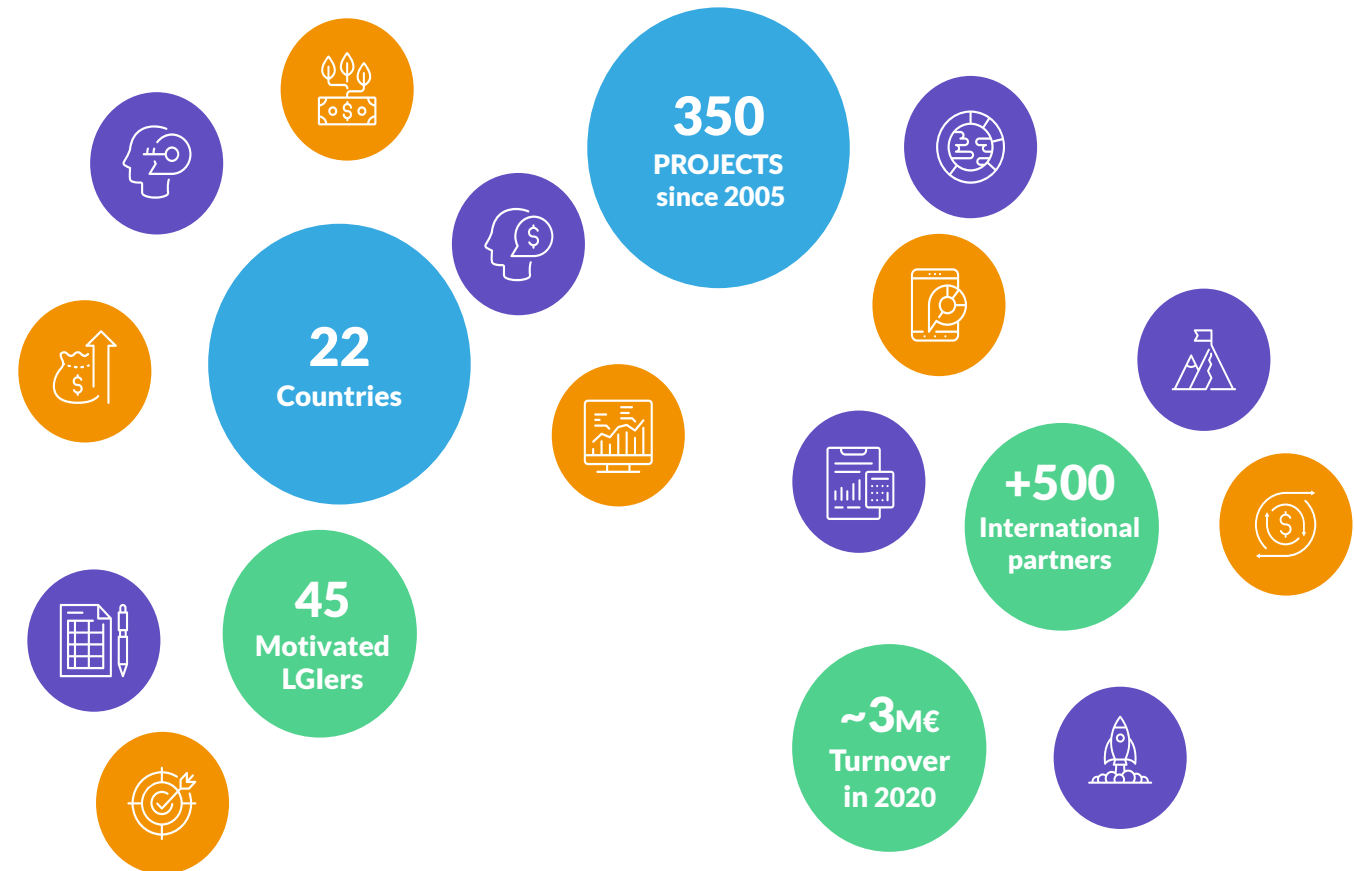
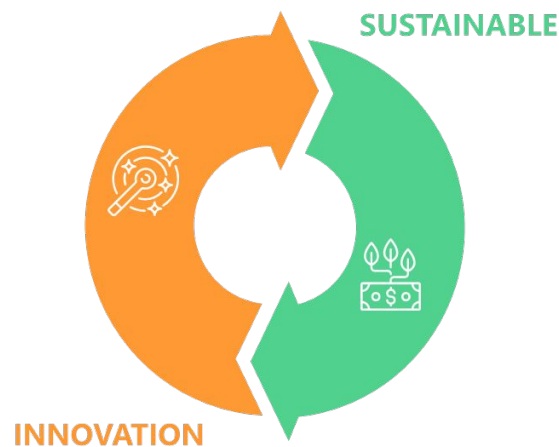


sustainable innovation

LGI Sustainable Innovation

LGI's mission

- To promote **sustainable innovation** as a **vehicle for solutions** to global climate, environmental and societal challenges.



Sectors



ENVIRONMENT

Climate change

Water & air

Ecosystems & biodiversity



ENERGIES

Renewables

Nuclear

Storage, grid, energy efficiency



TERRITORIES

Smart, sustainable cities

Automotive, mobility & logistics

Construction & buildings

INNOVATION ENABLERS

Science & tech

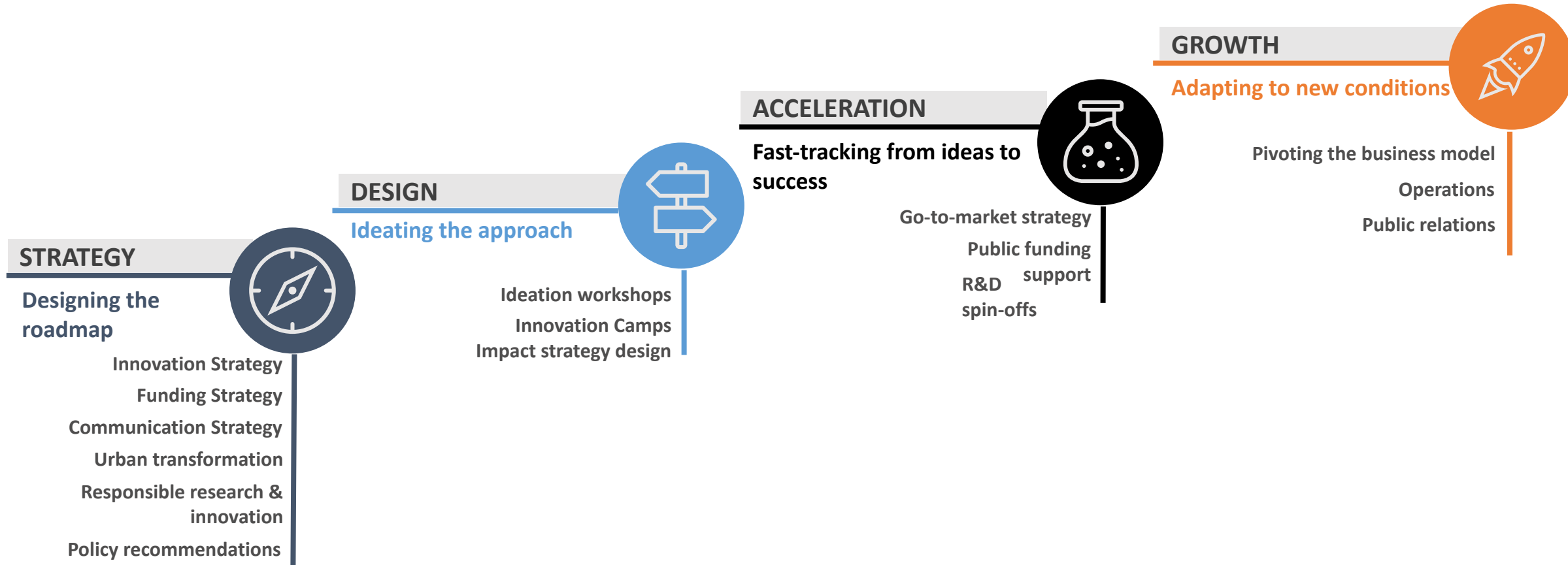
Digital & data

Social innovation

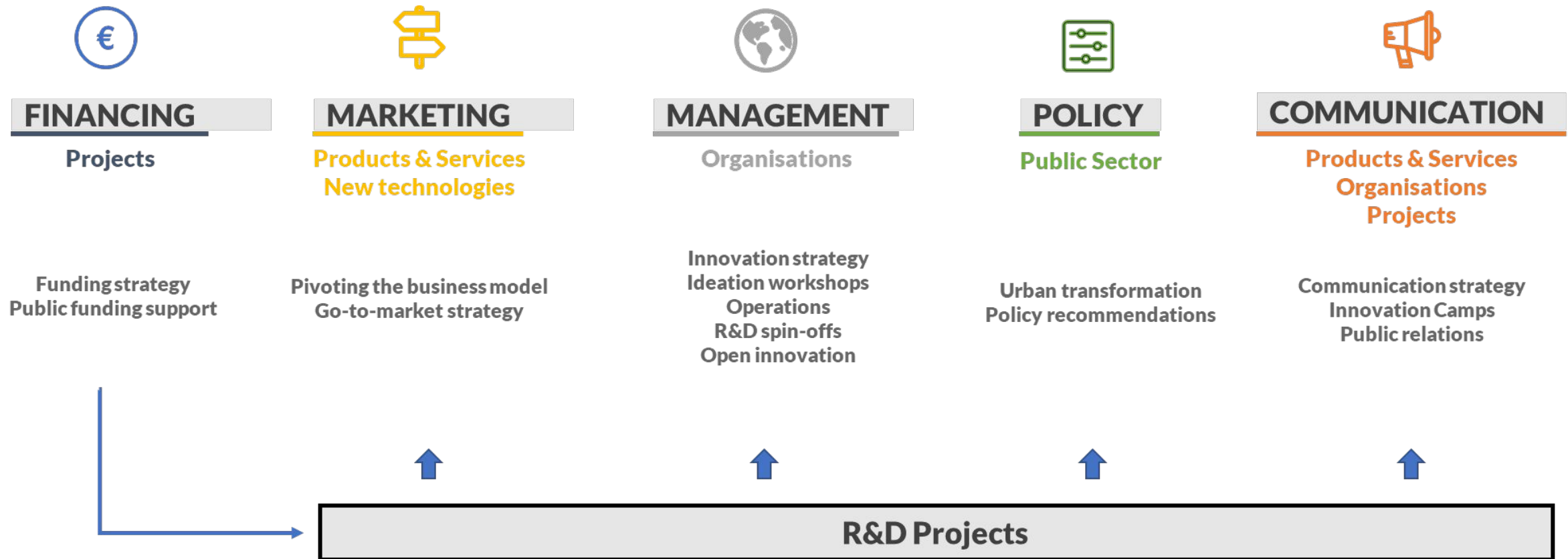
Circular economy

Nature-based solutions

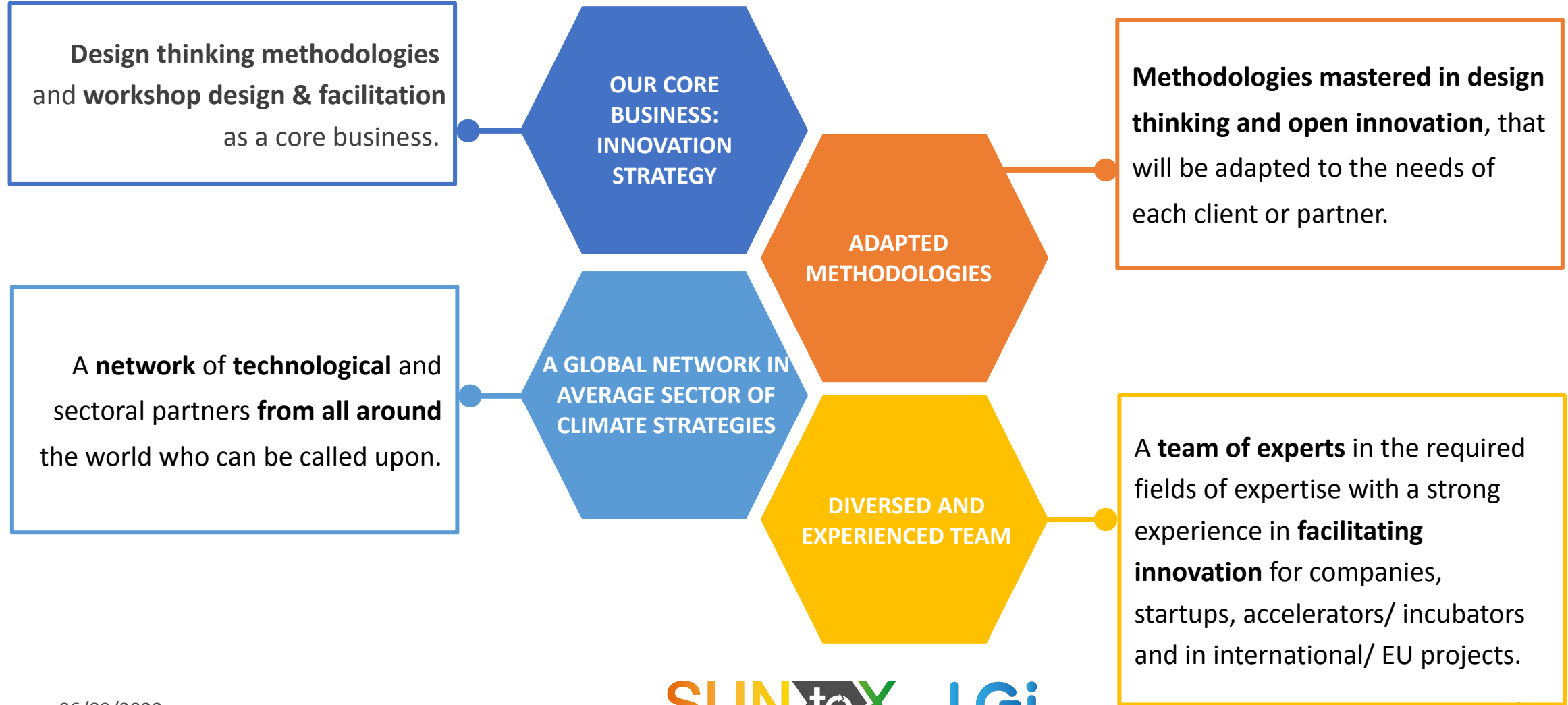
LGI's Innovation Journey



LGI's 5 main innovation actions



LGI's assets



Thank you!

Contact us for more information!



www.sun-to-x.eu



Sun-To-X



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@SunToX_H2020



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