

Joint R&D Project Call 2022:

Sustainable and Resilient Buildings and Transports

Info Session, June 28th 2022

Agenda

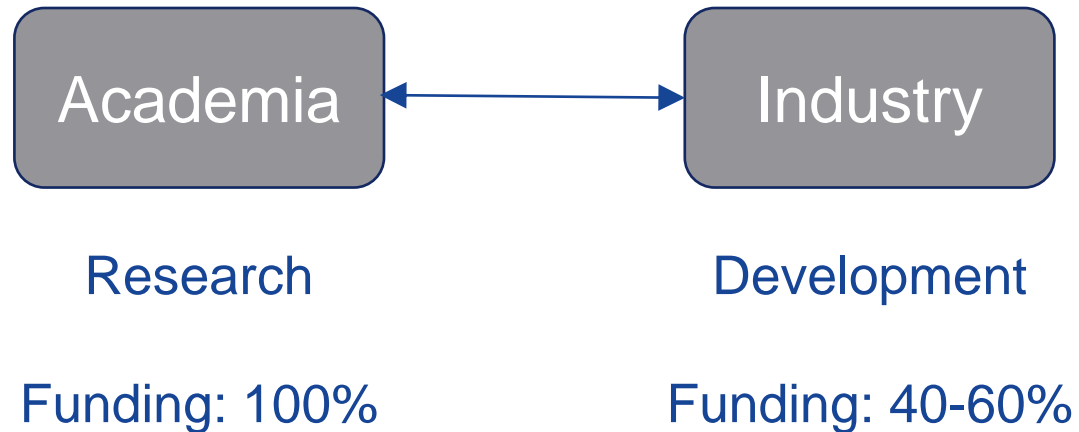
» Joint R&D program scheme

» 2022 Theme



Funding Scheme

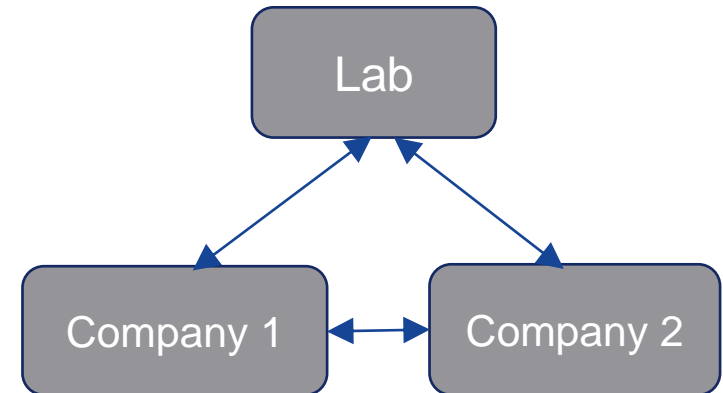
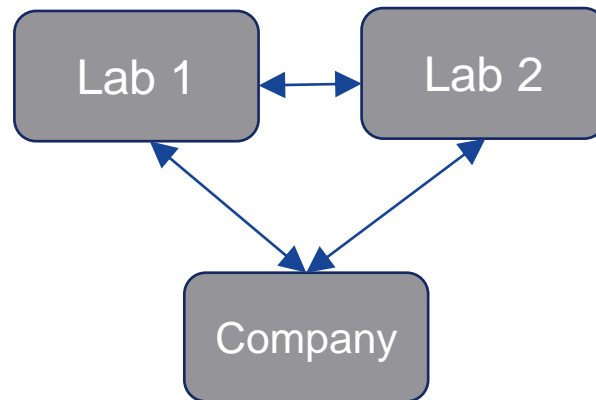
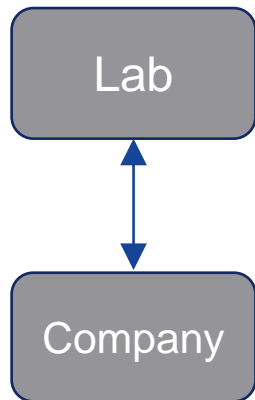
- › Active participation of industry and academia
- › Target actual prototypes integrating research results



Small Enterprise	60%
Medium Enterprise	50%
Large Enterprise	40%

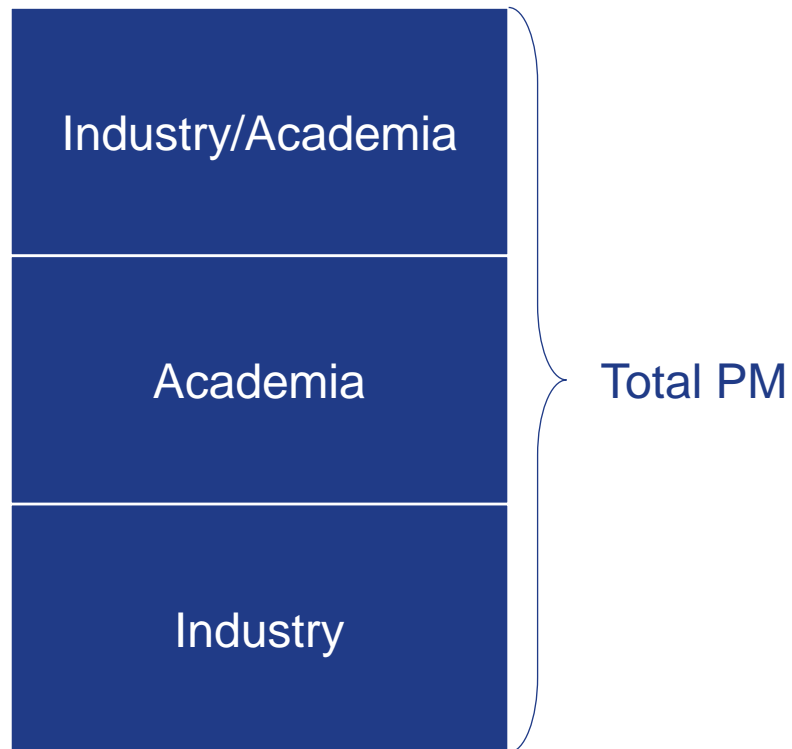
Scheme (con't)

➤ No restrictions on configurations



Balance of efforts and duration

» Balance of efforts



» 1 year \leq project duration \leq 3 years



Eligibility

- › R&D activities in Brussels
- › Companies financially OK
- › Match with the call definition
- › Right balance of efforts

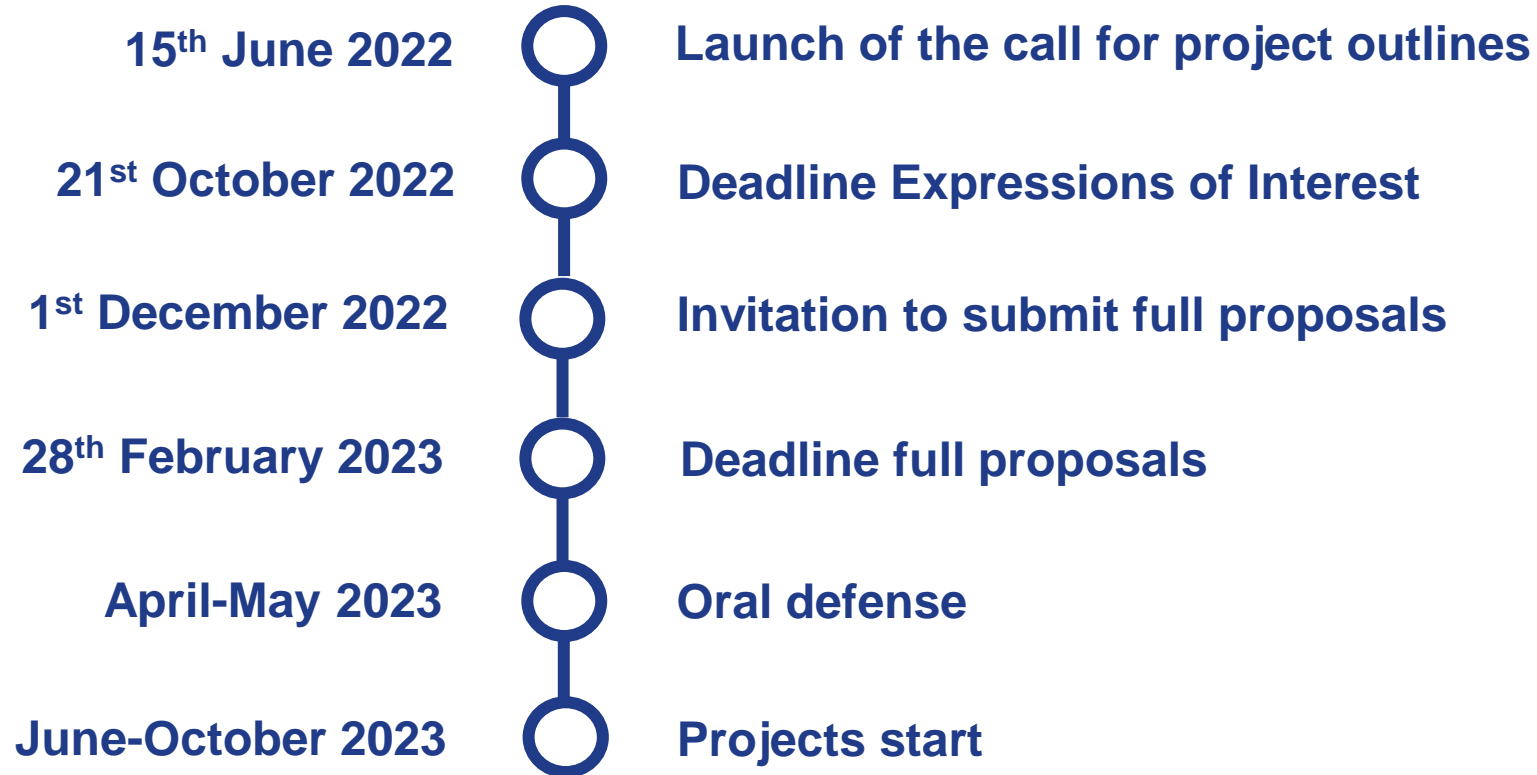


Evaluation Criteria

- › Innovative character
- › Excellence of research
- › Quality of the execution plan
- › Technological transfer & synergies (1+1>2)
- › Contribution to the call's objectives
- › Business valorisation results
- › Social, environmental and/or ecosystemic (Brussels) impact



Scheduling



Connect Subsidy

- › Incentive to build up the full proposals
 - › Personnel cost
 - › Legal advice
- › For both industry and academia
- › Max 7.5kEur / Partner (max. 25kEur/Project)
- › Only paid upon submission of full proposal
- › Form to be submitted with the Expression of Interest

Sustainable and Resilient Buildings and Transports

Call's matrix

	Resilience	Sustainability
Buildings & Infrastructures		
Transports & Flows		

Urban Environment

Definitions

- **Buildings and Infrastructures:** this includes residential and tertiary buildings as well as public and private physical structures such as roads, railways, bridges, water supply,...
- **Transports and flows:** here, we consider and restrict the scope to goods (transportation and logistics), persons (mobility), energy (electricity, heat), water (supply and sewage), data (telecom).

Definitions (con't)

- **Resilience:** The capacity of cities to **survive and adapt no matter** what chronic stresses and acute shocks they experience,

- **Sustainability:** Sustainable development has been defined as development that **meets the needs of the present without compromising the ability of future generations** to meet their own needs. For sustainable development to be achieved, it is crucial to harmonize three core elements: economic prosperity, social inclusion and environmental protection. These elements are interconnected and all are crucial for the well-being of individuals and societies.

Scope (1/4)

	Resilience	Sustainability
Buildings & Infrastructures	✓	
Transports & Flows		

Scope (3/4)

	Resilience	Sustainability
Buildings & Infrastructures		✓
Transports & Flows		

Scope (2/4)

	Resilience	Sustainability
Buildings & Infrastructures		
Transports & Flows	✓	

Scope (4/4)

	Resilience	Sustainability
Buildings & Infrastructures		
Transports & Flows		✓

Examples

	Resilience	Sustainability
Buildings & Infrastructures		
Transports & Flows	✓	

Meshmerize: wireless mesh network for agile and dynamic systems such as autonomous drones or connected cars. The startup utilizes multi-path routing to improve network resiliency.

	Resilience	Sustainability
Buildings & Infrastructures	✓	
Transports & Flows		

ECOTEN Urban Comfort : heat vulnerability maps and urban microclimate simulations to help cities determine the most efficient strategies to build climate change resilience.

	Resilience	Sustainability
Buildings & Infrastructures		
Transports & Flows	✓	✓

Infarm : modular urban farming designed to be flexible so that it can be built anywhere. Furthermore, no use of chemical pesticides and very low water consumption lead to greater sustainability.

Examples (con't)

	Resilience	Sustainability
Buildings & Infrastructures		
Transports & Flows		✓

[N-Vibe](#): GPS-based wristband to enhance the autonomy of the blind and partially sighted.

	Resilience	Sustainability
Buildings & Infrastructures		✓
Transports & Flows		

[Nanotek Materials](#) : Lowers by 65% greenhouse emissions associated with cement production thanks to nanotechnology.

	Resilience	Sustainability
Buildings & Infrastructures	✓	✓
Transports & Flows		

[Epic CleanTec](#) : captures and treats a building’s wastewater, purifying it to exceptionally high standards for reuse in non-potable applications, such as toilet flushing, irrigation, cooling towers, and laundry. The Epic approach can help a building reuse up to 95% of its water.



<https://innoviris.brussels/program/joint-rd-project-sustainable-and-resilient-buildings-and-transports>

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 Form	docx	1.25 MB