



# Innovationsfonds

VÖWG Webinarreihe zum  
EU-Innovationsfonds

2. September 2021

# Innovation Fund

Production and use of  
Renewable energy

*including manufacturing plants for  
components*

Carbon Capture Use and  
Storage

**Scaling up clean tech**

Energy-intensive  
industries

*including substitute products*

Energy storage

*including manufacturing plants for  
components*

# Key features

Volume of at least **EUR 20 billion** until 2030 (at EUR 50 carbon price)

Support of up to **60%** of additional costs related to innovative technology

**40%** of grant disbursed at financial close

Financed from the revenues of the **EU Emissions Trading System**

Support of additional capital **and** operating costs (up to 10 years)

**60%** of grant disbursed during 10-years operating period against GHG emission avoidance

**Annual calls** for large-scale and small-scale projects (CAPEX < EUR 7.5 million)

Single applicant **or** consortium

Project development assistance by **EIB**

# First calls for projects

## Call for small-scale projects

Grant volume of EUR 118 million awarded to 32 projects

15 projects to be selected for project development assistance

## Call for large-scale projects

Volume of EUR 1 billion

66 projects submitted a second stage appl
















Results expected 2nd half November

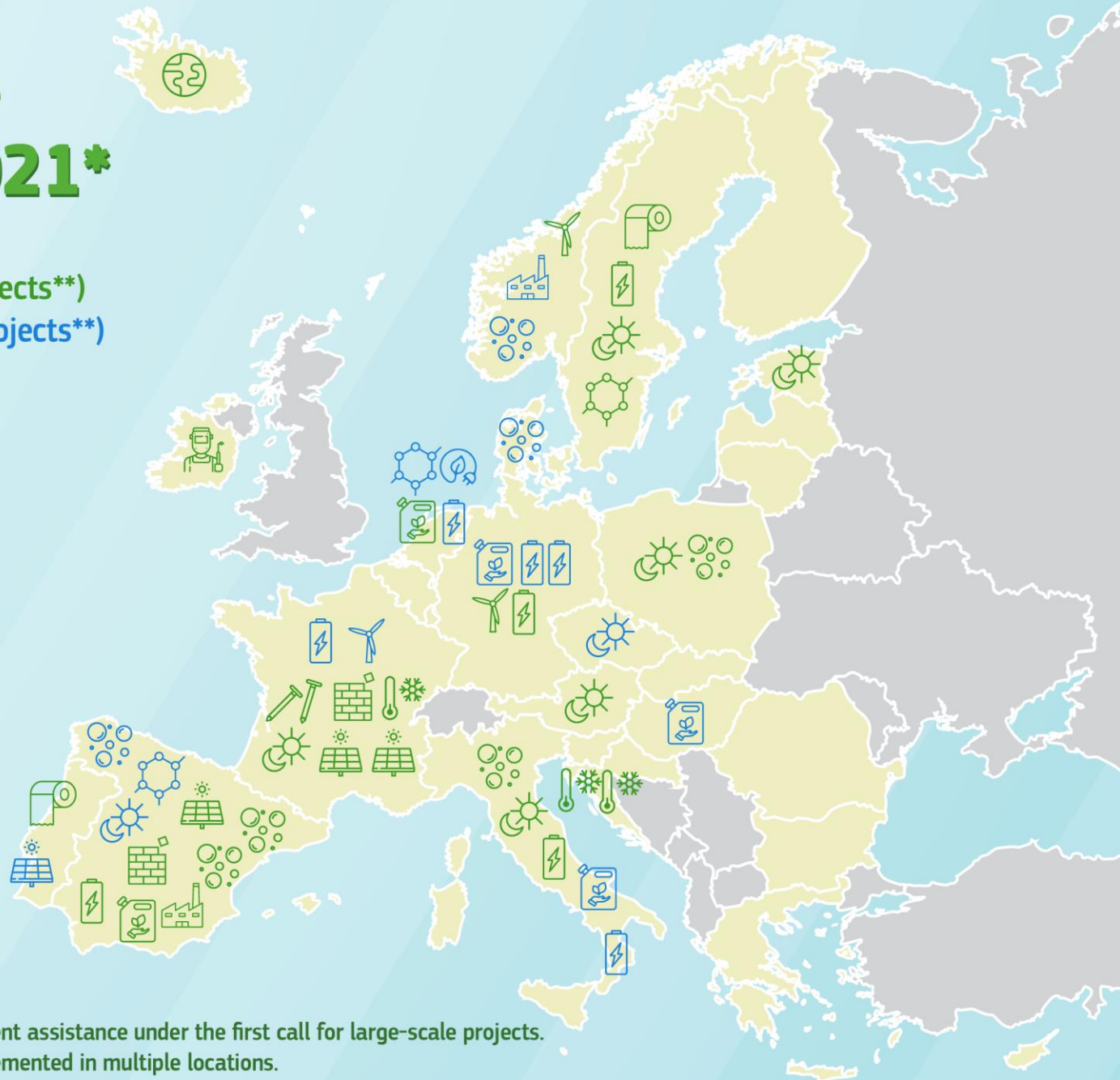
15 projects already selected for project development assistance

# Successful projects under the Innovation Fund as of July 2021\*

**Green:** Small-scale projects invited for grant preparations (32 projects\*\*)

**Blue:** projects proposed for project development assistance (15 projects\*\*)

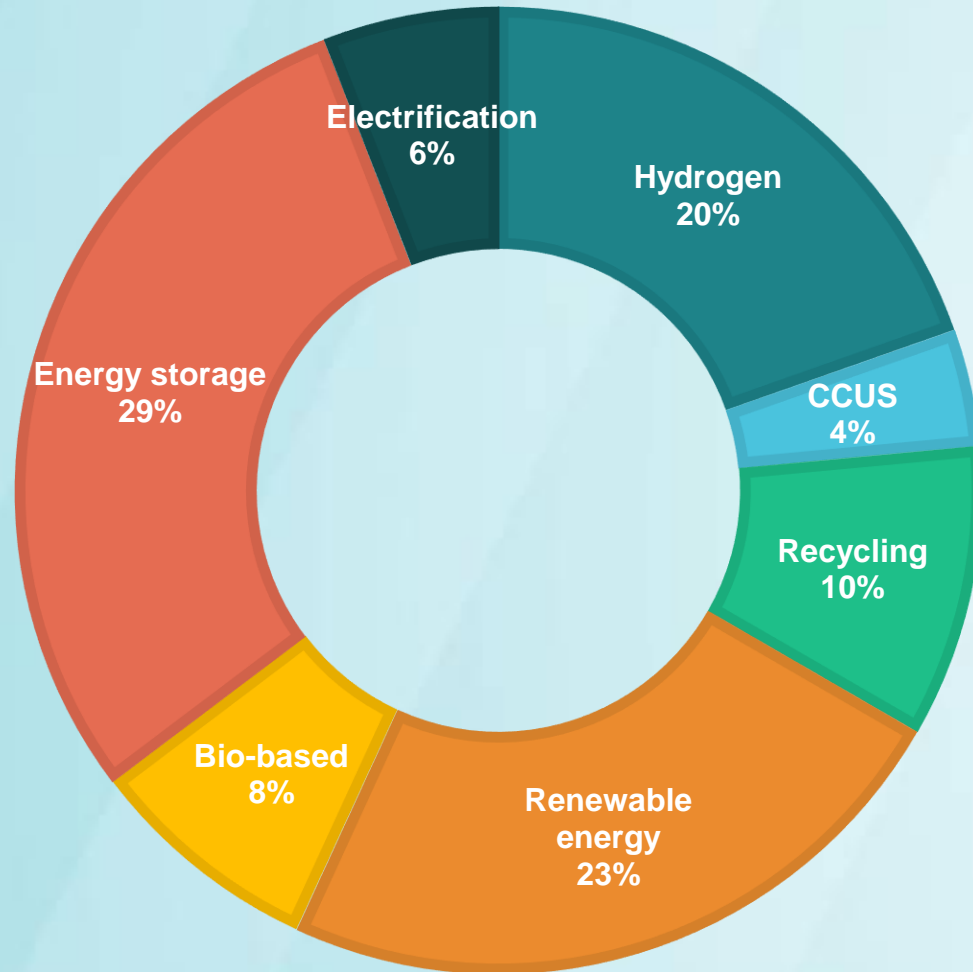
- |                                                                                                                              |                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  Biofuels and biorefineries                  |  Other energy storage      |
|  Chemicals                                   |  Bio-electricity           |
|  CO <sub>2</sub> transport and storage       |  Pulp and paper            |
|  Hydrogen                                    |  Refineries                |
|  Intra-day electricity storage               |  Renewable heating/cooling |
|  Iron and steel                              |  Solar energy              |
|  Non-ferrous metals                        |  Wind energy             |
|  Glass, ceramics and construction material |                                                                                                             |



\*Projects offered a grant under the first call for small-scale projects and project development assistance under the first call for large-scale projects.

\*\*The number of symbols is higher than the number of projects, as some projects are implemented in multiple locations.

# 32 successful small-scale projects



- **6 projects** where the coordinator or one of the partners is a public utility company/publicly-owned company (at least partially)

Examples of projects relevant at city/region level:

- Production of hydrogen (renewables, waste) for transport and other uses;
- Renewable energy for port, ferries, airport
- Smart grids – virtual power plants, vehicle-to-grid (V2G) systems
- Regional level: construction of large-power photovoltaic irrigation systems (PVI)

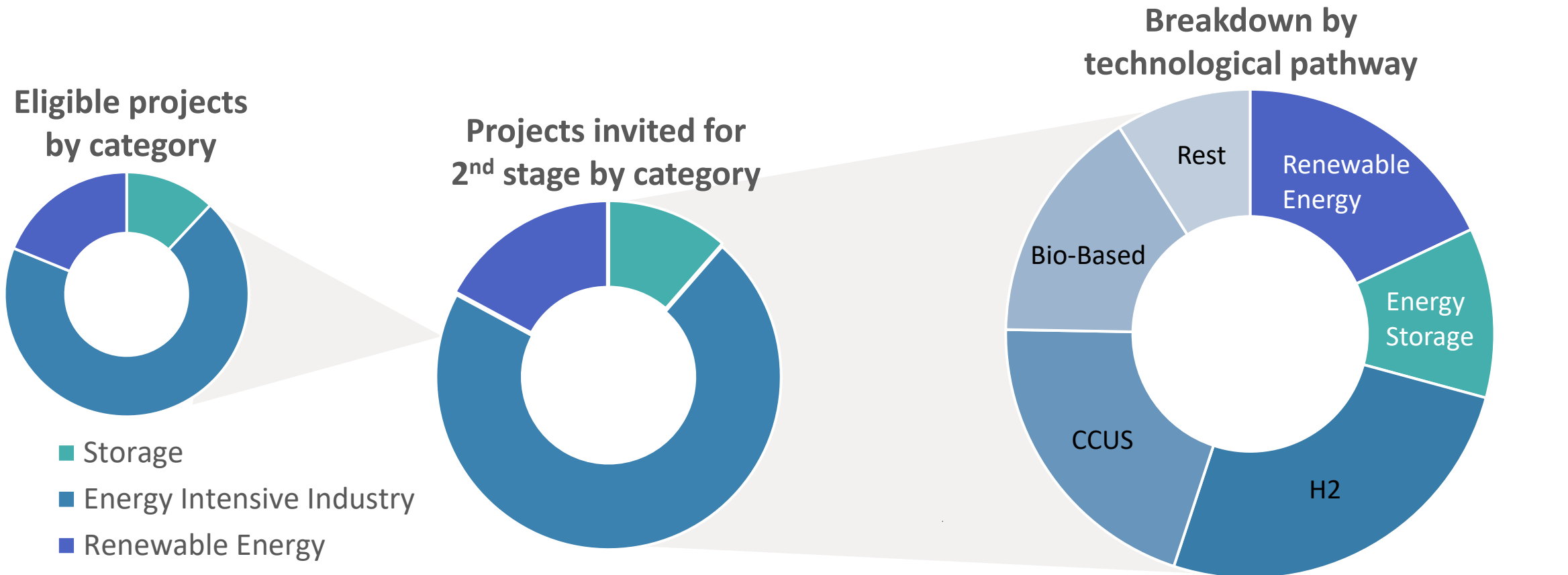
# Projects from cities and regions successful in the call for small-scale projects

- **AT:** The project, to be implemented by EVN in Lower Austria, aims to integrate multiple platforms into one entity (a virtual power plant - VPP) which brings flexibility in electricity demand from both households and businesses into the market.
- **IT:** Green hydrogen for the decarbonisation of Valcamonica, to be implemented by public companies. The project will produce and store green hydrogen in order to cover the local hydrogen demand from the mobility sector (including rail transport), industrial and logistics sectors.
- **ES:** The aim of the project is to transform a seaport into a self-managed energy community using renewable energies and storage technology.
- **PL:** To be implemented by Zespol, the project aims to build a pilot water electrolysis system to produce green hydrogen for use in the transport sector.
- **IS:** The project involves the design, construction and commissioning of a plant that dissolves CO<sub>2</sub> in water as it flows into subsurface basalt rocks, where it is fixed into stable carbonates: a process known as carbon capture and mineral storage (CCMS).
- **EE:** The project seeks to decarbonize maritime transport by integrating batteries into the propulsion system of a passenger/car ferry and allowing diesel engines to run only in challenging situation.
- **Full list of successful projects available on the Innovation Fund Website:**  
[https://ec.europa.eu/clima/policies/innovation-fund\\_en#tab-0-2](https://ec.europa.eu/clima/policies/innovation-fund_en#tab-0-2)

## ZOOM-IN ON PROJECTS BY CATEGORY

# PROJECTS INVITED TO 2<sup>ND</sup> STAGE COVER ALL TECHNOLOGIES

STABLE SHARE OF PROJECTS PER PATHWAY





# Projects from cities and regions in 2<sup>nd</sup> stage – call for Large-scale projects

## Projects include:

- Bio-energy carbon capture and storage (BECCS)
- Waste-to-Energy with CCS
- Geothermal energy (storage)
- Gasification of municipal waste to produce hydrogen

# Award Criteria

## DEGREE OF INNOVATION

- First-of-a-kind project at commercial scale

## GHG EMISSIONS AVOIDANCE

- Absolute emissions avoidance (*compared to sector*)
- Relative emissions avoidance

## PROJECT MATURITY

- Technical maturity
- Operational maturity
- Financial maturity

## SCALABILITY

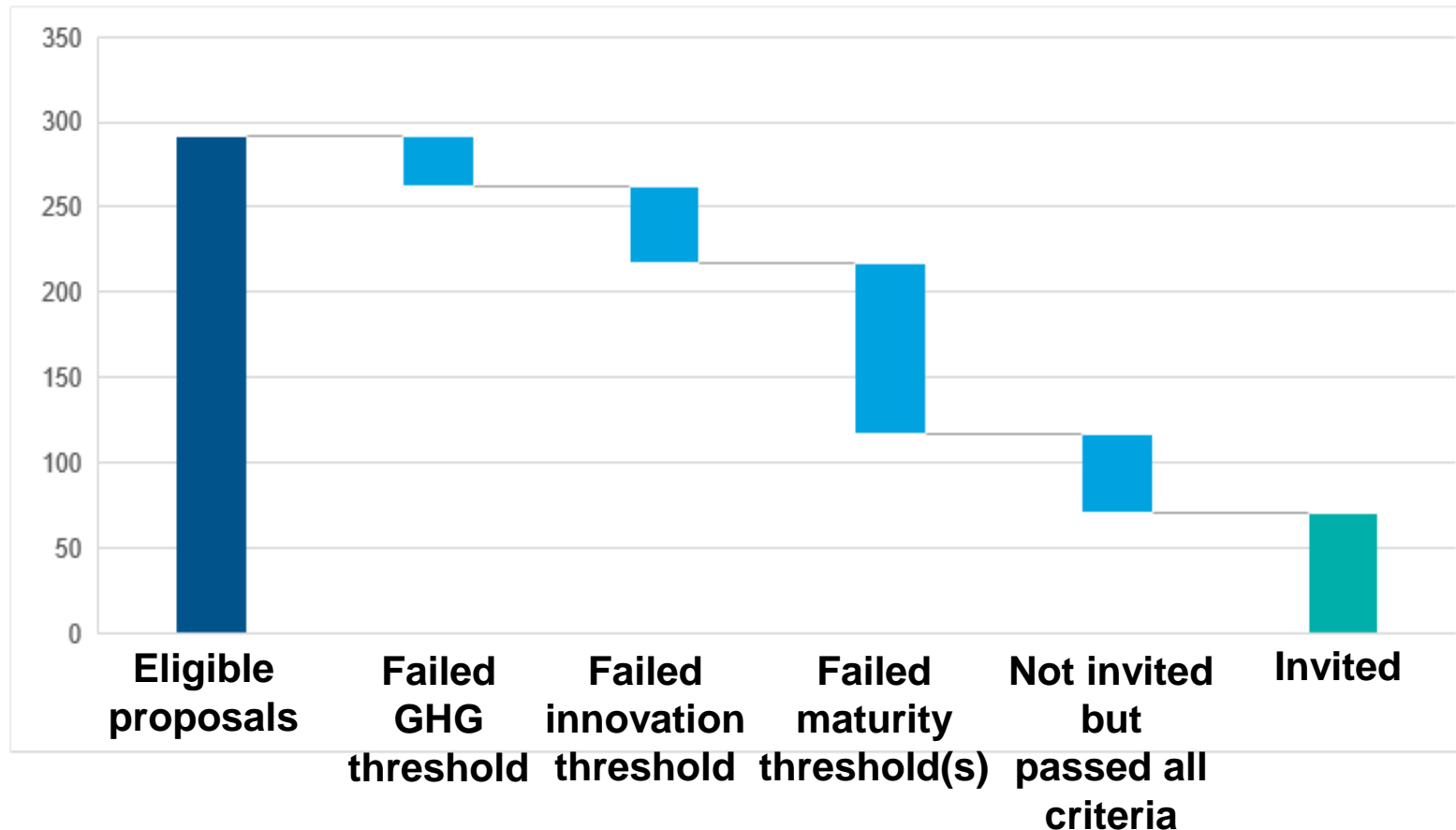
- Project & regional level
- Sector level
- Economy level

## COST EFFICIENCY

- EU contribution requested per tCO<sub>2</sub> avoided

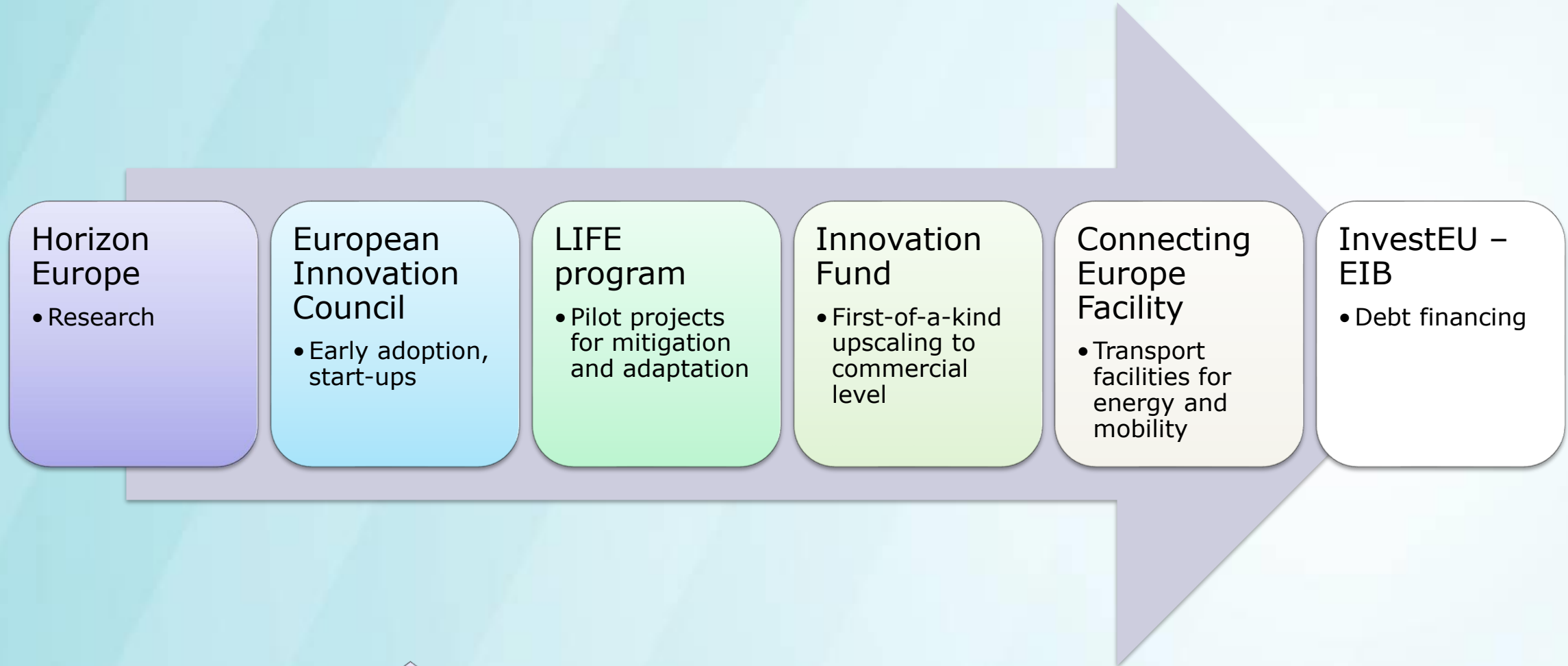
## SUCCESS FACTORS WITH CALL FOR LARGE-SCALE PROJECTS

# ON THE ROAD TO 2<sup>ND</sup> STAGE – HIGH NUMBER OF (VERY) INNOVATIVE PROJECTS FAIL ON MINIMUM THRESHOLDS FOR PROJECT MATURITY



- The high number of projects with good score on innovation but insufficient maturity highlights the opportunity for some projects to still improve further and stand a better chance of being invited in future calls
- Only degree of innovation, GHG emissions avoidance, and project maturity were evaluated for 1<sup>st</sup> stage of call for large-scale projects

# EU funding



National funding

# Second call for large-scale projects

## Grants

- Expected **launch** of **single-stage call** on **26 October 2021**
- Expected deadline for **submission** in **March 2022**
- Expected results in July 2022
- Expected **volume** of **EUR 1.5 billion**

## Project Development Assistance

- Support for projects with high potential but not yet mature for grants
- Up to 20 beneficiaries expected
- Expected results in Q3 2022

# Second call for small-scale projects

## Grants

- Expected **launch** of call in **March 2022**
- Expected deadline for submission late August 2022
- Expected results in Q1 2023
- Expected **volume** of **EUR 100 million**

## Project Development Assistance

- Support for projects with high potential but not yet mature for grants
- Up to 20 beneficiaries expected
- Expected results in Q2 2023

# Where to find more information?

All (past) call documents available on the Funding and Tenders Portal including

- ✓ *Guidance and calculation tools on GHG emissions and relevant costs*
- ✓ *Frequently asked questions*

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/innovfund>

Innovation Fund – YouTube:

<https://www.youtube.com/playlist?list=PLfRRcWLcpmM7CMWrfMI0DVIXI5GOkerFO>

*Further info, planning of new calls, recorded webinars and videos available on IF Website*

[https://ec.europa.eu/clima/policies/innovation-fund\\_en](https://ec.europa.eu/clima/policies/innovation-fund_en)

# Thank you



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