



InnoEnergy
Knowledge Innovation Community

Engineering innovation

2020-02-06

Johan Söderbom

Who we are:

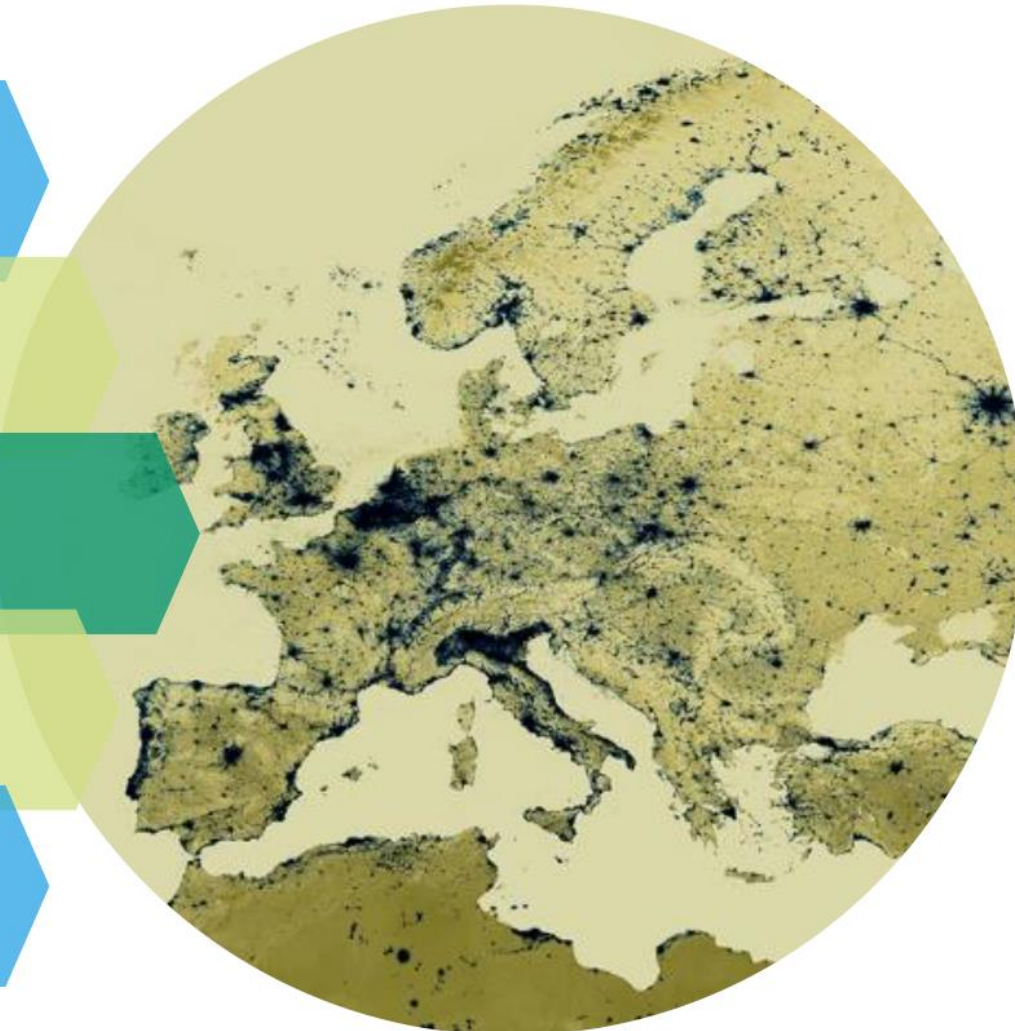
Europe's engine for innovation in sustainable energy

Empowering every stage of the innovation process

Investing in people, technologies, businesses

Established 2010: supported by the EIT

Public-private partnership aiming for financial sustainability

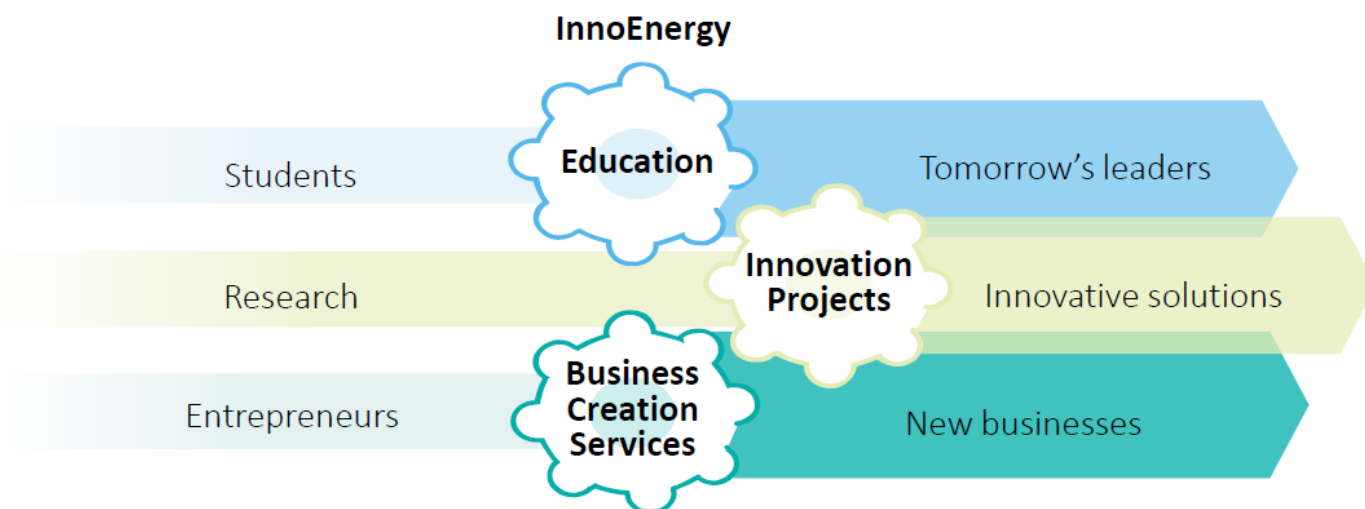
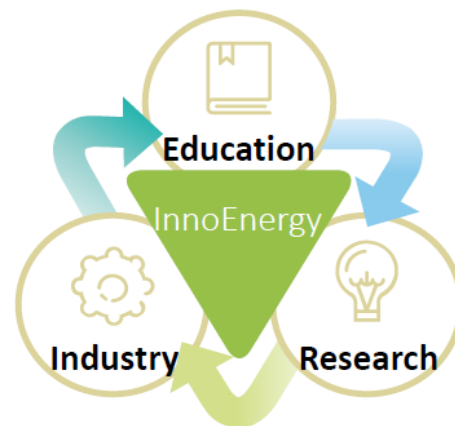


Our Goals:

- Reduce costs of energy
- Reduce CO₂ emissions
- Improve European competitiveness
- Create jobs

The Innovation Engine for Europe

Bringing the *Knowledge Triangle* to life



1 Euro public funding => 29 Euro growth

870+	260+
Master's student graduates	PhD candidates supported
98	120
Patents filed	Products and services supported
3	289+
Manufacturing facilities constructed	Early start-ups supported
210	167
Start-ups selling	M€ external investment raised
4120	
Business ideas captured	
450	9B€
M€ InnoEnergy investment	B€ forecasted sales

Technological and geographical covering



Energy for Circular Economy



Energy storage



Energy efficiency



Energy for Transport and Mobility



Renewable energies



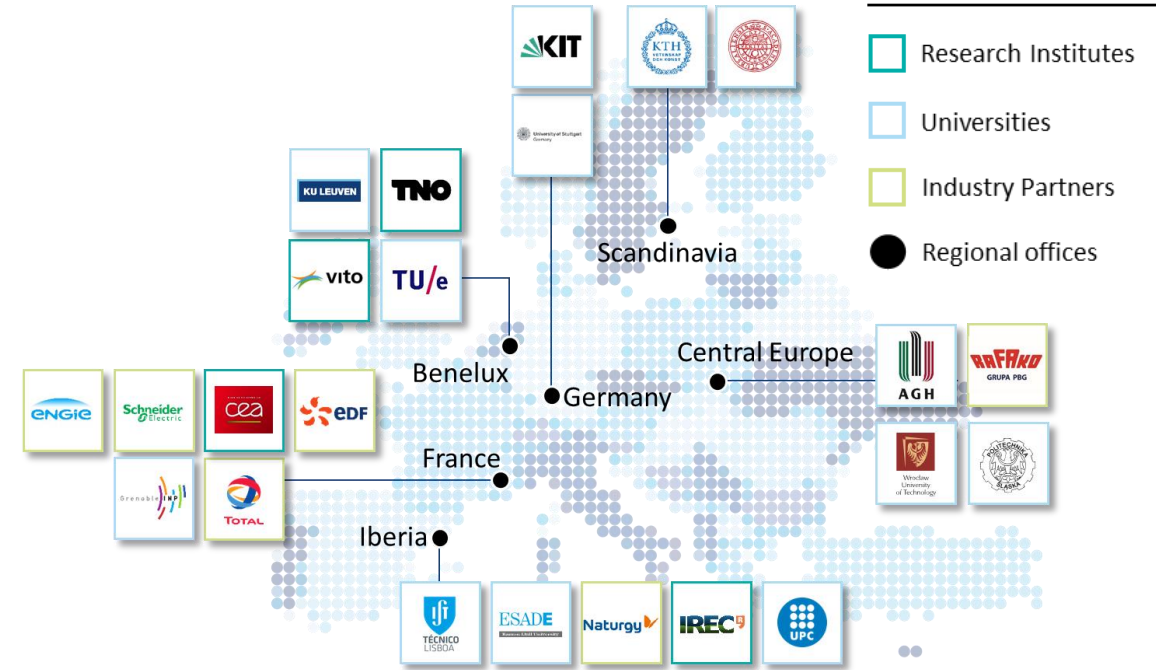
Smart and efficient buildings and cities



Smart electric grid



Nuclear instrumentation



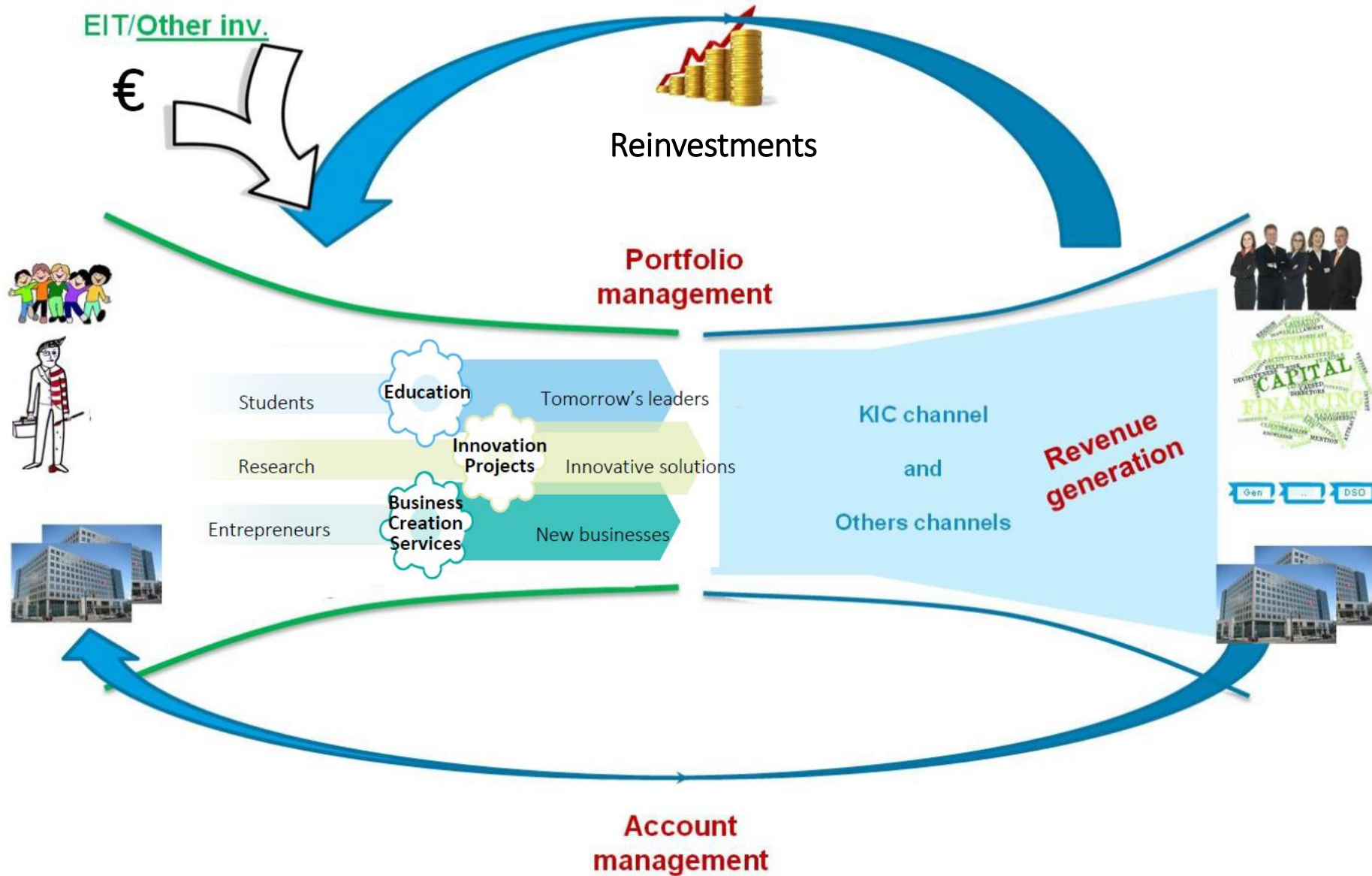
All figures correct as of February 2019

6 regional offices

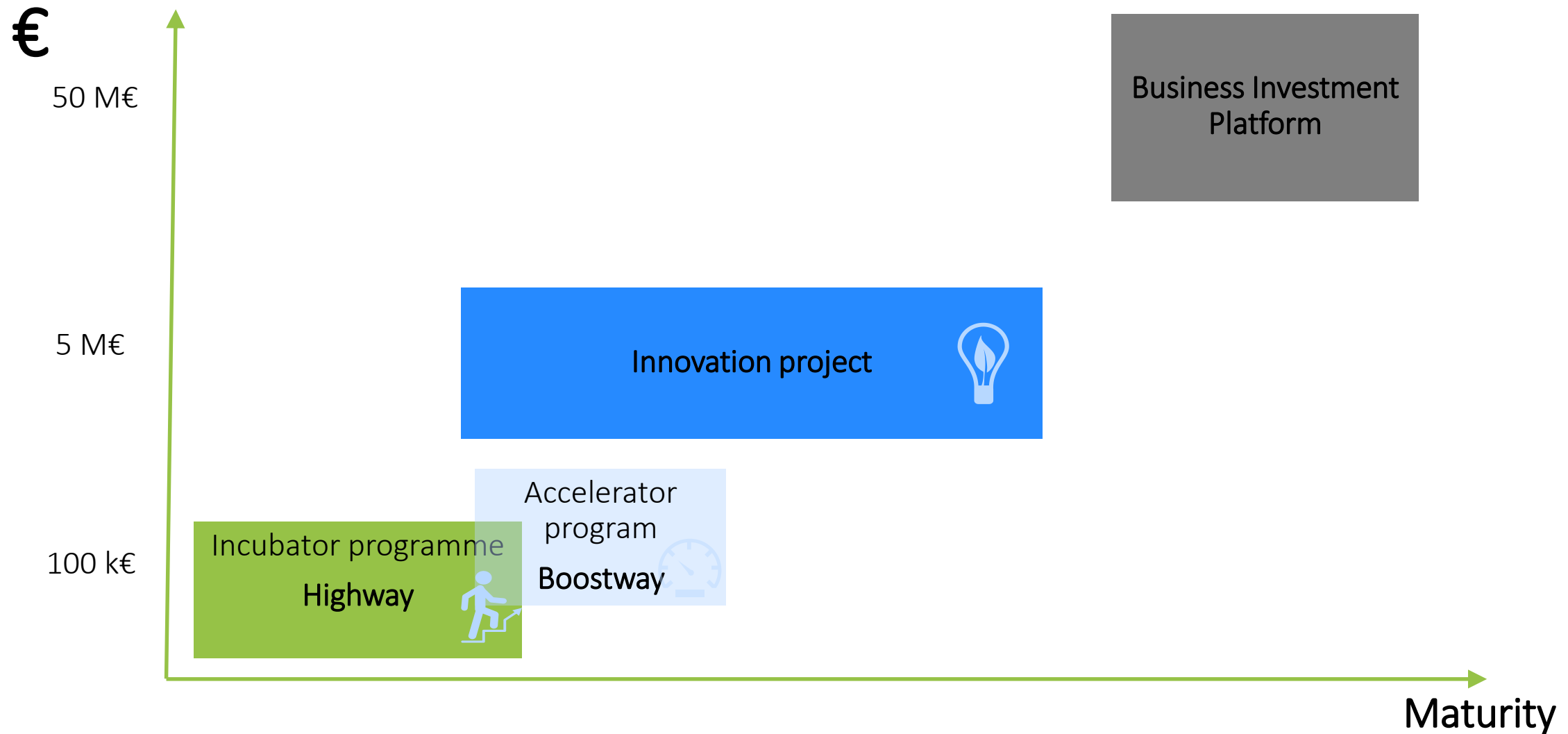
23 shareholders

430+ additional partners

Activities in 17 countries



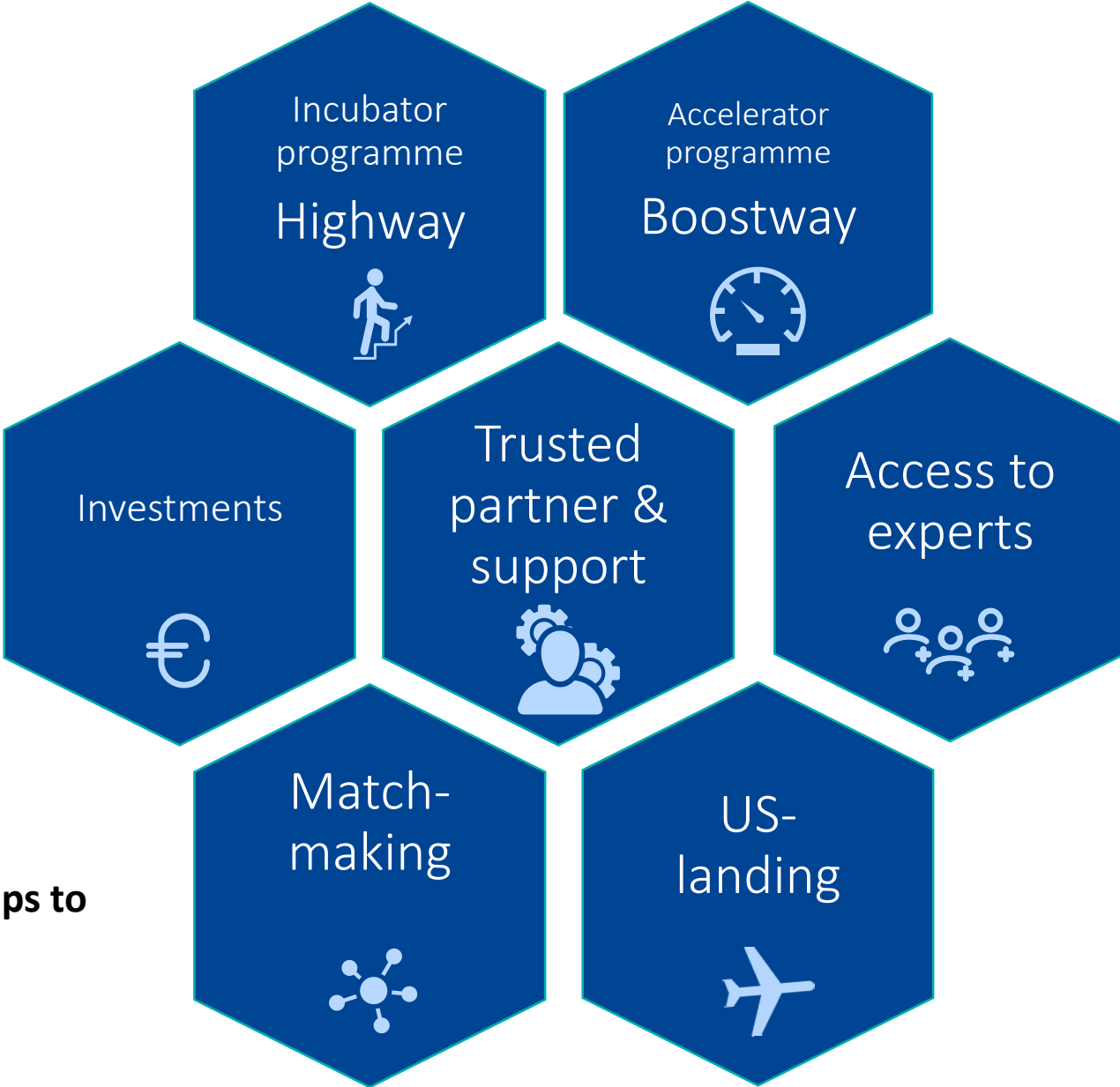
Funding from start-up to industrial establishment



Business creation

- Technology Fund
- Investment Fund
- Equity fund

To connect entrepreneurs and start-ups to markets and customers



Support from lab to launch



Countdown to success

Project duration
3 years or less

Time to market
5 years or less



TARGET

Start-ups, SMEs, large organisations



PROJECT BUDGET RANGE

€0.5-50M



TYPICAL VALUE InnoEnergy PARTICIPATION

€0.2-5M



EXPECTED RETURN

- Revenue sharing
- Royalties
- Equity



PROCESS

Consortia creation, proposal submission, reviews, feasibility study, project launch



AVERAGE PROJECT BUDGET

€2.6M



AVERAGE RATIO OF FUNDING

61% (InnoEnergy investment vs project budget)

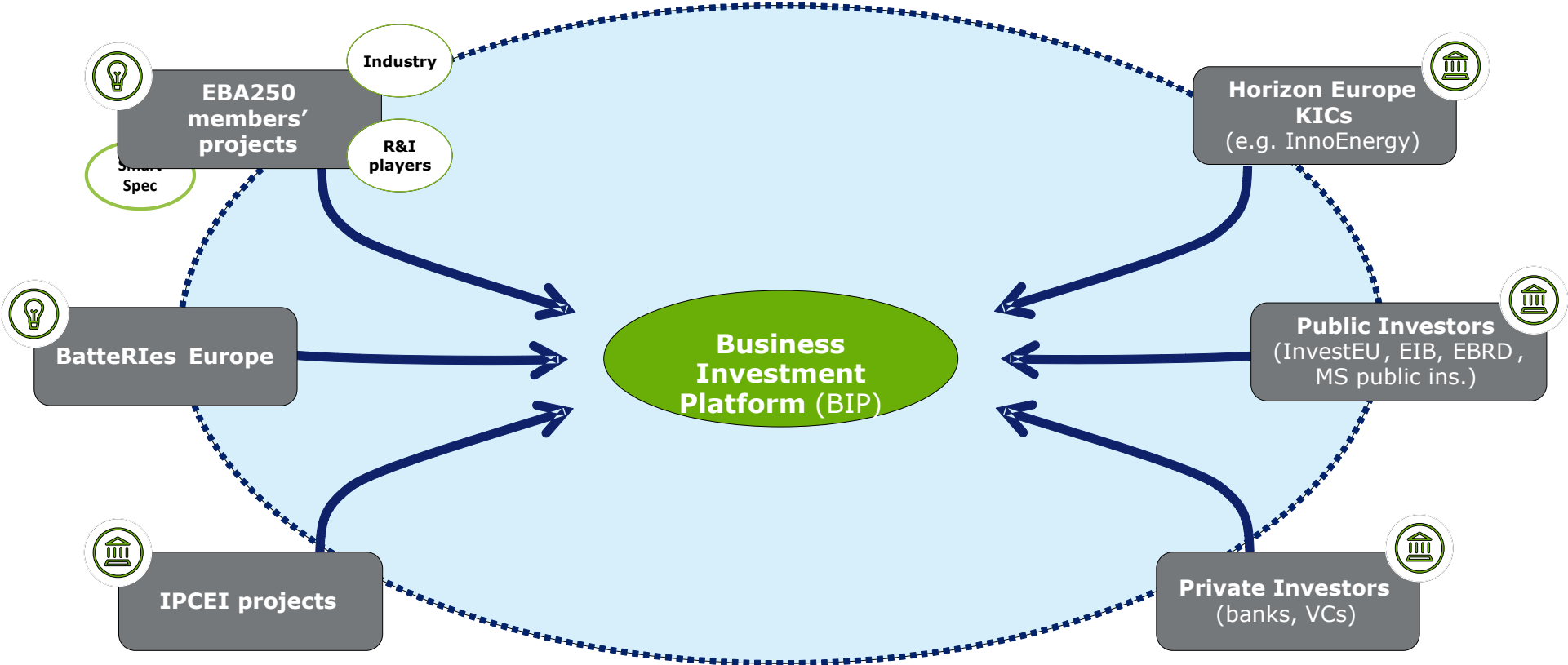


ROI EXPECTED

- 1X ROI within 5 years of project completion
- 5X ROI expected overall

Innovation Projects bring together innovators, researchers and industry to create commercially viable technologies that deliver real results. Further information can be found [here](#) and [here](#)

Different source streams for the investment cases



Highway®:



- Assessment
- Seed funding, public funding
- Team creation (Lab manger)
- Technology enhancement
- IP-protection
- Legal support
- Coaching

Innovation project:



- 1 M€ to develop and verify a high-speed DC circuit breaker module for 40 kV, 10 kA with operation time below 5 ms
- Building value added consortia for the development

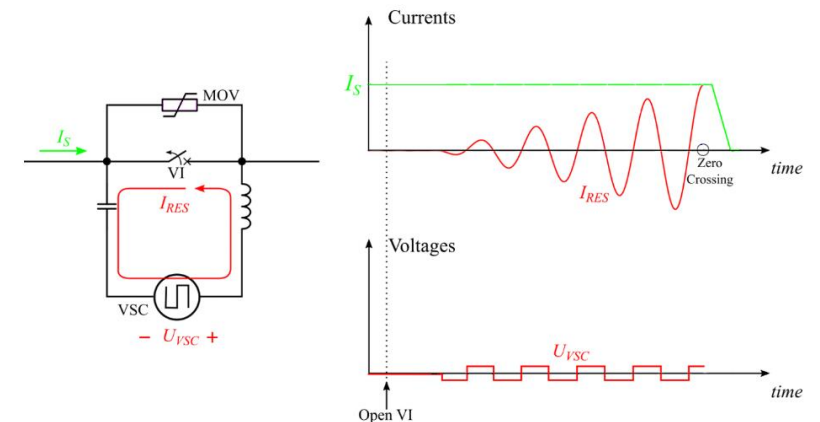
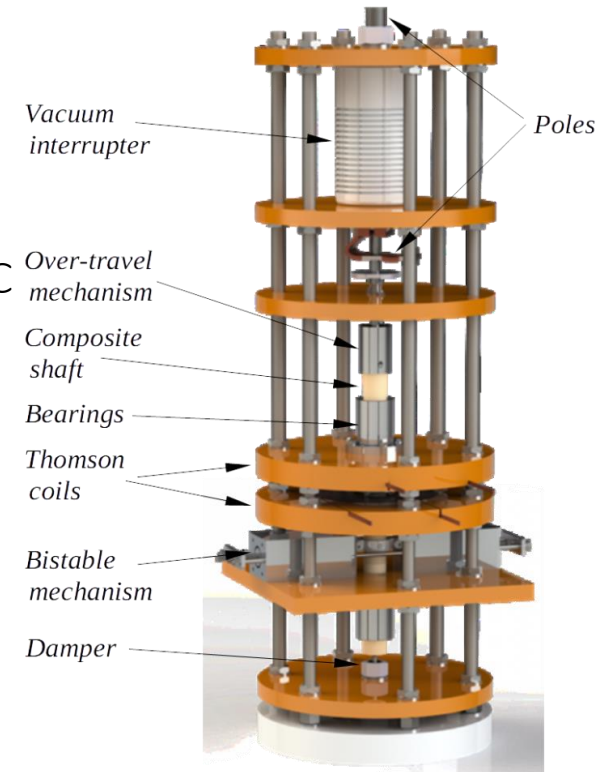


Commercial

- Product evolved and sold as fast AC breaker for railway applications.

SCiBreak

Ultra fast, low cost DC breaker



Innovation in energy storage – key examples

northvolt®

First large-scale battery factory in Europe



SKELE+ON TECHNOLOGIES

Next generation ultracapacitors for energy storage



Our role



Transformation from a Swedish to a European bankable project

Our role



Upscale of commercial production

Thank you, any questions?

Johan.soderbom@innoenergy.com

+46 70 52 83 517



www.innoenergy.com



InnoEnergy is supported by the EIT,
a body of the European Union