

Engineering Innovation

A sustainable energy future for Europe



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07/04/2016

About KIC InnoEnergy

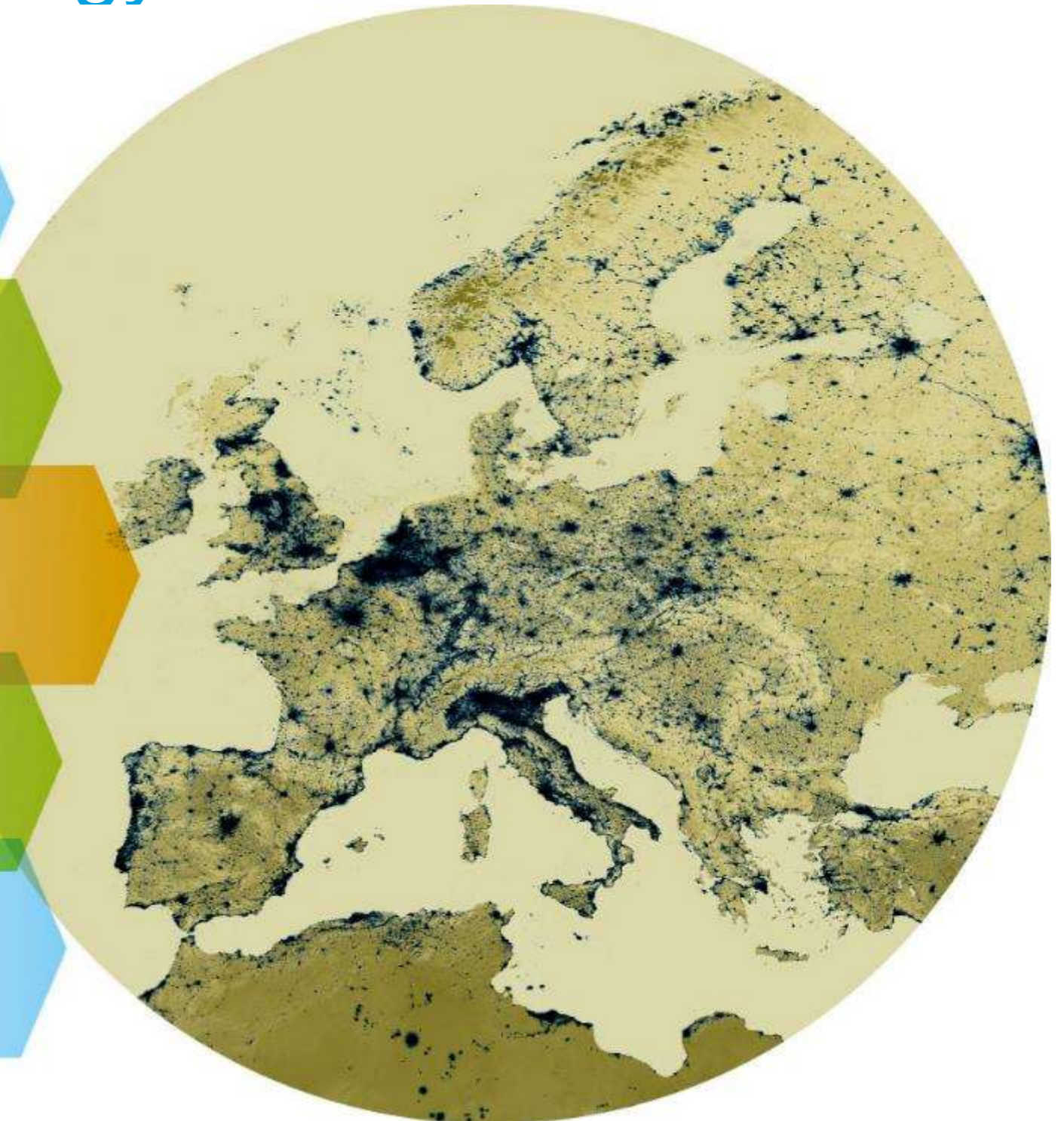
Europe's engine for innovation
in sustainable energy

Empowering every stage
of the innovation process

Investing in people,
technologies, businesses

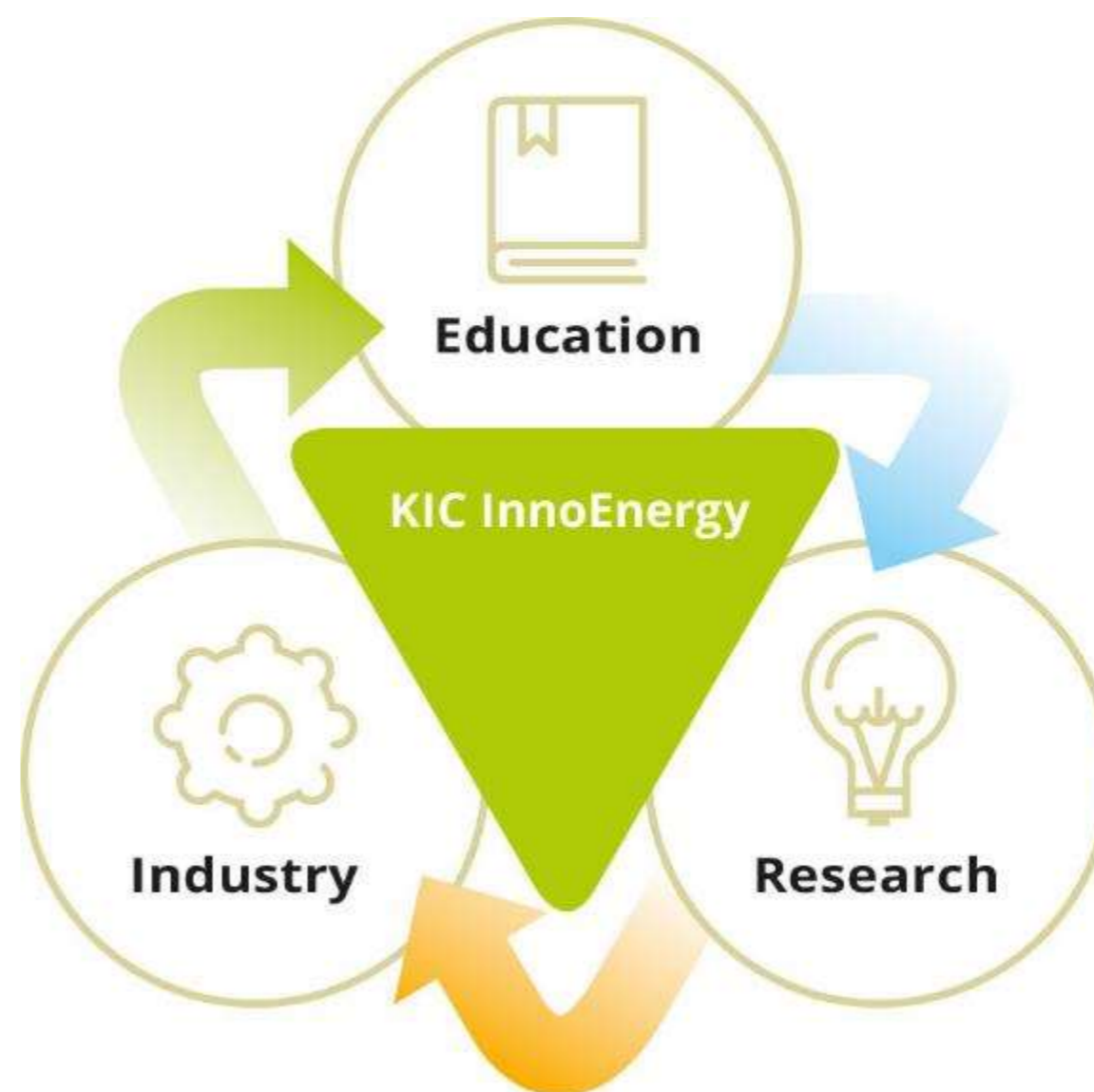
Established 2010:
supported by the EIT

Public-private partnership
aiming for financial sustainability

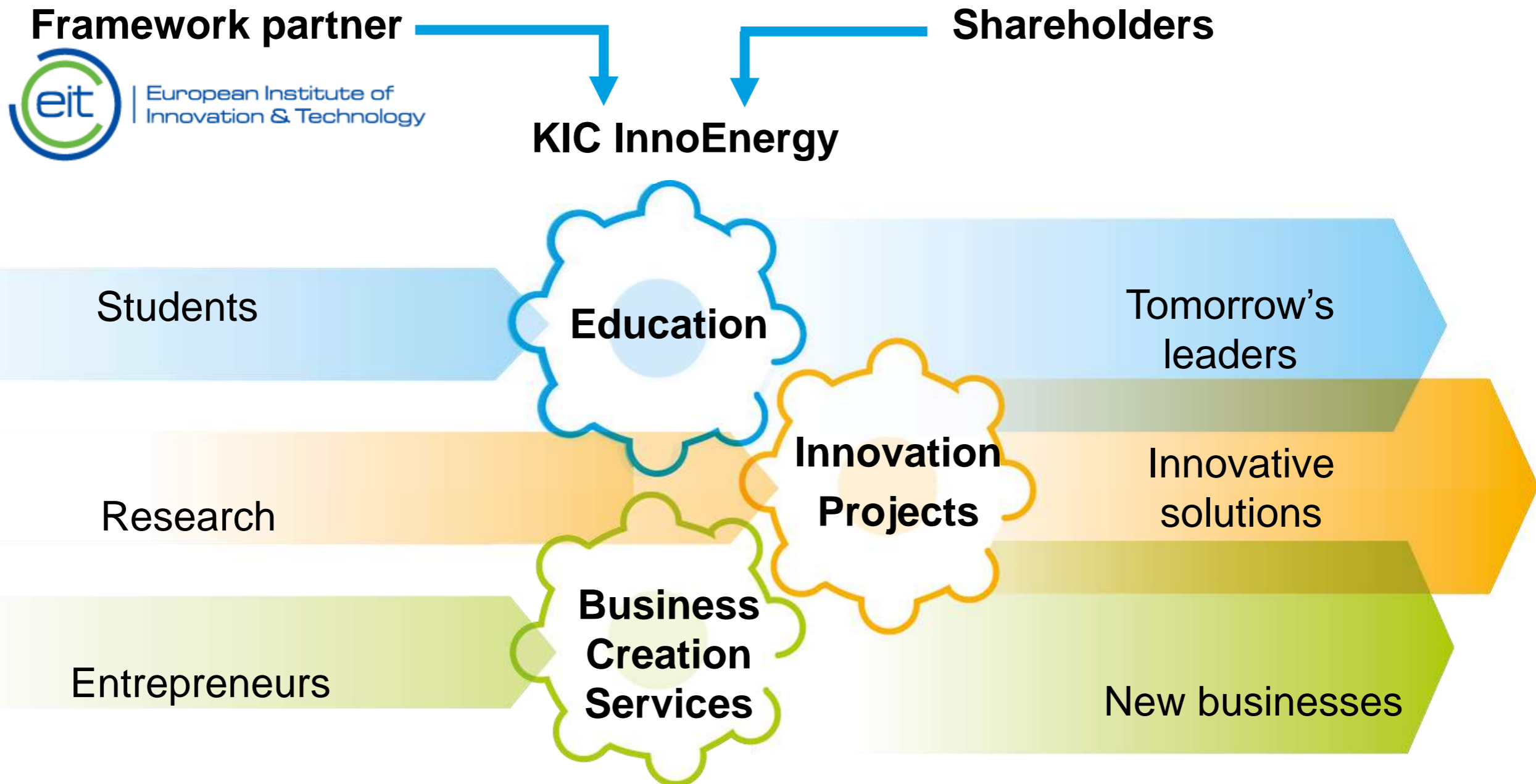


Bringing the *Knowledge Triangle* to life

- Strengthen EU innovation
- Creates tomorrow's entrepreneurs
- Increases sustainable growth
- Encourages global competitiveness



The Innovation Engine for Europe



Our goal: sustainable energy

Ensure security and safety of supply

Reduce costs in the energy value chain

Reduce CO₂ emissions

Improve European competitiveness

Remove barriers to innovation

Encourage sustainable growth

Create jobs

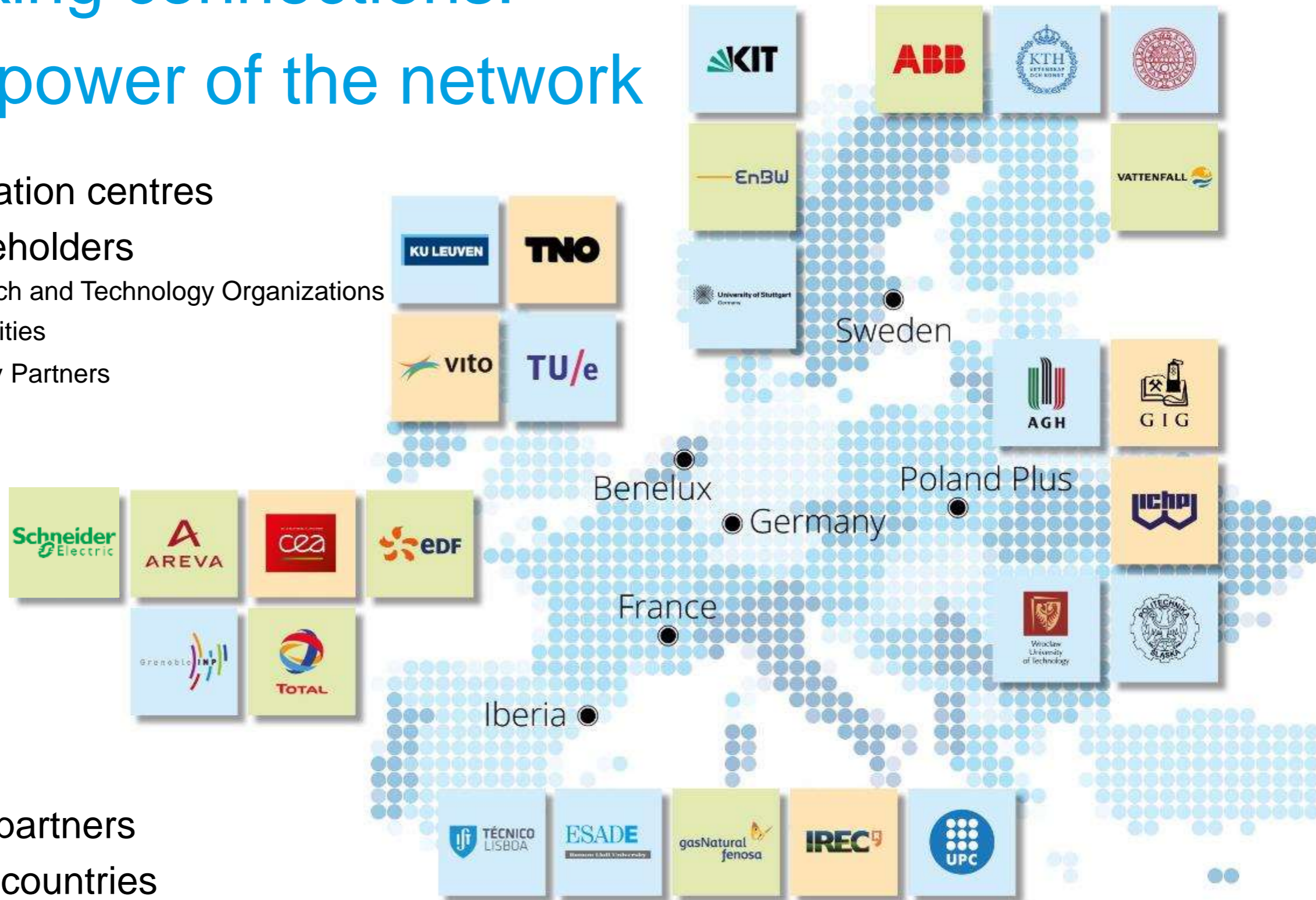


Making connections: the power of the network

● 6 co-location centres

27 shareholders

- 31% { Research and Technology Organizations
- 31% { Universities
- 63% { Industry Partners
- 7% { Others



160 additional partners
Activities in 17 countries

About KIC InnoEnergy France

French partners

6 FRENCH FORMAL PARTNERS



6 FRENCH ASSOCIATED PARTNERS



39 FRENCH PROJECT PARTNERS

Partners (formal, associate, project)

Industrials

ABB
Alfen
Areva*
Eandis
EDF*
EDP
EnBW
Gas Natural Fenosa
ENGIE*
HDSN*
Iberdrola
inno AG
MetalERG
Novargi
Raigi*
Schneider Electric*
Steinbeis-Europa-Zentrum
S'Tile*
TAURON Group
Total*
Vattenfall

Research centers

CEA*
Central Mining Institute
CIEMAT
Fraunhofer
Institute for Chemical Processing of Coal
IREC
kiEMT
Laborelec
Tecnalia
TNO
VITO

Universities

AGH University of Science and Technology
Aix-Marseille University*
BarcelonaTech (UPC)
Eindhoven University of Technology
ESADE
Grenoble Ecole de Management*
Grenoble Institute of Technology*
INSA Lyon*
Instituto Superior Técnico
Jagiellonian University
Karlsruhe Institute of Technology
KTH Royal Institute of Technology
KU Leuven
ParisTech*
Silesian University of Technology
University of Stuttgart
Uppsala University
Wrocław University of Technology

European investors community dedicated to Cleantech

ABB Technology Ventures
Aster Capital*
Capricorn Venture Partners
Demeter Partners*
Emerald Technology Ventures
ES Ventures
Electranova Capital*
Icos Capital
Inversiones Financieras Perseo
Munich Venture Partners
Suma Capital
Total Energy Ventures*

In addition to the KIC InnoEnergy partners, the start-ups have a privileged access to this community.

*French partners

Our ecosystem: key collaborators



ENERGY CLUSTERS



CLEANTECH VC



FINANCERS



PRESCRIBERS



For every stage of the innovation journey



Innovation
Projects



Business
Creation Services



Education

Connecting ideas and industry, innovators and business partners

Simplifying the journey from lab to launch



Partners, skills and resources



Market needs and potential customers



Shorten time to market



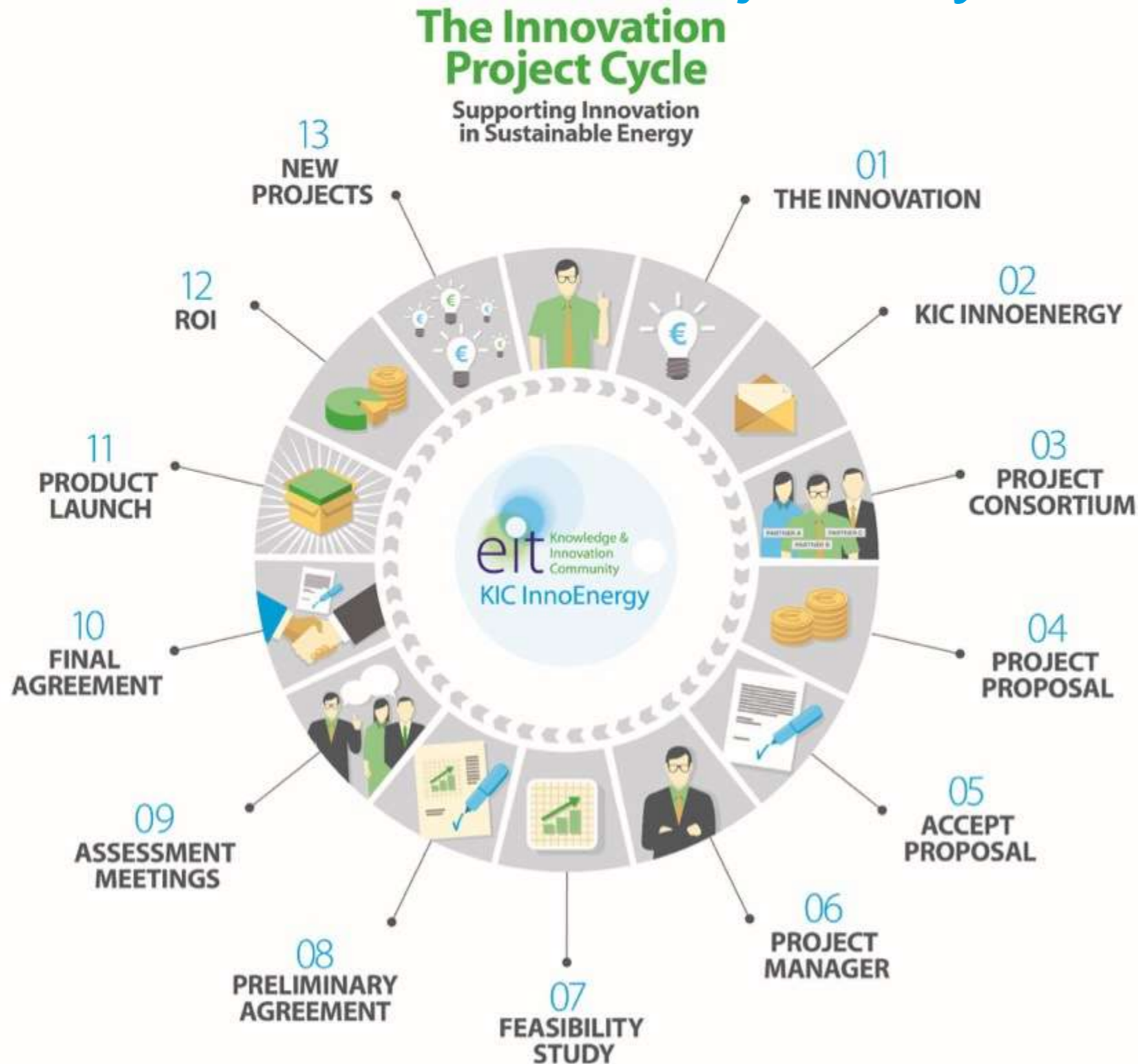
Funding



A commercial product in 5 years

**Expanding the circle of innovation
in Europe's energy sector**

The Innovation Project Cycle



24
Solutions used
by industry

4
in France

3
Manufacturing
facilities constructed

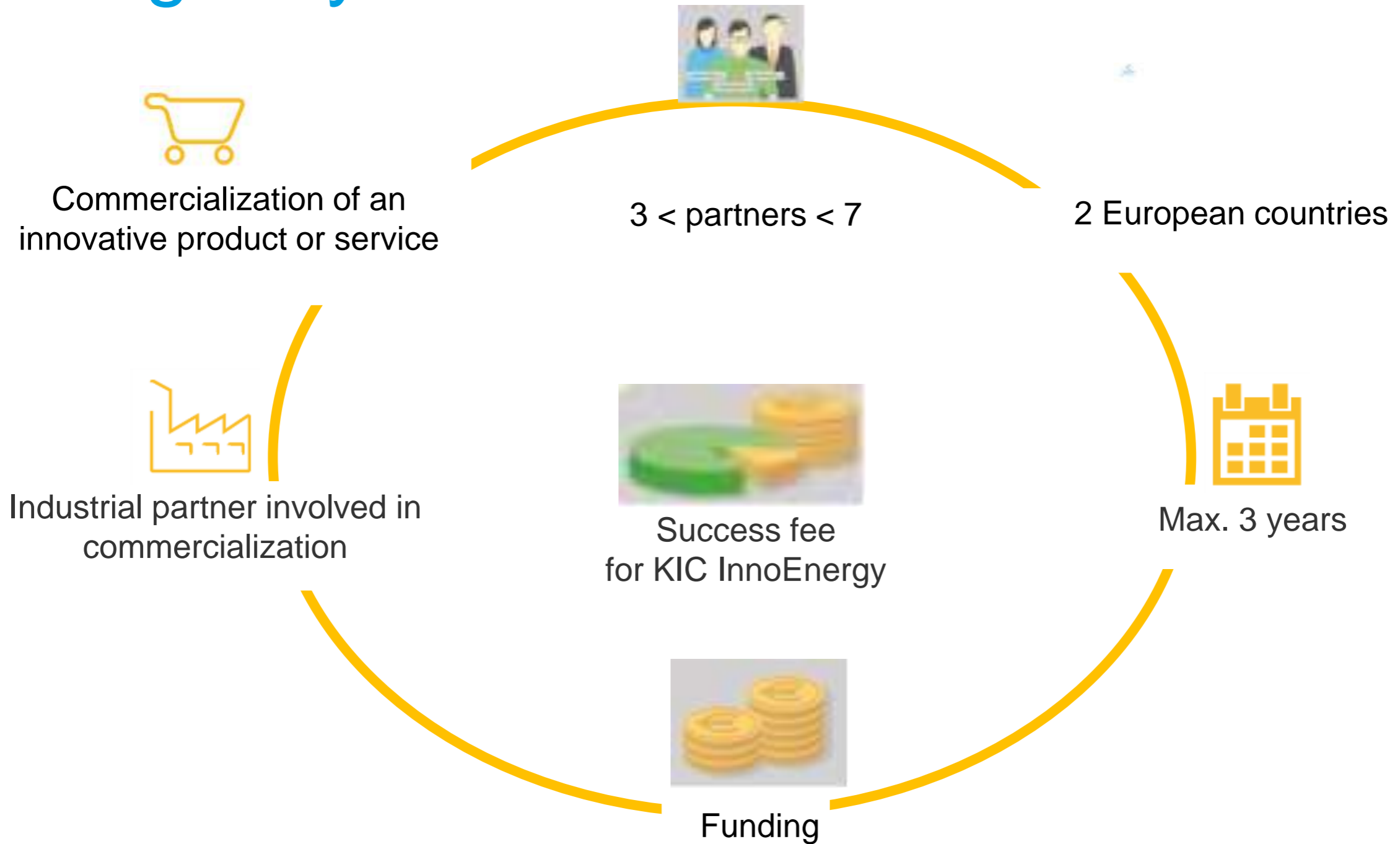
59
Patents filed

10
in France

160
Project partners
across Europe

36
in France

Eligibility criteria



From project selection to project execution

Project Selection Process



Project Execution from WPO to WPn



For every stage of the innovation journey



Innovation
Projects

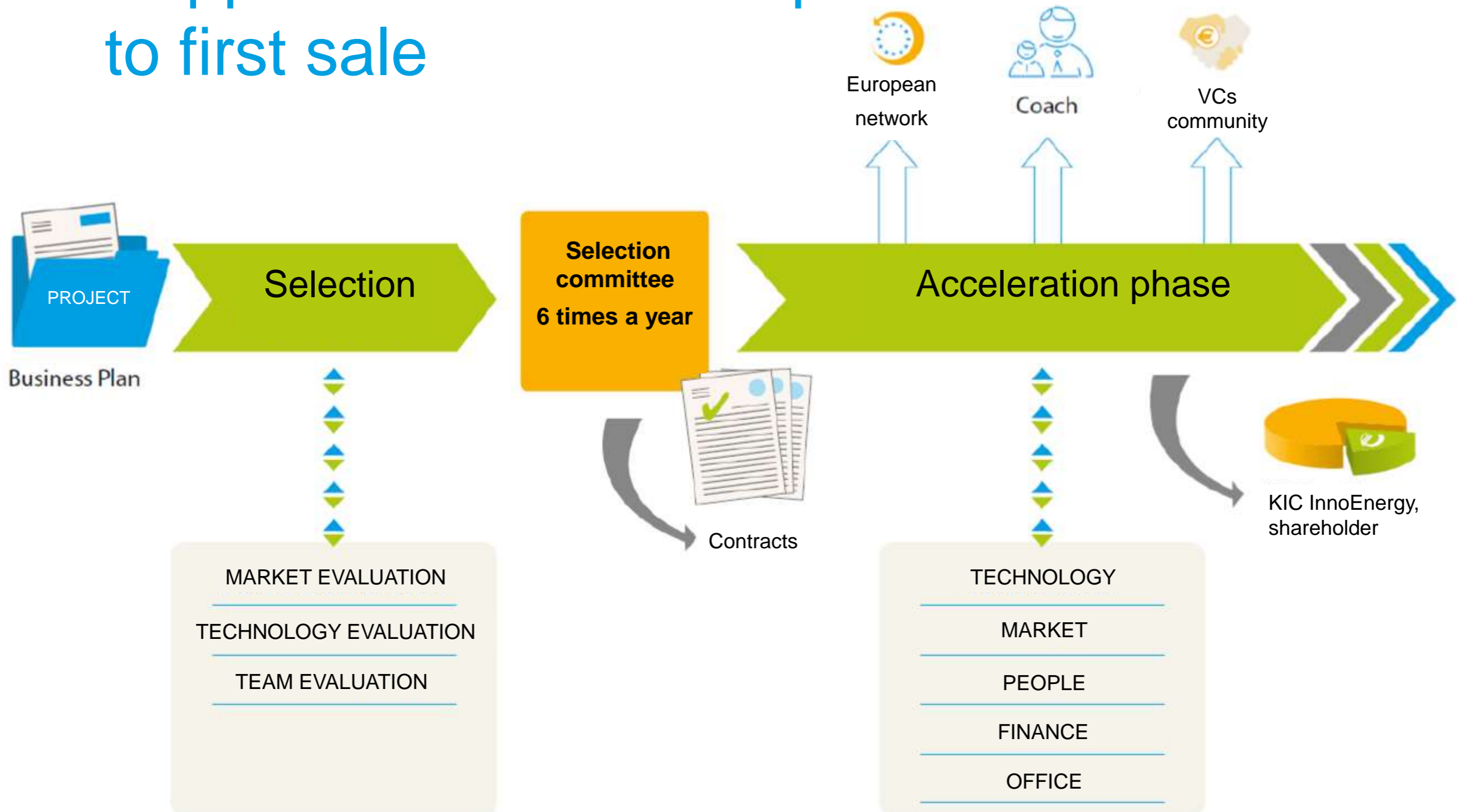


Business
Creation Services



Education

Support from business plan to first sale



Our services



Technology:

- Due diligence
- Mapping vs. competing products/services
- IP protection
- Technology enhancement or development
- Piloting
- Industrialization



Market:

- Opportunity assessment
- Market positioning
- Business case
- Customer discovery and validation
- Business modelling
- Business plan
- Commercialization



Finance:

- Access to seed money
- Access to KIC InnoEnergy VC community
- Access to Business Angel networks



People:

- Team competences
- Staff complementarities
- Trainings and workshops
- Support to hiring



Incubator:

- 750 m² dedicated to collaboration
- Incubator: 21 seats
- Shared meeting rooms and coworking spaces

4 activity fields



SMART AND EFFICIENT BUILDING AND CITIES

Dom'Innov

Offering exceptional structural and thermal performance



ENERGY EFFICIENCY

Energiency

Developing disruptive energy big data analytics solutions



RENEWABLE ENERGY

Dracula Technologies

Making devices energetically autonomous



STORAGE

NAWA Technologies

Producing an ultra-fast and long life green battery



12

Early start-ups supported

29

in France

66

New companies created

16

in France

30

million euros of external investment raised

13,

in France

1513

Business ideas captured

296

in France

French portfolio 1/2



SMART AND EFFICIENT BUILDING AND CITIES



Modular wall system offering exceptional structural and thermal performance

blokiwood.fr

EP Tender

On-demand range extending service for electric vehicles

eptender.com

G.boost

Two-in-one bicycle: normal or electric

gboost.bike/fr



Bioluminescence for showcase and urban property

glowee.eu

gulplug

A NEW WAY TO CONNECT

Magnetic plugs

gulplug.com



Designing and manufacturing connected objects

hdsn.fr



Automated energy

ogga.eu



Hot water for your buildings thanks to the datacenters' heat

stimergy.com



Off-grid solar solutions for housing in Africa

upowa.org



ENERGY EFFICIENCY



Optimisation of the buildings' energy renovation

ecotropy.fr



Software for the energy efficiency in the industry

energiency.com



Photovoltaic greenhouse for the energy and agronomy efficiency

gramma-gam.com

French portfolio 2/2



RENEWABLE ENERGY



Heat supplier thanks to agricultural residues

agronergy.fr



Purification and upgrading of biogas

arol-energy.com



Hybrid power input for mobile network off-grid sites

cysalys.com



Energy mobility

dracula-technologies.com



Hybrid solution for rooftop

epcsolaire.fr



New generation of solar trackers

helioslite.com



On-demand hydrogen production

hysilabs.com



Hybrid solar solution for the domestic and collective market

solable.fr



Forecasting of the solar production

steady-sun.com



STORAGE



Energy autonomy and sustainable mobility thanks to hydrogen

atawey.com



Recovery, storage and upgrading of the energy for heavy industry

ecotechceram.com



Ultra-capacitor with high performance

nawatechnologies.com

For every stage of the innovation journey



Innovation
Projects



Business
Creation Services



Education

Educated individuals, engaged researchers, better business



Master's School

- 7 programmes
- 11 universities
- 2 business schools
- 8 countries
- Lifelong community



PhD School

- Customised training
- Commercial disciplines
- Access to partners' facilities
- Business Creation Services and Innovation Projects



Executive and post-Master's education

- Executive MSc in Energy Engineering and Management
- MSc Innovation and Entrepreneurship
- PDEng in Smart Energy Buildings and Cities
- Online module in Social Innovation and Transition in Energy

The French Education offer

Master School

MSc EMINE

PhD programme

French PhD students

Executive Master

MSC/MBA Energy
Efficiency

Learning Modules

X/HEC
entrepreneurship



Our alumni

"I will have a chance to continue working in the same domain as during my thesis."



Marcin Firla,
PhD Graduate
recently hired by EC System
in Cracow

"Long-term vision is the key to the future"



Roberta Cirillo,
MSc EMINE
Research engineer, CEA
Grenoble

"Versatility, entrepreneurship and international experience"



Joeri Siborgs,
MSc Energy for Smart Cities
R&D project engineer,
Elia Brussels

46

Graduates from
our Master school
and PhD school

81
from French
Universities

8000

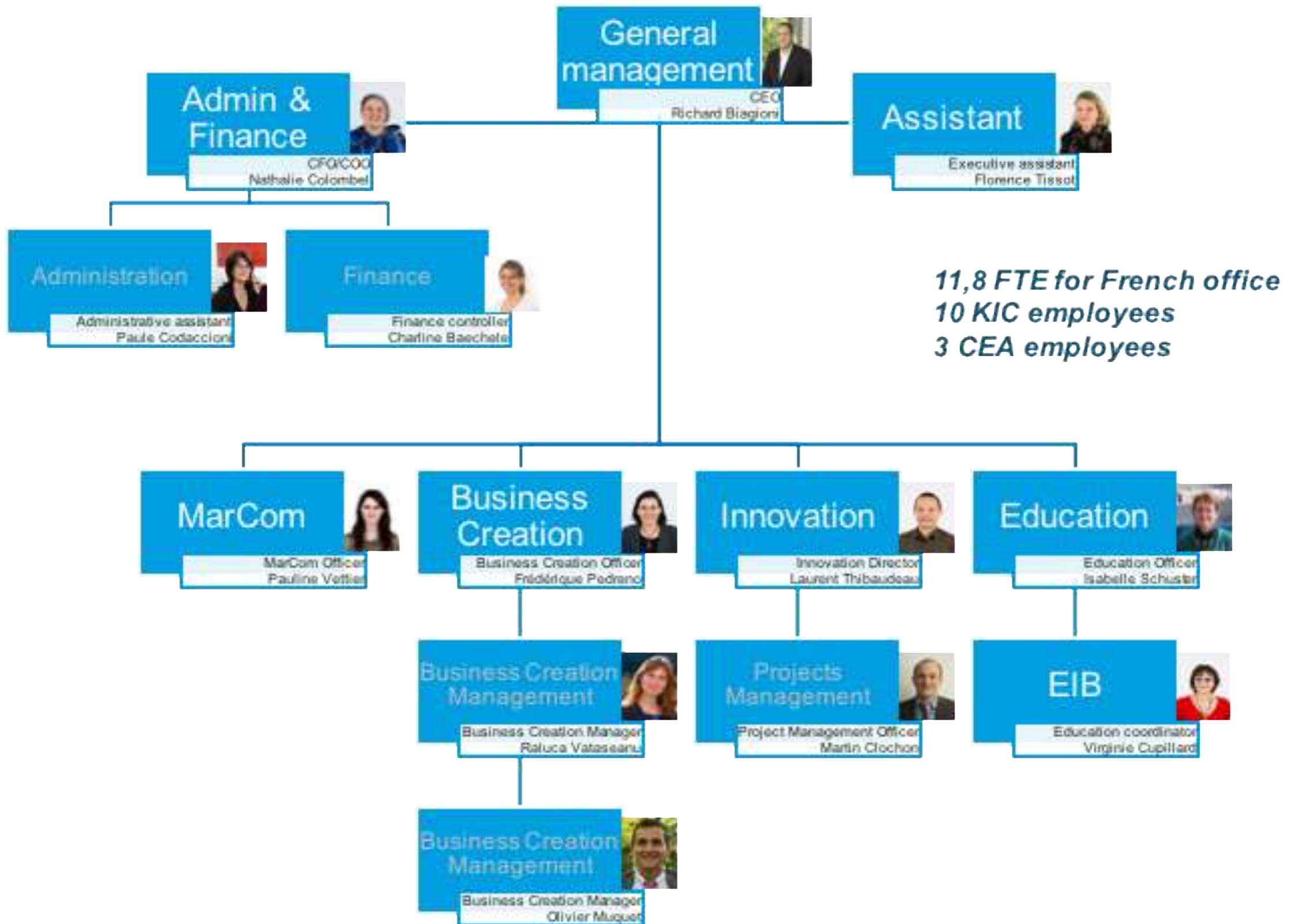
Applicants to
KIC InnoEnergy
Master's School

93%

Graduates who find
a job within six months
of graduating

15%

Average annual
salary earnings
over graduates
of similar programmes



KIC InnoEnergy France also hosts 5.5 FTE of central functions

A 750 m² office
dedicated to innovation,
and designed to host teams,
meetings and to incubate start-ups
(21 seats)



EnergyLab

Create an iconic “innovation in energy” place, with Tenerrdis

Offices KIC IE, Tenerrdis, SMEs

Incubator





Workshops

In-house services





Thank you

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-  twitter.com/KICInnoEnergy
-  linkedin.com/company/kic-innoenergy
-  youtube.com/user/InnoEnergy

