

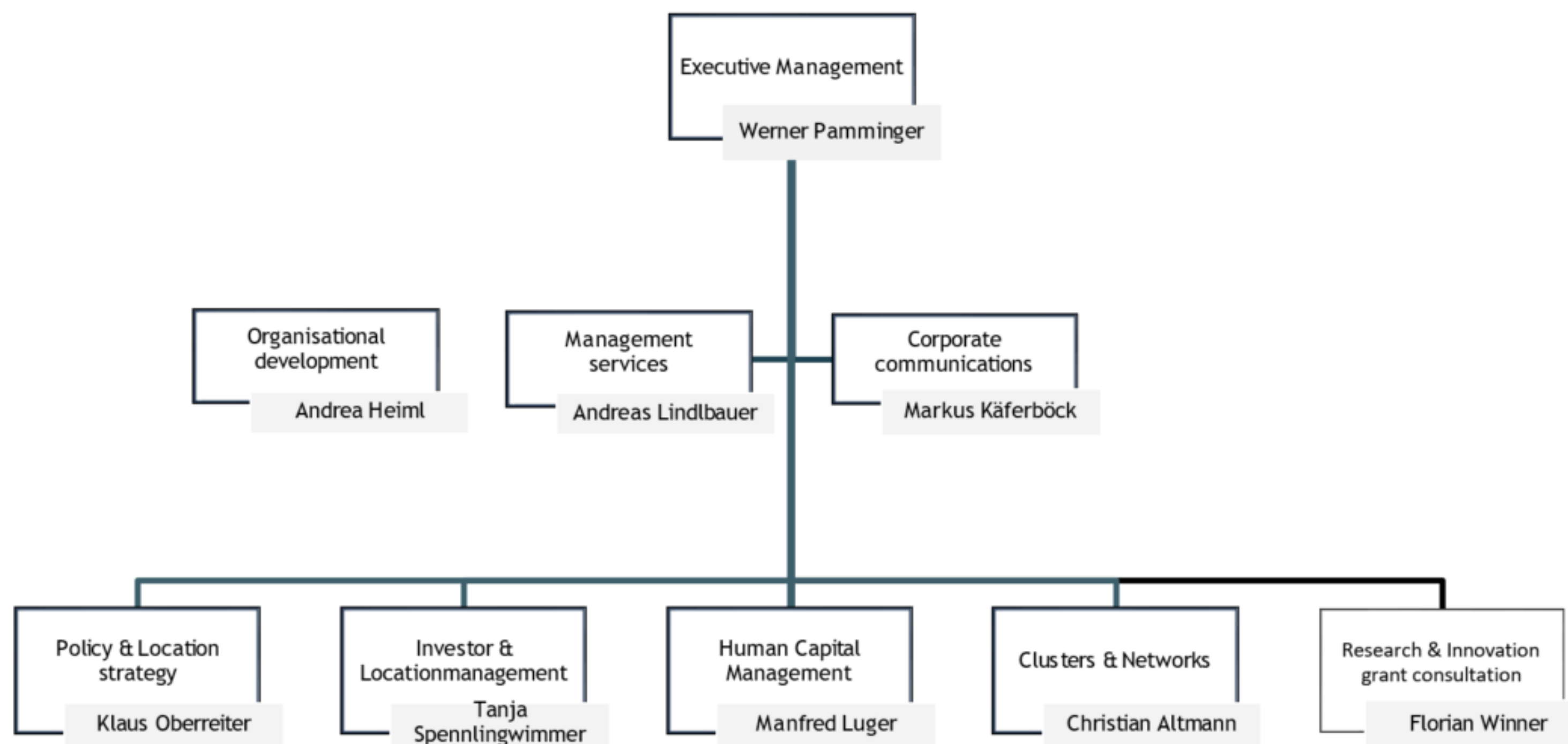
Cluster & the decarbonisation of industry: “The Upper Austrian Way”

Christoph Reiss-Schmidt, Business Upper Austria – OÖ Wirtschaftsagentur GmbH

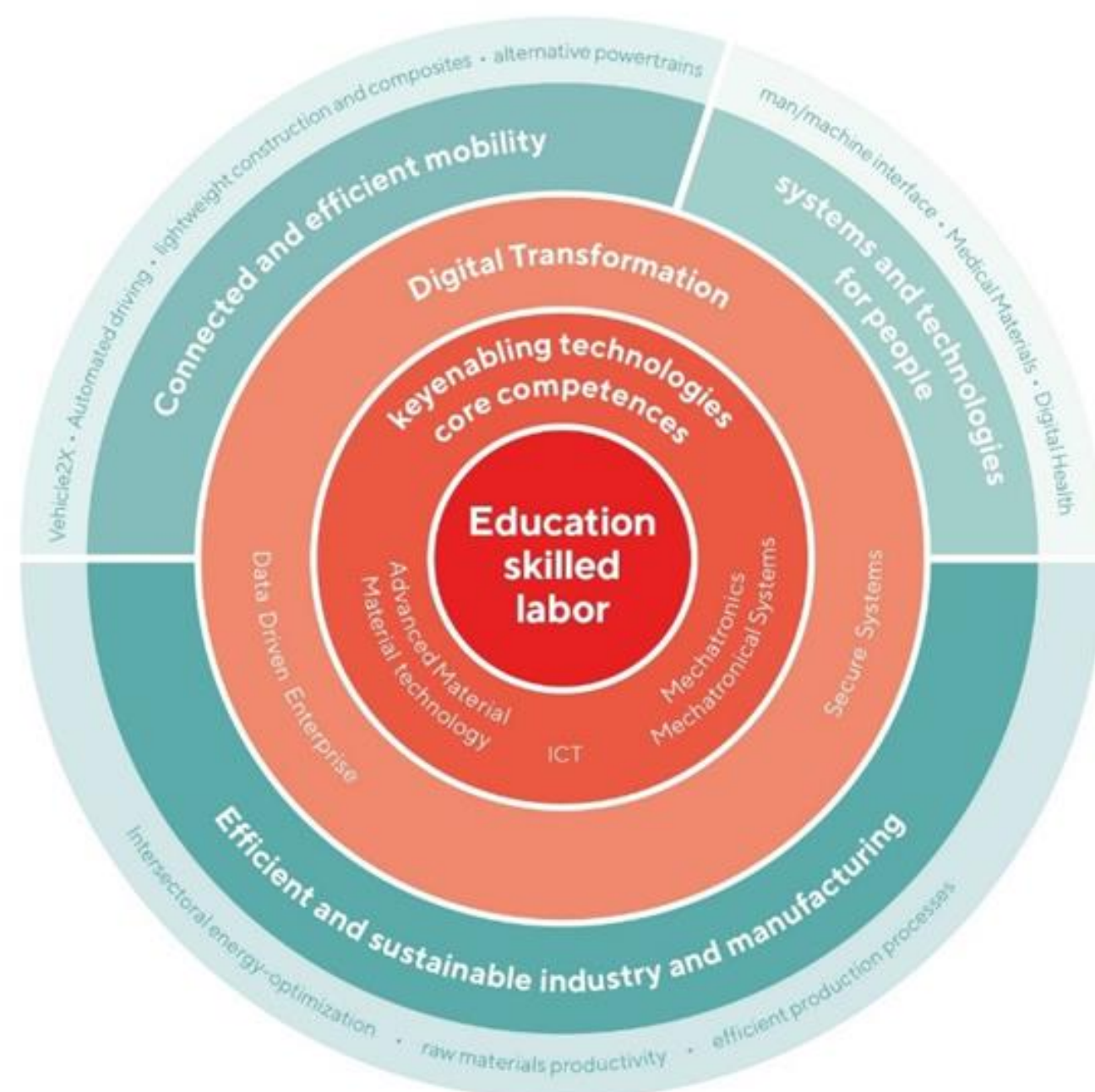
Business Upper Austria: Your One-Stop-Shop

**Customised services from the business idea to market
success**

Organisational chart



#upperVISION2030



“Strengthen regional strengths, dare to try something new” - the strategic orientation focuses on existing regional strengths and competencies and attempts to develop them steadily.

Strengthening of existing and support for new exporting companies; increasing number of “start-ups”, more research & technology-oriented companies.

Economic sustainability of the industrial and research location.

Creation and preservation of sustainable jobs through early recognition and identification of disruptive developments, customer needs and fields of application and the development of new business models



Facts - figures – data: Cluster and Cooperations

2,205
partners - of whom
81%
SMEs

contact in focus
> **2,256** company
meetings on-site / year

813
Regional cluster cooperation projects
with
2,992 companies and
€ 170 million project volume*.
More than
2,000 cooperative measures* and
> **20** third party fund projects.

Expert knowledge
> **338** events
> **500** speakers
> **11,000** participants

162 experts from
industry, science and education
on advisory boards,
33 board meetings per year for
strategic orientation of cluster
initiatives

Key topics

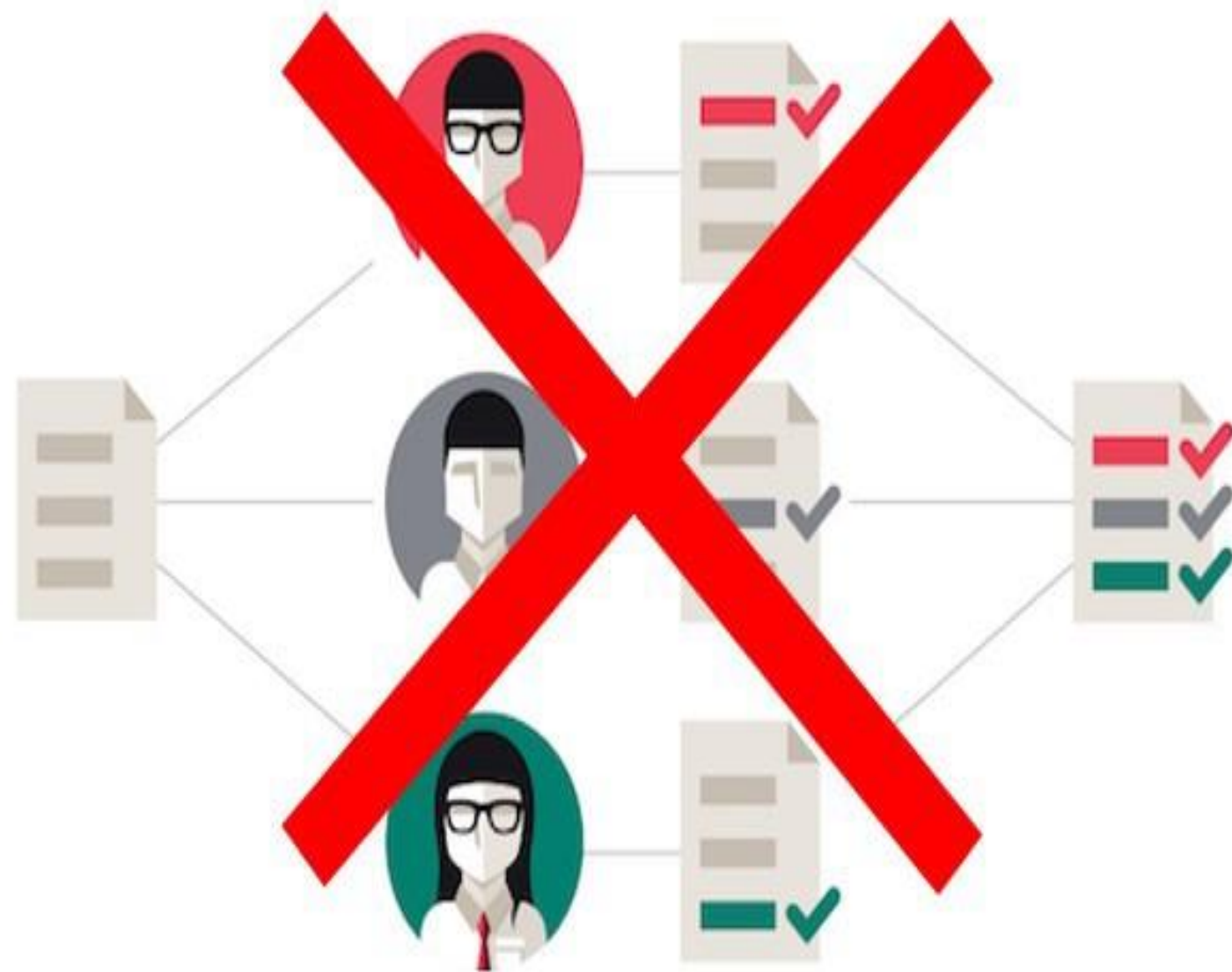


Internationalisation, lightweight construction,
process optimisation, smart mobility
Smart plastics, lightweight construction, plastics
manufacturing technologies and optimisation
Development of mechatronic systems, Industry
4.0, Service innovation
Innovative wood construction, design
competence and process optimisation for
woodworkers, sales
Entering and converting to MT, transfer research
industry, MT and IT
Energy and environmental technologies,
internationalisation, circular economy
Data security, digitalisation
Software quality
Food and drink technologies, quality
management, new business models
Relocation and location management,
accelerator - business incubation

*since the founding in 1998



Cooperation vs. Collaboration



NEW ENERGY FOR INDUSTRY



The NEFI innovation network of science, technology providers and companies demonstrates a pathway towards the decarbonisation of industry.



FLAGSHIP REGION ENERGY

FTI initiative Flagship Region Energy:

The Climate and Energy Fund of the Austrian government will invest up to 120 million Euros in 3 flagship regions. Focus areas of “Flagship Region Energy” are:

- Model solutions with up to 100% renewable energy
- Strengthening Austria as a leading market for innovative energy technologies
- Largest value for the population

Three Flagship Regions:

Green Energy Lab: Flexibilisation and digitalisation of electricity and heat networks NEFI

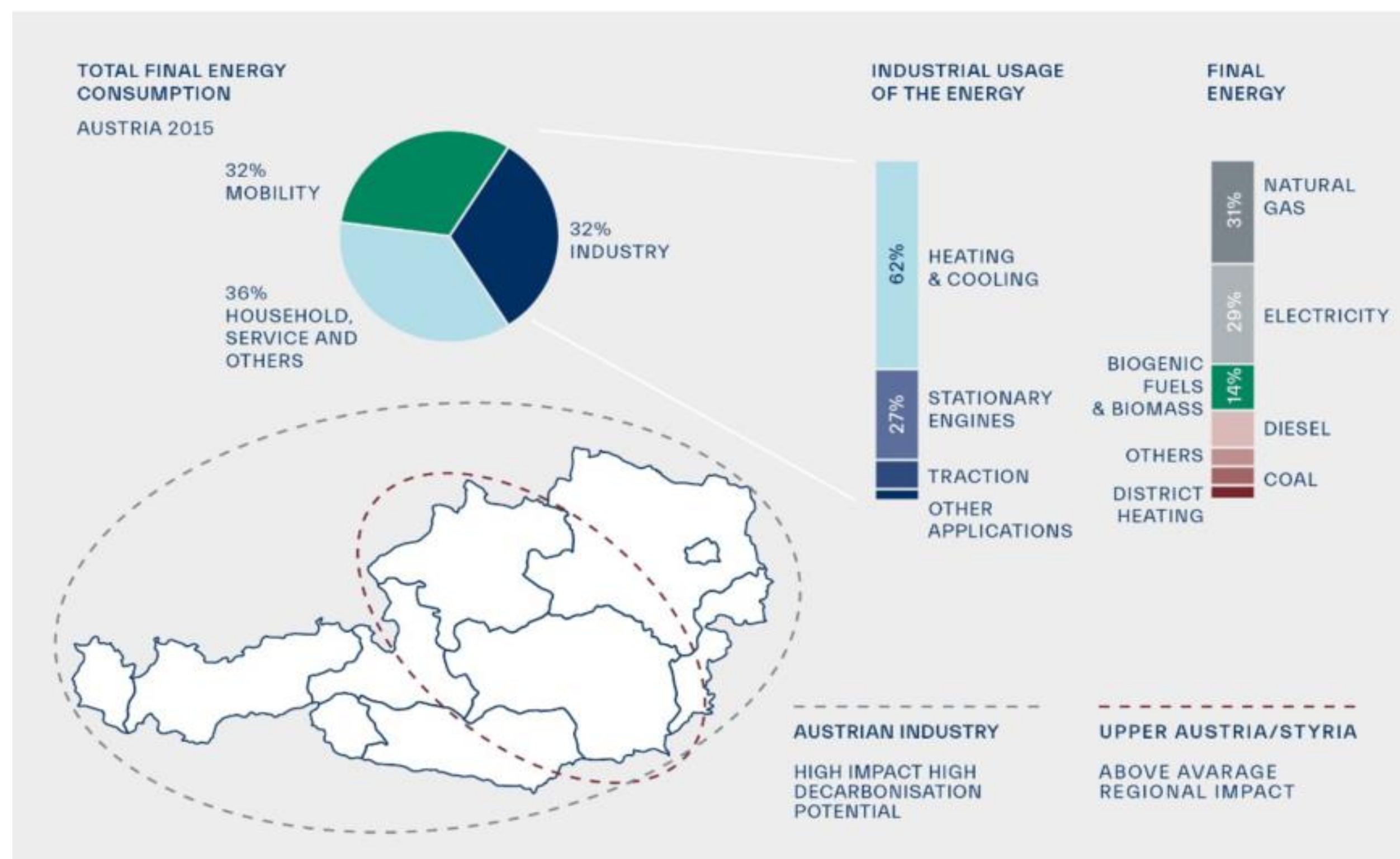
– New Energy for Industry: Decarbonisation of the Austrian Industry

WIVA P&G: Green Hydrogen for energy supply, industry & mobility



NEFI – BACKGROUND & GOALS

Industry accounts for 32% of Austria's final energy demand



Decarbonisation
of industrial energy systems

100 % renewable energy supply at
selected locations

Added value "Made in Austria"

through export and technology
development

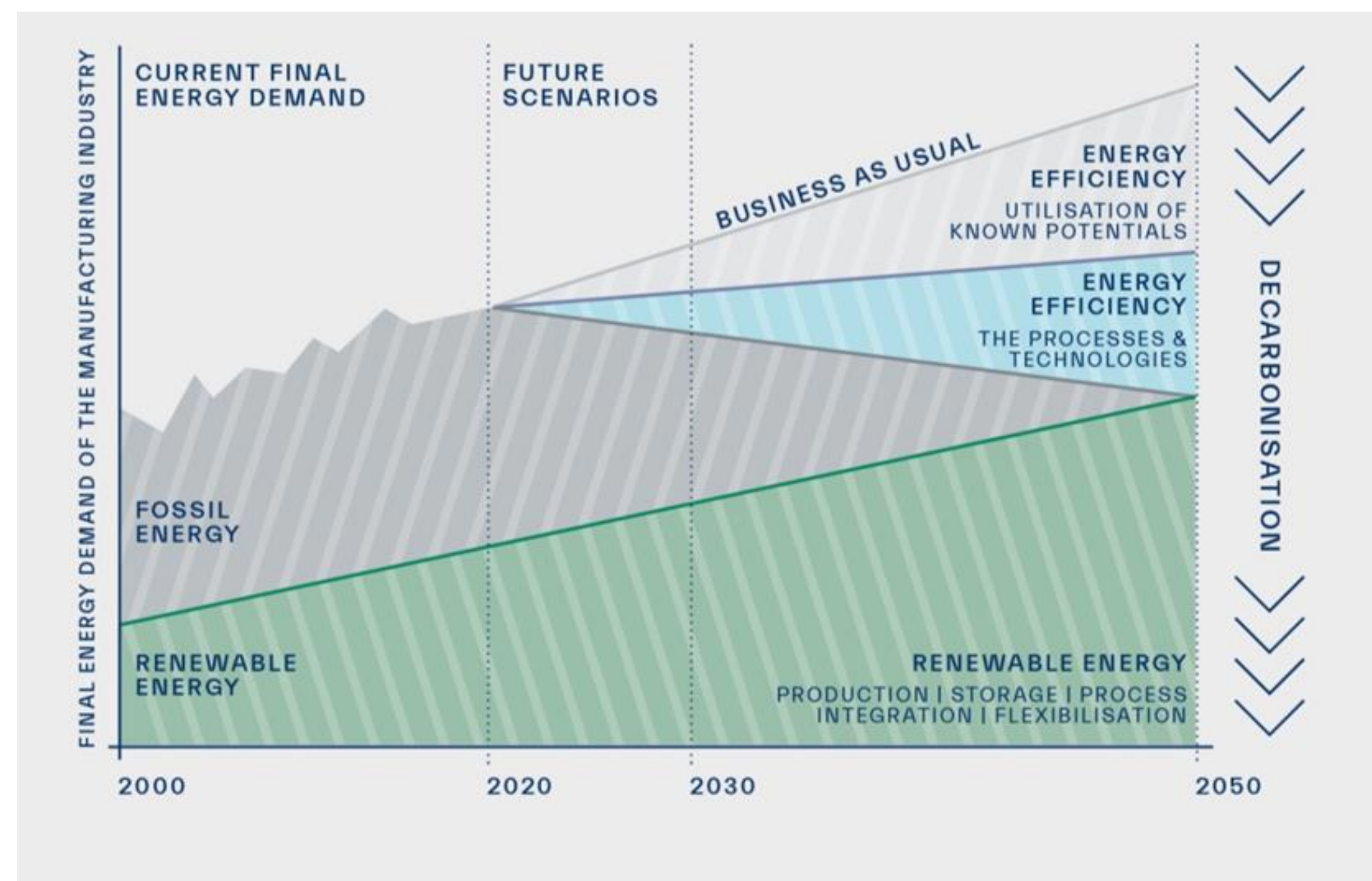
Securing the industry location

contribution to the economic location
Austria by user involvement



NEFI VISION

Decarbonisation of industry by technology "Made in Austria"



NEFI key technologies "Made in Austria" enable the decarbonisation of industrial energy systems and help to secure Austria's position as an industrial location.



NEFI – FIELDS OF INNOVATION

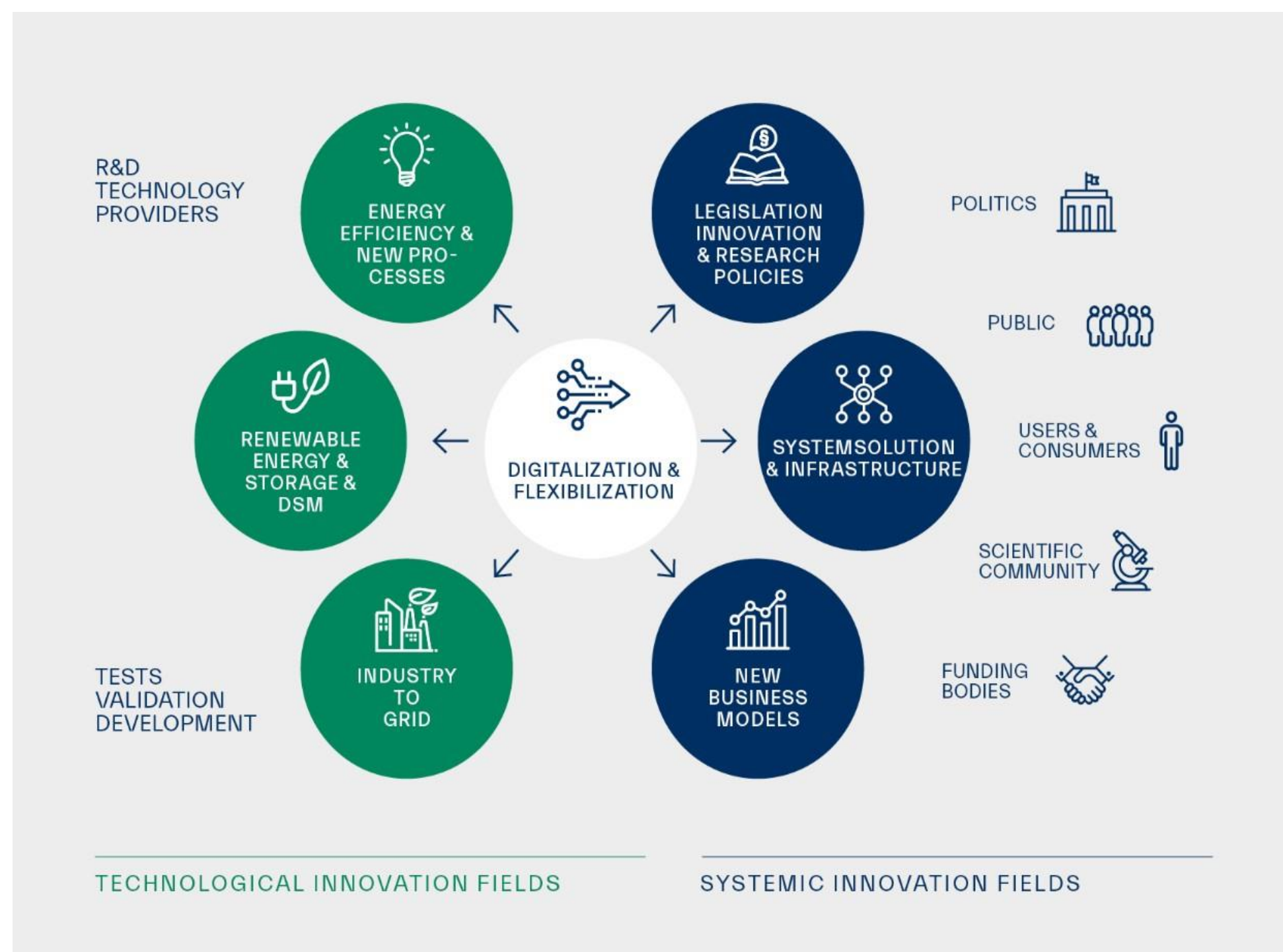
- Approx. 100 partners from industry, RTOs and public institutions

- 17 NEFI sub-projects

- Funding: 24.6 Mill. EUR

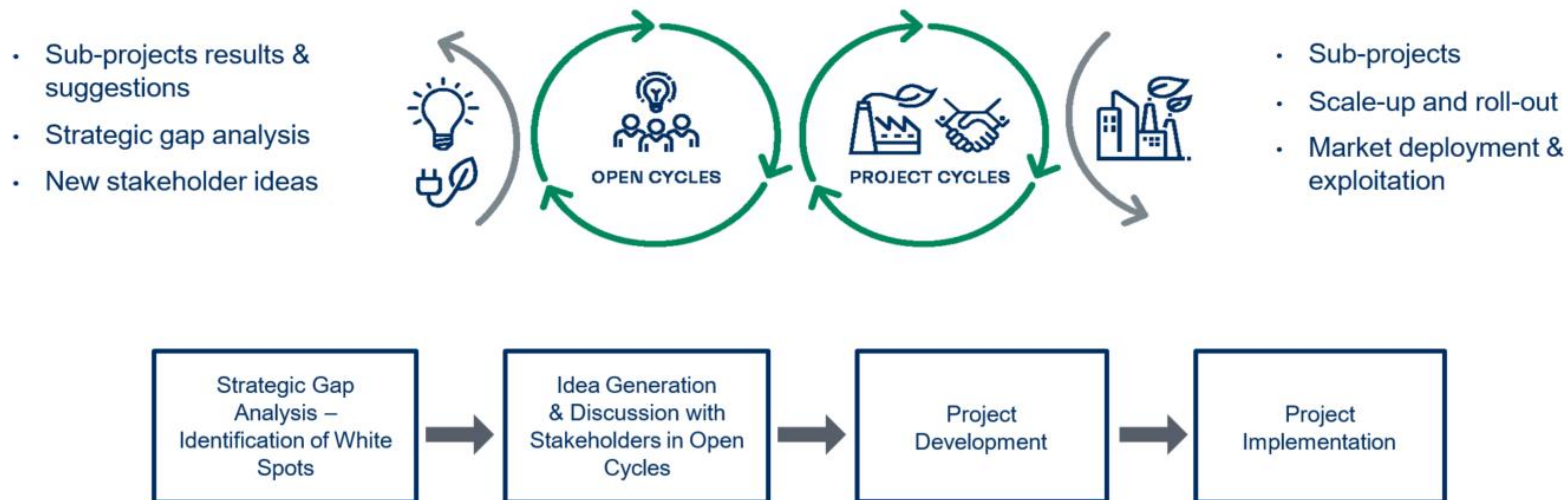
KEY TECHNOLOGIES:

- Storage technologies
- Increased oxygen usage in the iron & steel sector
- Micro-grids
- Cross-company energy communities
- Load management in power networks
- Heat pump technologies
- Industrial waste heat solutions



INNOVATION PROCESS

THE INNOVATION PROCESS – AN INTEGRATED CONCEPT FOR INDUSTRY TRANSFORMATION



CE4T – CLEAN ENERGY FOR TOURISM

MAIN GOALS

- Decarbonisation of the winter tourism industry using digitalisation technology and new
- optimization algorithms
- Development of optimization algorithms
- Demonstration and exploitation of the required
- flexibilities at all levels
- Energy monitoring to increase energy efficiency
- Integration of renewable energy production units in the overall system

KEY FACTS

Duration: 10/18 – 03/22

Project Volume: € 4,022,000



EDCSPROOF

MAIN GOALS

- Decarbonisation of the winter tourism industry using digitalisation technology and new
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GMUNDEN

HIGH TEMPERATURE HEAT LINK R&D

MAIN GOALS

- Ceramic gas filtration of cement gas
- Implementation of finned
- tube heat recuperation with novel fluids
- Cost efficient bulk thermal energy storage
- High temperature heat transport over 1.5 km of public land

KEY FACTS

Duration: 09/18 – 07/21

Project Volume: € 1,257,366



Thank you for attention

Christoph Reiss-Schmidt, Business Upper Austria – OÖ Wirtschaftsagentur GmbH
