

# KET4Cleanproduction

Liaising SMEs with  
Key Enabling Technology Centres  
across Europe

Project coordination:  
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777441

# Context and EU challenge

## EUROPEAN INDUSTRY

- Importance of the involvement of industry for achieving goals
- To keep EU competitiveness on global market companies have to:
  - Reinforce their innovation capacity (e.g. new products and services)
  - Increase productivity (e.g. Energy and material consumption, production times)
- Need for awareness of companies to increase their understanding and implementation of advanced technologies → Key Enabling Technologies (KETs)

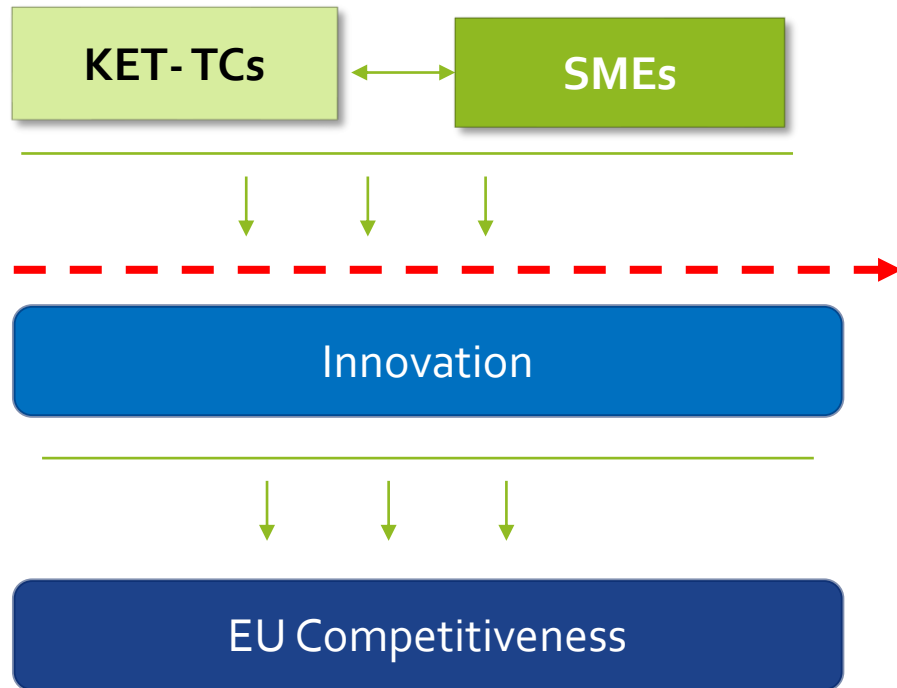
# Context and EU challenge

## Key Enabling Technologies (KETs)



- Technologies that will allow European industries to retain **competitiveness** and capitalise on **new markets**
- They give rise to **innovative business** models and new processes, and the creation of **smart products and services**
- They underpin the shift to a **greener economy**

# Context and EU challenge



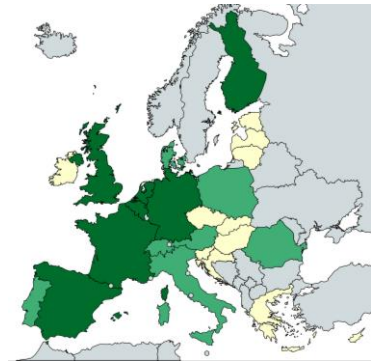
## Challenges/ Barriers

### Companies (SMEs)

- Lacking knowledge of the potential and benefits of applying KETs
- Fear of making investments in KET technologies that they cannot test or fully understand
- Lack access to KETs technology infrastructures and services in many European regions

### KET Technology Centres

- High disparities of KETs services across Europe  
(e.g. proof of concept, demonstration, prototyping, pilot production, product validation )
- KETTCs underdeveloped in some regions



Map:  
Dark green >10, green 5-10, yellow <5

# KET4CP platform: Your one-stop-shop in clean production

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## Key Technology

- ☒ Advanced Manufacturing
- ☒ Advanced Materials
- ☒ Industrial Biotechnology
- ☒ Nano and Microelectronics
- ☒ Nanotechnology
- ☒ Other
- ☒ Photonics

**Country**

## Business

- ☐ EEN
- ☒ EEN and KET TC
- ☒ KET TC

### Institute Jožef Stefan

Ljubljana, Slovenia  
Jamova, 39, 1000 Ljubljana, Slovenia, +386 1 477 39 00, [www.ijs.si](http://www.ijs.si)



### Bay Zoltan Nonprofit Ltd.

Budapest, Hungary  
Kondorfa utca, 1, H-1116 Budapest, Hungary, +36 1/463-05-00,  
[www.bayzoltan.hu](http://www.bayzoltan.hu)



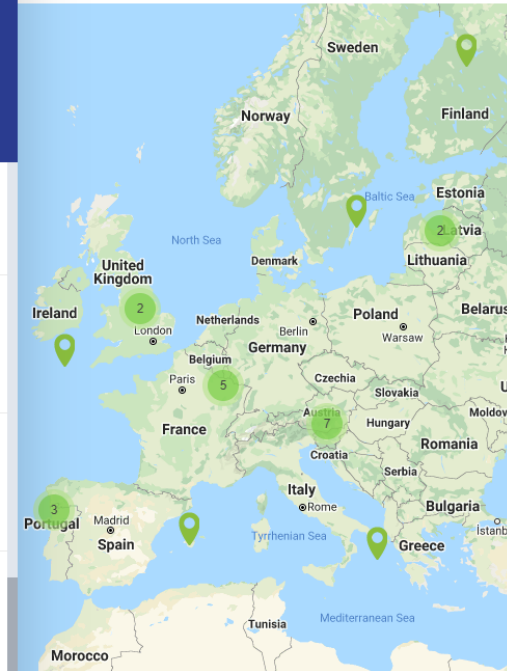
### Bio Base Europe Pilot Plant

Gent, Belgium  
Rodenhuizekaai, 1, B - 9042 Gent, Belgium, +32 9 335 70 01,  
[www.bbeu.org/pilotplant/](http://www.bbeu.org/pilotplant/)



### CEA Liten

Grenoble, France  
Avenue des Martyrs, 17, 38000 Grenoble, France, +33 04 38 78 22  
71, [www.liten.cea.fr](http://www.liten.cea.fr)



# KET4CP platform: your one-stop-shop in clean production



Find me a suitable Technology Centre | Login/Join

SERVICES

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ABOUT

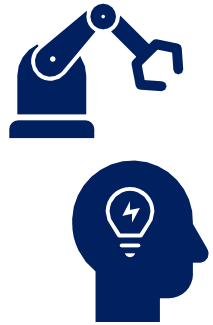
CONTACTS

Connecting SMEs and KETs Technology Centres across Europe  
Your One-Stop-Shop for Key Enabling Technologies



- It informs about **opportunities** for transnational collaborations of SMEs with service providers for KETs across Europe
- It offers SMEs a platform to submit technology requests to **find** a KET TCs matching their needs
- It serves as a **matching tool** linking manufacturing SMEs with key enabling technology experts
- It **awarded** SMEs across Europe with 50.000 € to kick-start their collaboration with international KET TCs

# KET4CP platform: your one-stop-shop in clean production



Company A

**Need for a  
technological solution  
or service**



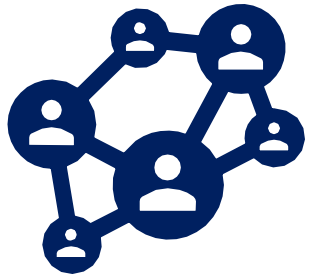
Region A

**No technology or  
service provider in the  
region**



**Send request to  
KET4CleanProduction directly  
online or with support of the  
local EEN advisor**

# KET4CP platform: your one-stop-shop in clean production



Request directed to the  
KET4CleanProduction  
network

Evaluation by KET  
facilitators

Offers by KET-TCs

Company selects and  
accepts offers → start  
collaboration



# A growing ecosystem: From 20 to 50 partners in 25 countries

## KET Technology Centres



## Enterprise Europe Network (EENs)



# Services for SMEs

- **Technology access, support and consultancy**
- Commissioning a technology report
- Study tours or visits in our high-tech facilities
- Facility access



# Services for SMEs - Technology access, support and consultancy



<b>Scope:</b>	Cross-border cooperation projects to solve clean production challenges 1 manufacturing SME + 2 KET technology centres
<b>Open calls:</b>	8 in total (July 2018-June 2020)
<b>Number of projects:</b>	40
<b>Duration of projects:</b>	~ 6 months
<b>Financial support each project:</b>	50.000 € (lump sum)

2 Mio. Euro are allocated for SMEs throughout Europe to access KET experts from other European countries

# Services for SMEs - Technology access, support and consultancy

152 Technology  
requests from  
28 countries

97 KET TCs  
offers

92 microgrant  
proposals

40 projects  
funded

# Services for SMEs - Technology access, support and consultancy



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Best practices of leading KET TCs in joining forces for solving SMEs technological challenges in clean production

## Latest Success Stories

All

Advanced Manufacturing

Advanced Materials

Industrial Biotechnology

Nano and Microelectronics

Nanotechnology

Photonics

Advanced Manufacturing

Advanced Materials



Joanneum Research, RISE

### Micro Grant Award | Koral | Flexible multi-source energy harvesting platform

The main objective of the project within the KET4CleanProduction was the realisation of the multi-source energy harvesting device using flexible electronics.

Go to story

Industrial Biotechnology



Biorenewables Development Centre,  
RISE

### Micro Grant Award | Bluegene Technologies Ltd | Improvement of microbiological fermentation process for manufacture of bio indigo dyes

The KET4CP project examined optimisation of the bioconversion methodology for the production of indigo 6,6'-dicarboxylic acid using a strain of *Pseudomonas putida*.

Industrial Biotechnology



Bio Base Europe Pilot Plant, INL -  
International Iberian Nanotechnology  
Laboratory

### Micro Grant Award | BioMosae B.V. | EnzymeCropProtect

Within the KET4CleanProduction project, the company focused on the large-scale optimisation of the design for clean production of biopesticides.

Go to story

## Success stories

- > 30 success stories available in the website:

<https://www.ket4sme.eu/success-stories>

# Services for EENs

## 1. Easy matchmaking for partnerships

- Facilitate objectives achievement (e.g. more partnership agreements, trainings)
- Bring their SME clients innovation partners all over Europe
- Platform for information about needs and offers of their SME clients

## 2. Accessing technical expertise

- Connecting with KET-TC expertise all over Europe for their SME clients
- Access to sector specific knowledge

## 3. Information on funding opportunities for their SME clients

- Newsletter, brokerage events, information in website

# Services for KET TCs

## 1. Visibility and promotion of KET capabilities

- Promotion of the expertise and services all over Europe
- Success stories with SMEs and referrals

## 2. Finding new industrial clients

- Connecting with companies all over Europe to start collaborations

## 3. Closer network for collaboration among KET-TCs

- Facilitate and strength the cooperation among KET-TCs in Europe
- Learning from each other (database/catalog for implementation)
- Joint funding applications, projects
- Development of potentially cross-KET technologies

## 4. Information on funding opportunities

- Newsletter, brokerage events, information in website



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### MEMBERSHIP

*Free of charge until September 2021 !*

Membership models afterwards →  
Available soon



# Keep in touch

- **Register** in the KET4CleanProduction website under:

- <https://www.ket4sme.eu/join-us>

## Companies, EENs

To get or provide a tailored technological support,

**join us!**

**As a Technology User (Companies, EENs)**

Match your challenges to the technology experts  
increase your manufacturing competitiveness

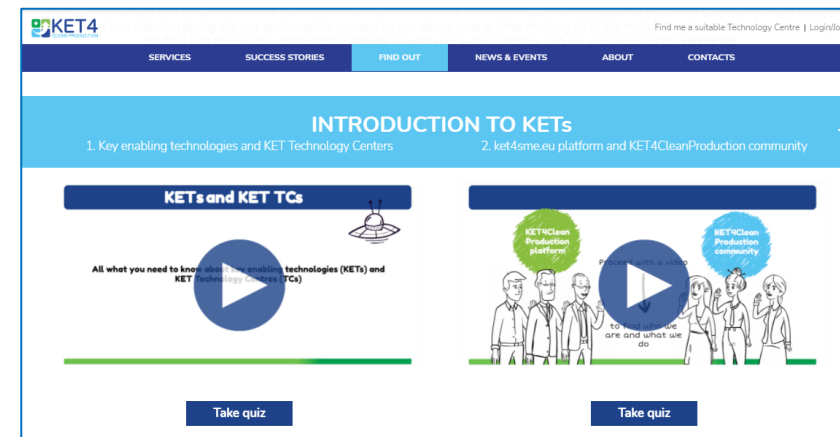
## Technology Centres

If you want to monetise your technological competence, join us  
**as a Technology Centre**

Match your competences to the needs of businesses  
Monetise your technological know-how

- Learn more about KETs and the KET4CleanProduction and become a **certified member** (EENs)

- <https://www.ket4sme.eu/training>



## Contact

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Stay in contact!



@KET4CP

[www.ket4sme.eu](http://www.ket4sme.eu)

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