



Shift2Rail 2020

EURECAT Technological Centre

Based in SPAIN

Research & Innovation private foundation

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*ETNA2020 Brokerage Event @ the Shift2Rail's 2020 Infoday
10th December 2019, The Egg Brussels*

Interested in topics:

- **S2R-OC -IP1-01-2020;** Support to Development of next generation of Traction systems
- **S2R-OC-IP1-03-2020;** Innovative technologies for Carbodies and Running Gear of the future
- **S2R-OC-IP3-02-2020:** Technology Development for Railway Systems Asset Management
- **S2R-OC-IP3-03-2020:** Advanced tools and equipment: collaborative robots & wearable mobile machines
- **S2R-OC-IP4-01-2020:** Supporting the implementation of the IP4 ecosystem



Business Support on Your Doorstep





58% 42%

2018

50 M€

+54,6 %
of total income

+133 %
in billing by projects with companies

+89 %
new customers

50 %
of our activity is with SMEs

1.500
Customer enterprises

160
Large I+D projects

81
patents

7
spin-offs



Industry

1. Advanced materials and new manufacturing processes
2. Functional printing and embedded devices
3. Interactive and autonomous robotics
4. Functional textiles
5. Modelling and simulation



Digital

1. Sensor systems and IoT
2. Science and data analysis
1. Artificial intelligence
2. Multimedia technologies
3. Cybersecurity



Biotechnology

1. Nutrition and health
2. Omic sciences



Sustainability

1. Water
2. Soil
3. Air
4. Energy



TRANSBOX

Intermodality Automation IP5

Development of automation technologies for loading and unloading processes between the different actors involved: Factories, logistics operators, train, ports ...)

The technological challenge is to increase the efficiency of intermodality by increasing the use of rail freight transport.

Technologies to develop

- Analysis of the needs of managers and operators of intermodal terminals.
- Automation solutions
 - Incorporation of automation to the process of loading / unloading of goods.
 - Load unit design
- Adaptations or new creations in rail transport equipment.
- ICT solutions
 - Traceability of the goods and assets
 - Blockchain





Impact

TRANS**BOX**

Intermodality
Automation

- Optimization in the design of the new terminals, the loading and unloading processes of goods in general, in the intermodal environment (ship-rail-road ...)
- Reduction of logistics transport costs.
- Infrastructure performance improvements
- Incorporation of new technologies that allow better management of intermodal rail terminals.
- Reduction in the requirements of necessary spaces.
- Positioning of the railway sector as a leader in the development of optimization technologies in freight terminals.
- support zero emission city and territorial logistics
- humans at the centre: improving working conditions, fostering reconversion to new job opportunities



Current Consortium

TRANS**BOX**

Intermodality
Automation



Automation, supervision and process control engineering



Technological Center



Railgrup is a non-profit association.
Cluster of Rail and logistics Industry



Railway operator

Profile of EU potential partners

- Container constructors
- Product designers
- Transport & logistics planners
- IoT & Big Data (Smart Platforms)
- Knowledge in logistic hubs
- Stakeholders