



## Innovation Programme 5 – SUSTAINABLE & ATTRACTIVE EUROPEAN FREIGHT TRANSPORT

### ■ **STAKE AT EU LEVEL:**

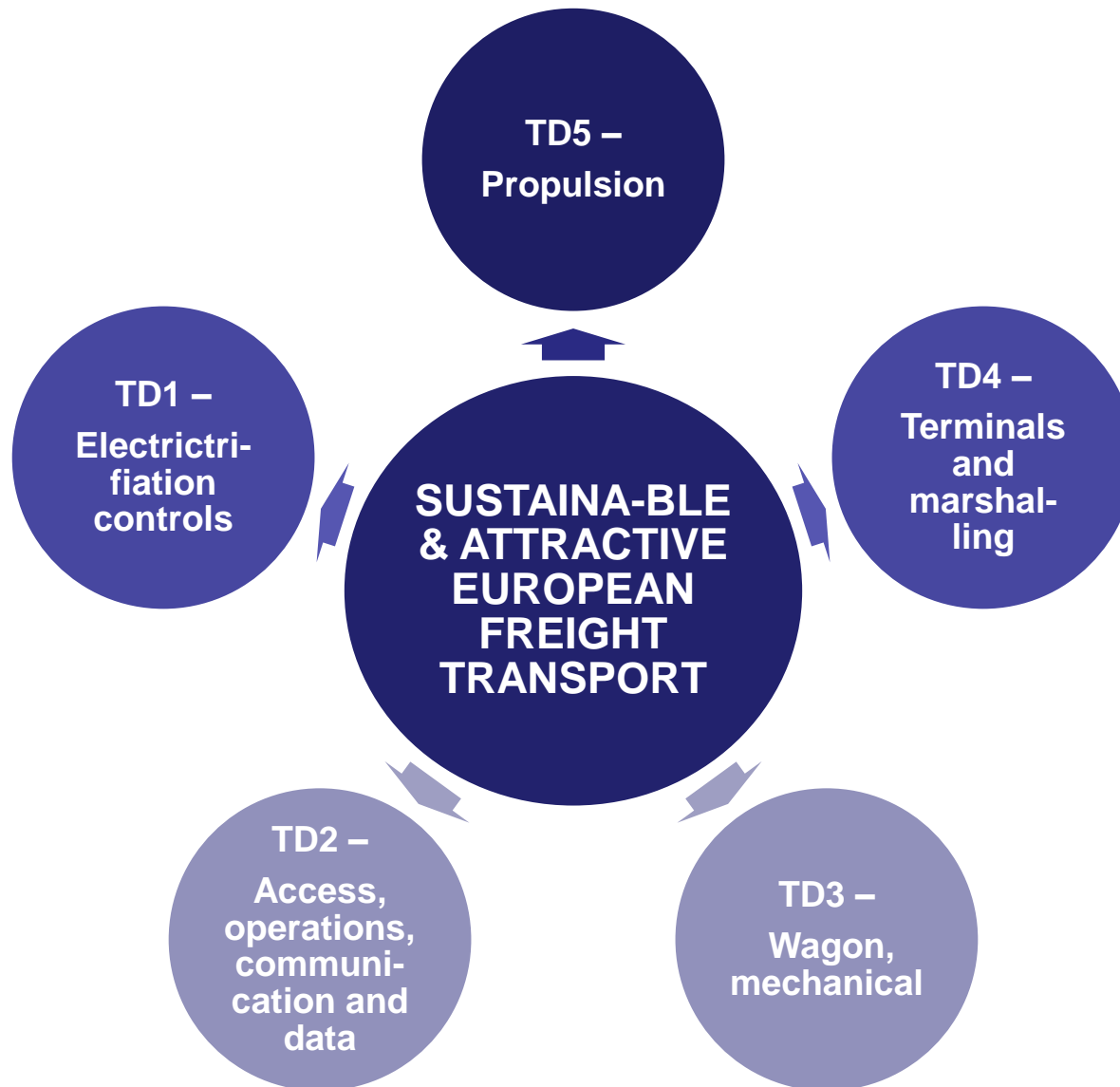
Overcome the current difficulties in freight transport performance in Europe to foster the shift to rail and increase environmental benefits.

### ■ **CHALLENGE:**

Define all technological and process breakthroughs necessary to contribute to the achievement of the 50% of road traffic switching to rail and inland waterways by 2050 as mentioned in the Transport White Paper.

### ➤ **5 TECHNOLOGY DEMONSTRATORS**

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## **FOCUS ON TD3: WAGON**

### **□ Main objective:**

Provide innovative wagons designs through the use of new materials and optimise their usage in relation to axle load.

### **□ Main output(s):**

More efficient and adapted wagons that will contribute to the attractiveness of freight transport.



## **FOCUS ON TD1: Electrification**

### **□ Main objective:**

Provide innovative wagon designs through the use of electrified functions

### **□ Main output(s):**

More efficient wagons using modern technology to improve the productivity of the rail freight.



## **FOCUS ON TD1: Terminals**

### **□ Main objective:**

Improve the train related efficiency in terminals and facilitate intermodality

### **□ Main output(s):**

Faster and more efficient turnaround, meaning less downtime. Cost and timereduction for intermodal transports.