**Smart solution for RAILWAY Support Challenges**

Structure of the

training modules

•

Introduction

•

Main objectives of the module

•

Topics covered by the module

•

Examples of research/implementation

•

Questions and discussion topics

•

Brief reflection

•

Session plan

4

* support for development and implementation of smart railway solutions

**workshops**

*(*

*expanded*

*specific topics)*

**Follow**

**-**

**up**

**activities**

*(*

*when necessary*

*after evaluation)*

**Initial workshop**

(

train the trainer)

|  |  |
| --- | --- |
|  | |
|  | **Self learning tool**  (Training manual, web-based tools) |

|  |  |
| --- | --- |
|  | |
|  | **Training**  **workshop**  (national, |

|  |  |
| --- | --- |
| ▪ | **Modular concept** |
| ▪ | **Living Document** |
| ▪ | **Cooperation with partners** |

Automation of Terminals

Advanced train positioning systems

Future Railway Mobile Communication System

Future advanced traffic management systems

Existing advanced traffic management systems

Advanced Traffic Management Systems

Trans shipment and intermodal

automated cranes / guided vehicles

bulk, container, palletized cargo

Automation of loading/unloading

Technologies for automation of train driving

ATO system architecture

ATO system functional requirements

Obstacle detection systems

Grades of automation in train operations

Automation of Train Driving

based & Predictive Maintenance

Condition

Railway Maintenance Strategies

Condition based and predictive Maintenance

Electronic Information Exchange

New Technologies for Efficient and Secure Border crossing

Railway Consignment Note as a Customs Documents

Efficient Break of Gauge Operations

Joint Border Controls &

Green and Sustainability Focused Financing

Client Orientation

Streamlined Border Crossing