Working Session II
"Rail Baltica - Digitalisation and Innovation opportunities"

ADIF Digitalisation and Innovation experience
Rail Baltica – Project of the Century
Three Baltic countries & North Sea-Baltic Core Network Corridor
Haramain High Speed Railway Project
DaVinci Integrated Solution
Rail Traffic Management and Operations Efficiency

- Adif and Indra: Technological Partners for its development
- Spain’s HS Network fully controlled from the DaVinci environment
BIM Capabilities & Experience
Transport Infrastructure Projects

- Adif partnership with INECO
- INECO leads Spanish Ministry of Public Works at EU BIM Task Group
Railway Asset Management
Achieving appropriate balance of asset cost

- Deliver value from the assets to the organisation

- Tool developed

- Help decision making

**Renewal VS Maintenance**
**Innovation experiences**

Reversible substation

- Commuter Railway Lines with high frequencies

- RST with regenerative breaking
- Inverter energy recovery module
- 15% energy savings
- Estimated 6-7 years ROI
Innovation experiences
Ferrolinera ® Project
Innovation experiences
Smart Stations

- Smart stations concept linked to Smart cities
  - Broaden area of influence
  - Transport hub
  - Commercial activities
  - Successful business model
Innovation experiences
Smart Stations

- Málaga Station suits under this concept
Innovation experiences
Gauge changing facility

- Automatic axle gauge exchangers from Standard to Iberian gauge
- Process is performed at 20 km/h

- Reliable solution to connect with third countries
- Expand the network through a technical facility
Javier Ibáñez de Yrigoyen
jibanezde@adif.es