Investing in new Technology

Business Drivers and Technologies

ALSTOM
Investing
- Purchase of goods that are not consumed today but are used in the future to create wealth

Technologies
- Disruptive technologies that change business processes substantially and increase efficiency
Business Drivers

- Acquire new assets
  - New network, extension of capacity, replacing old equipment

- Sustain assets
  - Maintenance, obsolescence Management

- Do more with existing assets
  - Modernization, Upgrades

- Replace assets
  - Acquisition of new assets
New Technologies for Rail Freight

- 3D Printing
- Internet of Things
- Green Efficiency
Example: 3D Printing

- Rapid prototyping
- Small series production
- Obsolescence management
Example: Internet of Things

HealthHub™

Operator  Maintainer  OEM  Other users

User interface
Prognostics
Assessment & Monitoring
Data capture

Rolling Stock  Railway Infrastructure  Signalling
Example: Green Efficiency

Green Train Technology
- Traction Technology
- Auxiliary Systems
- Materials

Green Train Operation
- Travel speeds
- Driver Advisory Systems
- Time Table Planning
Thank you!

Thorsten Bomke
thorsten.bomke@alstom.com