RAIL TECHNOLOGY DEVELOPMENT

Building Opportunities

Guy Woodroffe – Head of Rail Technical Strategy/Programme Manager, Technical Leadership Group
CHALLENGE

• Industry challenge – getting from early research to commercialisation

• Technology reaches ‘the valley of death’ – How do we overcome it?
  • Rail Industry Readiness Levels (RIRL) Provide a common language and assessment of the status of technology solutions
  • Absolute clarity on industry challenges and technology Development priorities
ONE INDUSTRY PLAN

Rail Industry Readiness Levels

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Technology Pipeline

Network Rail Challenges

Capability Delivery Plan

Technology Inclusion in IIA – with whole industry support
Industry Challenges
Real problems
Tangible Benefits
Strategic Fit
Solutions
Supply Chain
Technology Transfer
Funding and Financing
Private Sector Investment
Public Sector Support
Enabling Environment
Franchises
Major Projects
Deployment
Commercialising in partnership
Improved Outcomes for Customers
Economic Growth
New Products and Services
A better railway
Network Access and Expertise
Centres of Excellence
Test Tracks
Testing Facilities Steering Group
Sustainable Development Steering Group
System Interface Committees
ACCELERATING THE UPTAKE OF INNOVATION

• Based on shared vision of innovation
• Focus on enabling actions
• Aimed at increase uptake of innovation
UK RAIL RESEARCH AND INNOVATION NETWORK

Other institutions/sectors that may contribute to the network

Network of existing centres

Infrastructure Innovation Centre

Digital Systems Innovation Centre

Coordinating hub

Rolling Stock Innovation Centre

Test facilities

Network of existing centres
COMMERCIALISING IN PARTNERSHIP

• Dedicated Industry Leads Aligned to Outcome Delivery
• Supporting Products
• Research Innovation and Investment Partners
• Improving Organisational Connectivity
“science, research and innovation are at the heart of our Industrial Strategy”
- Rt. Hon Greg Clarke, Business and Energy Secretary

“emerging technologies have the potential to radically improve the way we manage our infrastructure”
- Rt. Hon Philip Hammond, Chancellor of the Exchequer