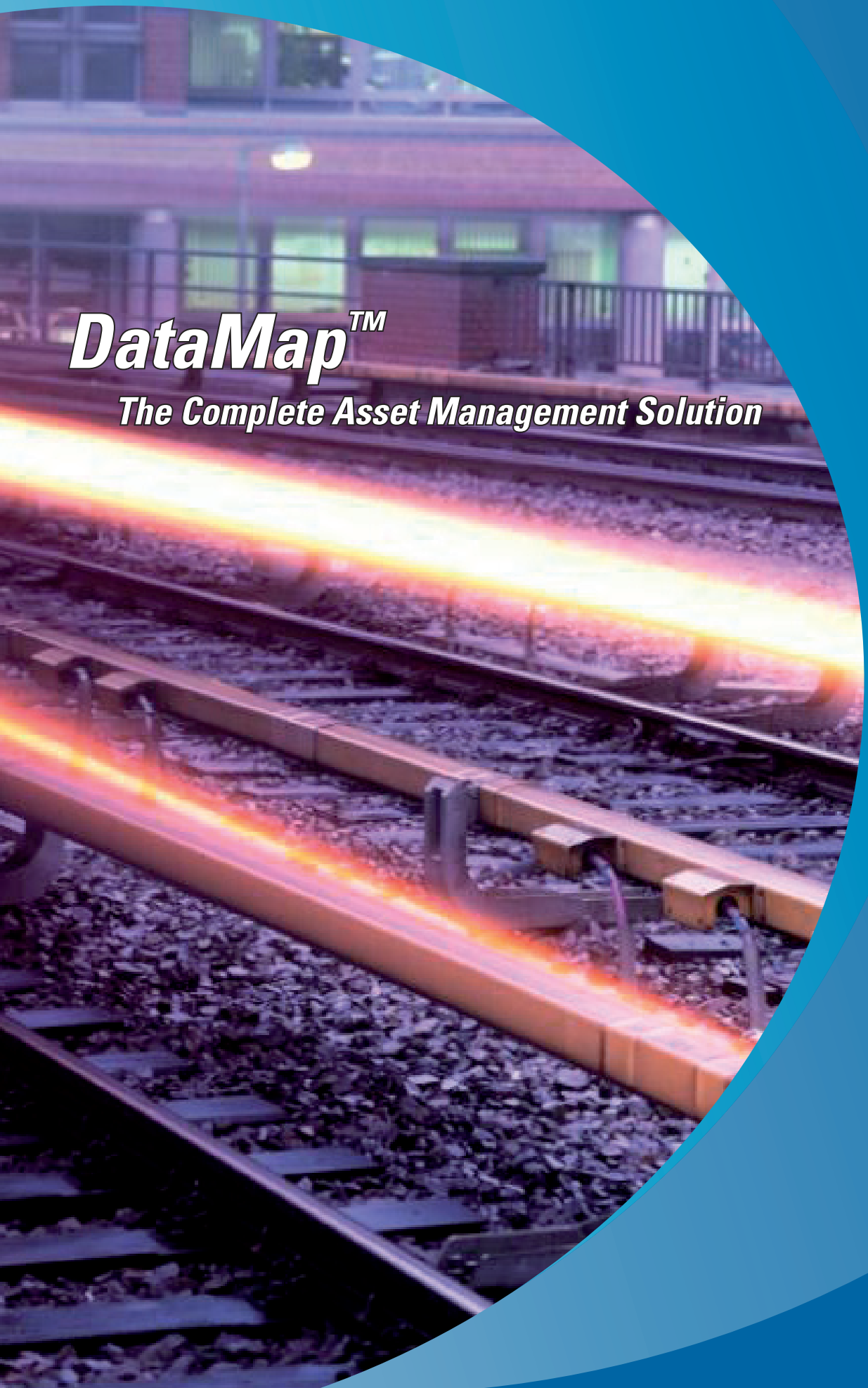
Balfour Beatty
Rail



# DataMap™

## The Complete Asset Management Solution

# DataMap™

## enables you to keep track of your asset condition

Today's infrastructure is under ever increasing pressure to provide a safe and reliable railway environment that will support increasing levels of passenger and freight movements.

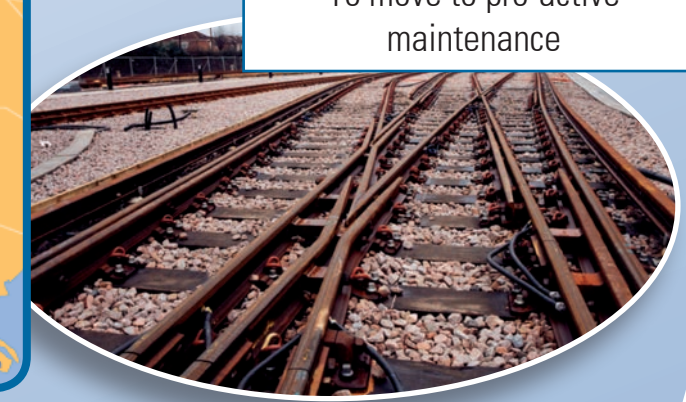
To provide this level of control it is essential that the infrastructure maintainers have a fully functional management system. This need will identify fundamental areas of maintenance that need to be carried out and to enable **"predict and prevent"** maintenance strategies.

***"DataMap™ provides a solution enabling significant reductions in maintenance costs"***


To target maintenance efficiently and cost effectively

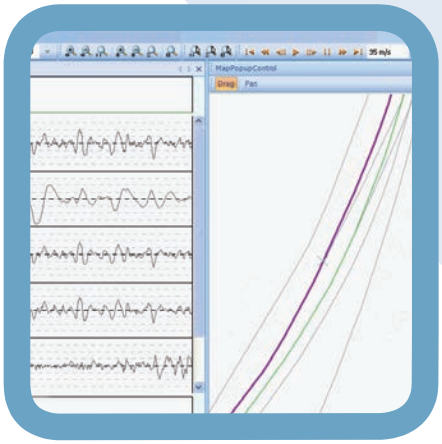
To provide the best view of the railway at required locations

To move to pro-active maintenance



***DataMap™*** helps make the best use of data by making it simple to understand and providing the foundation for **"predict and prevent"** maintenance regimes. This enables the optimisation of track maintenance.

- A state-of-the-art asset management solution
- Will accept data collected by any type of measuring vehicle or system
- Will accurately align the information onto a geographical map of the rail network
- Provides a clear visual display of condition information
- Provides rapid identification of infrastructure defects
- Provides user friendly exceedence displays
- Reduces ambiguity through pin point alignment of run on run measurement data
- Provides monitoring and trending of asset condition over time
- Enables **"predict and prevent"** maintenance regimes
- Monitors the effectiveness of any maintenance activities
- Makes the best use of all available asset condition information



# Key Benefits of DataMap™

- Reduces maintenance costs
- Enables life extension rather than renewal
- Improves safety management
- Scalable solution from individual line to national network
- Information access from full corporate to individual trackside PDA
- Cost effective audit record of asset condition
- Identify operational train performance improvement
- Enables virtual track walking
- Supports more effective maintenance
- Better utilisation of costly plant
- Reduces unplanned maintenance activity
- Helps the user make sense of measurement information
- Reduce levels of analysis and management
- More pro-active maintenance monitoring

***DataMap™*** supports the visualisation of a complete range of asset condition information including:

- Track geometry
- Ride quality
- Overhead line
- Lineside structures
- Structure gauging
- Traction supply
- Thermal imaging
- Video
- Ballast profile
- Rail profile & wear
- Conductor rail
- Noise
- Corrugation
- Rail flaw

# Case Studies

## London Underground

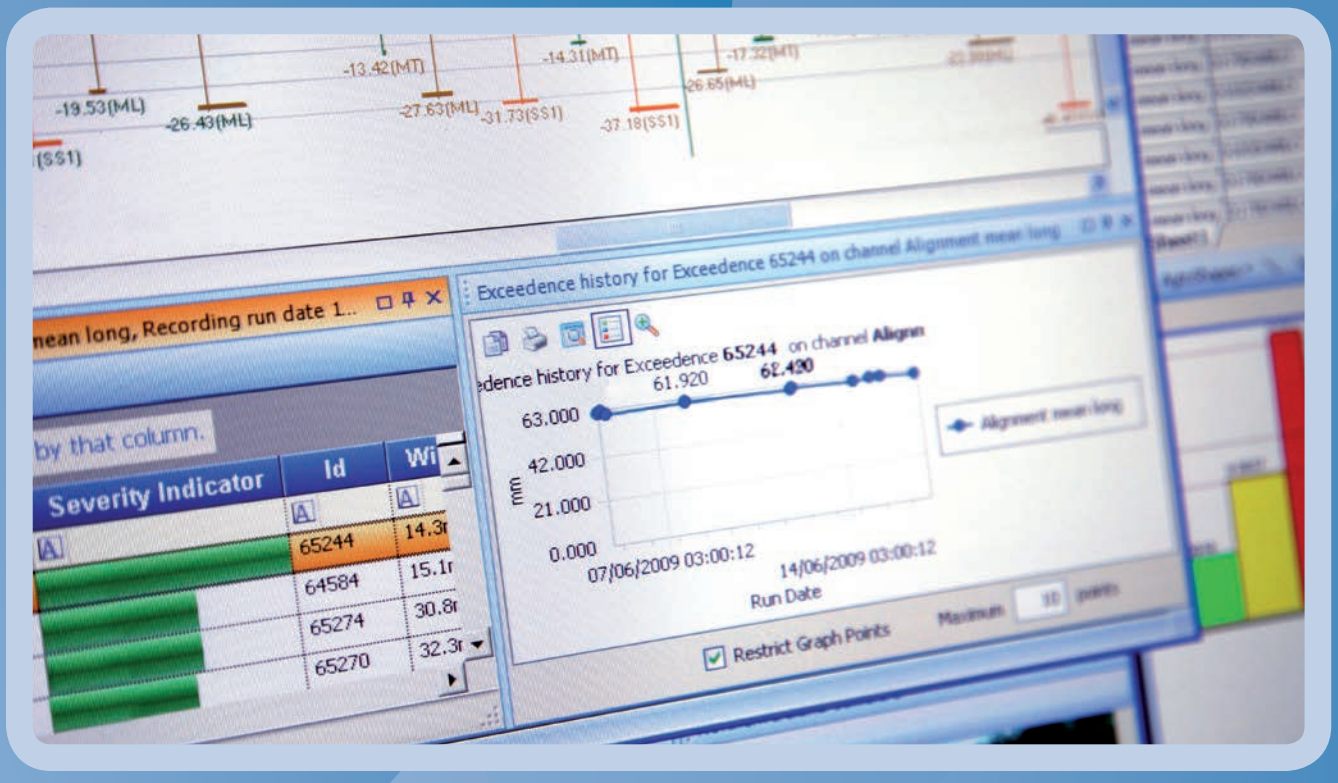
***DataMap™*** is used to reduce maintenance costs through monitoring geometry, video imagery, ride quality, and vibration characteristics.

## Northern Ireland Railways

***DataMap™*** is used to manage the safety of the network. Measured parameters include: client supplied video synchronised with track geometry data from service train and full ordnance survey mapping.

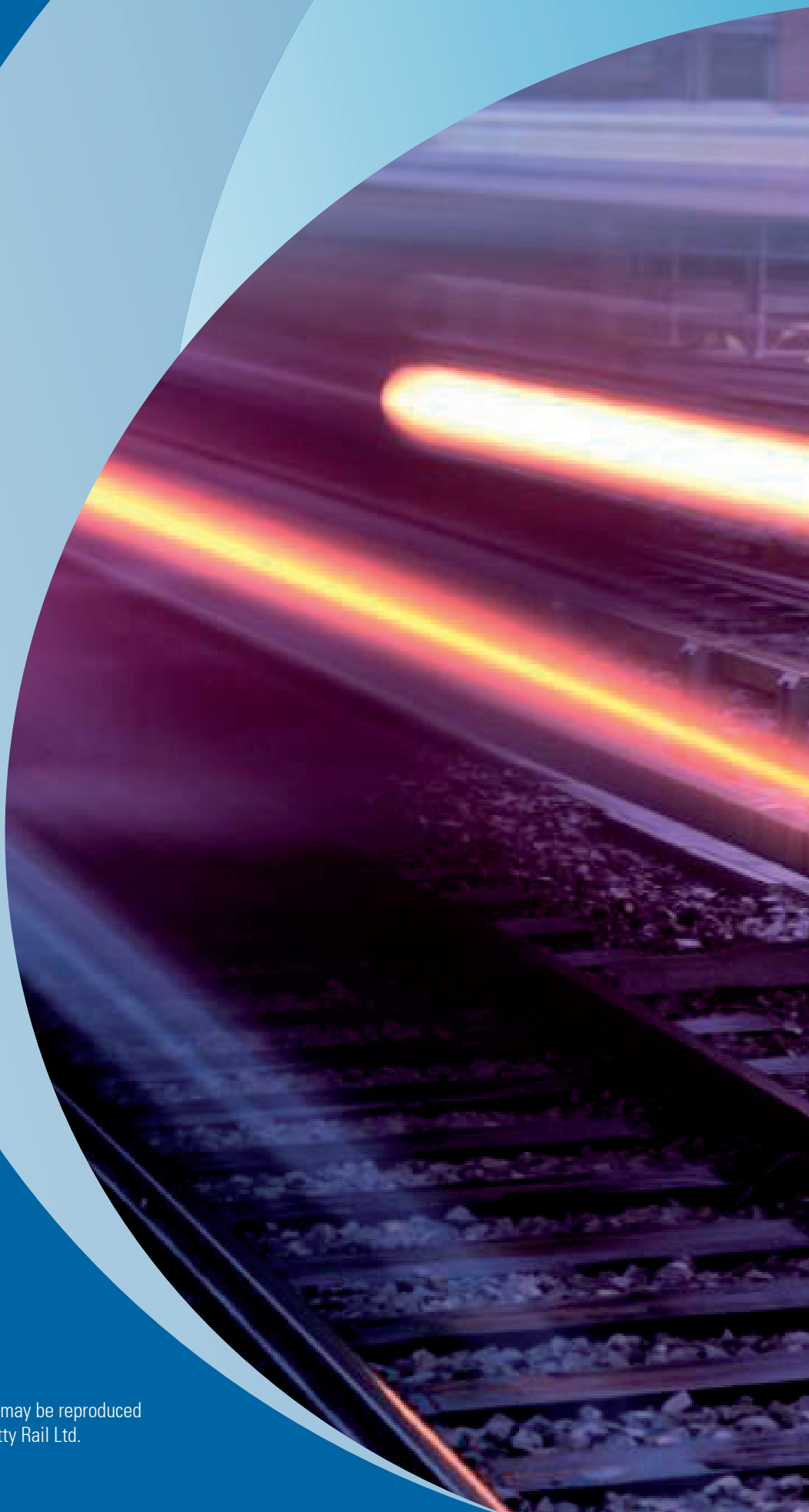
## Queensland Rail

Have adopted ***DataMap™*** to make best use of monitoring technology for improved maintenance regimes.



# DataMap™

## "Predict and prevent"




***Contact:***

***Balfour Beatty Rail Ltd***

Quarnmill House, Stores Road,
Derby DE21 4XF

Tel: +44 (0) 1332 225130
Fax: +44 (0) 1332 225131

info.bbrt.uk@bbrail.com
www.bbrail.co.uk