Big Data Analytics in Rail Freight

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Characteristics of Big Data

- Value
- Volume
- Valence
- Velocity
- Veracity
- Variety
Steps in Big Data Analytics

- Acquire: Data is structured or unstructured
- Prepare: Exploring & Preprocessing
- Analyse: Modeling & Analytical Techniques
- Reporting: Presentation of the results
- Act: Acting on the actionable results gained
Challenges for the Rail Freight Sector

- Data: Ingestion, Storage & Quality
- Choice of the areas: Scope
- Technologies at work
- Real Time Monitoring
- Big Data Management Infrastructure
Opportunities

- Predictive maintenance
- Better Asset reliability
- Precision maintenance
- Increased Serviceability
- Safety in Operations
Thanks