Building a 3D Geospatial World for Engineering and Asset Management

HP
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Speaker BIOs

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  • 27 years Manufacturing experience
  • Leader in creating solutions to address Manufacturing Business Challenges

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  • 25 years of leadership experience in solutions for manufacturing
  • Leader in “Internet of Things” business analytics and business intelligence
DEFINITION OF ASSET:

AN “ASSET” IS ANY ITEM WHICH IS IMPORTANT TO THE BUSINESS
Why is asset identification and management important?

• Lower costs and boost efficiency
• Meet new customer requirements

• Replace and upgrade old assets
• Gain competitive advantage
Risks/failure to optimally manage assets

- Not knowing what you have
- Over and under maintenance
- Improper operation
- Improper risk management
- Sub-optimized financial management tied to assets and O&M
Asset management benefits

- Economic life vs. technical life of asset
- Flexible production needs
- Adapt asset management and maintenance activities
- Justification of health monitoring
- Define decision thresholds for indicators of degradation
Asset statistics

20% $ cost savings from preventative maintenance.

30% of organizations do not have clear understanding of what they have.

64% of businesses conduct manual searches each day.

4 Hrs per week is saved on average with preventative maintenance.

30 Minutes Typical time to locate missing asset.
HP – CB Tech - Modus 3D Collaboration

Field Data Scanning and Mapping Above and Below Ground

HP Hardware

Produce Intelligent 3D Models

CLOUD Data – Software RGS and G-oviz

Geospatial Visualization Software

Database Integration

Data Normalization

Data Analysis
Capturing Data

- Radar Scanning
- Laser Scanning
- UAV Imagery

- 3D Exterior Models
- 3D Interior Models
- 3D Underground Models
Current data resource silo conditions
Correlation of Data into Actionable Information

HP Analytics and decision support

- Paper files
- CAD models
- GIS data
- Manuals
- Excel files
- IBM maximo
- SAP
- Oracle
- Industry specific software apps
Asset Management with HP

- Capture accurate as-built
- Compare with existing data
- Lower costs and increase efficiency
- Gain competitive advantage
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