CIVIL INTEGRATED MANAGEMENT

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OUR UNIVERSE IS CHANGING
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- eConstruction
- Automated Machine Guidance
- LIDAR
- Visualization
- Animations
- 3D Highway Design
- 3D Bridge Design
- Paperless Business Models
- Asset Management Data Collection Efforts
- UAV’s
THE PROBLEM......
THE ISSUE.....
THE GOAL IS TO MOVE FROM THIS......
TO THIS......
BETTER DECISION MAKING THROUGHOUT THE LIFECYCLE OF AN INFRASTRUCTURE ASSET
A. Business Architecture

The business of Iowa DOT aligns with its vision, mission, and strategic and business plans, with these key initiatives:

- Performance Management
- Data Integration
- Portfolio and Project Management
- Organizational Communication
- Workforce and Knowledge Management
IOWA DOT BUSINESS ENVIRONMENT

The overarching business environment affects the agency's operations and includes both internal and external business factors that influence Iowa DOT:

• Legislative, executive, and public policy initiatives and impacts;
• Relationships with transportation partners;
• Economic development initiatives;
• Economic conditions/transportation finance; and
• Labor.
Examples of recent business factors affecting Iowa DOT include:

Requirements under the previous Moving Ahead for Progress in the 21st Century Act (MAP-21), such as requirements for a transportation asset management plan which will drive business requirements for enhanced analytical capabilities in the department’s core asset management systems (at a minimum affecting bridge, pavement and safety), and improved data integration between these asset management systems.
HOW DO WE GET THERE?........
CIVIL INTEGRATED MANAGEMENT

- CIM includes leveraging data and information from various sections of a highway agency and making use of that data throughout an asset’s life cycle. CIM may be used by all affected parties for a wide range of purposes, including planning, environmental assessment, surveying, design, construction, maintenance, asset management, and risk assessment. CIM aims to serve all project stakeholders and consistently provide appropriate, accurate, and reliable information.
“CIM is really a mindset,” says Richard Juliano, senior vice president for strategic initiatives with the American Road & Transportation Builders Association. “It is about being open to using innovations and new technologies, and it is a departure from the way previous generations conducted business. But it is on par with the general shift in all parts of society right now—going paperless and doing things electronically because it is more efficient. When embraced, CIM can maximize efficiency, keep costs down, and shorten project delivery times.”
AT IT’S CORE CIM IS SIMPLY DATA INTEGRATION