



GE Transportation

July 11, 2017 Philadelphia, PA

NASTO 2017

*Defining the Future of Transportation*



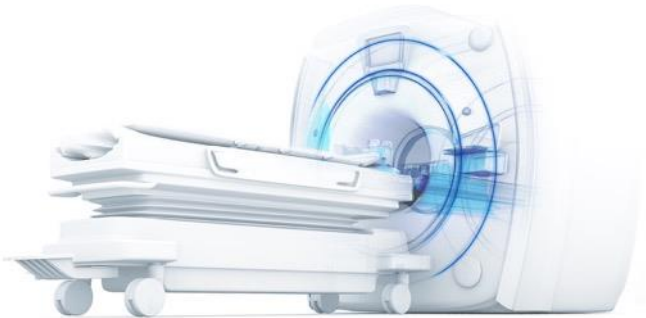
Don Itzkoff

*Government Affairs & Policy, GE Transportation*

# GE's Digital Industrial blueprint

## Productivity

### Brilliant Manufacturing



- Digital thread
- Digital twin

## Apps

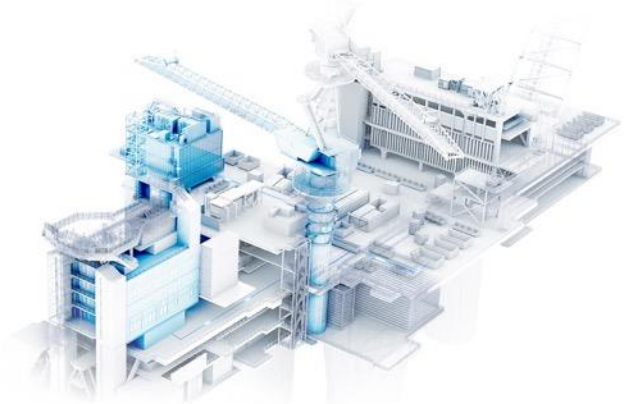
### Services Transformation



- Optimize GE machines
- Outcomes for customers
- Industrial apps portfolio

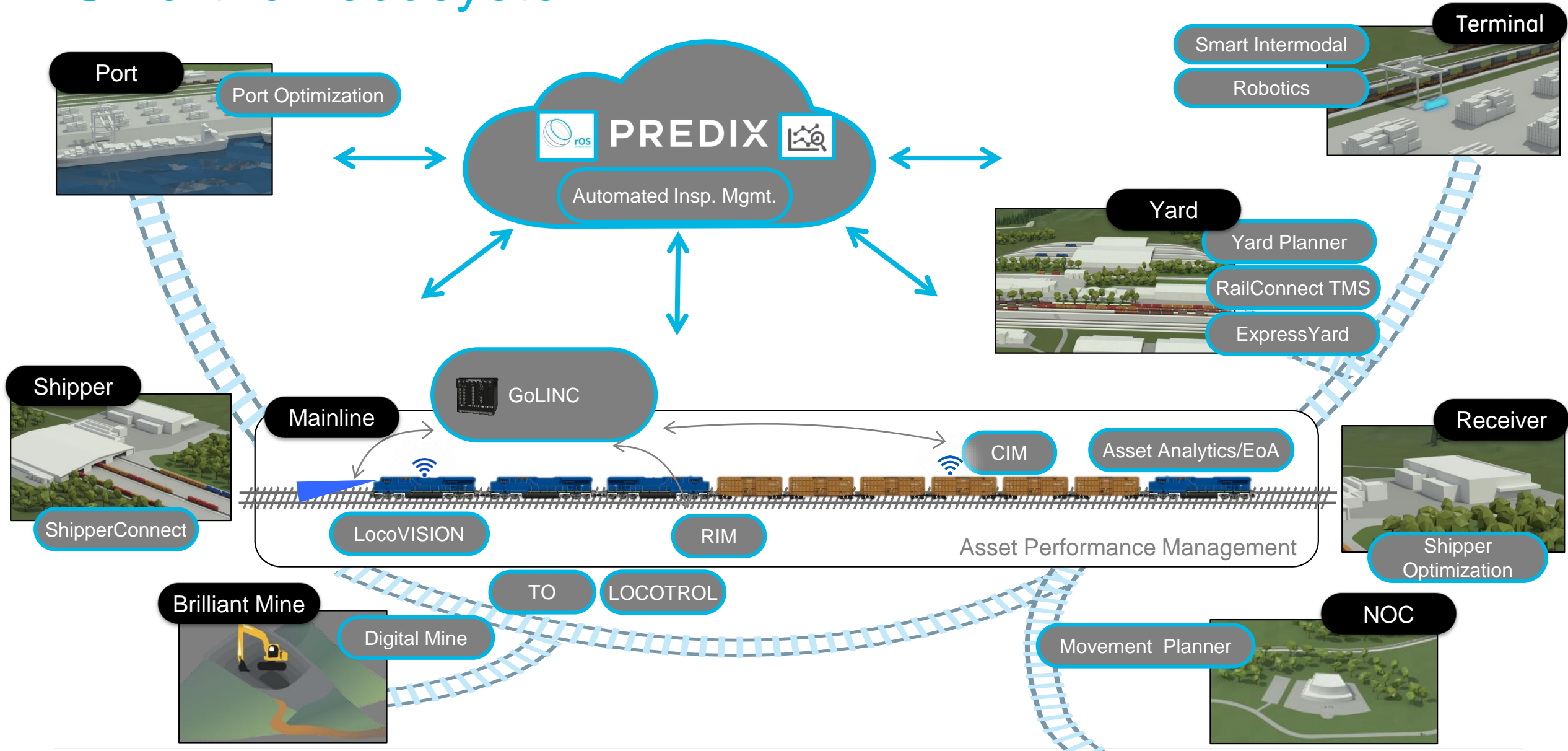
## Platform

### Predix Industrial Operating System



- Cloud-based platform for the industrial internet
- Industrial-focused security
- Open innovation ecosystem

# Smart rail ecosystem



# Rail performance outcomes

## Asset Performance



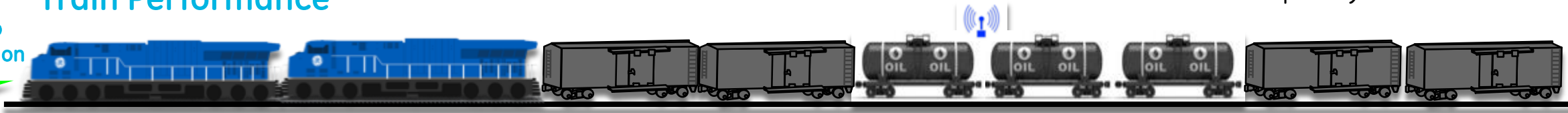
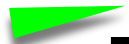
*Enterprise Asset Management*

- ↑ Asset Utilization
- ↑ Mission Success



## Train Performance

Video inspection

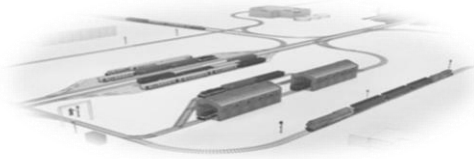


*Locotrol XA, Trip Optimizer*

- ↑ Fuel efficiency
- ↑ Capacity



## Network, Supply Chain Performance



*Movement Planner, Digital Freight Logistics  
Port Solutions*

- ↑ Network Velocity
- ↓ Dwell
- ↑ Supply Chain Visibility

**Digital can unlock productivity across transportation ecosystem**

# Port performance digital vision

## Disparate Information



Images: ©123rf.com

## Aggregated Data Service

*Powered by Predix*

Secure, seamless data ingestion:

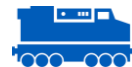
- ~30,000 data attributes
- 250 databases



Stowage Plans



Container Specs



Rail consist



Location Info.



Truck Scheduling



Chassis Locations

## Comprehensive Solutions

### Visibility

- ✓ Advanced visibility to enable planning
- ✓ Enhanced cross-port communications
- ✓ Enhanced cross-port communications



### Optimization

- ✓ Integrated APM reduces maintenance cost
- ✓ Improved ETAs/ETDs reduce truck wait times
- ✓ Reduction in GhG



### Automation

- ✓ Automated scheduling reduces manual errors
- ✓ Time savings with digital communications & alerts
- ✓ Reduced operating costs with integrated system

