Alpha Presentation
Predix Enabled Toy Train

The Capstone Experience

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Project Overview

• Demonstrate the capabilities of Predix and its services with the Toy Train
  ▪ Receive, analyze, and monitor data collected from the train and sensors along the track
  ▪ Send analyzed data back to make decisions about the train’s movement
System Architecture

Predix Cloud
- Assets
- Analytics
- Data
- Security
- Operations

Cloud Foundry

Data Infrastructure

Raspberry Pi

Informational Display

Train Set
- Sensors
- Trains
- Turnouts
- GE Logo
PICTURE OF THE TRAIN
Sensors – Beam Breakers
Sensors – RFID Module and Tags
Predix Dashboard

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Predix Dashboard
What’s left to do?

• Predix Analytics
  ▪ Getting the sensors to talk to Predix
  ▪ Run anomaly detection to monitor sensors
  ▪ Use machine learning analytics on data to prevent collisions

• Scripting for the Train
  ▪ Run Jython scripts without the use of PanelPro
  ▪ Use Data from Predix to Make Decisions
Questions?