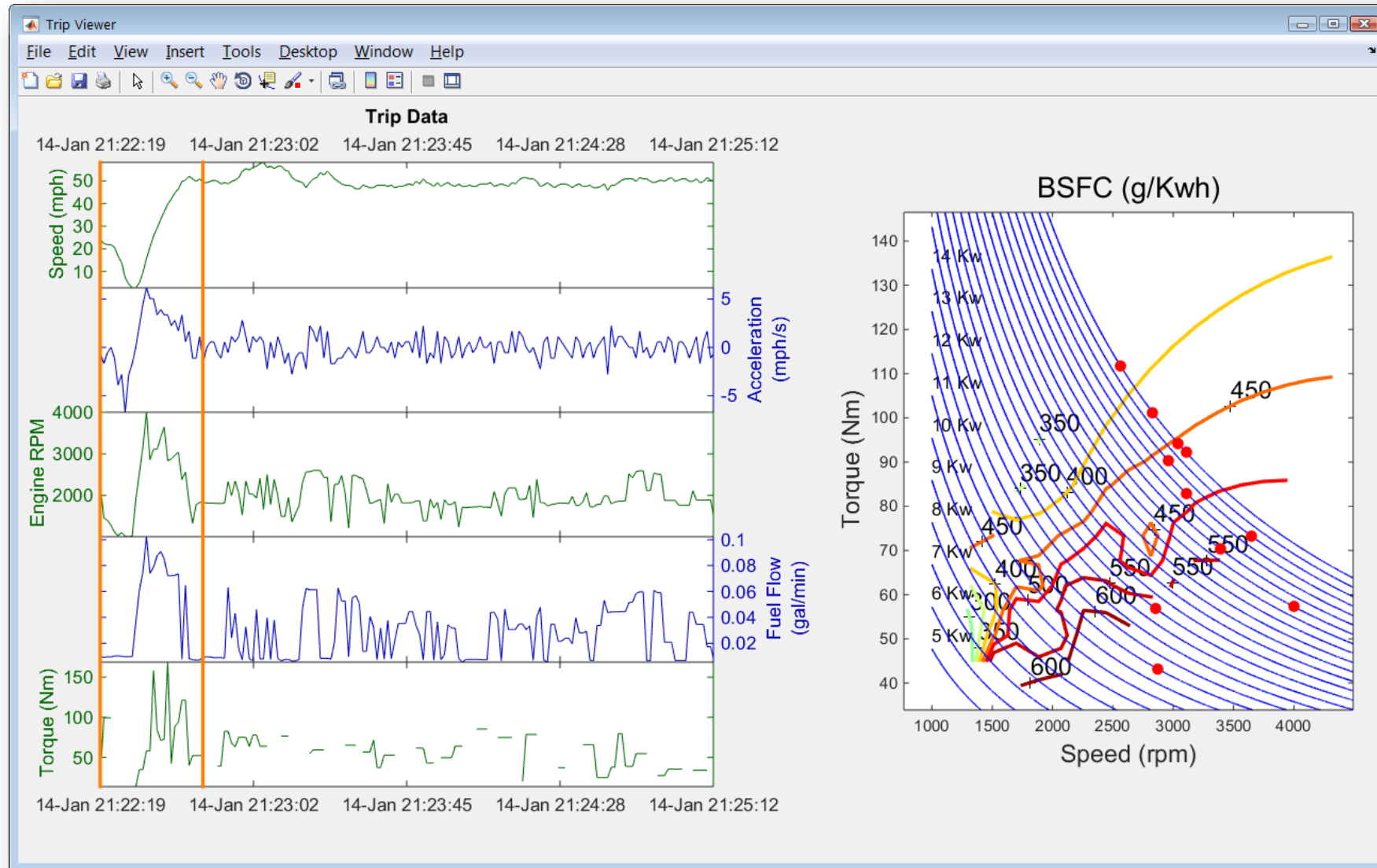


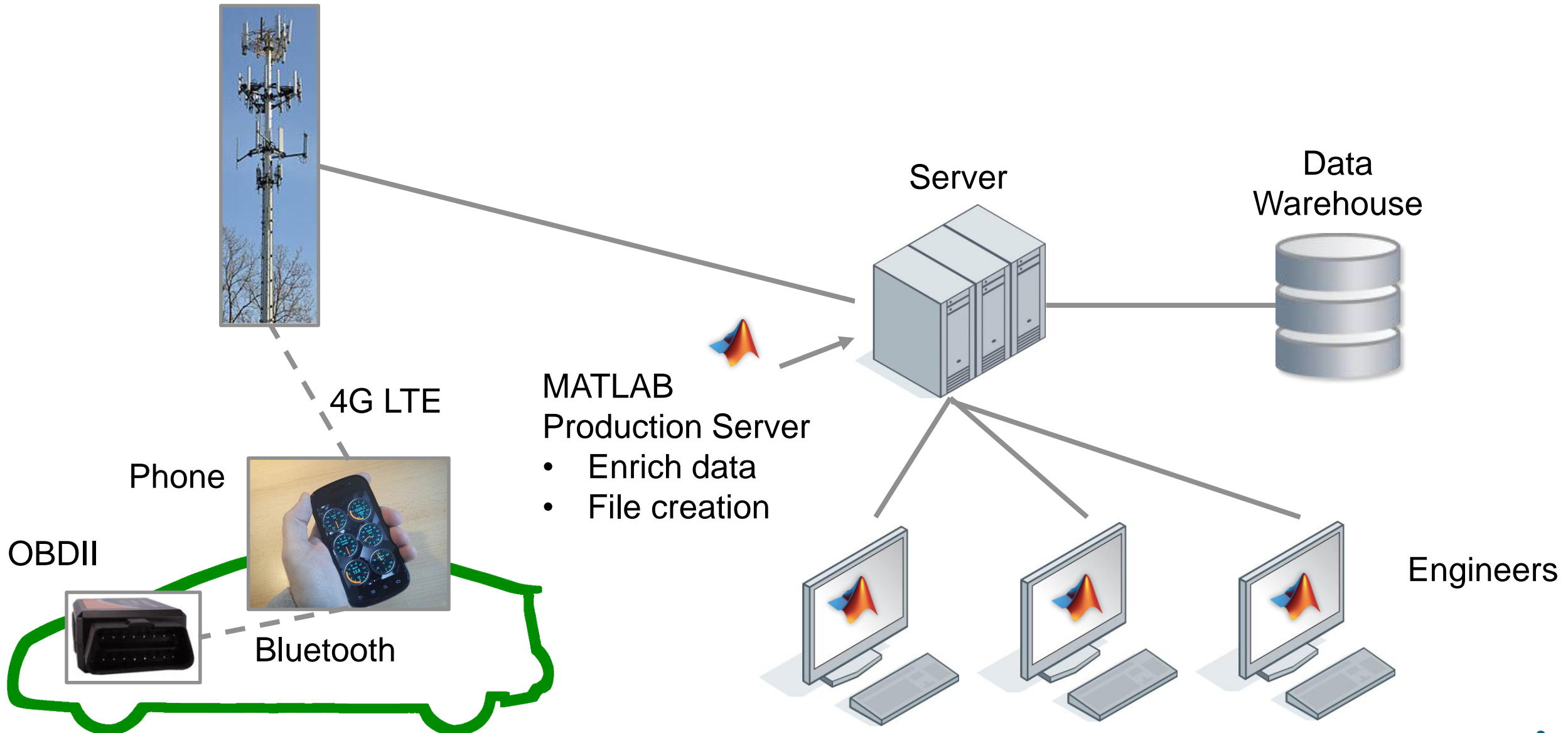
Analyzing Fleet Test Data using MATLAB

Seth DeLand

Analyzing Fleet Data

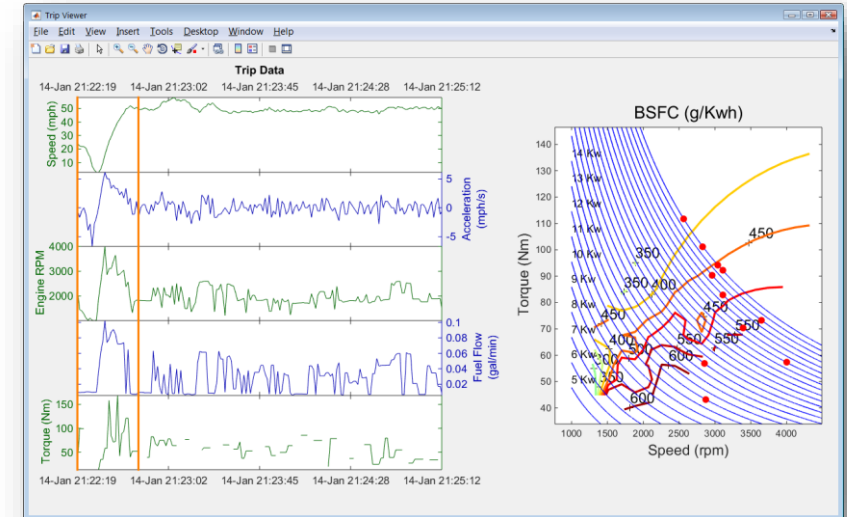


Example Setup at MathWorks



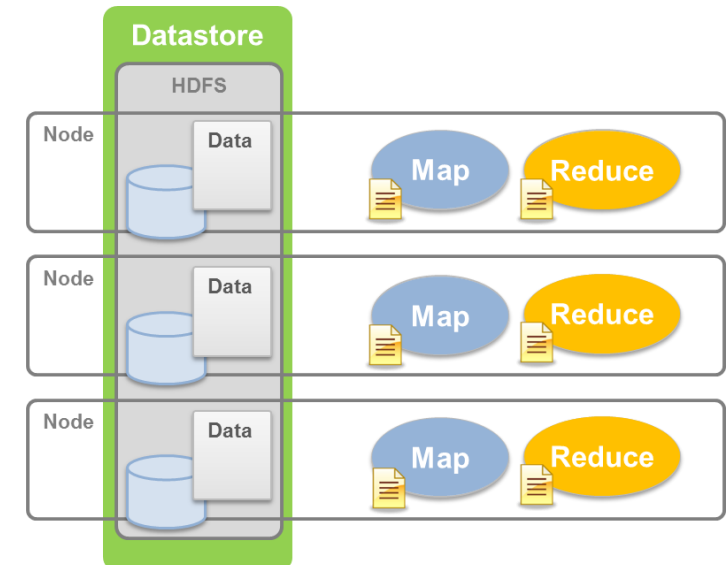
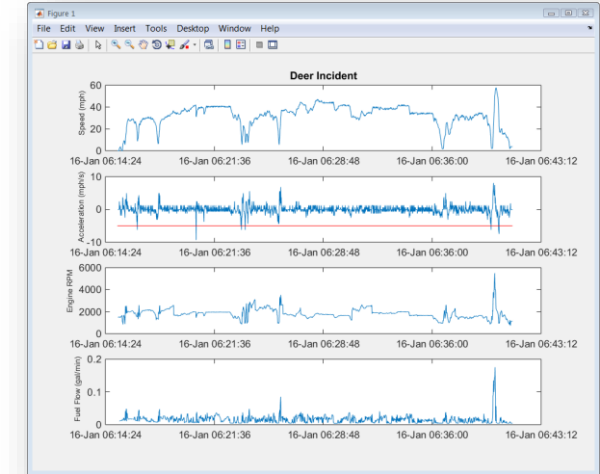
Analyzing Fleet Test Data

- 40 MB of data from fleet
- Visualize & explore
- Deploy an engineering interface



Event Detection

- Parse data, find sudden deceleration
- Map Reduce workflow
 - Serial on Desktop
 - Parallel on Desktop
 - Point to HDFS
 - Deploy to Hadoop



Cylinder Failure Detection

- Data logged from small aircraft engine
- Goal: Identify the bad cylinder
- Challenges:
 - Import data spread across several files
 - Identify best algorithm to detect failure

