40 KPIs before

* Need to dig down to granular KPI
* Software/manufacturing

More than 2 million KPI combinations

* Visualization helps

End goal: detect and find root cause

Spring district?

* T-mobile museum

Intelligence department

Command center

* Quantum anomaly center
* D3 JavaScript Visualization

Check for previous day only for anomalies.

SHOW ALL

* Includes non-anomalies

GREEN

* Still double check

Check for line outside boundaries

* Going down – ignore
* Going up – spike / anomaly

Anomaly

* Might be software version issue only if really old.
* Must be happening to multiple devices in the network

**ANALYZE THE CORRELATION**

Data Loading

KPI Aggregation

Deep dive

KPIs

* Device connection
* Drop call rate
* Change to “daily”

**Look for a pattern / anomaly then send an email**

DPPI tool

* Analysis

Quantum

* Pin pointing

Using both tools

* Match the filters
* Data issue?
* Map issue?