Big Data .......... Big Headache?
Building Internet of Things –
Utilize the Building BMS as a Sensor Network
Data Acquisition
Metering & Submetering

Whole Building Meter
GSM Gateway
IoT Devices
Sub-Meters

CT
CT
CT

©BuildingIQ 2019
Digital Twin
Big Data->Digital Twin->AI-> Actionable Knowledge

- Historical Power
- Historical Weather
- Historical BMS
- Historical Occupancy

Thermal Model

- BMS Actuals
- IoT Actuals

Raw Data & Trends
10 years

Anomalies & Contextual Data

Discussions & Triage
Conclusions & Recommendations

System interactions

Operational, asset, energy data integrated

©BuildingIQ 2019
Actionable Knowledge

- Baseline & Prediction
- Fault Diagnosis
- Commissioning
- Predictive Maintenance
- Retro-Commissioning
- Demand Response
- Closed-Loop Control: Optimization
Layering In Human Diagnostics

Simultaneous operation of both chillers may yield the correct temperature but at a higher cost.
Thank you!

What’s Next in Building Tech?

Kevin Debasitis
Director of Sales
kevind@buildingiq.com
978-376-3219