Learnings from Smart and Sustainable Cities

James Lockyer
Microsoft

Internet of Things & Mixed Reality Sales

Agenda

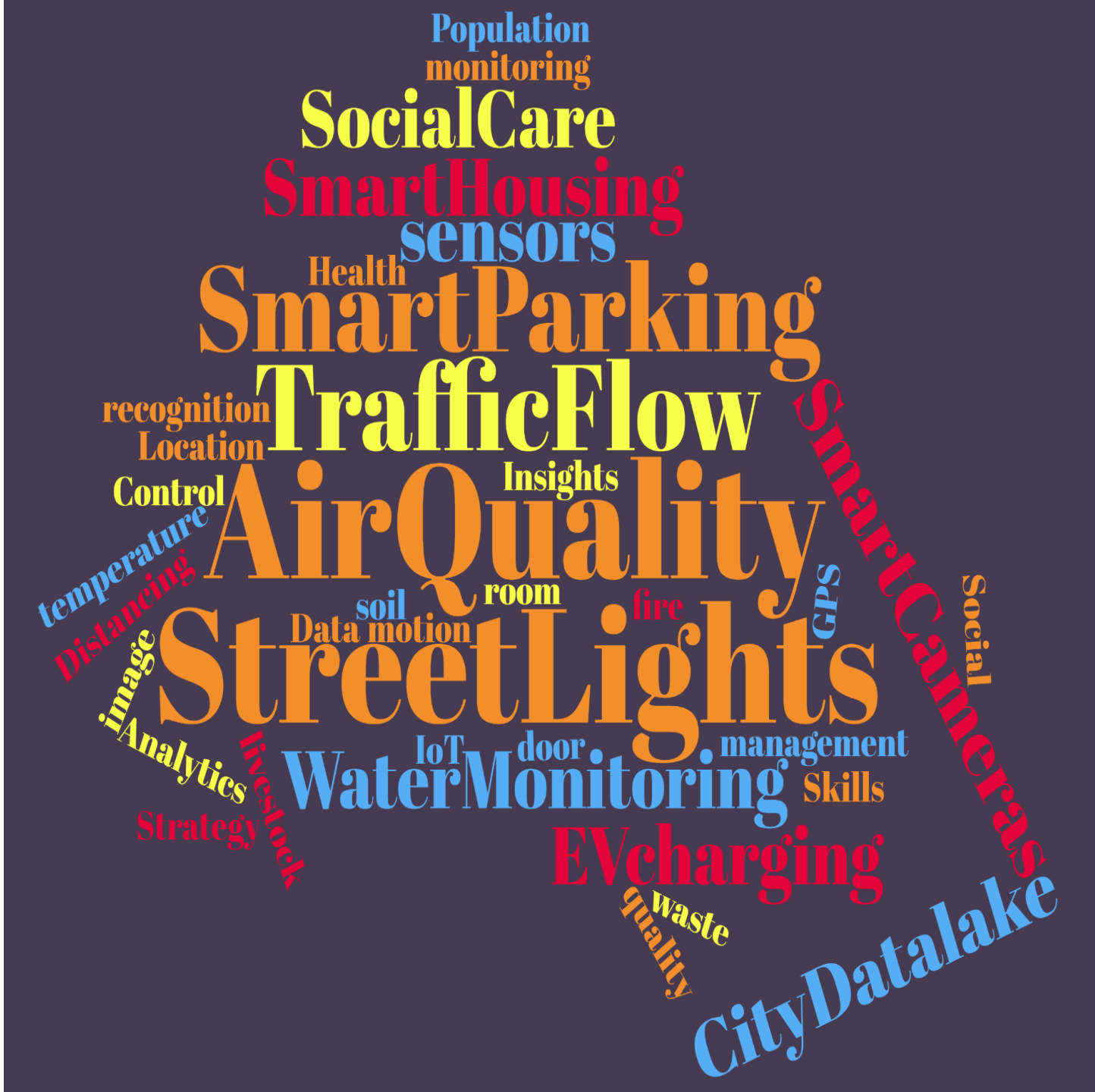
Smart and Sustainable City Insights

People, Places, Platform

Smart and Sustainable

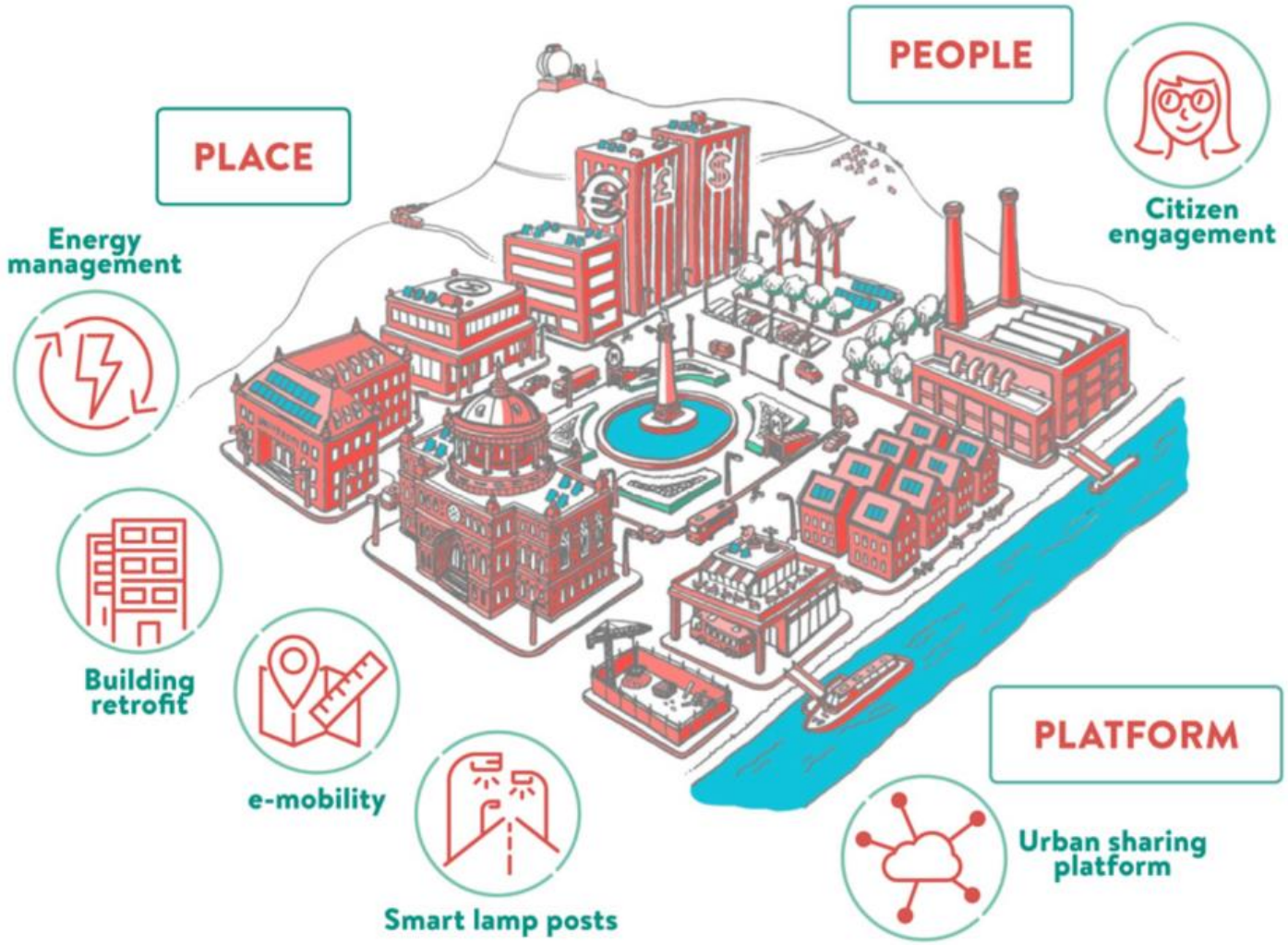
Smart & Sustainable City Insights

Consistent Themes

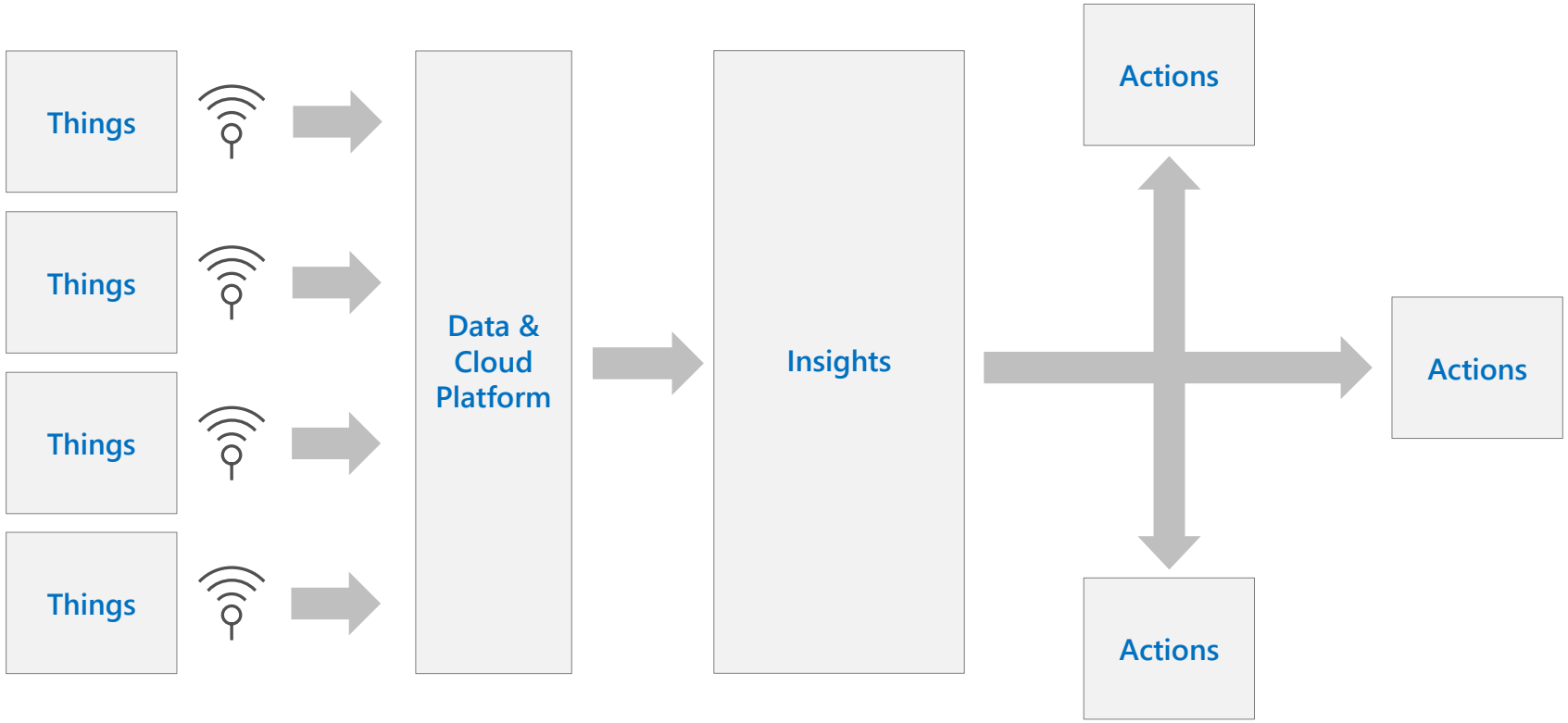


People, Place, Platform

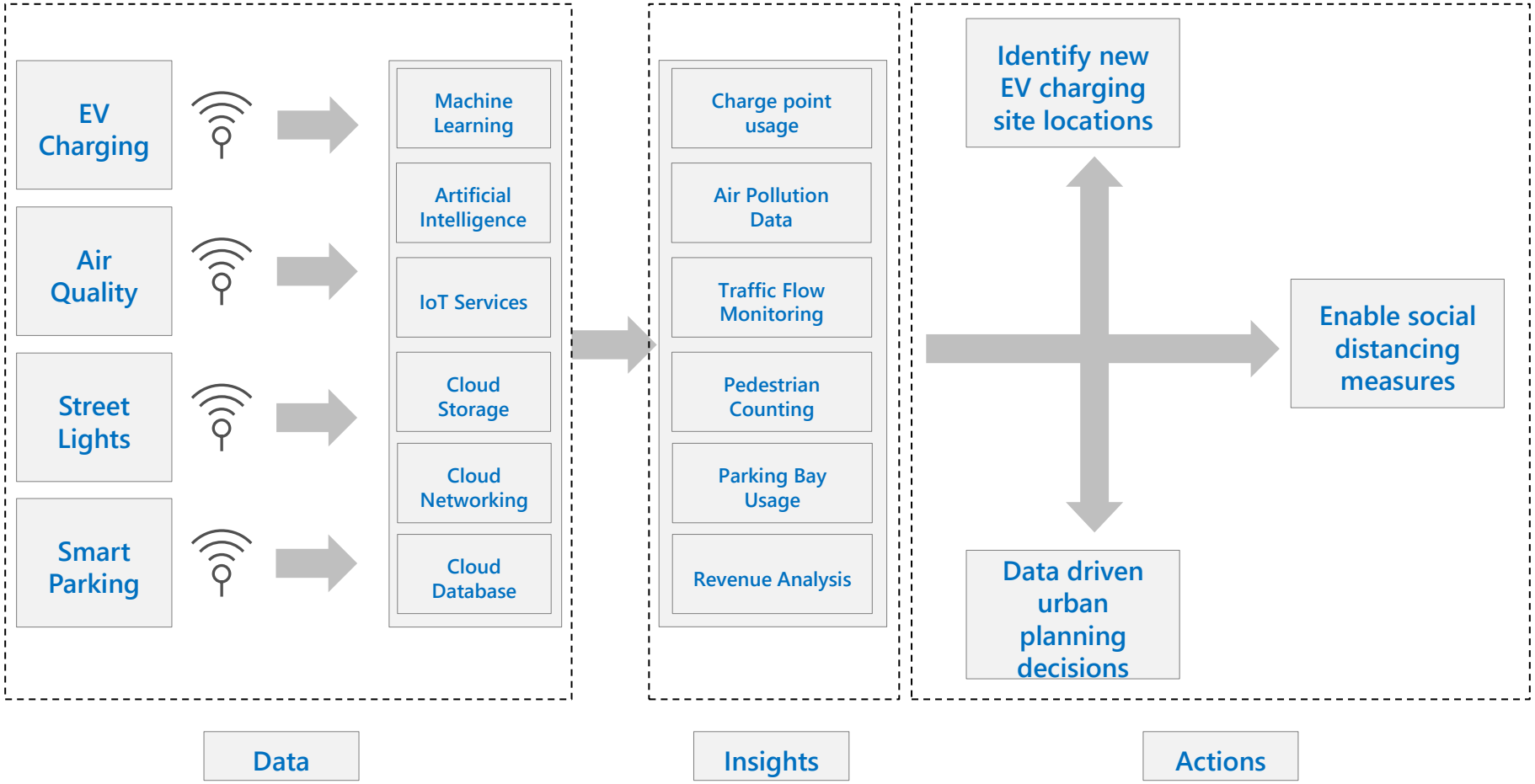
Data, Insights, Action



Internet of Things



Data, Insights, Actions



Enabling Sustainability: Through Data, AI, and IoT Use Cases

Sustainability Priority Scenarios

IoT (+Data & AI) Use Cases

Energy Management

- Building energy management
- Energy source optimization
- Usage Optimization

Water Management

- Consumption monitoring
- Leakage detection
- Water risk assessment &management

Carbon Management

- Carbon Emission Monitoring
- Carbon Emission Reduction

Waste Management

- Waste Monitoring
- Capacity planning

Forces at work driving change

Increasing carbon dioxide emissions are the primary driver of rising global temperatures

Buildings account for 40% of total energy consumption

70% expected increase in demand for products and services based on AI

$60B estimated energy cost savings for commercial buildings with 1-4% increase in intelligent technology[1]

By 2035, >50% of electricity will be generated by renewable energy[2]

[1]American Council for an Energy Efficient Economy, How Smart Buildings Save Energy, (Nov 2015)
2 McKinsey Report

Smart buildings helped reduce consumption by 20%

Leveraging Azure IoT, Analytics, and AI to shift to proactive management.

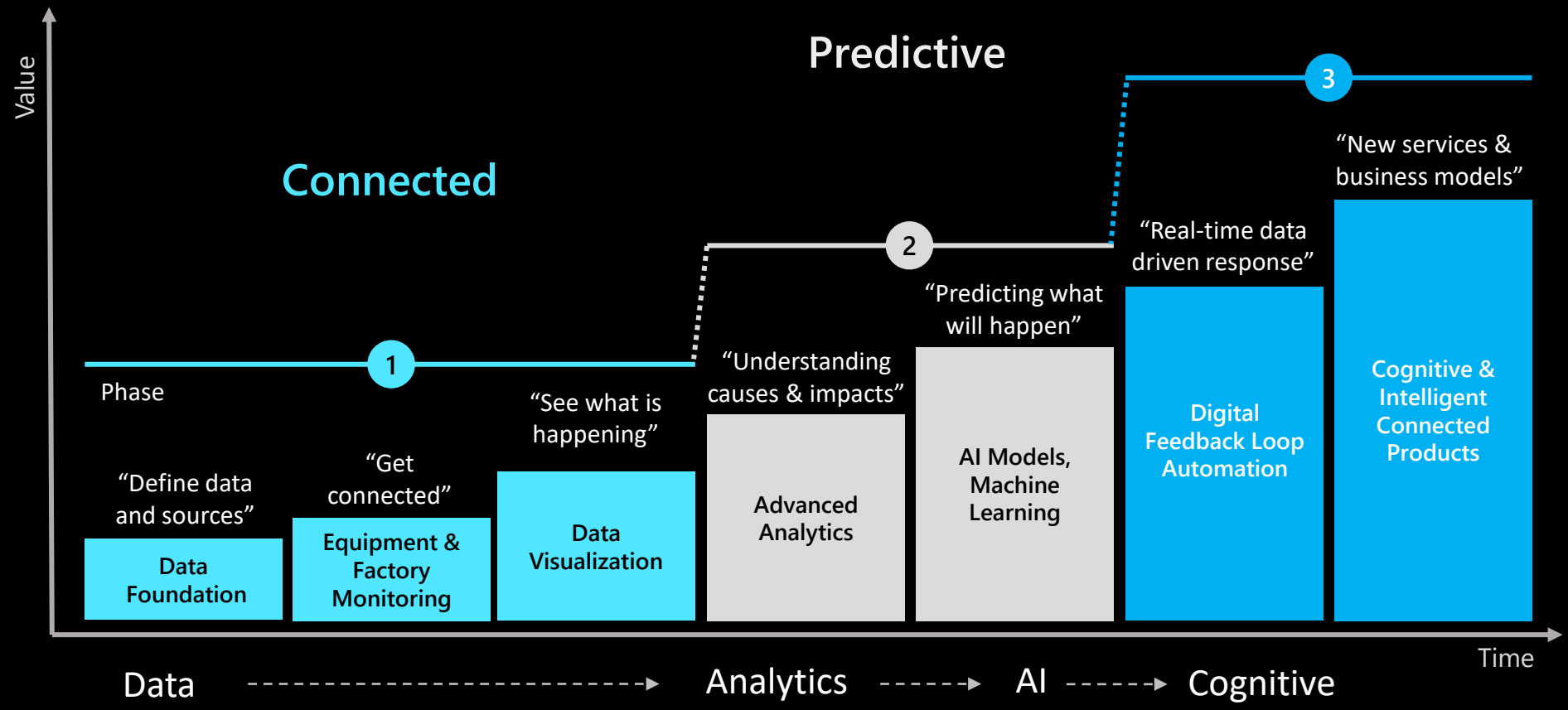
- Buildings account for 40% of energy consumption
- Previously relied too much on manual processes
- Now analyze 500 million real-time transactions a day to automate processes and reduce consumption
- Also identifying and predicting issues and equipment failure using Azure AI

Evolution of IoT Solutions

Today
Connected Assets

Emerging
Connected Environments

Future
Connected Ecosystems



Thank You

Internet of Things & Mixed Reality Sales