



# Intelligent Buildings & THE IoT's

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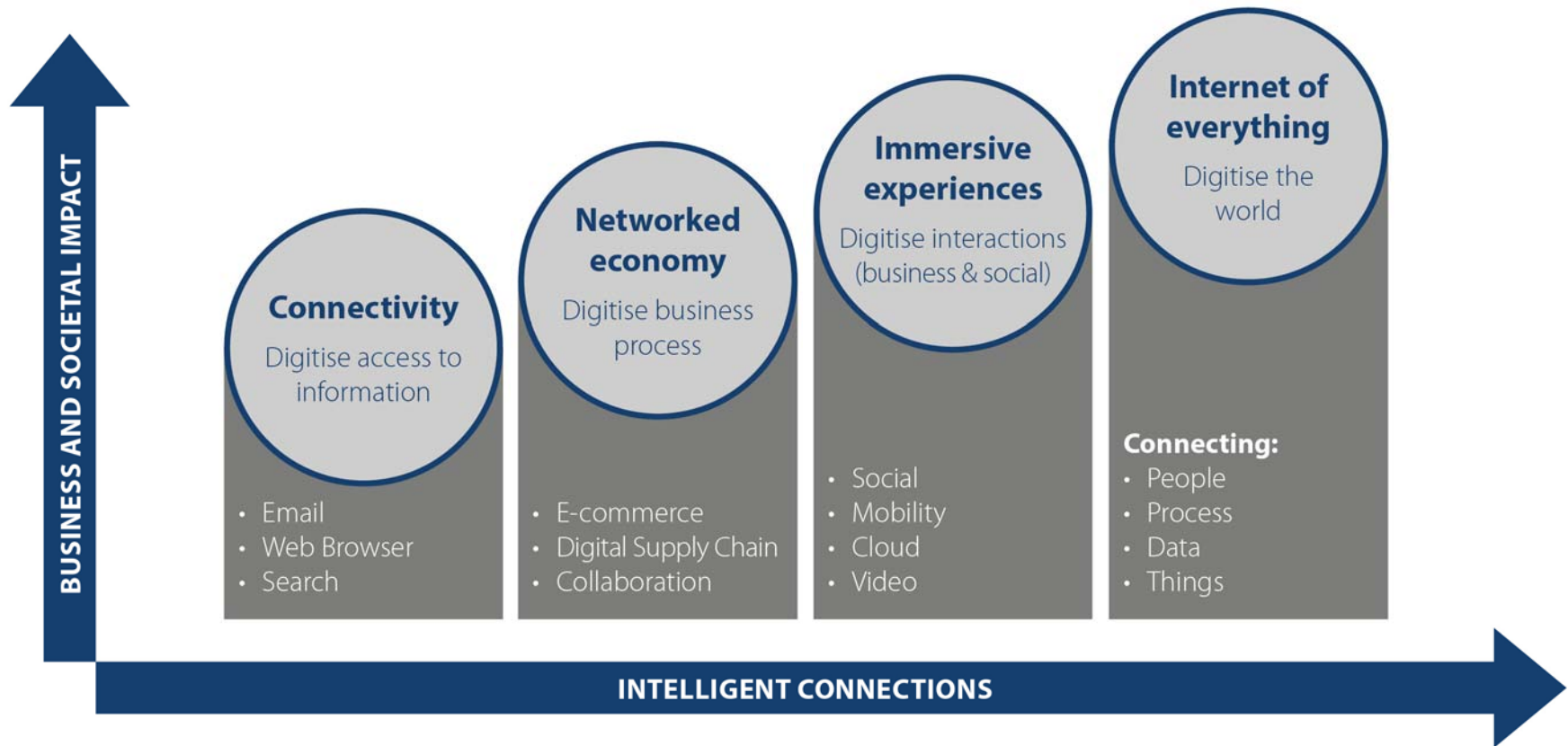


## Company Overview

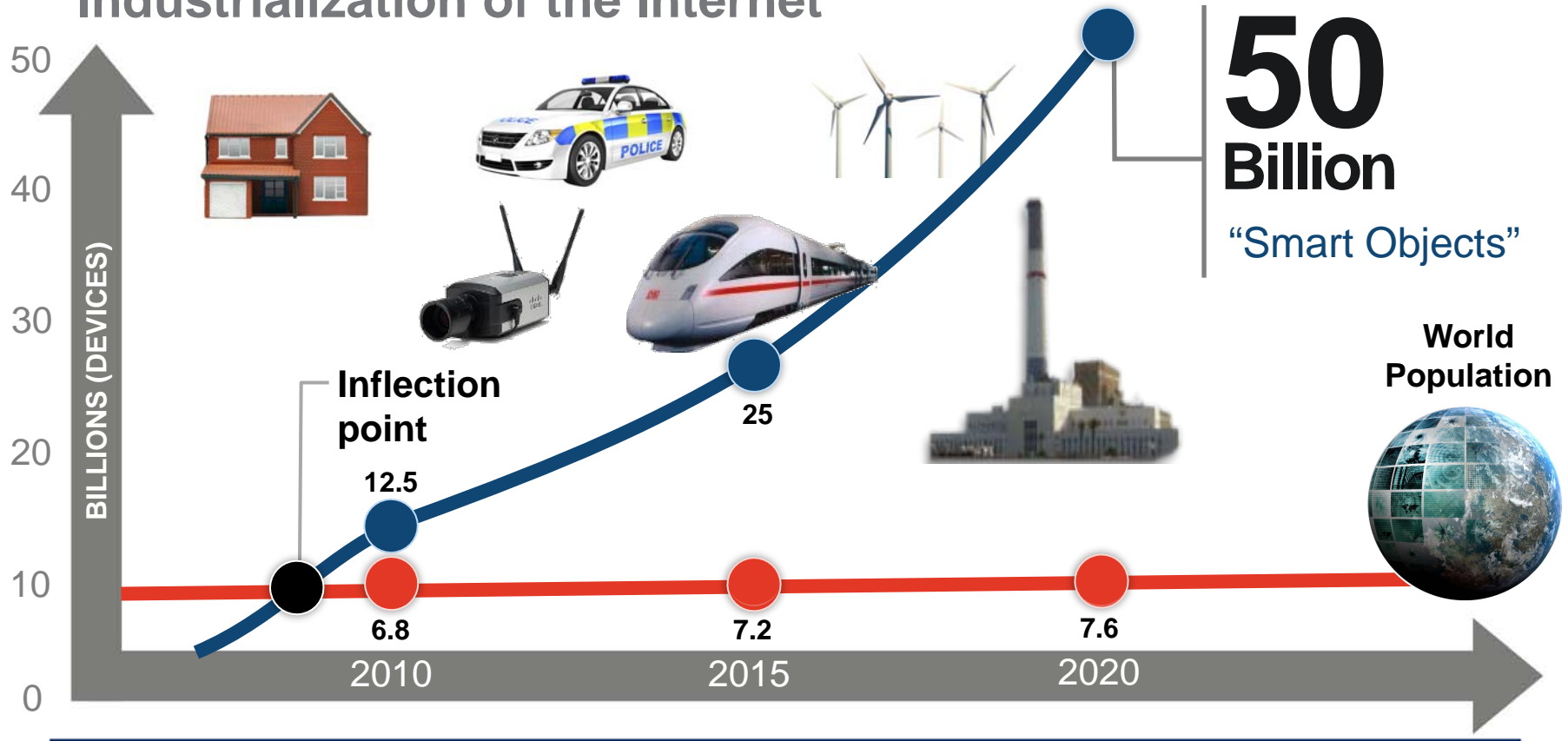
- Safety First & Foremost
- Formed 1921, family owned, over 90 years of history
- 2,500 employees
- £450m plus turnover
- Annual investment in training of £3m
- Offering a Design, Build, Operate and Maintain solution to the marketplace – integrating five core divisions.



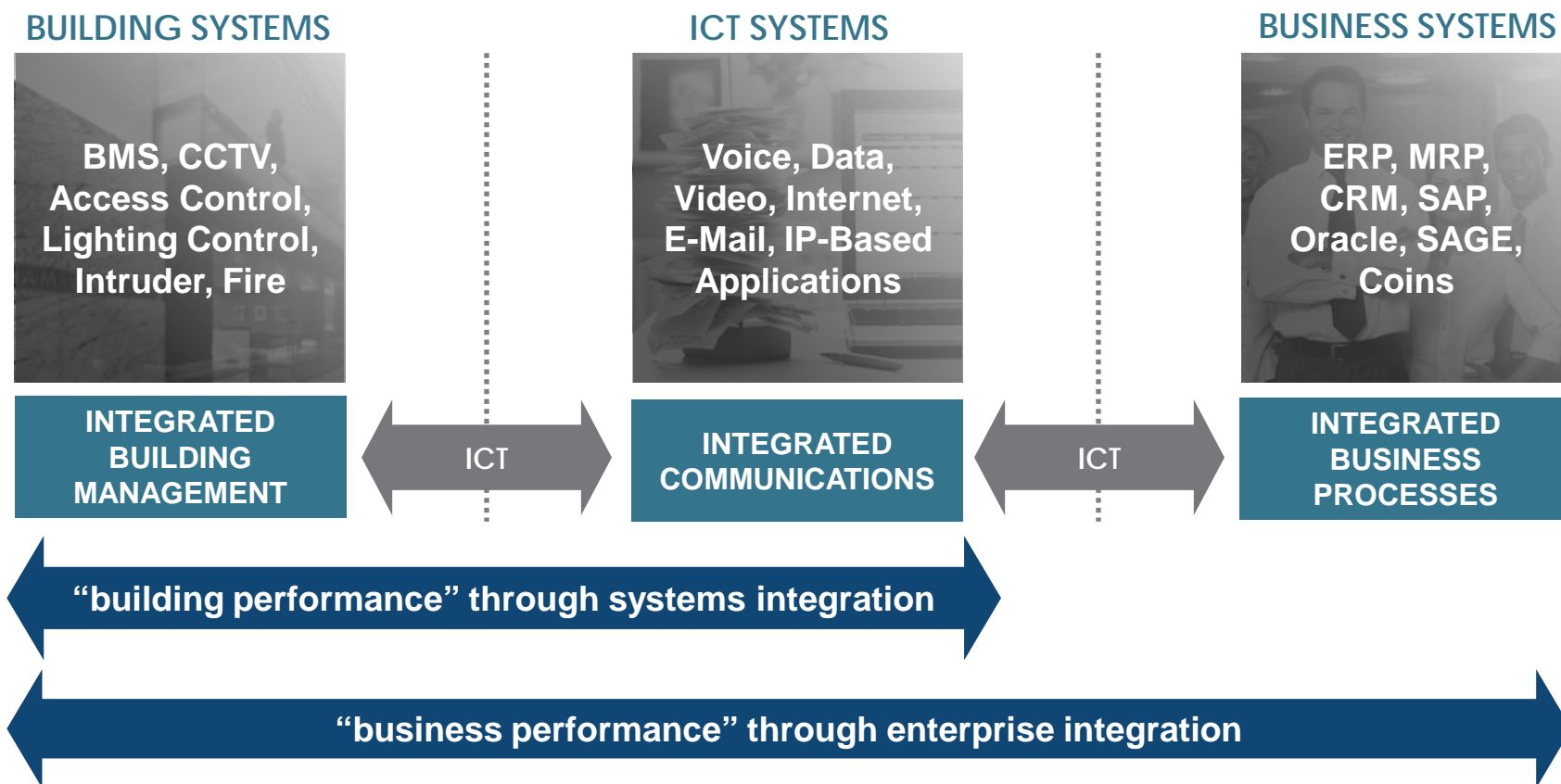
## Evolution of the Internet



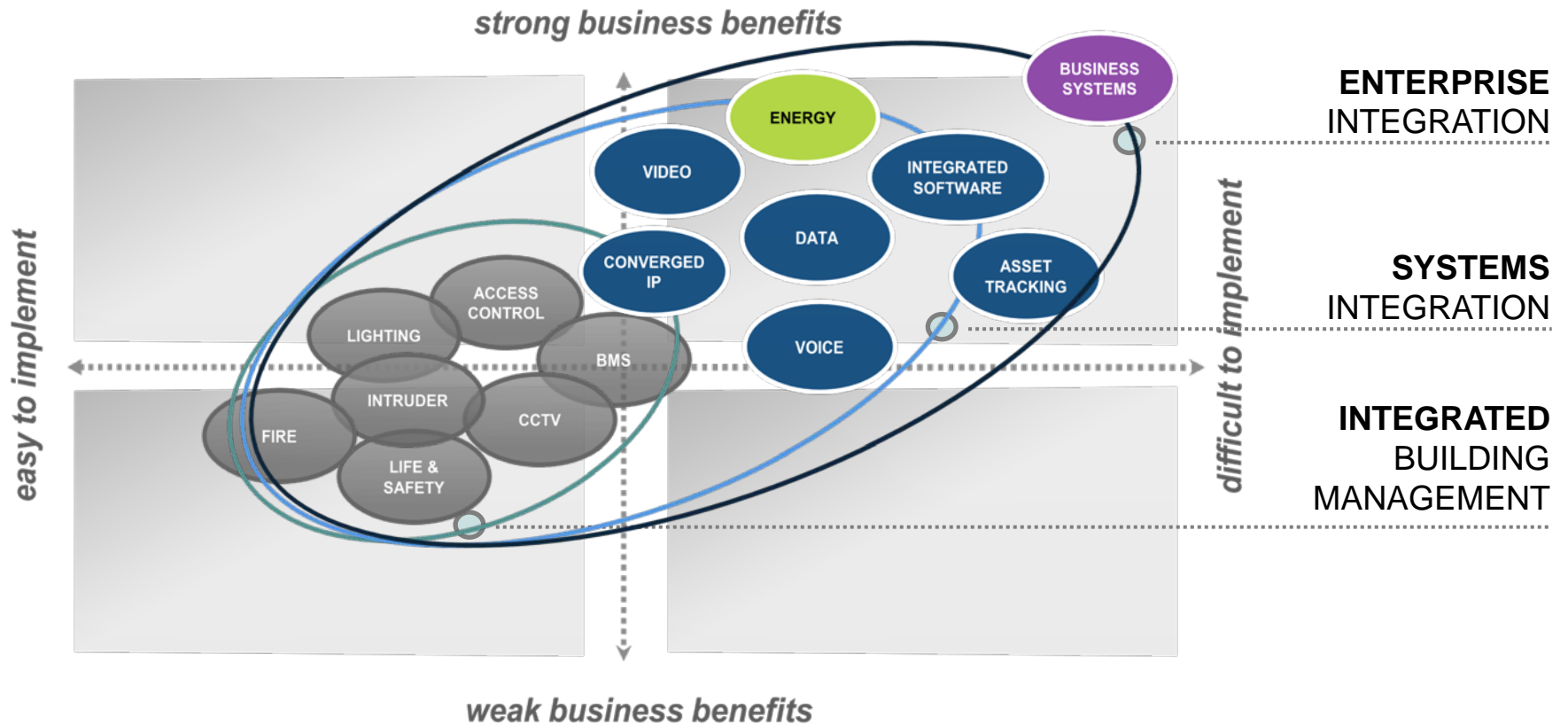
## The Internet of Everything – “Industrialization of the Internet”



## Gradations of Convergence



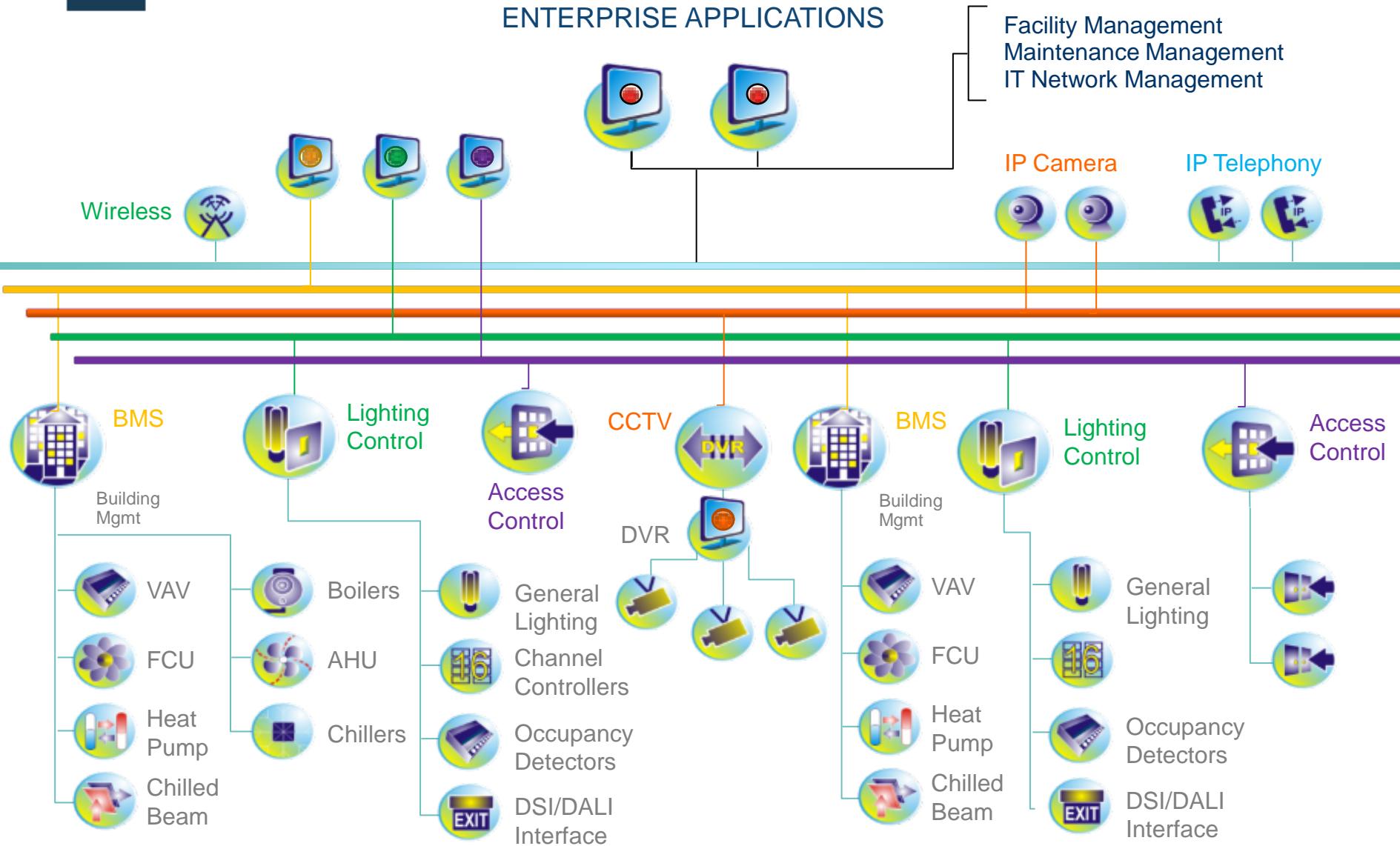
# Integration Opportunities





# LEGACY

## ENTERPRISE APPLICATIONS



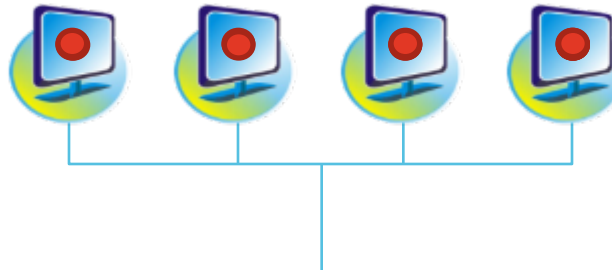


## CONVERGENCE ENTERPRISE APPLICATIONS

Middleware Server

Translation of disparate protocols  
to Common format

Wireless



Energy Management  
Building Management  
Facility Management  
Security Management  
Maintenance Management  
IT Network Management

IP Camera



IP Telephony



IP is the Standards: Best of Breed Edge, Future Readiness

Power-over-Ethernet redefines Electrical Engineering, Contracting

Performance Transformation: Monitor, Measure, Control

Real-time: Respond and Optimize

Environmental Sustainability

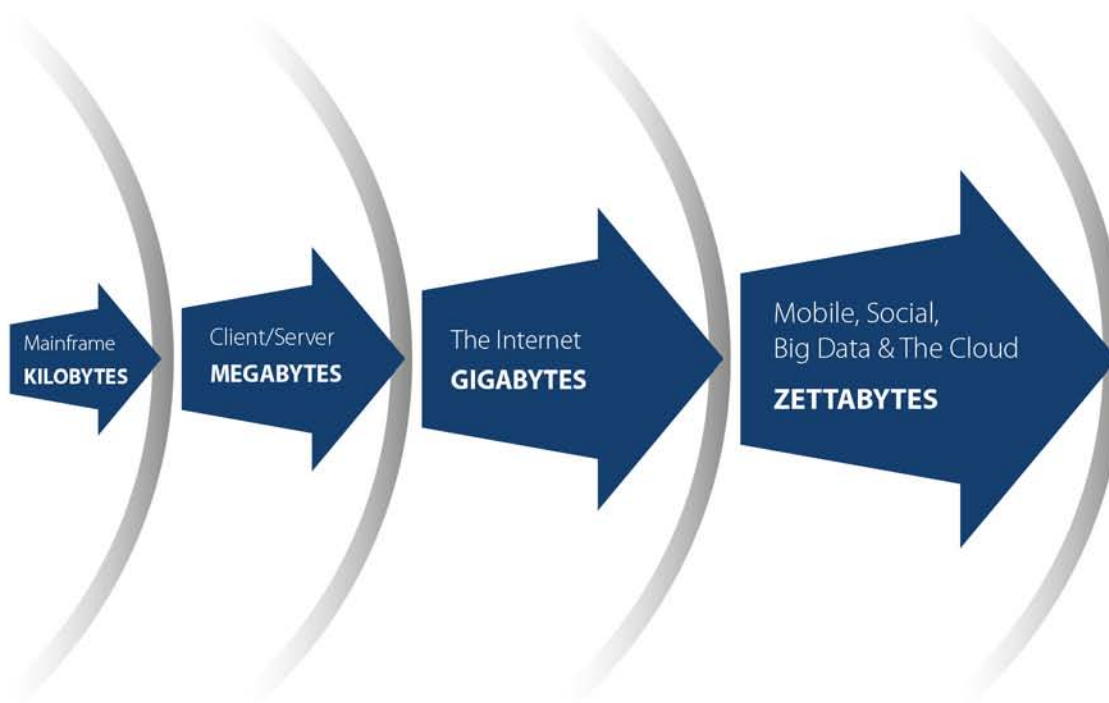
Security Architecture



## Big Data

**“Big Data” is data whose scale, diversity, and complexity require new architecture, techniques, algorithms, and analytics to manage it and extract value and hidden knowledge from it...**



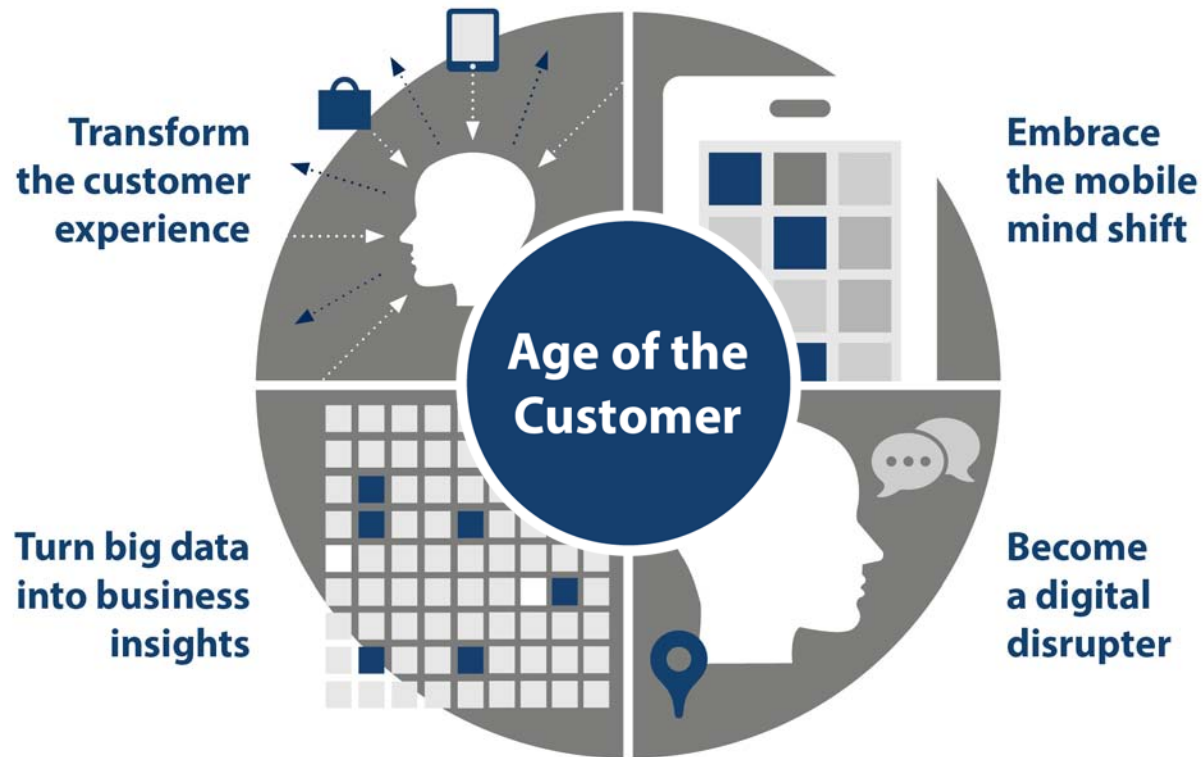


## Every 60 seconds

-  **98,000+** tweets
-  **695,000** status updates
-  **11 million** instant messages
-  **698,445** Google searches
-  **168 million+** emails sent
-  **1,820TB** of data created
-  **217** new mobile web users

## Yottabytes

## What does this mean to our customers?



## Digital Disruptors





## IoT is here Today - Connected Retailer

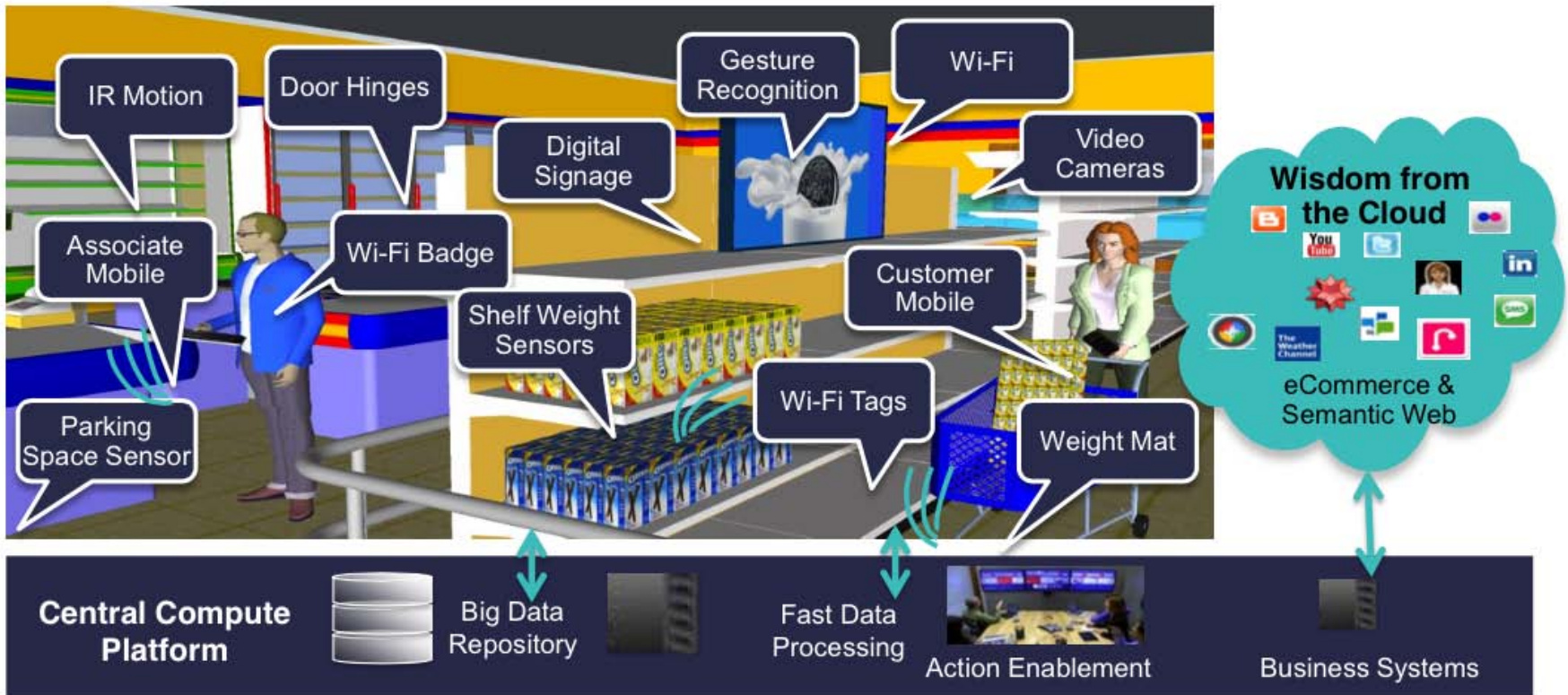


Image courtesy of Cisco

# Internet of [Building] Things

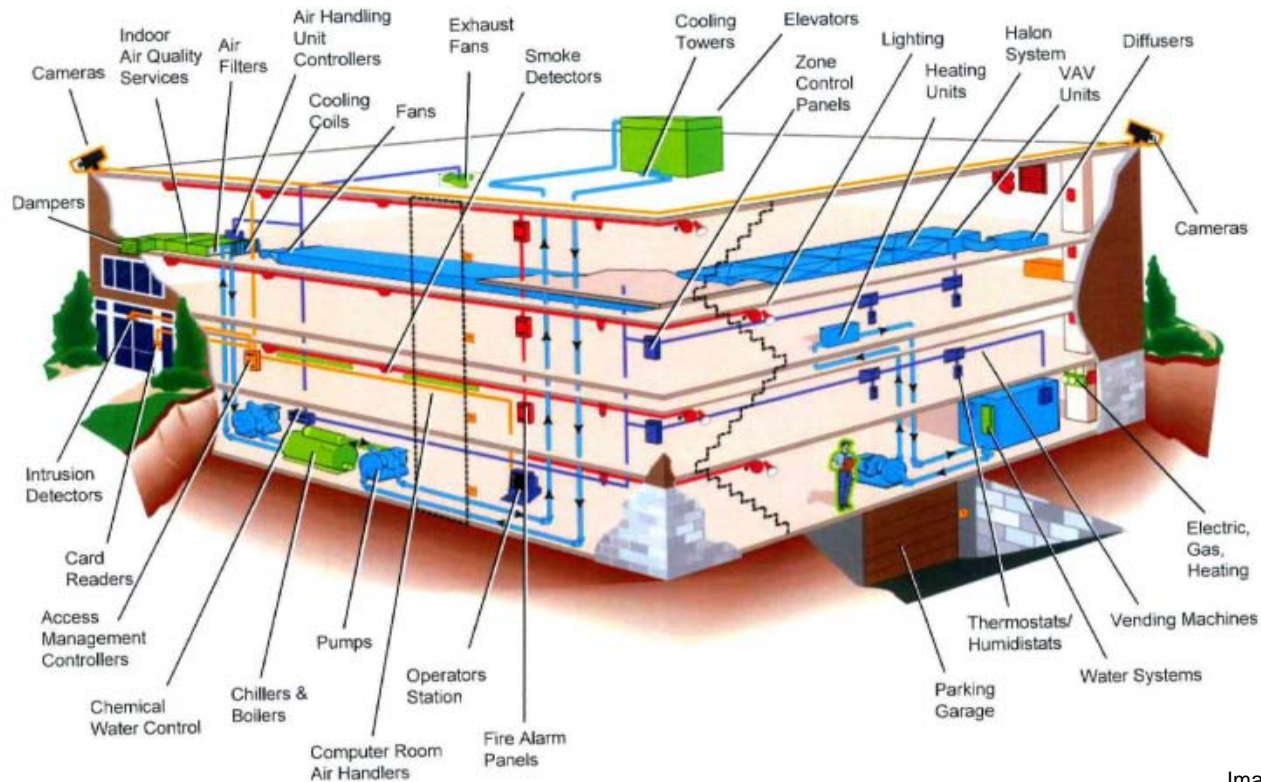
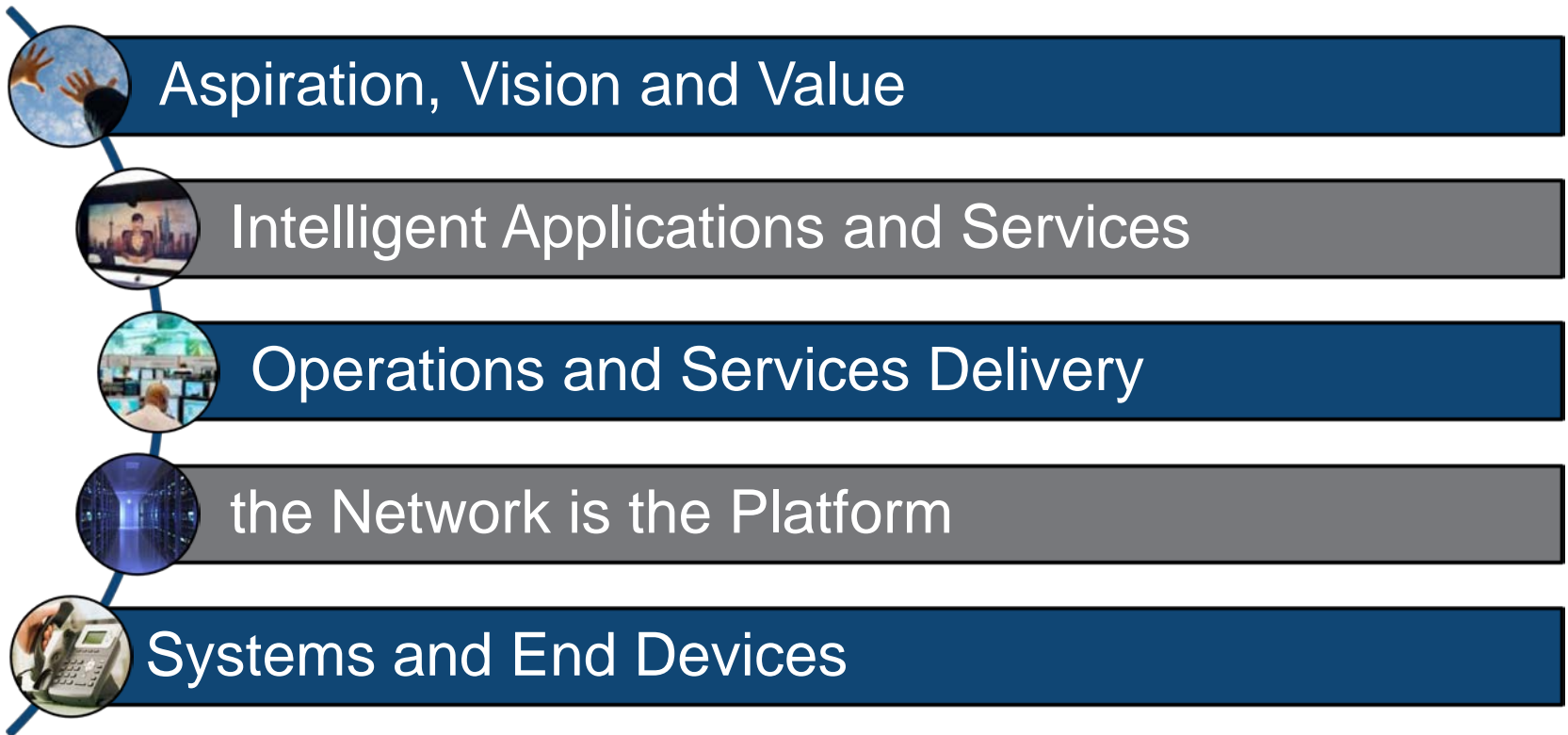


Image courtesy of Cisco



## Value Architecture



# Questions & Answers

