Wi-Fi And the Internet of Things: A Real World Study

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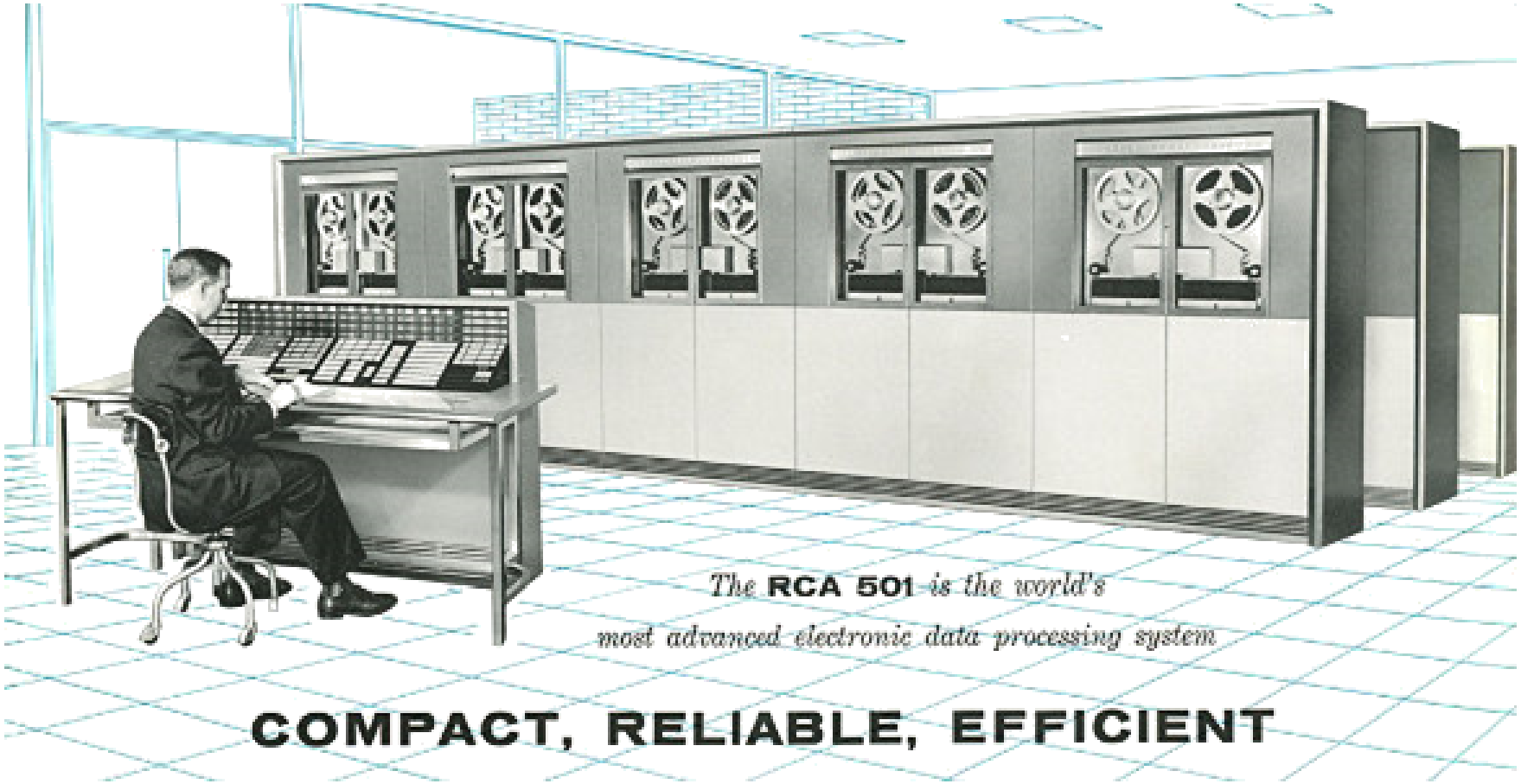
Goals

- Think about IoT
- Share experiences
- Identify common challenges
- Maximize business outcomes

A Look Back…1950-1980

- Mainframes



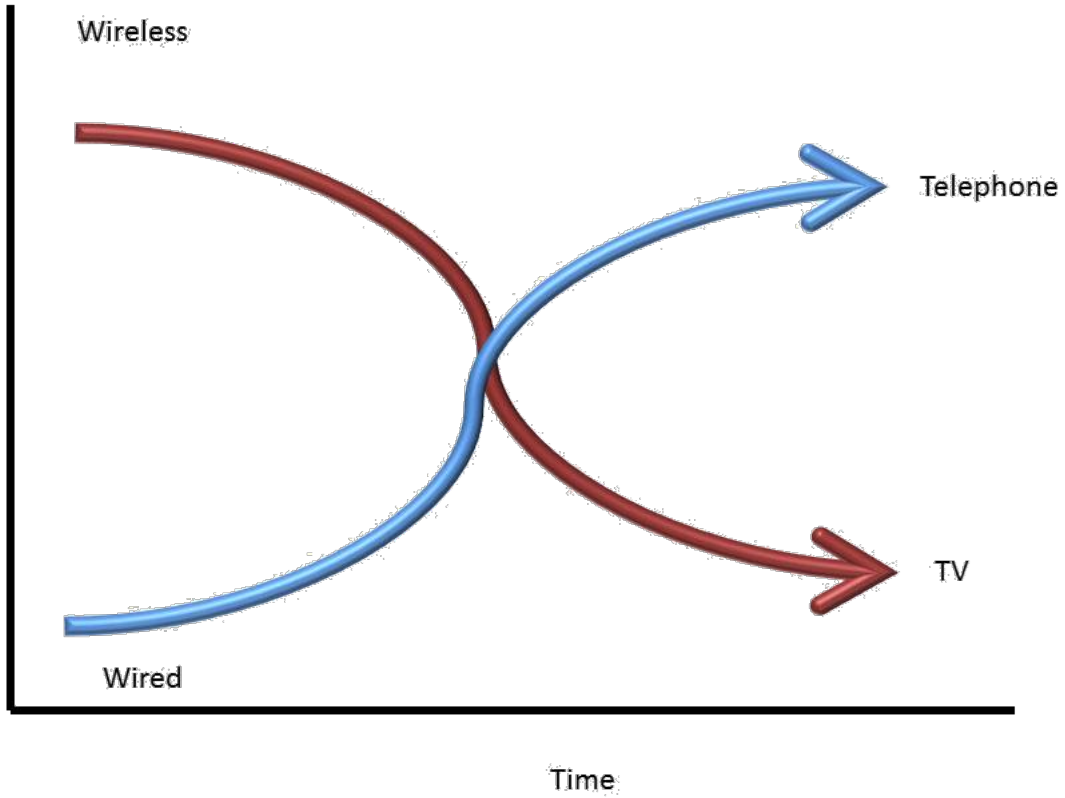
A Look Back…1984

- Super Bowl

A Look Back….1990's

- PC's are everywhere

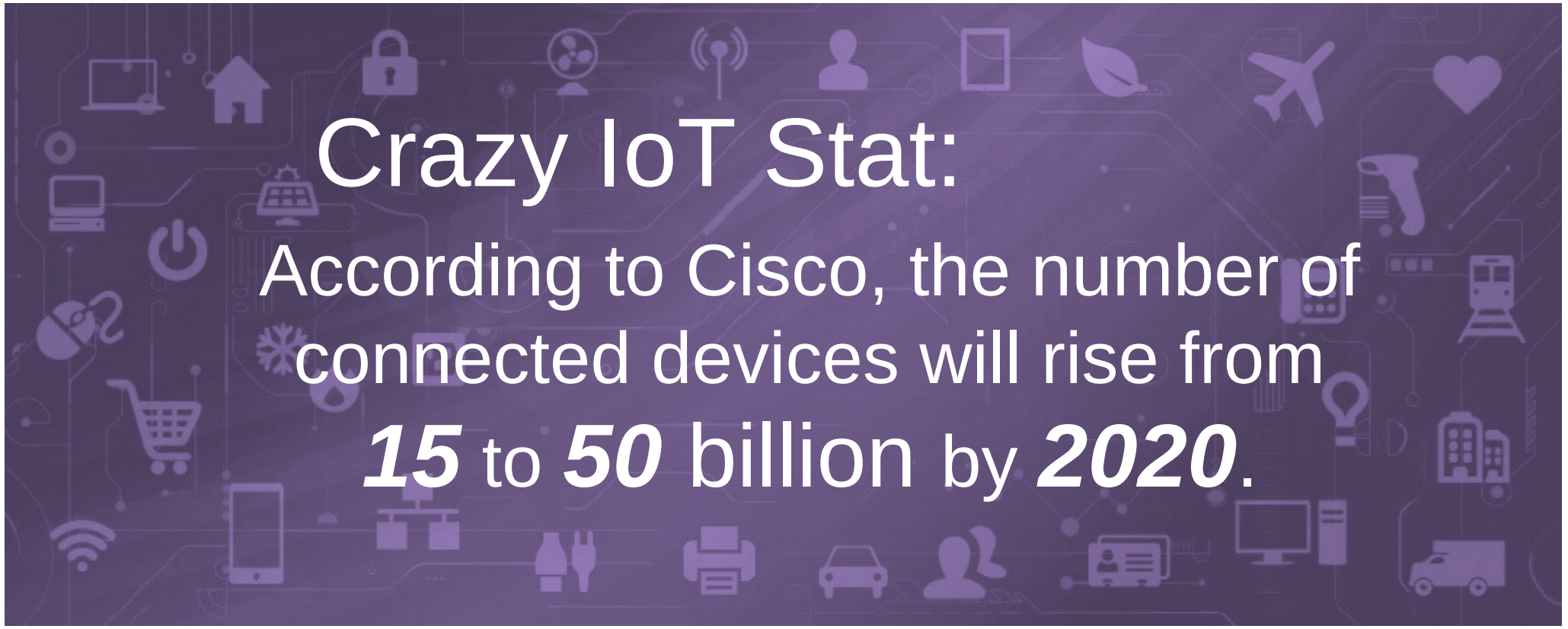
- The Negroponte Switch



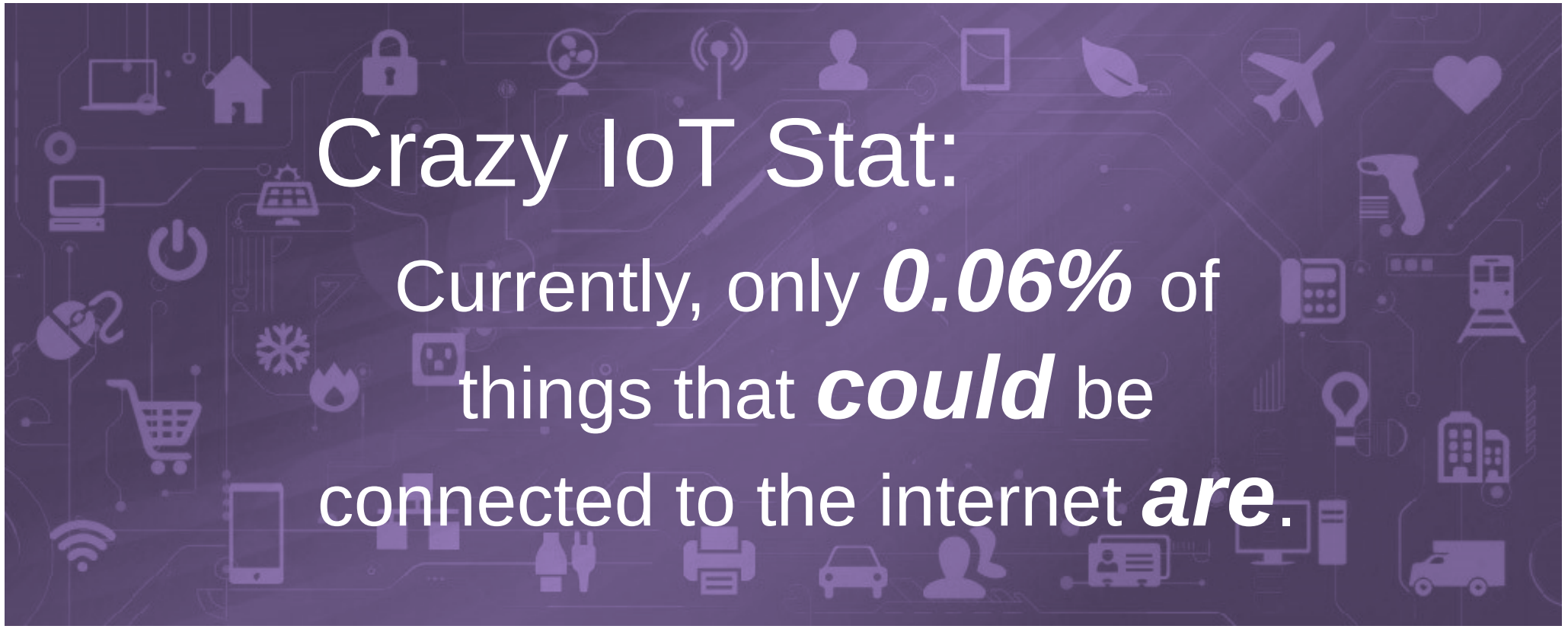
A Look Back…The New Millennium

- The century of “i’s”

Opportunities



Opportunities



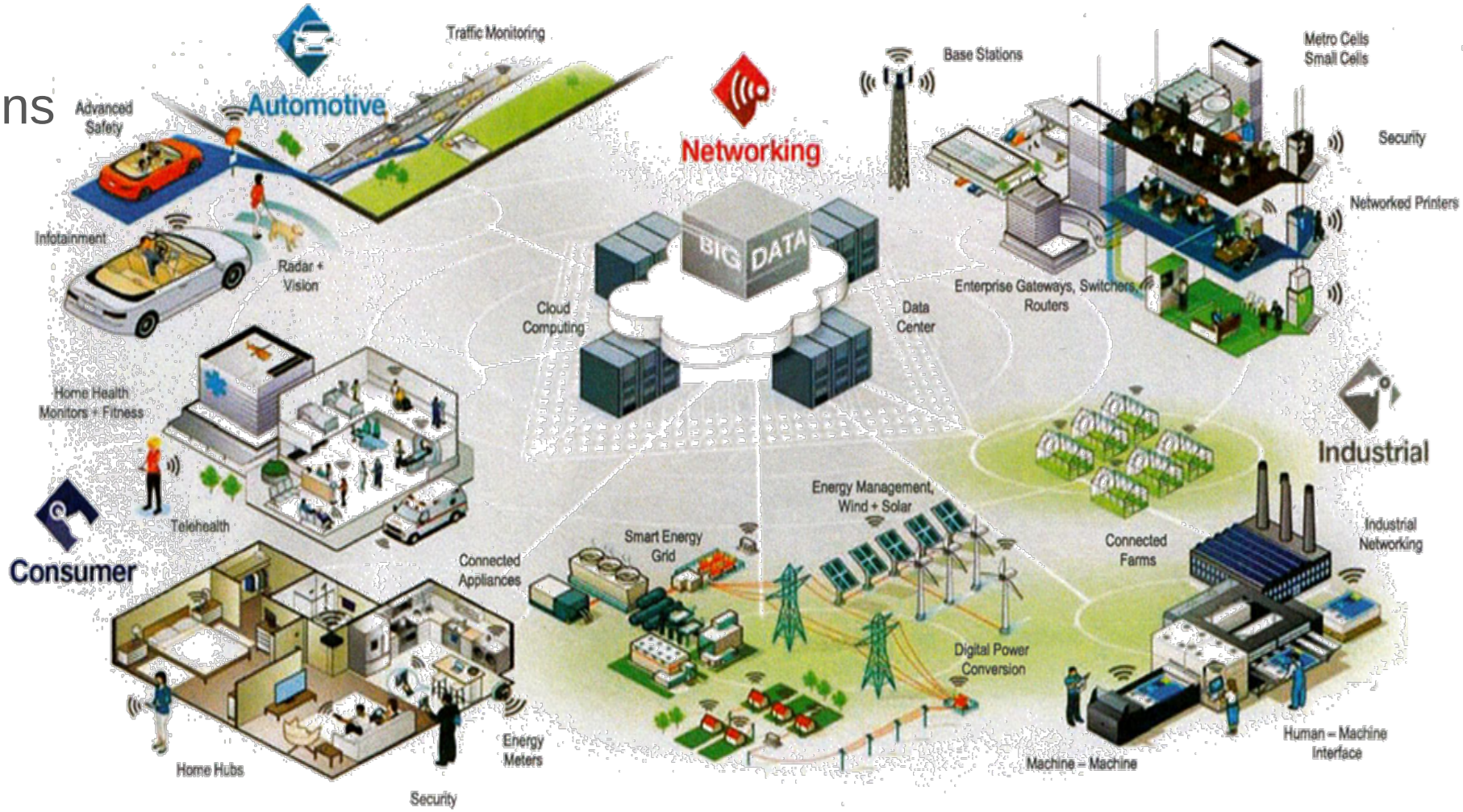
Potential Outcomes

- The growth is obvious
- Network expansion (wired and wireless)
- IT's Involvement in the Business Process
  - This will change the role of IT in the organization
  - IT can now be a Cost Savings/Revenue Center
- Analytics
  - What to do with all these new data points?
  - Many new software companies coming to market to help

Continue to strengthen your technical and business acumen!

The Internet of Things

- Limitless Applications
  - Medical
  - Municipal
  - Manufacturing



Wi-Fi Design is an ART, not a SCIENCE

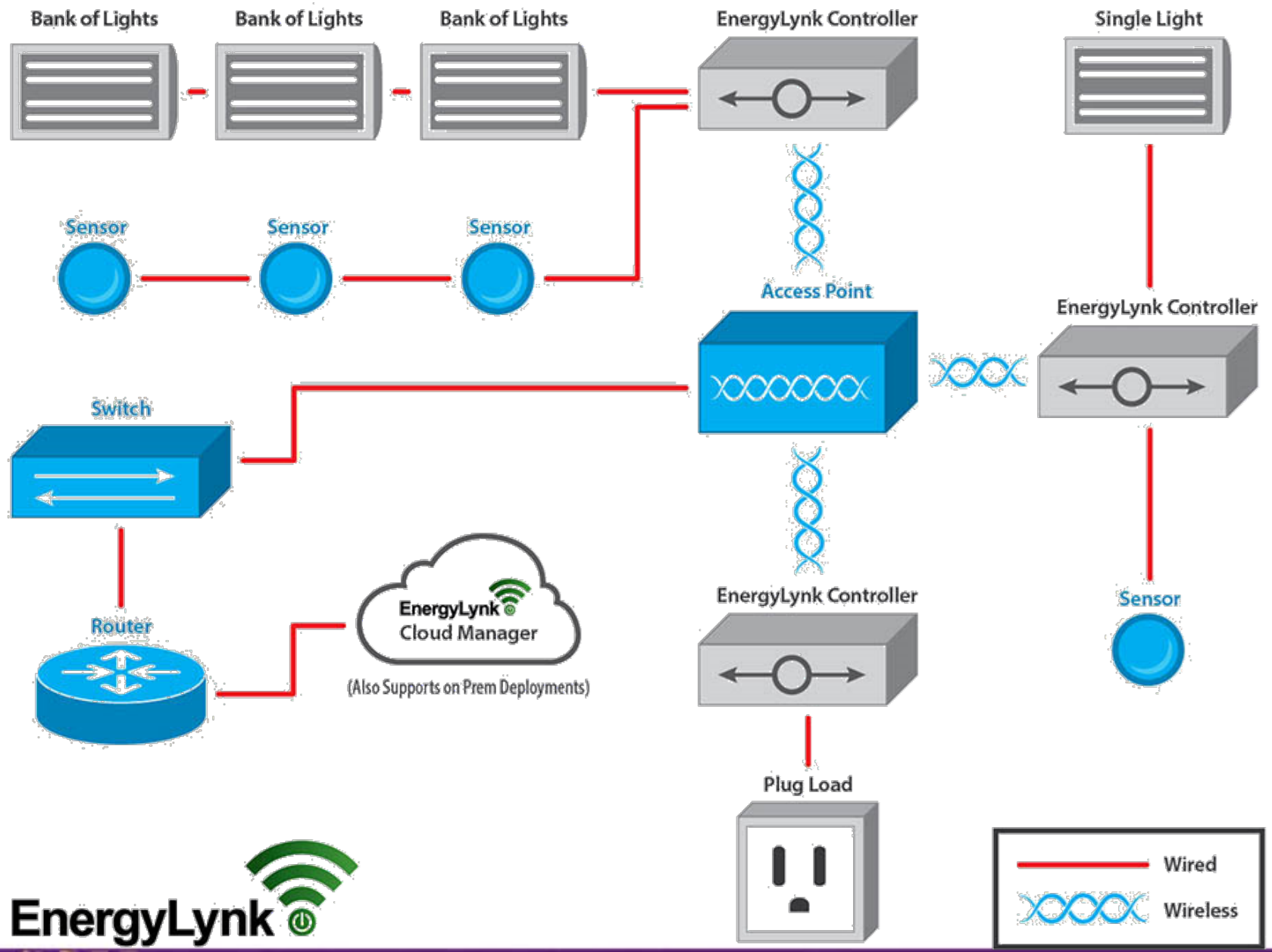
Considerations

- Wireless
  - Throughput vs Coverage
  - Frequency
  - Interference
    - Neighboring Networks
- Security
- Power
- Management
- Sensor companies are not network companies
  - See Automakers

EnergyLynk: Real World Example

- EnergyLynk
  - Part of Smart Building Solution
  - Intelligent Lighting System
  - Greenfield/Brownfield Applications
- Proven Technologies
  - WiFi, IP, Cloud
- IT and Facilities Become Savings Centers
  - Short ROI

EnergyLynk Network Topology



EnergyLynk: Design Assumptions

- Easy to Deploy – Scalable
- Power
- Multiple locations
- Centrally Managed
- Secure

Summary

- The Internet of Things is Here
- Billions of New Devices
- New Deployment Paradigms
- Challenges are Opportunities

Are you IoT ready now?

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