# Internet of Things (IoT) (Challenges

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# Background – D. Patel

- IEEE Computer Science Focus area Aerospace & Electronic systems – defined the future landscape for cloud/cyber frameworks for commercial/noncommercial entities working thru AIA, NCOIC, AIAA.
- STEM highly motivated to have the next gen workers maintain our guidelines in sponsoring activities in driving emergent technologies in the global markets.
- Several patents in my interest areas to drive innovation.
- Continue to support SPD network, Gov Cloud efforts
- Strive to promote technology learning and defining future landscape in emergent technologies.
- IoT massive changes in how we promote services and capabilities in the future.











### Internet of Things – 2<sup>nd</sup> wave of technologies

- Internet of things is the second wave of technologies post the cloud.
- Interconnect world
  - Cell phone
  - Tablet
  - Point transactions









## Internet of Things – 2<sup>nd</sup> wave of technologies

- Business Challenges in preparing for the next wave
  - Do you have defined framework for new technologies?
  - Do you have any barriers with your present enterprise?
    - Security
    - Policy
    - Governance
    - Budget





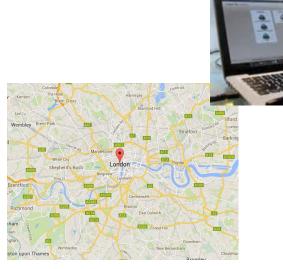




# **Internet of Things – London Tube**

- London Tube – IoT
- Monitoring
- Intelligence Sensor
- Disparate
   Networks
   interconnec
   ted
- Largest Rail project

















### **Internet of Things - Future**

- Internet of Things
- Samsung wearable tech
- Big data business models in IoT
- Risks & Challenges of IoT Projects
- Satellites Operators Role in IoT Randy C. Roberts VP of Innovation - Thuraya
  - Connecting remote assets
  - Offshore drilling with sensor intelligence
  - Smart Grid for communities
  - Smart Cars
  - Fitness data health of humans
  - Mobile Banking wireless ATM









# Internet of Things –Challenges

- Have you implemented IOT in your organization
- What are some challenges & barriers you are experiencing?
- Coverage
- Reliability
- Speed
- Cost
- Integration
- Convergence with other emergent technologies







