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Technology Shaping the Future

**Services BD – Cloud, Security & M2M/IoT Solutions**



# IoT Adoption challenges: an industry perspective

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# Challenge 1: Lack of common language



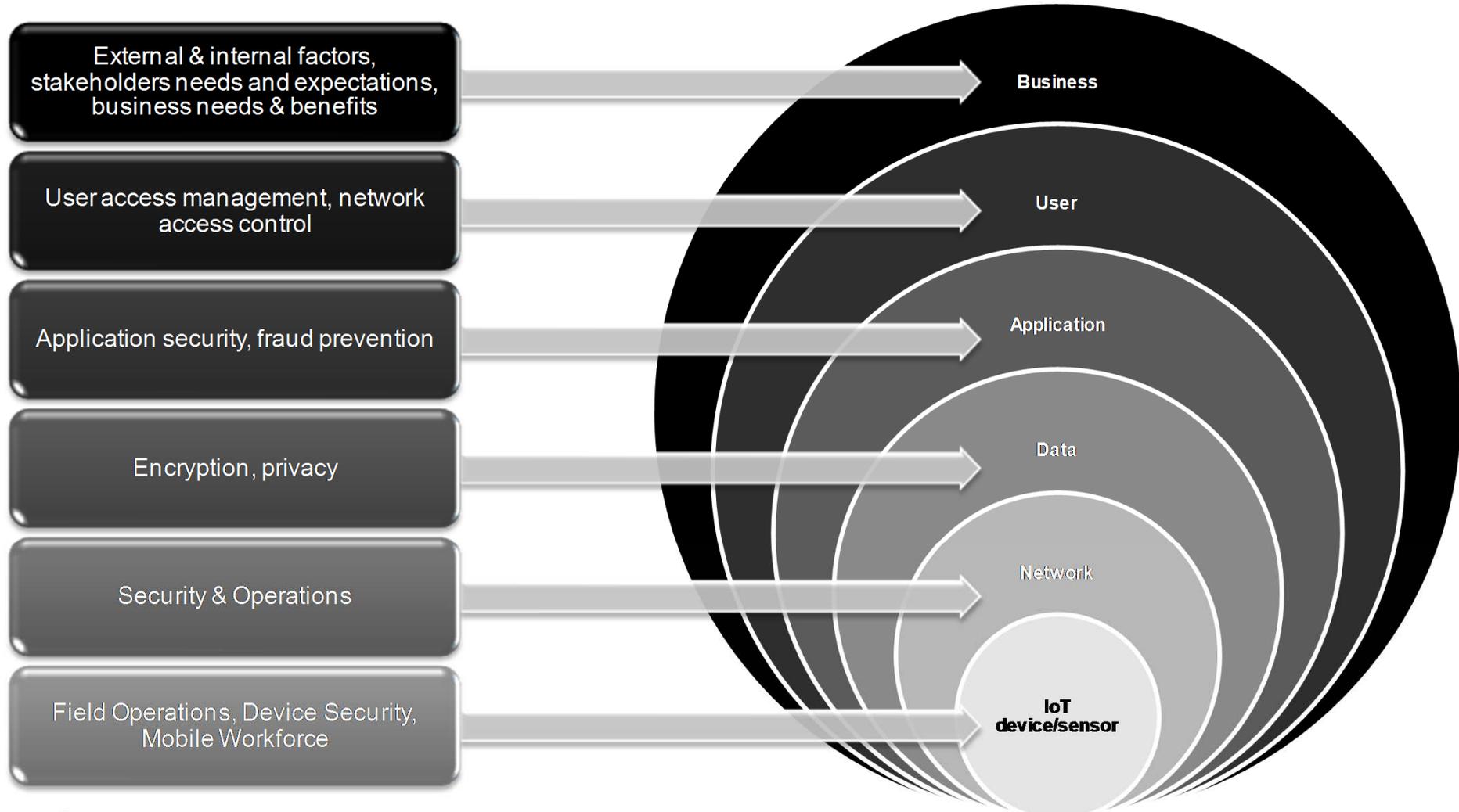
- ❖ Lack of appropriate standards governing aspects of IoT infrastructures and solutions
- ❖ IoT means different things for different market verticals
- ❖ Charging, billing, management
- ❖ Monetizing IoT potential
- ❖ IPv6, etc?

## IoT Revenue Opportunity - Worldwide



# Challenge 2: IoT security

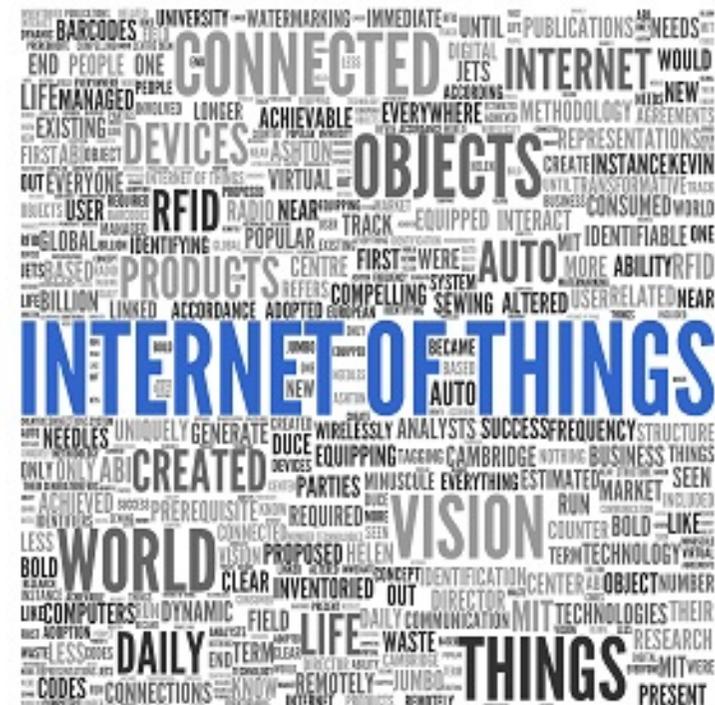
Information security must span across several layers



## Challenge 3: Interoperability

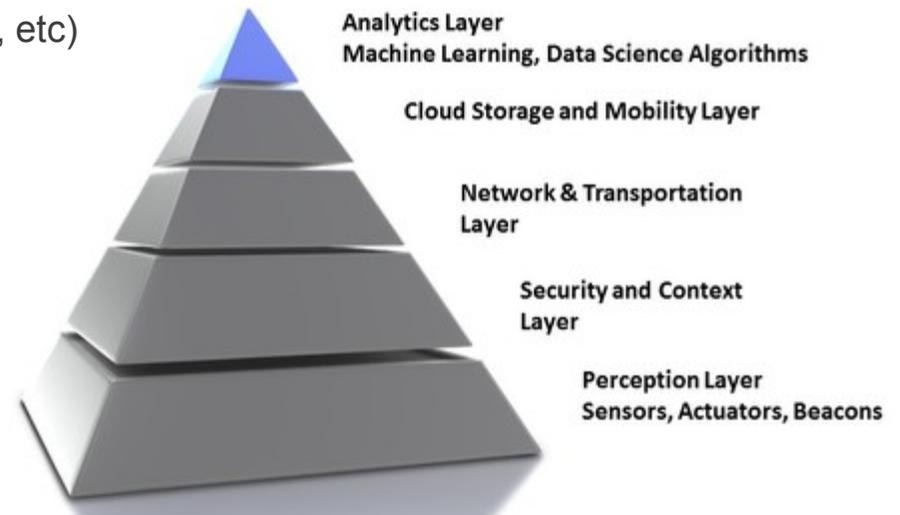


- ❖ Sensors and their technology and use
- ❖ Common platform – single plane of glass management
- ❖ Marketplaces
- ❖ Partner on-boarding and management



## Challenge 4: Unified platform

- ❖ Cloud-based platforms
- ❖ Federation
- ❖ Partnerships with service providers
- ❖ Ownership
- ❖ Legal and regulatory requirements (data protection, etc)
- ❖ Business analytics



Source: CIO.com

# What is being done



- ❖ We usually see “siloes” approaches
- ❖ Emphasis is still given in M2M rather than the development of IoT
- ❖ Initiatives are in their infancy, but a lot of people are eager to be engaged
- ❖ Cloud Security Alliance – participation in “IoT security guidance” and “Guidance for securing cloud services for smart cities”
- ❖ Participation in other fora

## What can be done



- ❖ Close collaboration between interested parties at regional level
- ❖ Need to identify who drives the evolution
- ❖ We need to decide who can actually drive it
- ❖ Formalize an appropriate baseline for information security
- ❖ Leverage existing infrastructure and deployments (such as public cloud) as strong foundations
- ❖ Cooperation between academia, industry, operators, etc.

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