The background is a solid blue color with various light blue geometric shapes scattered across it, including squares, circles, and crosses. The shapes are of different sizes and orientations, creating a patterned effect.

Introduction: Internet of Things (IoT)

by
Tom Plummer

DEVICES WE ALREADY USE



DEVICES USING
CONNECTIVITY IN
NEW WAYS



Internet of things

DEVICES PREVIOUSLY
INACTIVE, BUT NOW
INTELLIGENT



COMPLETELY NEW DEVICES

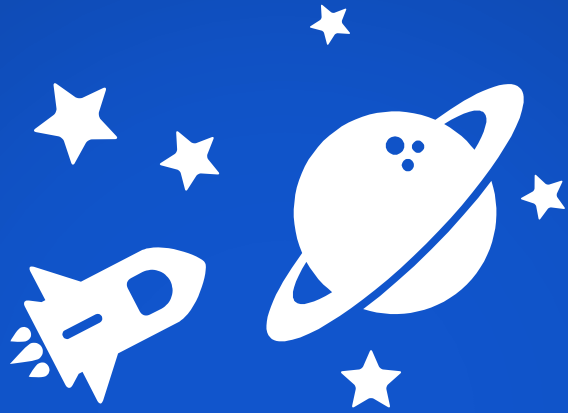


What are the beams that build IoT ?

- + Sensors
- + Broadband
- + Building Automation System / Energy Management System
- + A common communication protocol (BACnet)
- + Intelligent Controllers
- + Network Security / a good relationship with IT support
- + Connectivity
- + Analytic Software
- + Smart utility meters

What are the benefits?

- + Energy Savings
- + Improved efficiency / service
- + Less labor costs
- + Attract customers
- + Keep employees & tenants happy
- + Protect assets



“

Everything that can be automated
will be automated.

— ROBERT CANNON, INTERNET LAW AND POLICY EXPERT

”



25,000,000,000+

by 2025

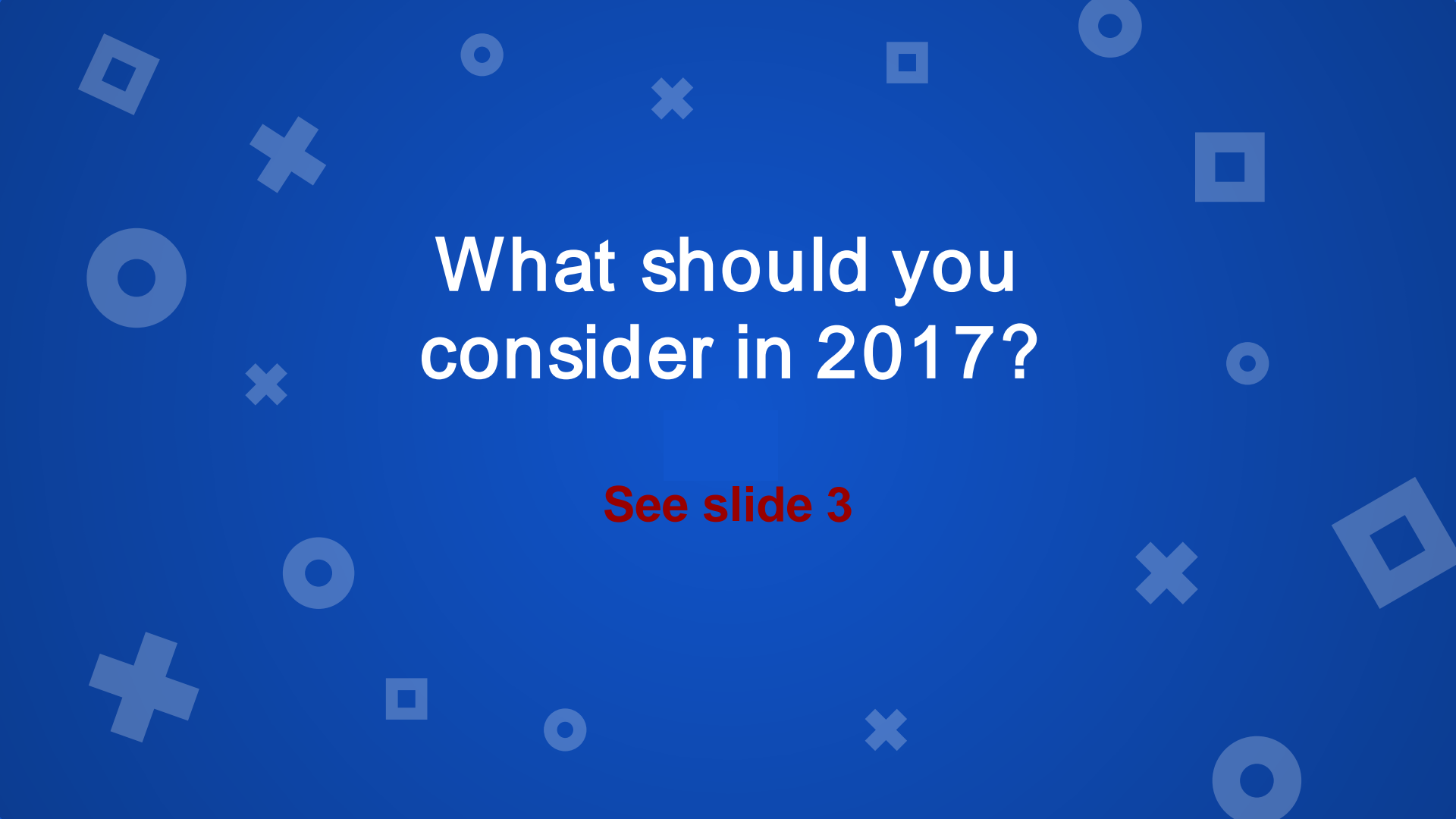
Beacon Technology

Data can be gathered at any complex (airport, mall, or medical center) for use by the occupants, merchants, law enforcement, or owners.



More Immediate Applications

- **Dedicated tablets, or smart cameras** - use in place of a receptionist: allow customers or guests to sign-in, automatically summon someone, or permit staff to enter work requests
- **Wifi speakers** - to provide ambient music; overhead paging; or serve as an extension to a phone intercom
- **Converged technology (one system communicating with another)** - for example known times of peak demand can be programmed into the energy management system in order to control various systems to avoid expensive electrical surcharges



What should you
consider in 2017?

See slide 3

What are the beams that build IoT ?

- + Sensors
- + Broadband
- + Building Automation System / Energy Management System
- + A common communication protocol (BACnet)
- + Intelligent Controllers
- + Network Security / a good relationship with IT support
- + Connectivity
- + Analytic Software
- + Smart utility meters

*“The Internet of Things
has the potential to
change the world, just
as the Internet did.
Maybe even more so.”*

Kevin Ashton (@Kevin_Ashton)

What can big data do for your organization today?





Any questions?

505-256-6794

Tom.Plummer@ihs.gov