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At the end of 2013
there were more
mobile devices
than people on
earth - SAP



”

26

Hours



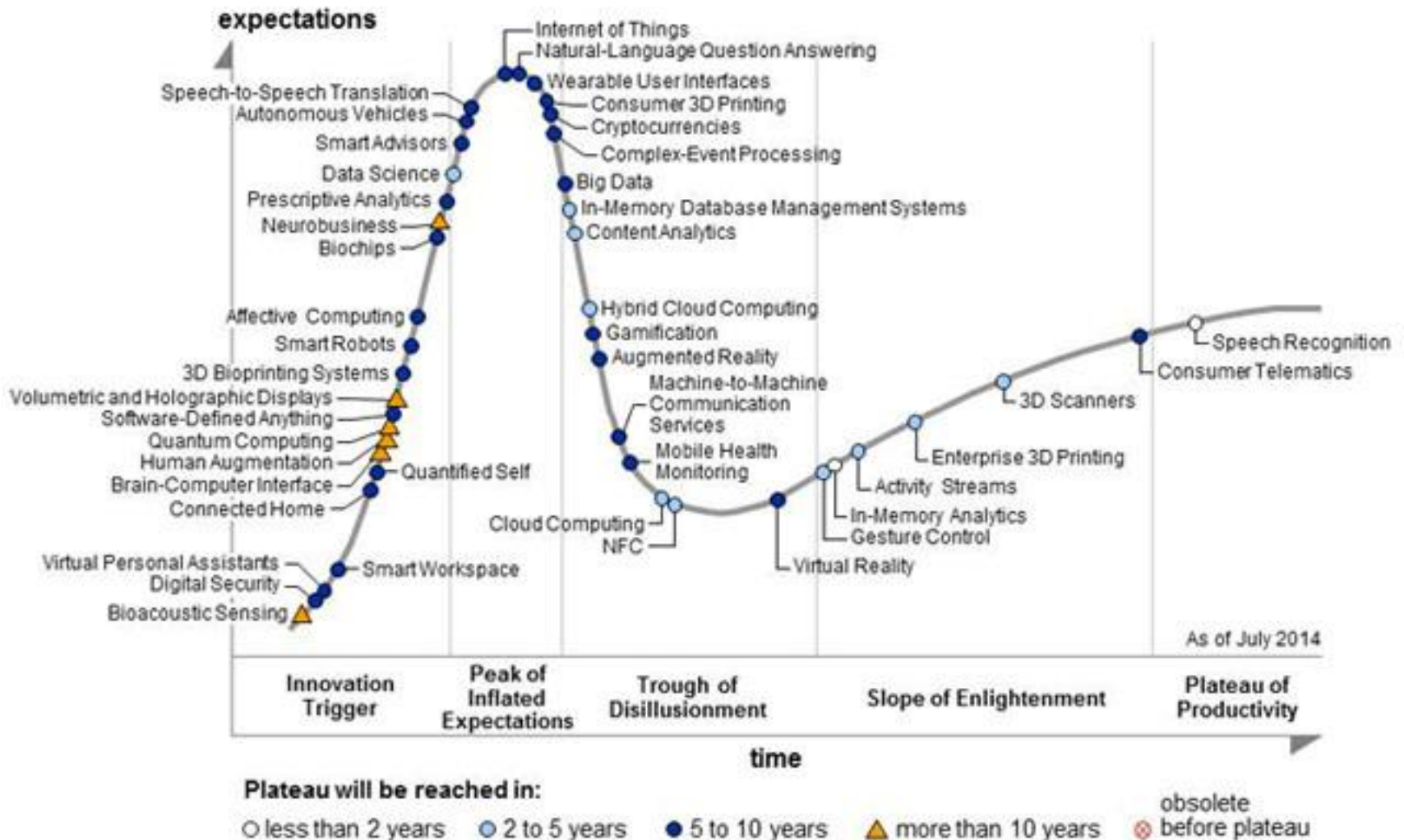
68

Minutes

(Source: Unisys)

Market Trends

Inflated Expectations?



TWO

Just isn't enough!



Wearables

...Nothing new really





The Challenge

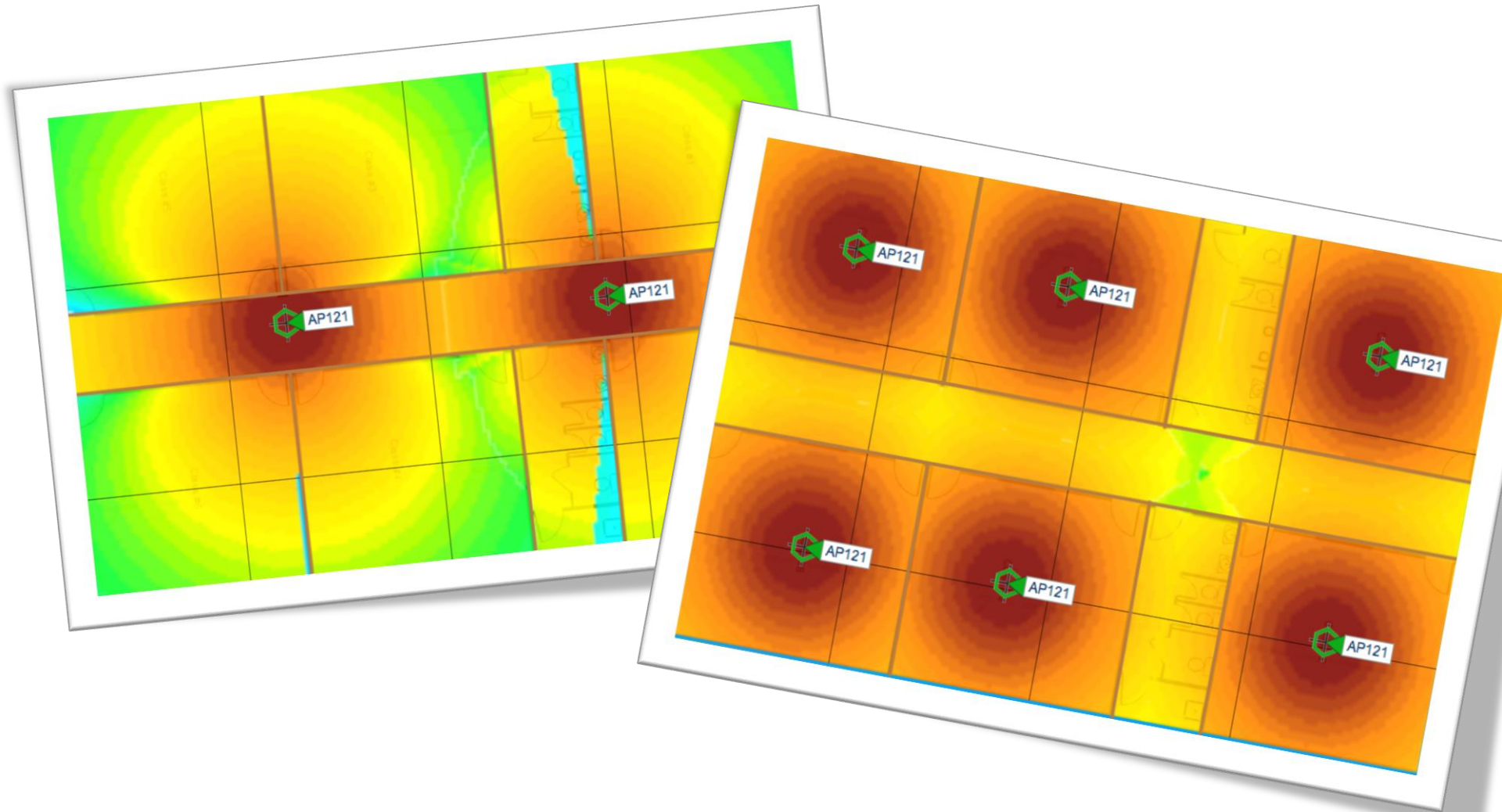
Design

Coverage vs CAPACITY



Design

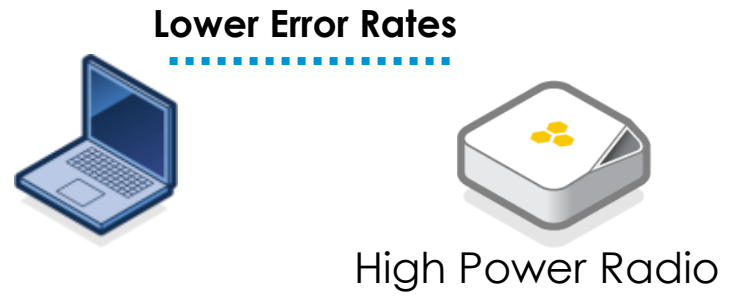
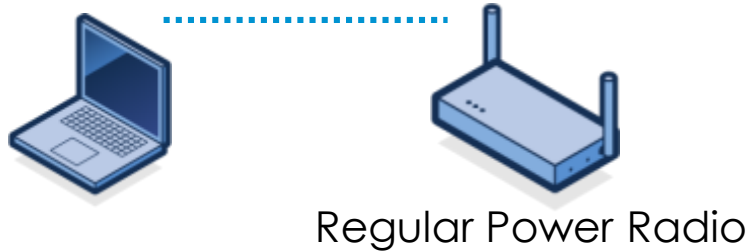
Coverage vs CAPACITY



Devices

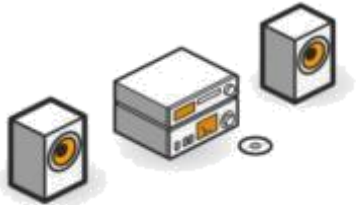
They're not all created equal





Audio Analogy

10W amp outputting 10W



Amplifier set to 10 = DISTORTION

100W amp outputting 10W



Amplifier set to 1 = MUSIC

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By 2020, it is predicted that 24 Billion devices will be connected to the Internet. The vast majority will use some form of wireless for access

- GIGACOM

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TROUBLE AHEAD...



- ❖ While all computer systems are **inherently insecure**, IoT is particularly troublesome
 - custom or no OS
 - limited best practices
 - no standardization

"The industry is massively in need of help, they have no idea what the risks are"



80%

of all BYOD access is inadequately managed.

OR NOT MANAGED AT ALL.

"To secure things on the Internet, we **need to know what things we have** as a first step,"



Advanced Persistent Threats (APTs)

"This will lead to very physical threats, around national infrastructure, ...exploit possessions (for example, cars and logon accounts, and email users, searching for new data and ideas over an extended period of months), power, water and food supply, etc."

Network Level Control

No agents

Critical Infrastructure - power production/generation/distribution, manufacturing, transportation, etc.

Personal "infrastructure" - personal medical devices, automobiles, home entertainment and device control, retail



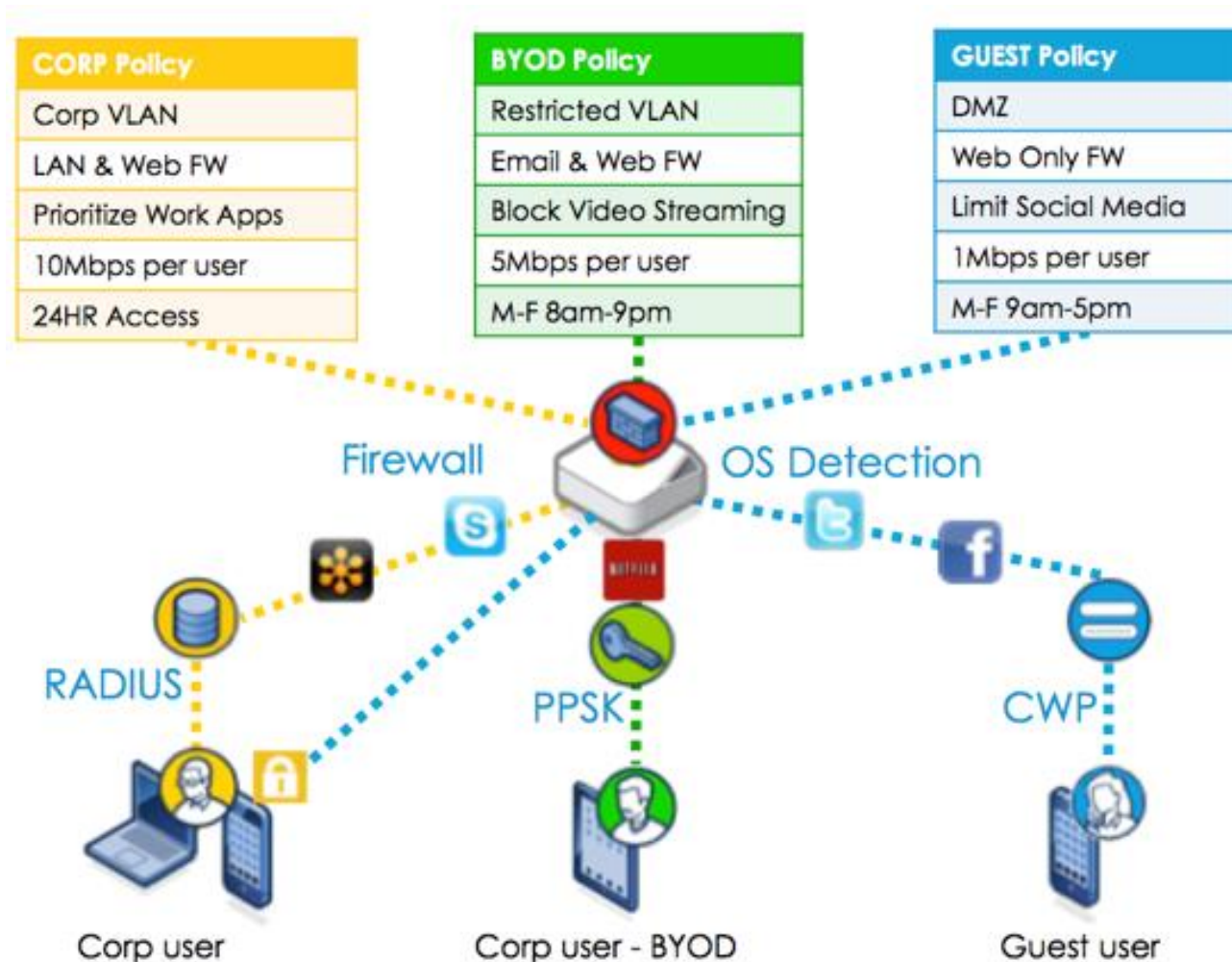
Security Concerns

How to trust what is connecting?

- ❖ Intercede says that, whilst protecting sensitive data will continue to be of the utmost importance, the rise in connected devices raises a new security concern - namely **how to trust the identity of these devices.**
- ❖ Because of this, enterprises and other organizations must **shake themselves out of the mind-set that that online security is simply about protecting data.**
- ❖ With the rise of the IoT organizations must also ensure that they can **protect and verify the identity of every device that connects to their environments.**

Security

Role-Based Access



Heuristics and Anomaly Detection

Show and react to the unexpected



Mobility Changes Everything



ARE YOU READY?



Why is this man smiling?

A Film by Errol Morris

THE UNKNOWN KNOWN

BRADIS TVC, HISTORY FILMS and PARTICIPANT MEDIA PRESENT IN ASSOCIATION WITH SKY ATLANTIC, A MOORE PICTURES PRODUCTION, AN ERROL MORRIS FILM "THE UNKNOWN KNOWN" WITH DANNY ALTMAN, YOUNG TED ONALDIKAS & JEFFREY LAMMAN. DIRECTOR OF PHOTOGRAPHY: ROBERT CHAPPELL. EXECUTIVE PRODUCERS: SEVEN HATHAWAY. PRODUCED BY: ANN PETERSON. WRITTEN BY: JAMES HANCOCK. CASTING BY: JULIAN PHILLIPS, MURIEL THOMPSON, JESSIE WELLS. EDITOR: UVAE WEISBERG. MUSIC BY: TOM OLEVIN, JUSTIN JUNGCO, JOSH BARKIN, CELIA WILDER, ANOUSHAH, JULIA SHEPHERD. EXECUTIVE PRODUCERS: ROBERT FEINBERG & MARANDA BRANSON. CAST: MARIO LOMBA, MURRIS.

What you didn't know you didn't know.

Thank 
YOU

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