

Security and Privacy

Components that should be assured:

- Secure loading (cryptographically generated signatures)
- Access control (remote access required to get into a function)
- Denial Authentication (used on shared authentication in all prior to sending data)
- Fine grained and time when going to control traffic that is destined to terminate at the device
- Updates and patches (software up to date and security patches to obtain the highest level of security feature)

Threats

- Security and Privacy
 - *Hackers and (event) Terrorists
 - objects become active participants
 - objects with control
- Control by Giants
 - *Multinational firms

Confidence in and acceptance of IoT will depend on the protection it provides to people's privacy

"Privacy is dead - get over it" Steven Rambam

Agenda

- Intro to IoT
- Definition
- Next cycle
- How to make something IoT
- Benefits
- Threats
- Companies already in IoT
- Dashboard and KPI's
- Final thoughts

Living in a smart world



How does an object becomes part of IoT?



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Dashboard



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Benefits

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\$1.9 trillion in the year 2020

- Connect even more with things
- Preventive, condition-based maintenance.
- Cost decline in sensor and storing data processing;
- Operate machines more efficiently.
- Play with things in a new level.



Online Portals: Searching and Shaping Opportunities

Security and Privacy

- Components that should be assessed:
- Secure booting (cryptographically generated signatures)
 - Access control (minimal access required to perform operations)
 - Device Authentication (device should authenticate itself prior to receiving data)
 - Fire walling and IPS (both going to control traffic that is destined to terminate at the device)
 - Updates and patches (software updates and security patches to eliminate the possibility of security failures)

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Information Technology

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Definition

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Palo Alto, Silicon Valley, USA



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THE NEXT CYCLE



Technology Cycles Have Tended to Last Ten Years

Mainframe
Computing
1960s

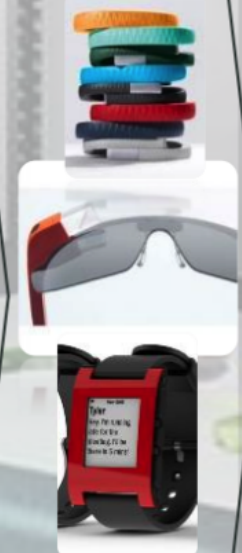
Mini
Computing
1970s

Personal
Computing
1980s

Desktop Internet
Computing
1990s

Mobile Internet
Computing
2000s

Wearable /
Everywhere
Computing
2014+



Others?

KPCB

FOURTH INDUSTRIAL REVOLUTION



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1

Steam engine

2

Mass production

3

Internet technology

4

Internet of Things

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Vehicle, asset, & monitoring



M2M & wireless sensors

g Opportunities



Vehicle, asset, person & pet monitoring & controlling



Agriculture automation



Energy consumption



Security & surveillance



Building management



Embedded Mobile

Internet of things

Everyday things get connected  for smarter tomorrow



M2M & wireless sensor network



Everyday things



Smart homes & cities



Telemedicine & healthcare

