

Security and Privacy

- Components that should be assessed:
- Secure booting (cryptographically generated signatures)
 - Access control (network access required to perform a function)
 - Device Authentication (device should authenticate itself prior to receiving data)
 - Firmware and IPM (when going to market, firmware should be distributed to servers of the device)
 - Updates and patches (software updates and security patches to reduce the possibility of security failure)

Threats

- Security and Privacy
 - Hackers and (even) Terrorists
 - objects become active participants objects with control
- Control by Giants
 - Multi-national 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



How does an object becomes part of IoT?

Thecasesolutions.com

Dashboard



Thecasesolutions.com

Benefits

Thecasesolutions.com
\$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.

Thecasesolutions.com

The Internet of Things (IoT): Shaping the Future of e-Commerce

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 requesting data)
 - Fire walling and IDS (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)

Threats

- Security and Privacy
 - Hackers and (even) Terrorists.
 - objects become active participants
 - objects with control
- Control by Giants
 - Multi-national 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

Dashboard



Agenda

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

Information Technology

Thecasesolutions.com

How does an object becomes part of IoT?



Thecasesolutions.com

Living in a smart world



Benefits

Thecasesolutions.com
\$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.



Thecasesolutions.com

Thecasesolutions.com

The Internet of Things (IoT): Shaping the Future of e-Commerce



Information Technology

Agenda

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

Thecasesolutions.com

Definition

Thecasesolutions.com



Thecasesolutions.com

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



Thecasesolutions.com

1

Steam engine

2

Mass production

3

Internet technology

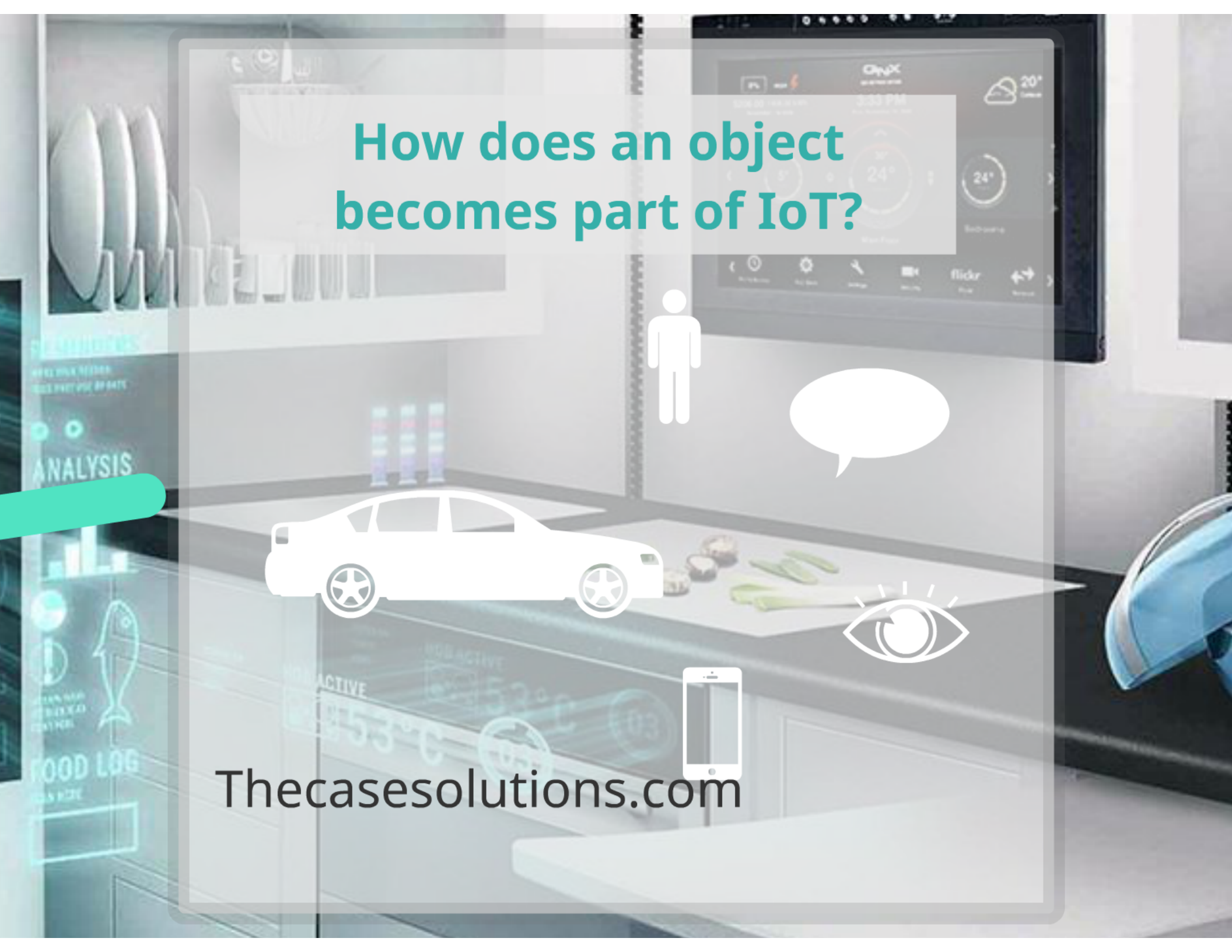
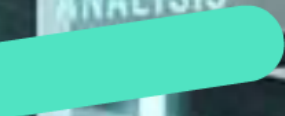
4

Internet of Things

How does an object becomes part of IoT?



Thecasesolutions.com



Benefits

Thecasesolutions.com
\$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.



cost decline in sensor and storing data processing.

- Operate machines more efficiently.
- Play with things in a new level.



Thecasesolutions.com