IoT Week Bilbao 2018
4-7 JUNE 2018, BILBAO (SPAIN)
EUSKALDUNA CONFERENCE CENTRE

IoT Security challenges in vertical sectors: Smart Cities

Cybersecurity for a connected world – Why is important

despite the strong offer of IoT products and solutions

specific standards or regulations still under development and

only accredited bodies have the knowledge

and experience to support the market by proposing
certification framework based on meta-schemes...

Cybersecurity for a connected world – The scenario

modern Buildings promise **comfort** and **safety** by using

IoT connected devices and domotic systems…

but **are IoT systems secure** 🤔
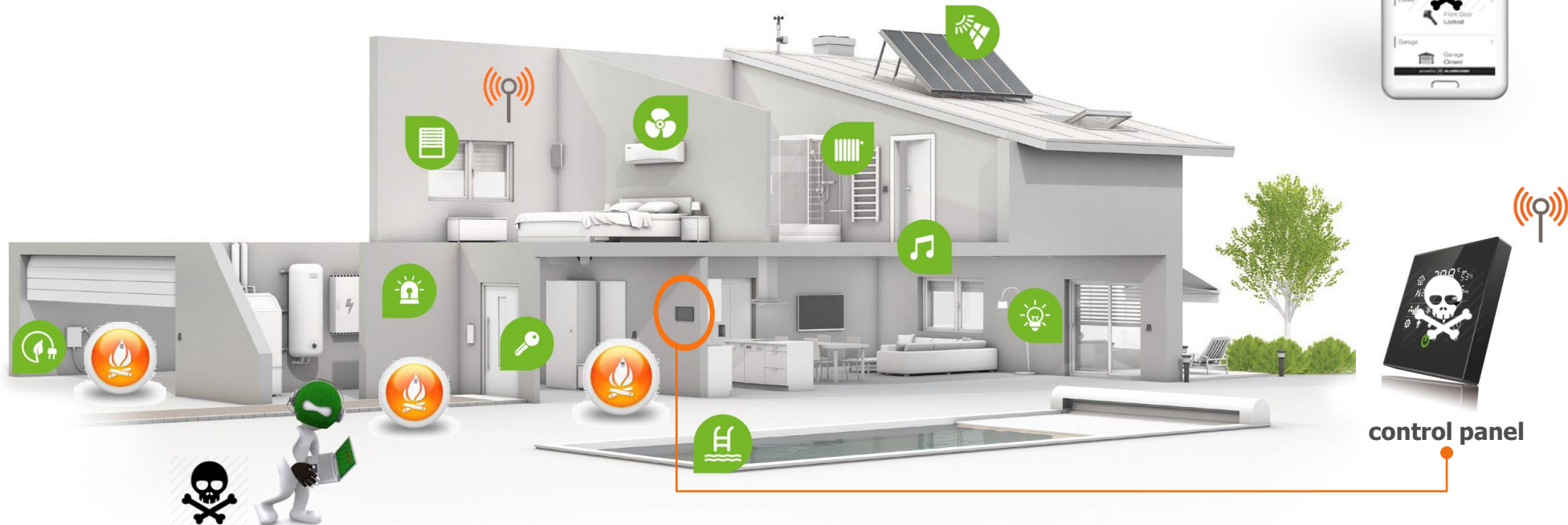
definitely NO, cybersecurity threats could lead to serious incidents…

and shocking consequences for the safety 😧

control panel

Cybersecurity for a connected world – The answer

what you should do to secure your domotic systems is identify the
vulnerabilities by performing security audits
and penetration testings

control panel

...cybersecurity threats could be addressed to
drastically reduce the risks of incidents and improve your safety!

Cybersecurity for a connected world – How to do it

Security auditing

- **Penetration testing** and **vulnerability analysis**, including:
  - White box/Black box evaluations, including **source code reviews**.
  - **Logical** (software) **and physical** (hardware) **attacks**, including all the available **communication networks**, **both wired and wireless**.
  - Both standalone products and integrated product suites, ranging several products.
  - Internal development tools review and auditing.

- **Prototype reviewing** and feedback
  - A robust design will be more resilient
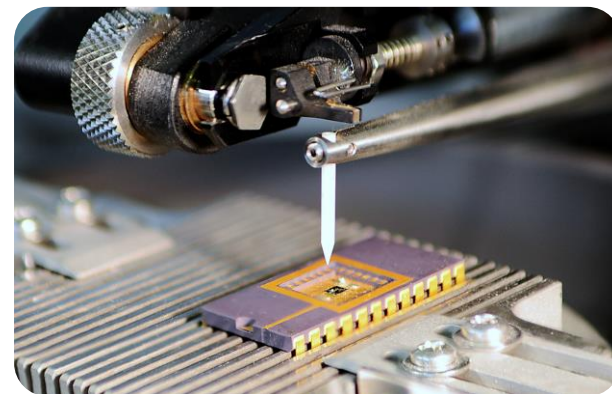
Cybersecurity for a connected world – The IoT Lab

Our proposal

The Applus+ **IoT Lab** will allow manufacturers and developers to **verify the reliability and security of their IoT solutions** and provide end users with a quality guarantee by means of the **IoT Certified** mark.

Wireless Technology Selection Management

Radio Integration Guidance

Functional & Security Testing

Apps & Data Management Interface

Reliability Check — Climatic Environment · Ad-Hoc Testing · Critical Scenarios · Corners Operations

Conformance Test

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Cybersecurity for a connected world – The IoT Lab

IoT Certified Mark (labeling)

- Within the IoT Lab, the technology evaluators will propose a testing program adapted to each project's requirements to ensure the **regulatory compliance and IoT Functional testing** of the different products and devices of the IoT solution.

- After completing the testing program, manufacturers will be able to access the **IoT Certified voluntary certification mark**, which provides end-clients technical guarantees as to the quality of the IoT solution.

- Based on internally defined meta-schemes, **Cybersecurity labeling** will be product-oriented in order to grant the costs of the certification is suitable for different customer profiles.

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IoT Security challenges in vertical sectors

thanks…