

# **ARGE CONFERENCE 2018 ROTTERDAM**



## **WORKSHOP # 4**

**“THE APPLICATION OF STANDARDS COVERING SMART HOMES,  
CONNECTED DEVICES AND ELMECH TECHNOLOGIES”**

## **UPDATE AND NEXT STEPS**

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# Smart homes and IoT growth

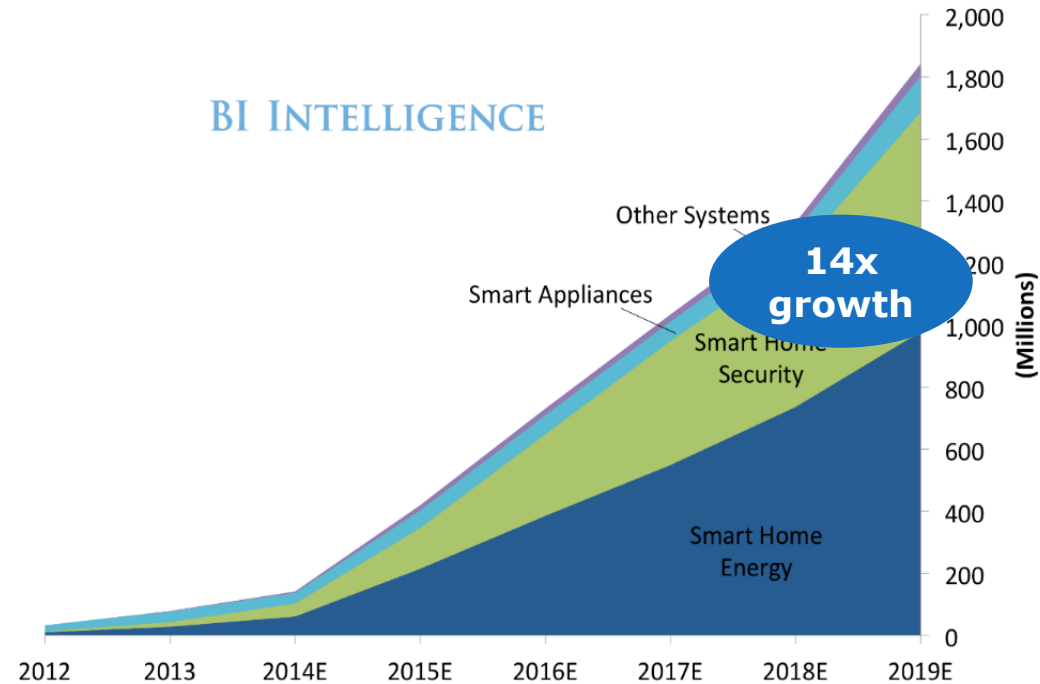
**Reminder**



**Global Connected-Home Device Shipments**

*By Device Category*

BI INTELLIGENCE



*Source: ABI Research, TechNavio, Pike Research, BI Intelligence Estimates*

Smart homes now a reality – did we really believe that in 2014!

## Hardware manufacturers could be side-lined...

Technology  
and marketing  
co's lead

Market driven  
by data  
content and  
software

Hardware  
manufacturers  
lose influence

Hardware  
manufs.  
relegated to  
component  
supplier



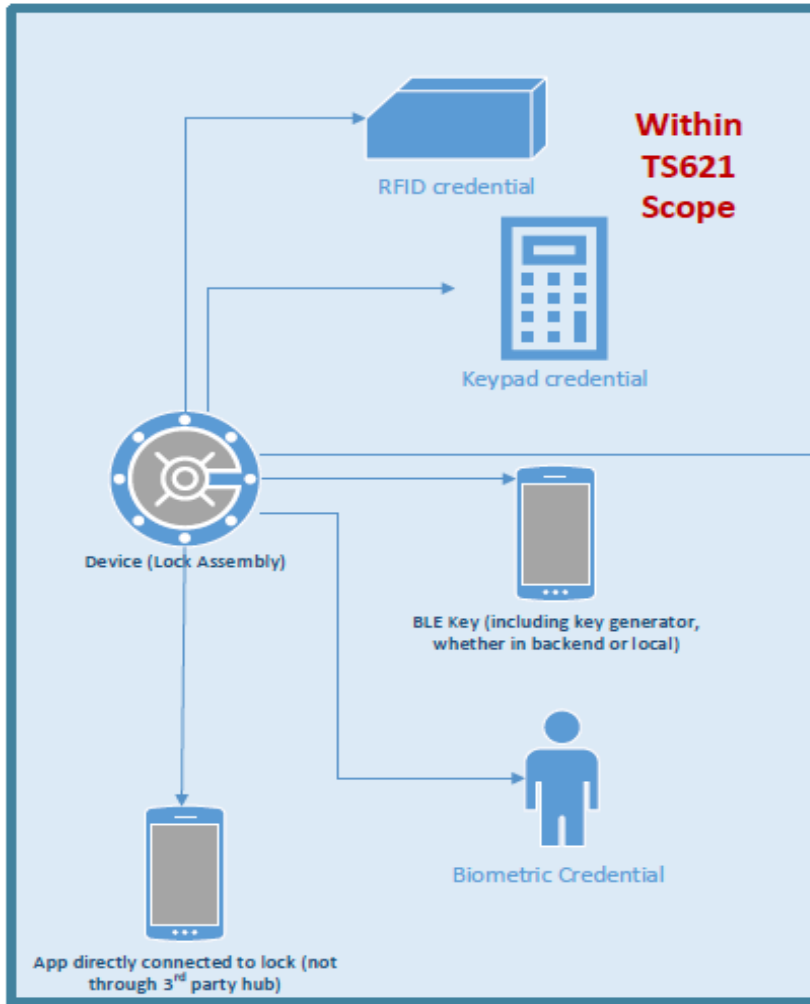
The stakes  
are high

## Scope of smart lock standard

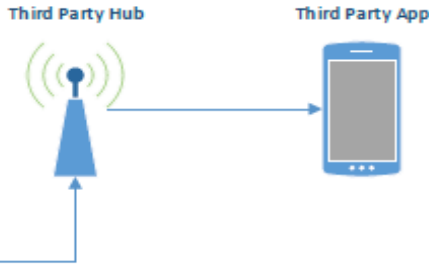
- We need to consider the following system elements:
  - Mechanical performance
  - Electrical performance (wired)
  - Data performance
  - Data communication performance, wired, wireless or cloud transfer
  - Installation, deployment
- These elements treated in isolation currently
- We will create a system standard – embracing all key components



# What the standard covers



Area of focus



# We now have a standard



*“Thief Resistant Electronic Door Locking Devices”*

## Scope of smart lock standard

**Reminder**

- The Technical Specification covers:
  - Electronic escutcheons
  - Electronic multipoint locks
  - Electronic single point locks
  - Electronic cylinders
  
- Referenced standards:
  - EN 1303 – cylinders
  - EN 12209 – mechanical locks
  - EN 14846 – elmech locks
  - PAS 3621 (EN15685) – multipoint locks
  - prEN 16867 – mechatronic door furniture
  - EN 15684 – mechatronic cylinders
  - prSSF 1075 – digital keys for locks
  - ETSI TS 103 425 – smart home wireless networks

**Door locks**

**Embraces current standards**

# Our strategy



**Reminder**

National standards bodies

Pass/fail



**cen** EN 1303

**cen** EN 12209

**cen** EN 14846

**cen** EN 15685

**cen** EN 15684

**cen** EN 16867

**bsi.** PAS 24

**ETSI** TS 103 425

**SSF** prSSF 1075  
Stödskyddsforeningen

Product standards

Graded



# BSI IoT Division

## Enhanced

- Residential or commercial products for high value/high risk applications

## Commercial

- Products used in commercial environment

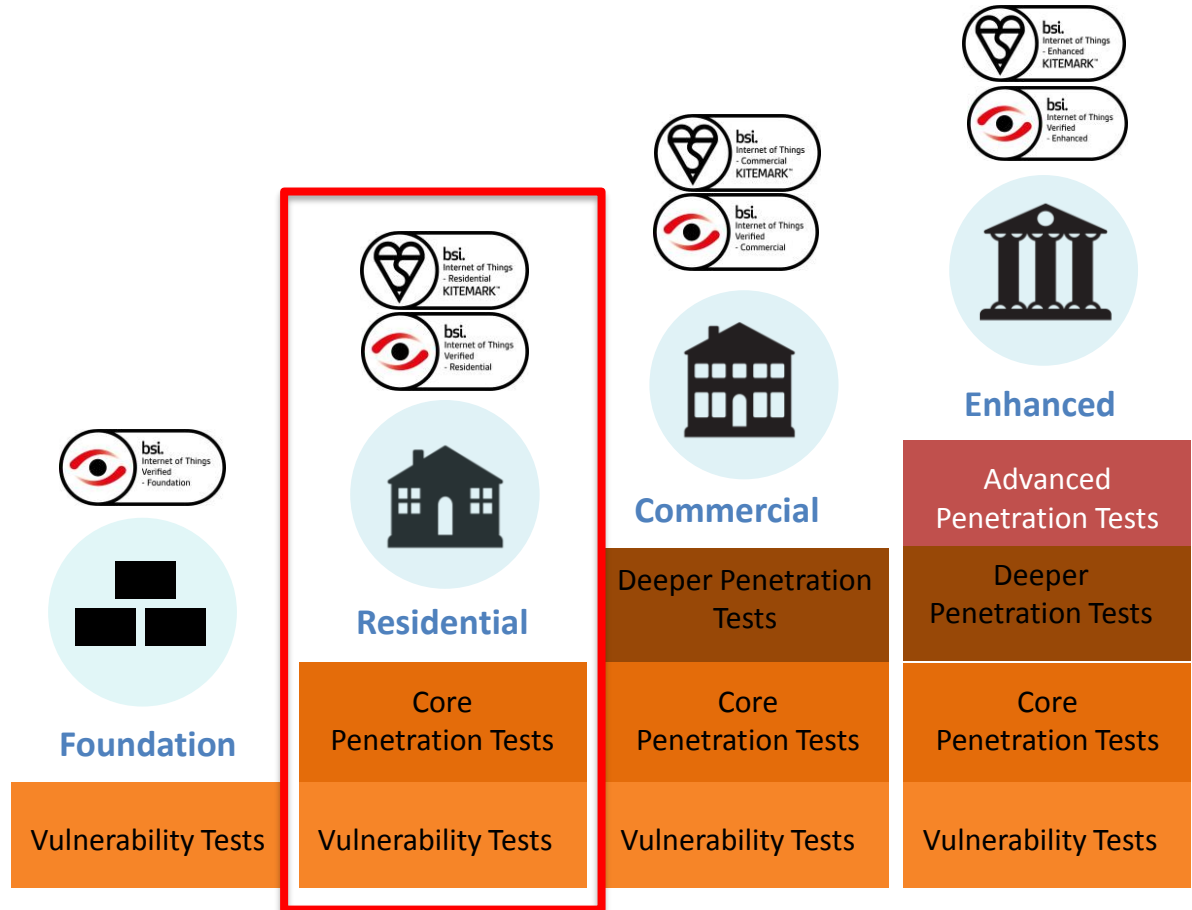
## Residential

- Products used in residential environment

## Foundation\*

- Basic vulnerabilities

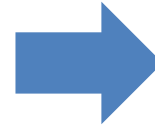
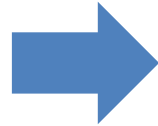
\* Verification & testing only



## BSI IoT Assurance: Risk Levels

# UK smart lock strategy

bsi.

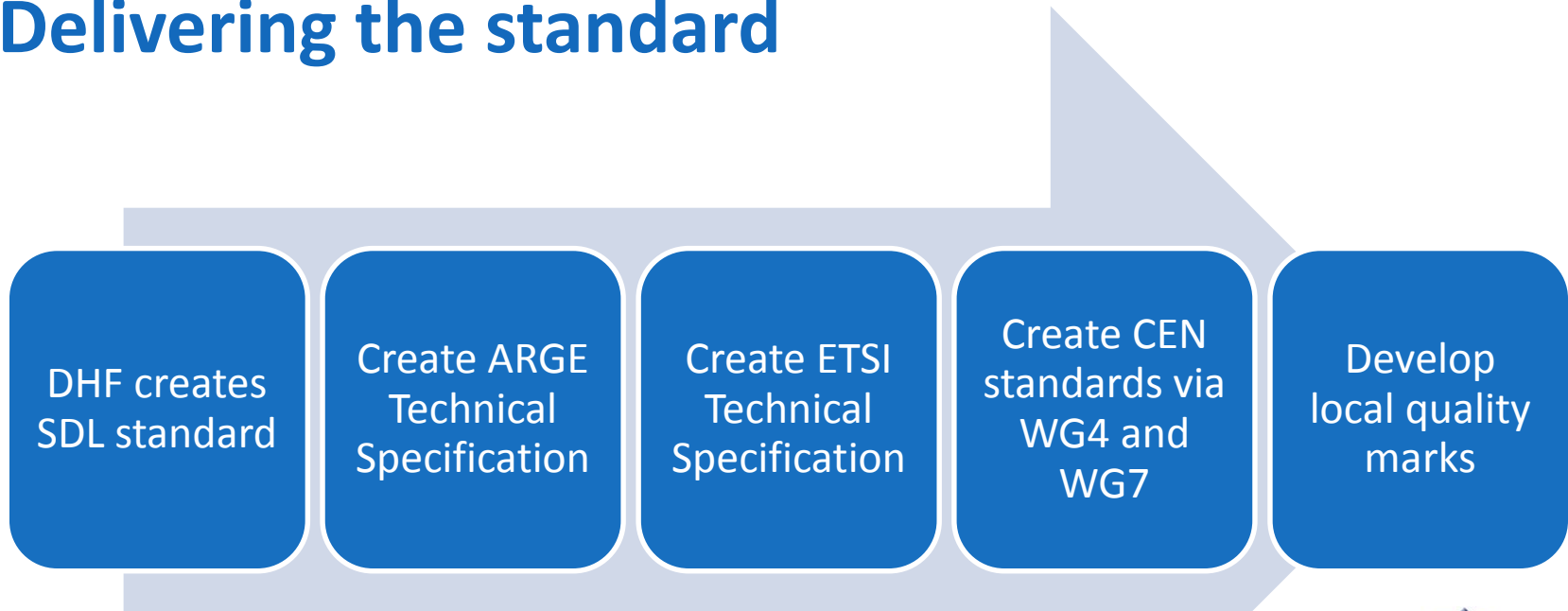


Launch  
October  
2018



**Reminder**

# Delivering the standard



**ARGE Technical Specification:**

***“Connectivity Security Assessment for Electronic Door Locking Credentials”***

