#### Enabling Industry 4.0 and Digital Transformation by bridging IoT Security gaps



#### **Presented by:**





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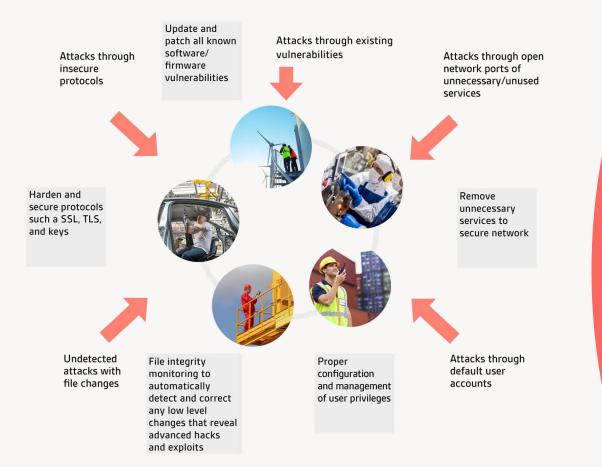


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### The cybersecurity challenge for Industry 4.0



Common IoT Security exposures and the solutions recommend to resolve

IoT has already made its way into many aspects of the way people live and work today and it's only set to grow, with experts **predicting as many as 75 billion by 2025**. As the number of connected devices continue to grow, so too will the volume and **variety of vulnerabilities** many of which have existed for years, lying dormant, and are only now being discovered.

Vulnerabilities in IoT devices are becoming more wide-ranging, and with **greater potential impact** if exploited. Securing IoT isn't easy for manufacturers to get right, but security should be viewed as an **enabler of the IoT's growth**, rather than a barrier, and baked in from the start.

IoT is not restricted to consumer devices. The rise in automation in the **manufacturing/engineering sectors** has seen the advent of the **Industrial Internet of Things (IIoT),** which itself has led to something of a shift in mindset as the technology brings the operational world and the **IT world closer together**.

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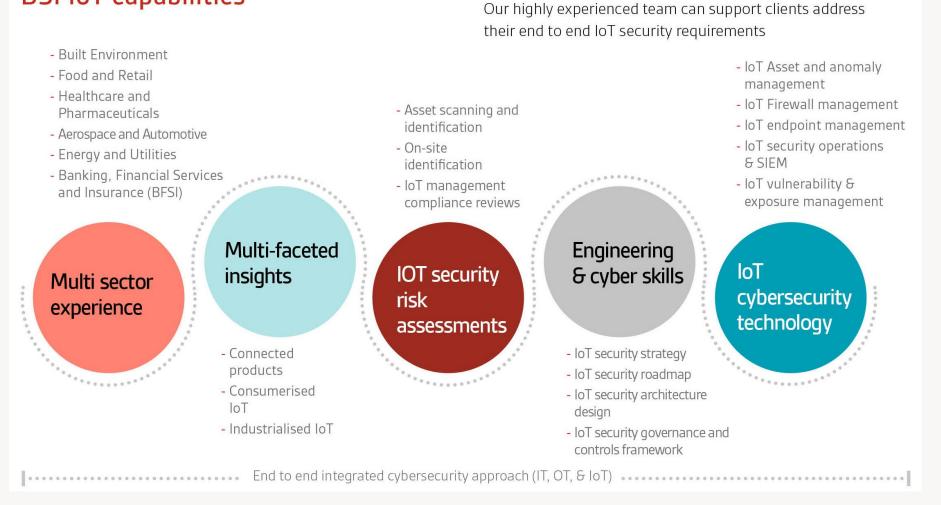
# Why society and industry needs to address Industry 4.0 Cybersecurity risks?

- Static credential and lack of encrypted communications are resulting in a mass insecurity impacting consumers and enterprise alike
- Many of the IoT devices have issues with outdated firmware of weak default passwords which make them perpetually vulnerable and easy to compromise
- The value of IoT is in the data and data needs to be protected. A failure to ensure that the data is secured can result in the risks illustrated as they apply to key sectors.



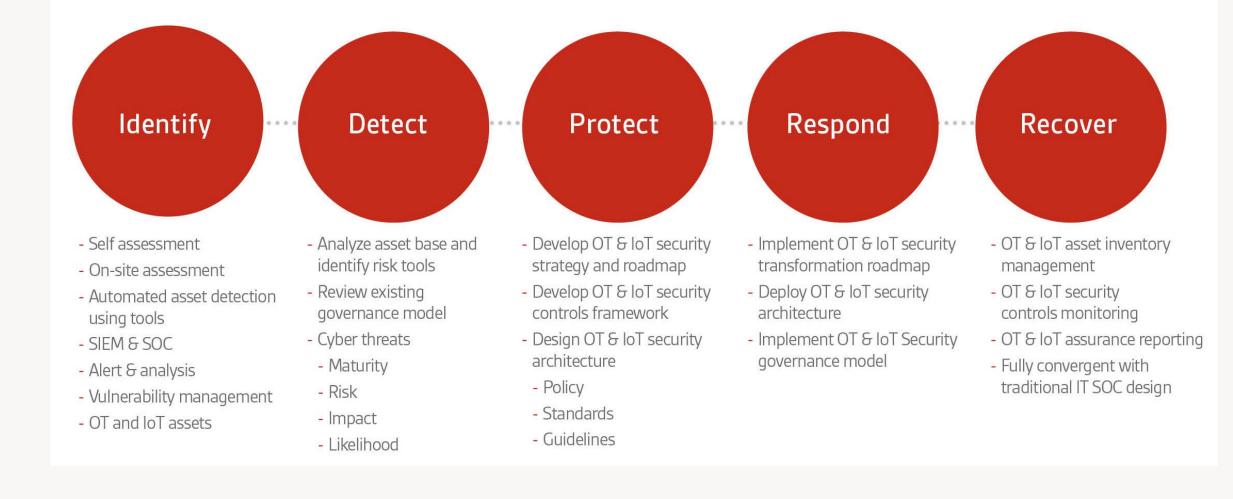
## How can BSI help?

#### **BSI IoT capabilities**



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## A multiphased approach to OT and IoT cybersecurity



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  - How long can you continue to ignore cybersecurity risk?



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