

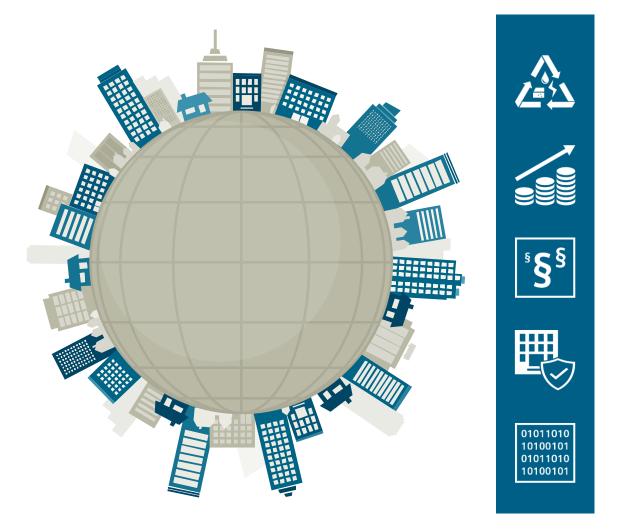
Smart Buildings The Implications for the Security Industry

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Theses factors are currently influencing building owners/operators worldwide

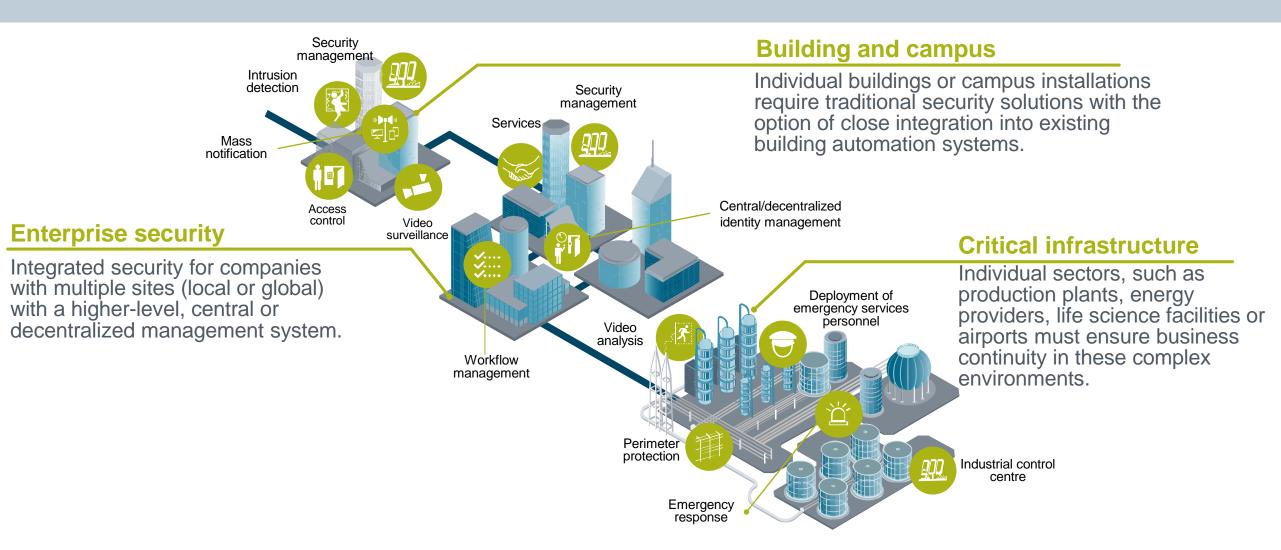
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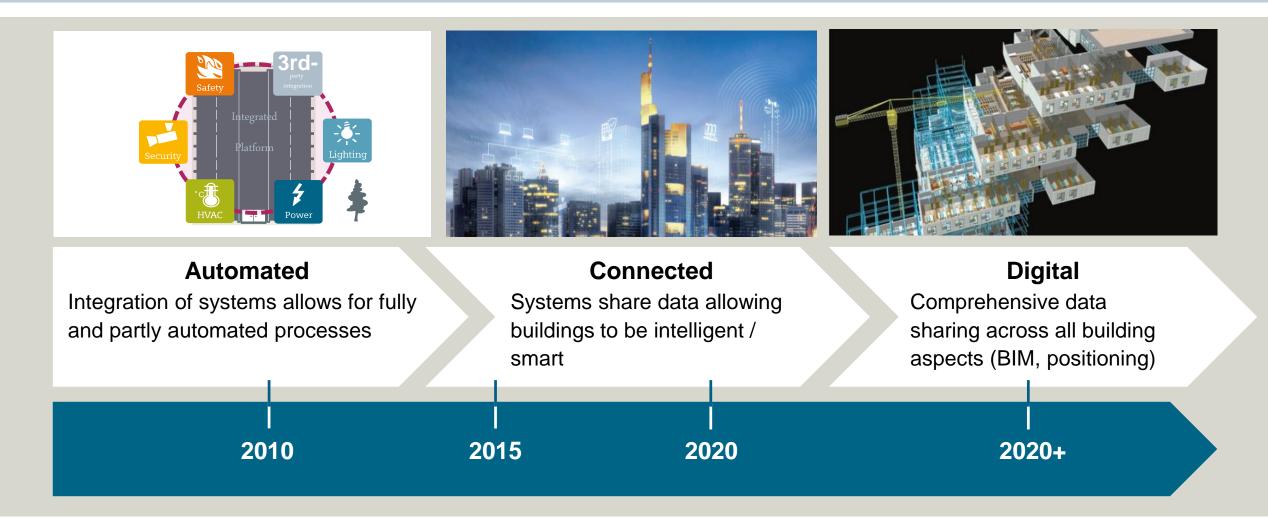
- **Security**: Dealing with increases in internal and external criminal activities, but also the threat of terrorism
- Cyber Security: Counter measures to avoid unauthorised access to data and targeted activities utilising software weaknesses
- **Conformity**: Adherence to international (ISO) and European (EN) norms addressing for example ICT security, business continuity and building safety.
- **Digitalization**: Broad use of mobile internet and increasing deployment of cloud based services.
- **Cost**: Continuous efforts to optimise OPEX and CAPEX in a rapid changing environment



Different building operators have different security needs



From the automated building to the fully digital building in three stages



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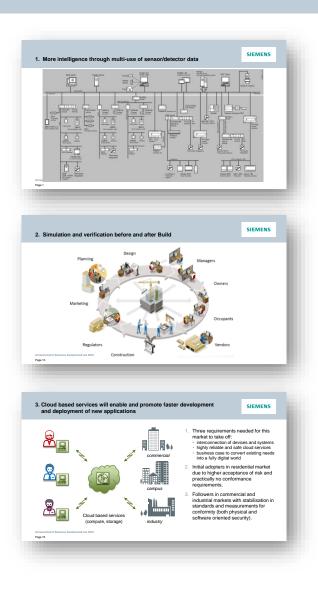
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Three examples for implications for security industry in smart buildings

Multi-use of sensor/detector data
→ Internet of Things / Industry 4.0

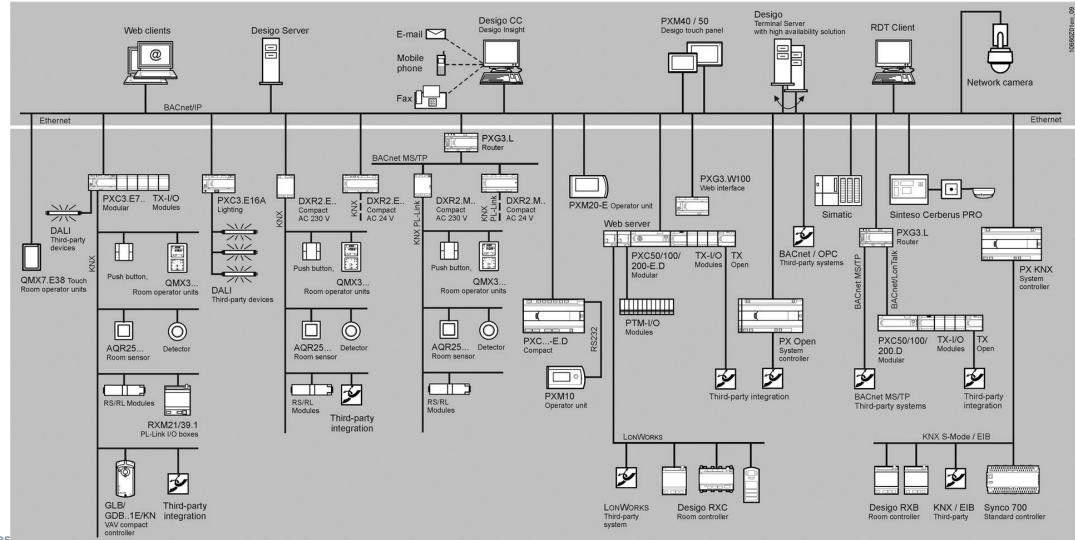
Simulation and verification
→ Building Information Modelling

Fast deployment of new applications
→ Cloud based services





1. More intelligence through multi-use of sensor/detector data



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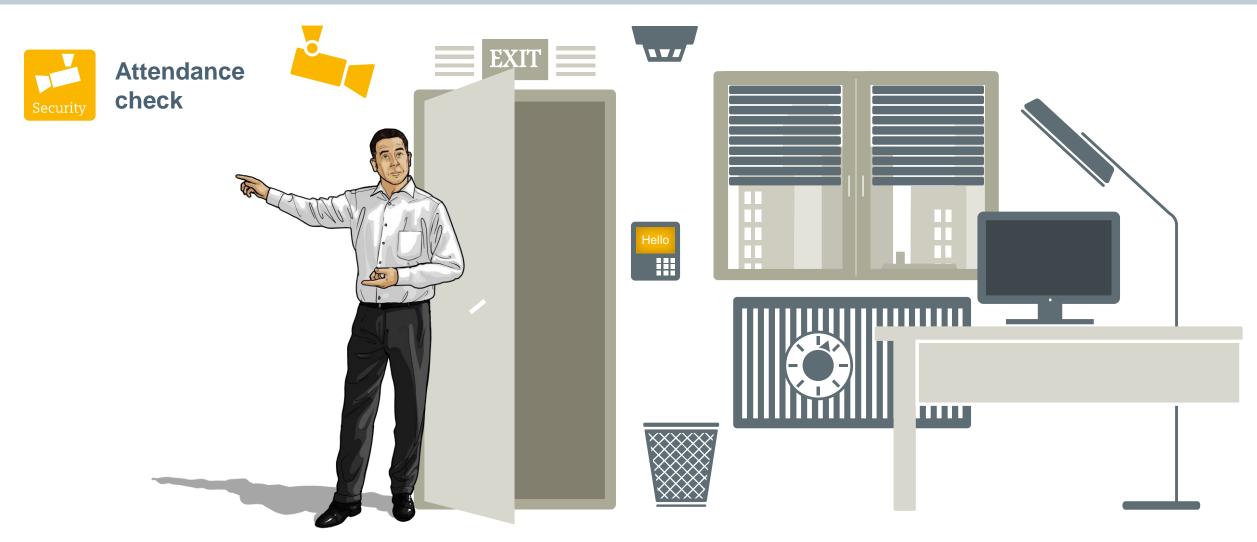


Integrated and automated Office infrastructure



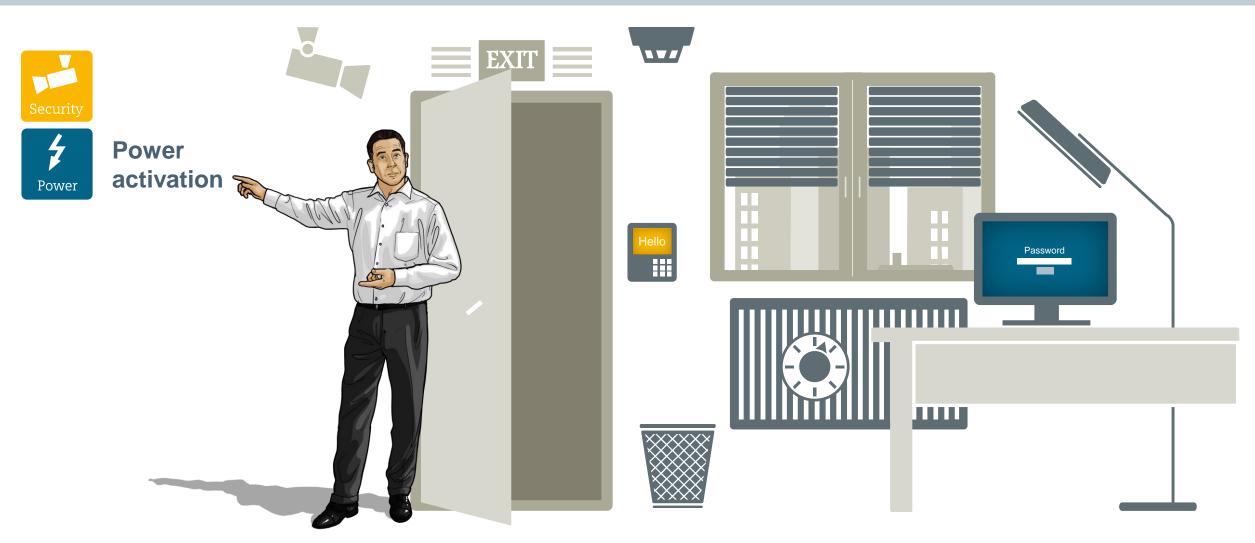


Integrated and automated Office infrastructure

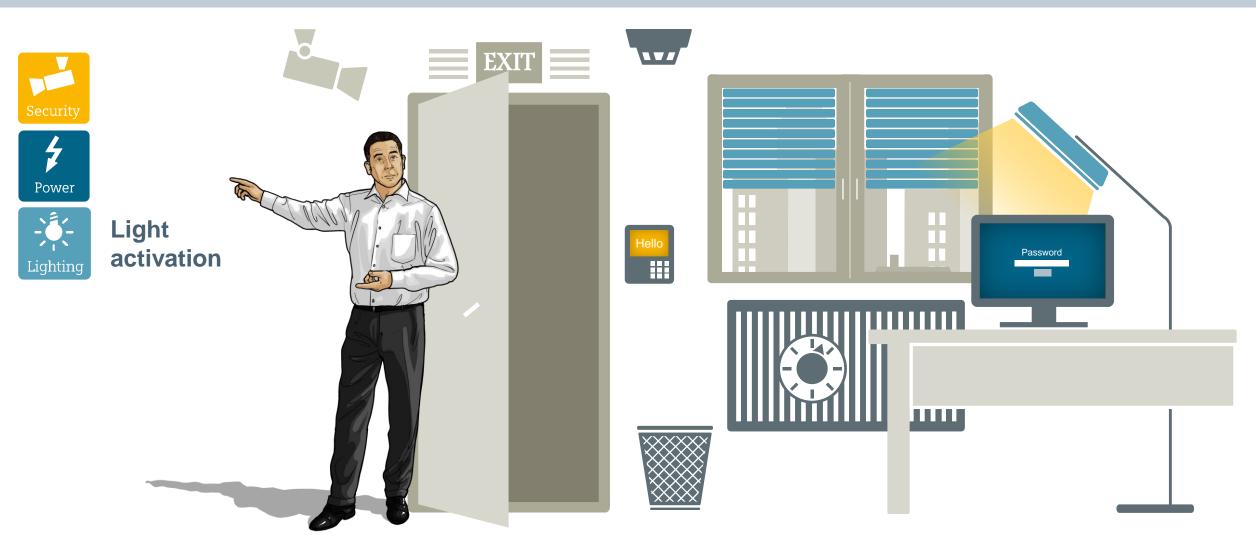




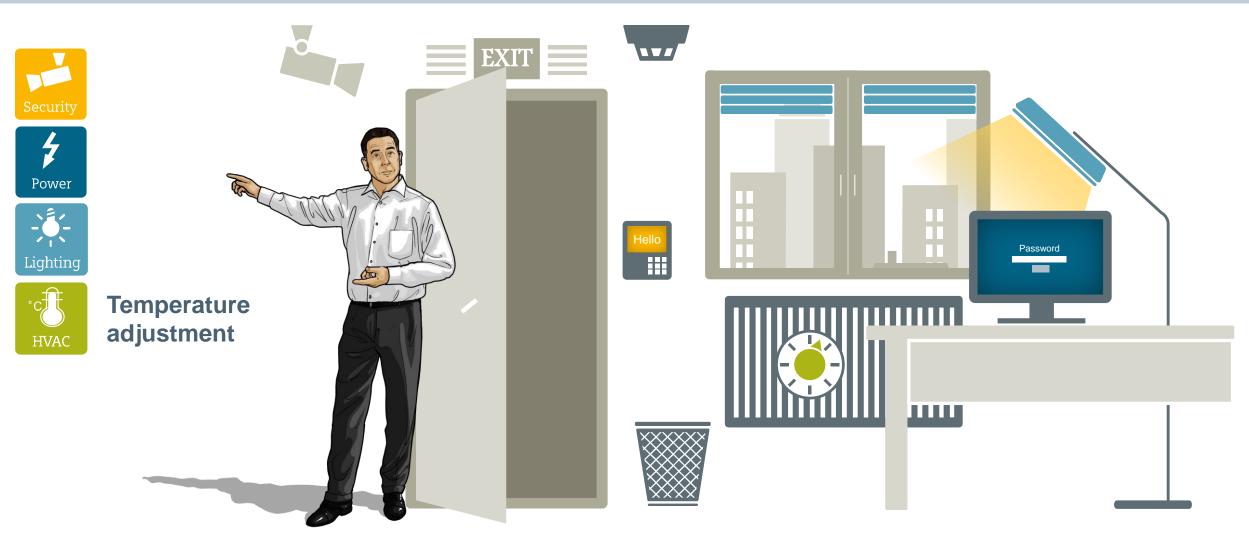
Integrated and automated Office infrastructure



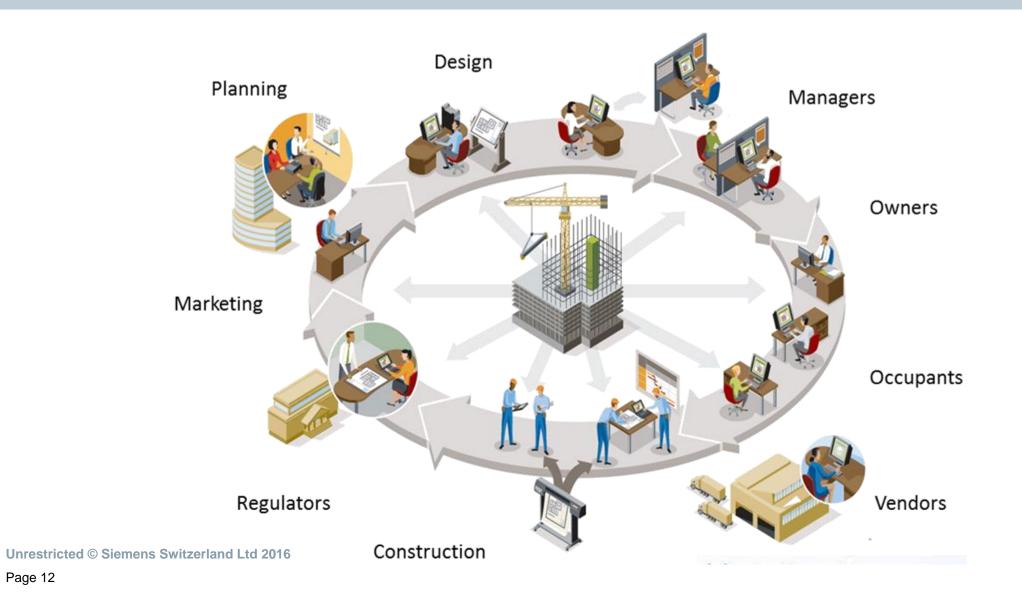
Integrated and automated Office infrastructure



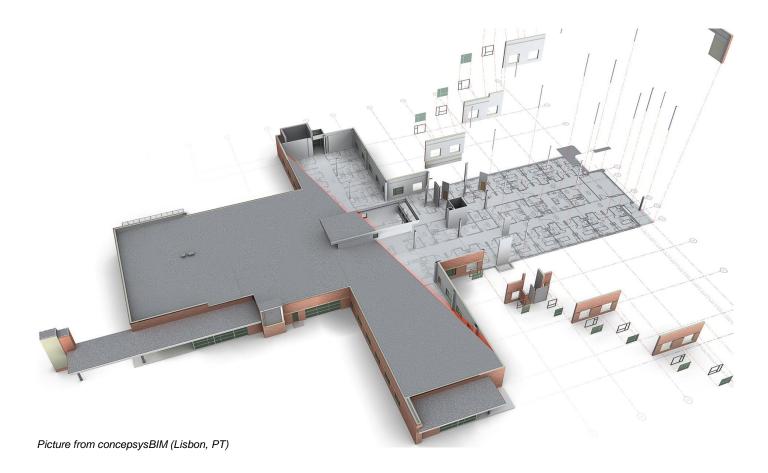
Integrated and automated Office infrastructure



2. Simulation and verification before and after Build



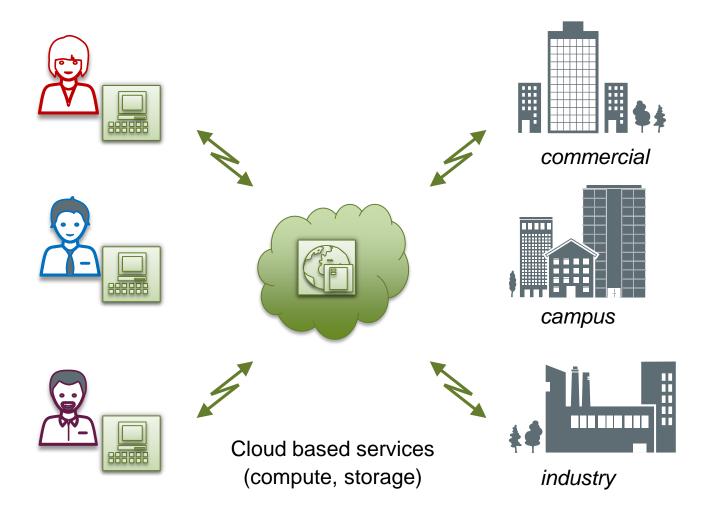
Concept review within Building Information Modelling



- 1. Aligning passive and active measures based on the initial risk assessment results.
- 2. Camera placement considering operational criteria such as possible obstacles and minimal lighting.
- 3. Simulation of access control and egress paths dependent on the operation in the building (day, night, weekends)
- 4. Testing adaptations and retrofits prior to making physical and technical changes.

3. Cloud based services will enable and promote faster development and deployment of new applications

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- 1. Three requirements needed for this market to take off:
 - interconnection of devices and systems
 - highly reliable and safe cloud services
 - business case to convert existing needs into a fully digital world
- 2. Initial adopters in residential market due to higher acceptance of risk and practically no conformance requirements.
- 3. Followers in commercial and industrial markets with stabilisation in standards and measurements for conformity (both physical and software oriented security).



Thank you for your attention!

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