

Smart City Management based on IoT

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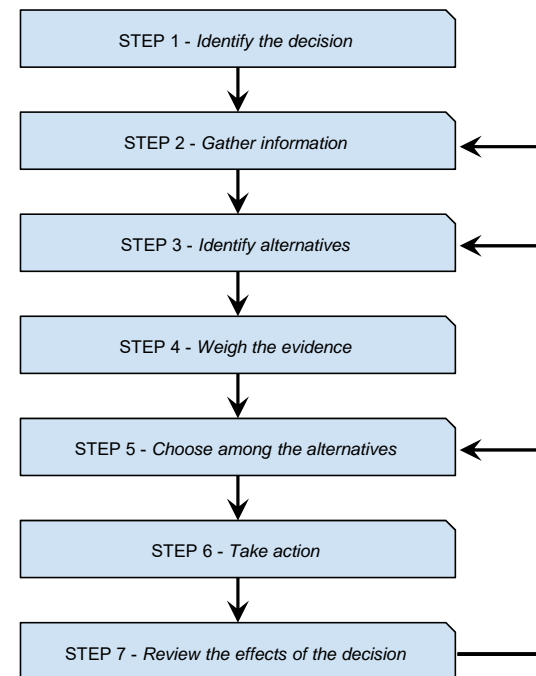
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Introduction and context

- The new approach of city development could be defined as a smart and brained approach and the concept is called *smart city*.
- This new concept needs more technological support to cover all components of the smart city model: smart people, smart mobility, smart economy, smart living, smart governance and smart environment.
- The speed of societal modifications and economical dynamic request proper management tools for a shorter and better decision making process.
- The innovation is the main key element of a smart city.

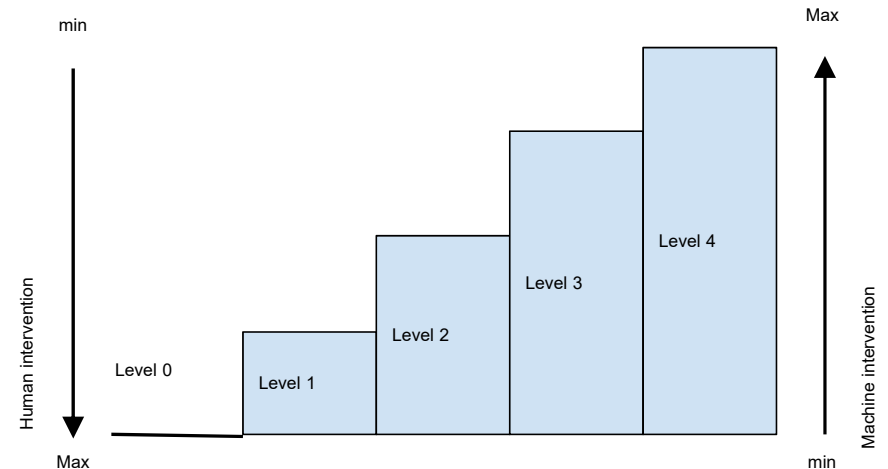
Decision Making Process in Smart City

- The most important process of city management, as well as of the management, is decision making process.
- This process is important because is the main influencer of other management processes (i.e. control and monitoring).

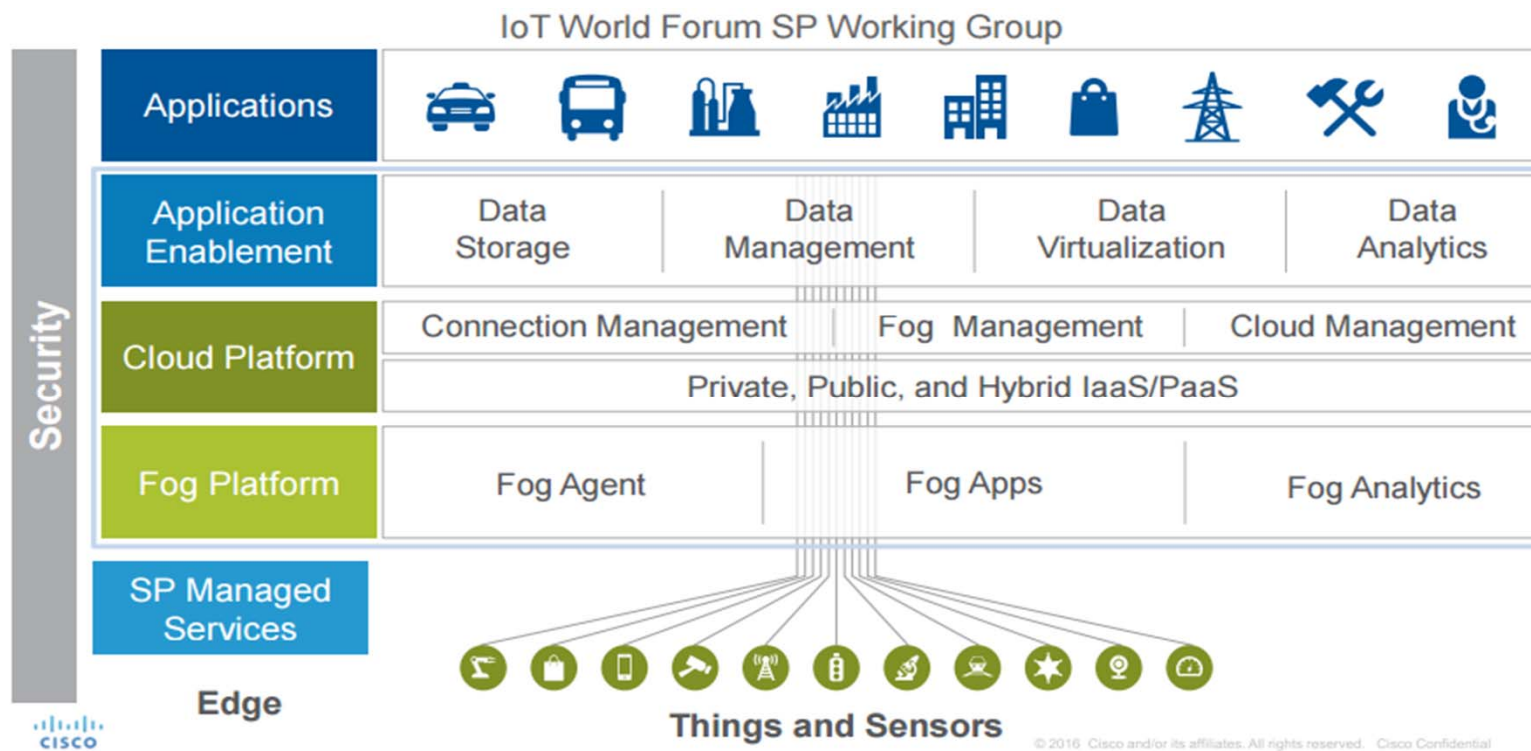


Human Machine Interaction

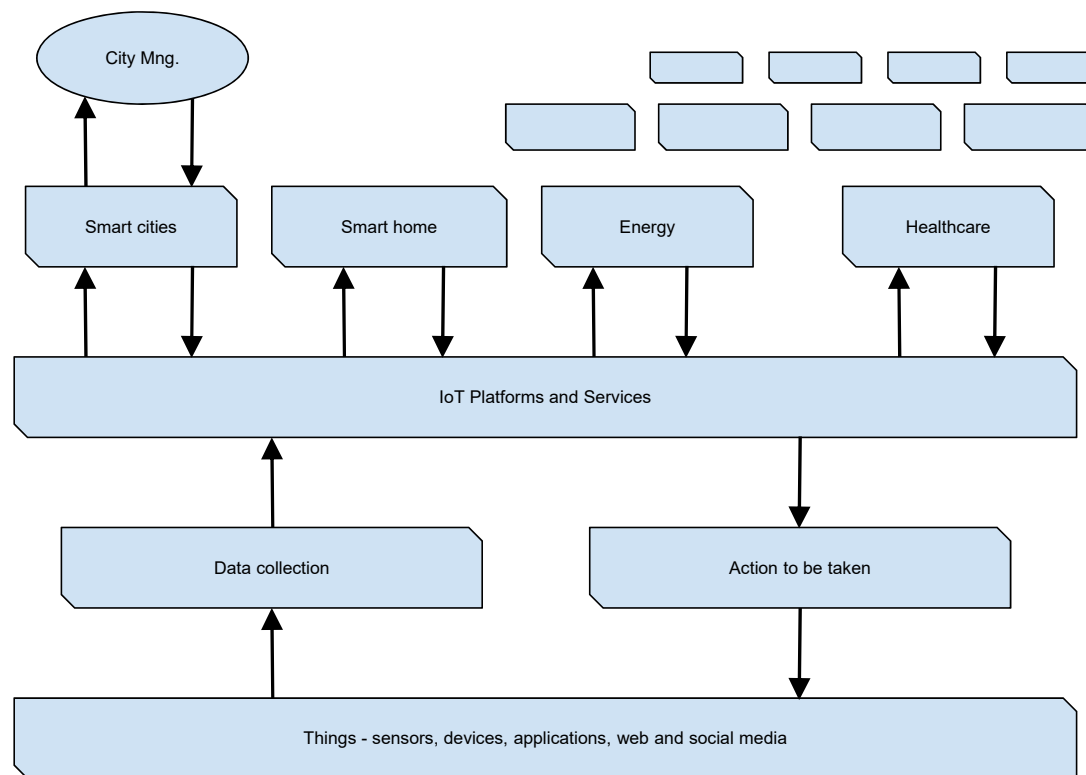
- Level 0 – no involvement of ICT
- Level 1 – the decision maker is using ICT tools
- Level 2 – the decision maker is assisted by ICT
- Level 3 – the decision is made by support system and the manager validates the decision;
- Level 4 – the decision is under the responsibility of support



IoT and the Architecture



IoT and the Architecture



Conclusions

- The smart city concept is based on a mixture of various components
- The IoT is a support system which are not be able to replace the subsystems of the city.
- The IoT infrastructure is able to provide services for many applications not only for city governance and the main challenge is to design a multi-purposes support system in terms of providing services for many other applications.
- The urban things have to be classified into two groups: hard things (vehicles, buildings, houses etc.) and soft things (software, applications, social media etc.) in terms of using all available resources in urban area.

Thank you for your attention!

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- “Technology is nothing. What's important is that you have a faith in people, that they're basically good and smart, and if you give them tools, they'll do wonderful things with them.”

Steve Jobs