

# **Smart cities**

#### Understanding the gaps and adapting accordingly





#### **Technologies to simplify life**

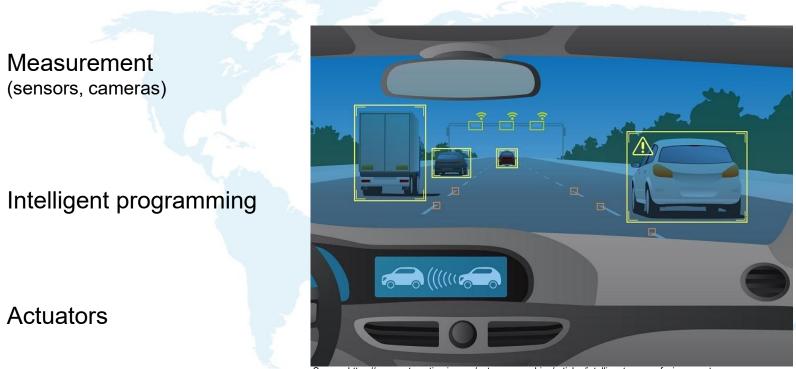




## Everything is "smart" but, what makes it that?

**Automation** 

Automation is increasingly incorporated, practically everywhere



Source: https://www.automotive-iq.com/autonomous-drive/articles/intelligent-sensor-fusion-smart-cars



#### Public services (not limited)

- <u>Electricity</u>
- <u>Education</u>, [e.g. state (public) schools, public universities, etc...]
- <u>Emergency services</u>, (e.g. Fire, EMS, Law Enforcement, Search and Rescue, etc...)
- <u>Environmental protection</u>
- Health care
- Public buildings
- <u>Telecommunications</u>
- <u>Transportation infrastructure</u>
- <u>Waste management</u>, (e.g. solid waste, recycling, etc...)
- Water management



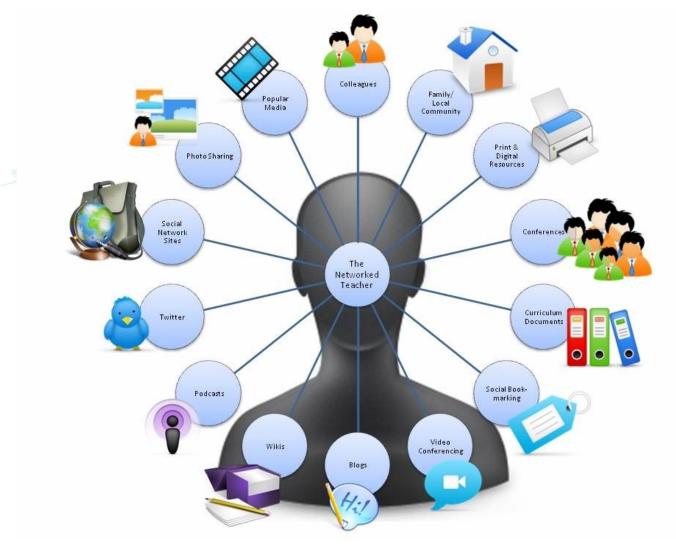
# **Smart Grid**



http://www.eu-about.eu/index.php/en/expertise/energy-subcat/189-smart-grid-deployment-can-help-achieving-eu-climate-goals



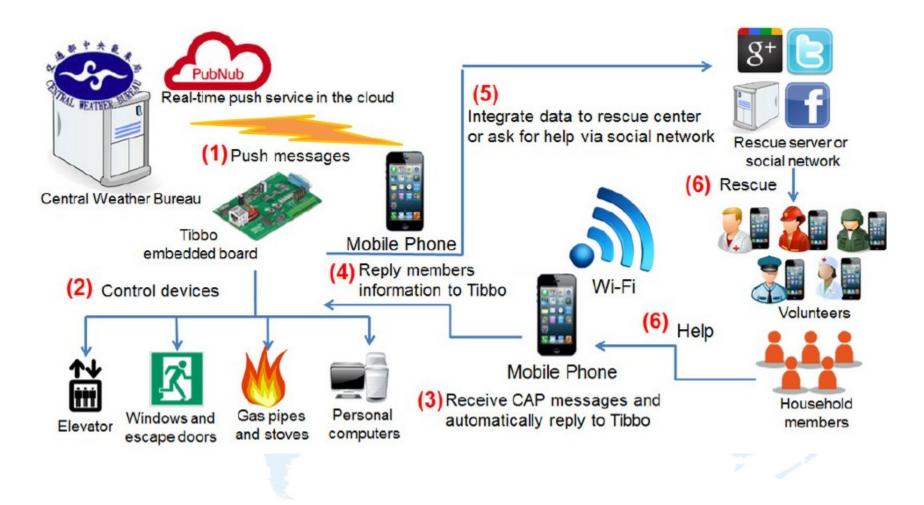
## "Smart Teaching"



https://palomacli.wordpress.com/useful-tools-in-developingimproving-oral-skills-listening-and-speaking-with-the-help-of-ict/

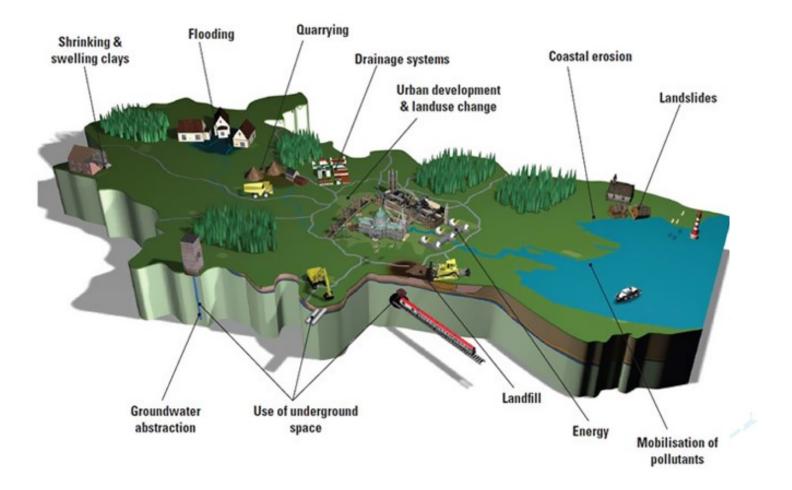


#### **Smart emergency response**



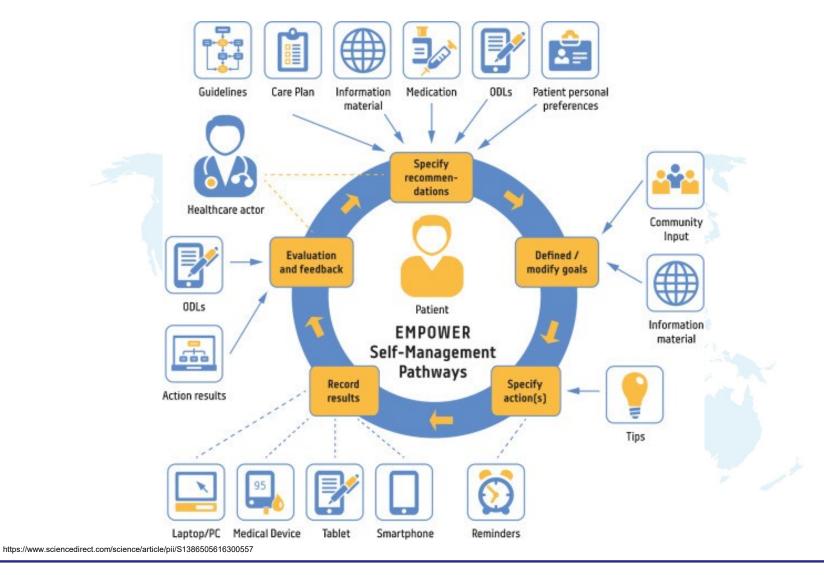


#### "Smart environment"



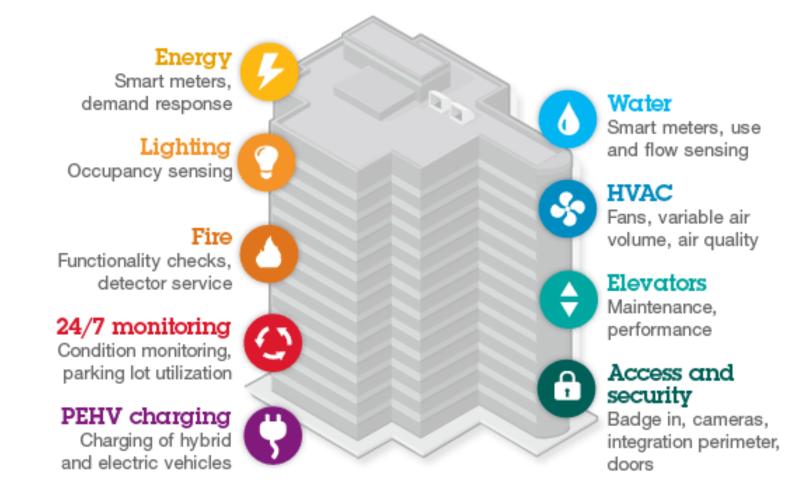


## "Smart Health"



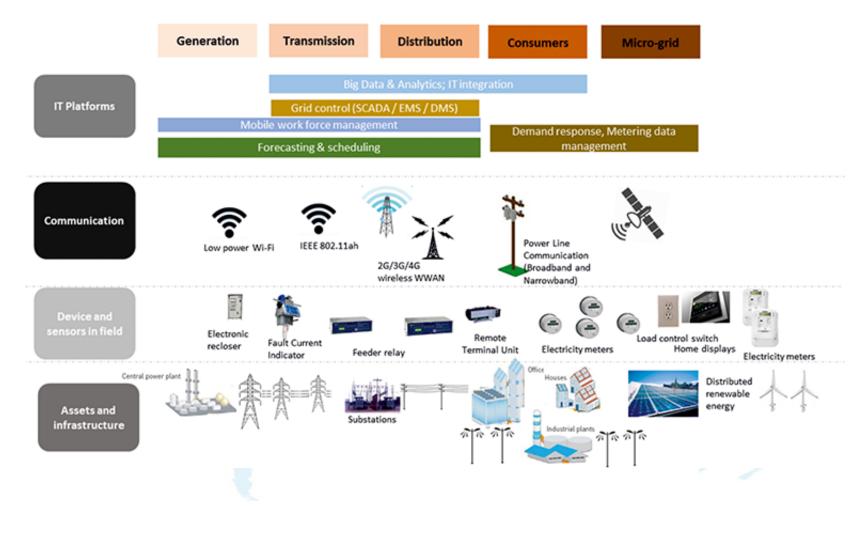


# **Smart Buildings**





## "Smart telecommunication"



https://www.intechopen.com/books/smart-cities-technologies/the-role-of-communication-technologies-in-building-future-smart-cities



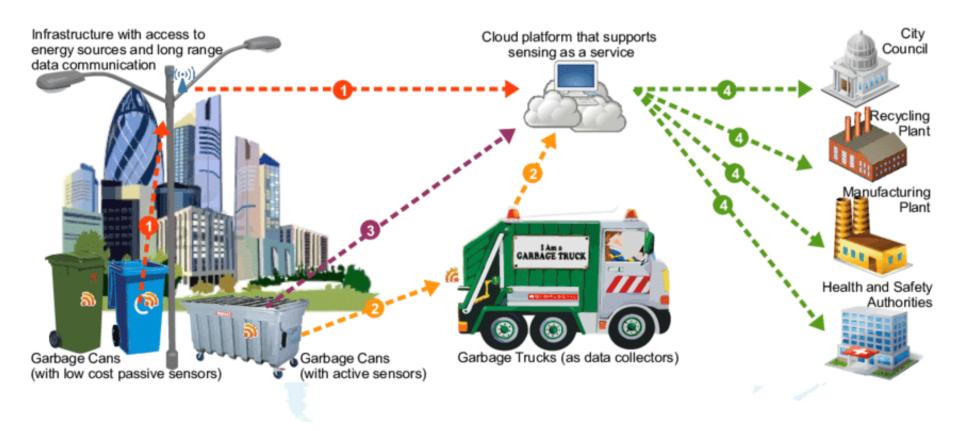
#### **Smart transportation**



https://www.esa.int/spaceinimages/Images/2017/09/People\_mobility



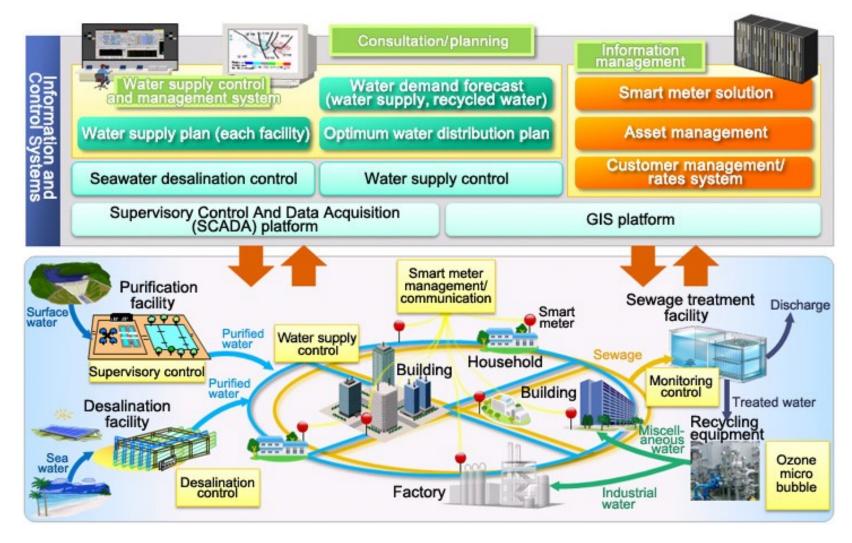
#### **Smart waste management**



https://www.researchgate.net/figure/Efficient-waste-management-in-Smart-Cities\_fig2\_315492466



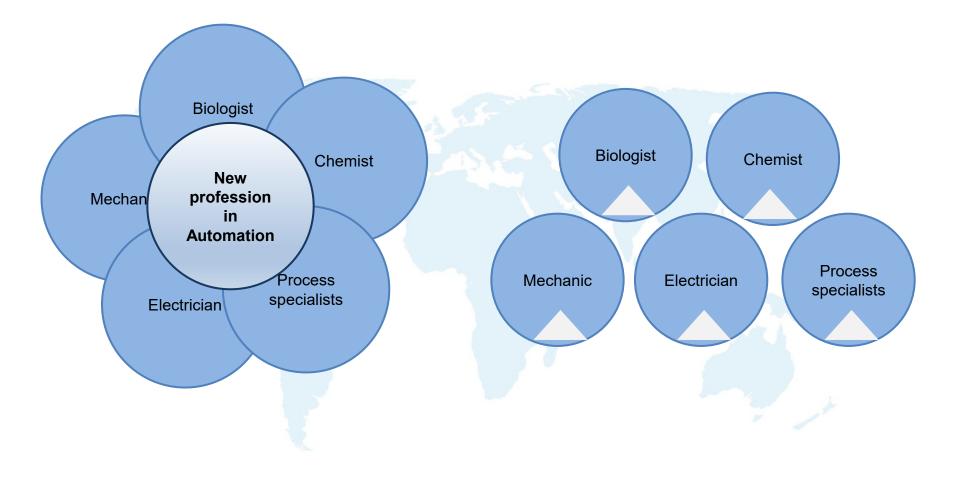
### **Smart water management**



http://www.hitachi.com/businesses/infrastructure/product\_site/water\_environment/intelligent\_water/index.html



#### **Professions involved in water management**





# Thank you for your time and attention!