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ENERGY EFFICIENCY: A KEY DRIVER FOR CLEAN ENERGY TRANSITION

MUSCAT - OMAN

28-29 OCTOBER 2018

***Saving energy in the smart way. How
new technologies can help!***

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► Digital transformation in the sector of general interest

- Definition of a smart city:

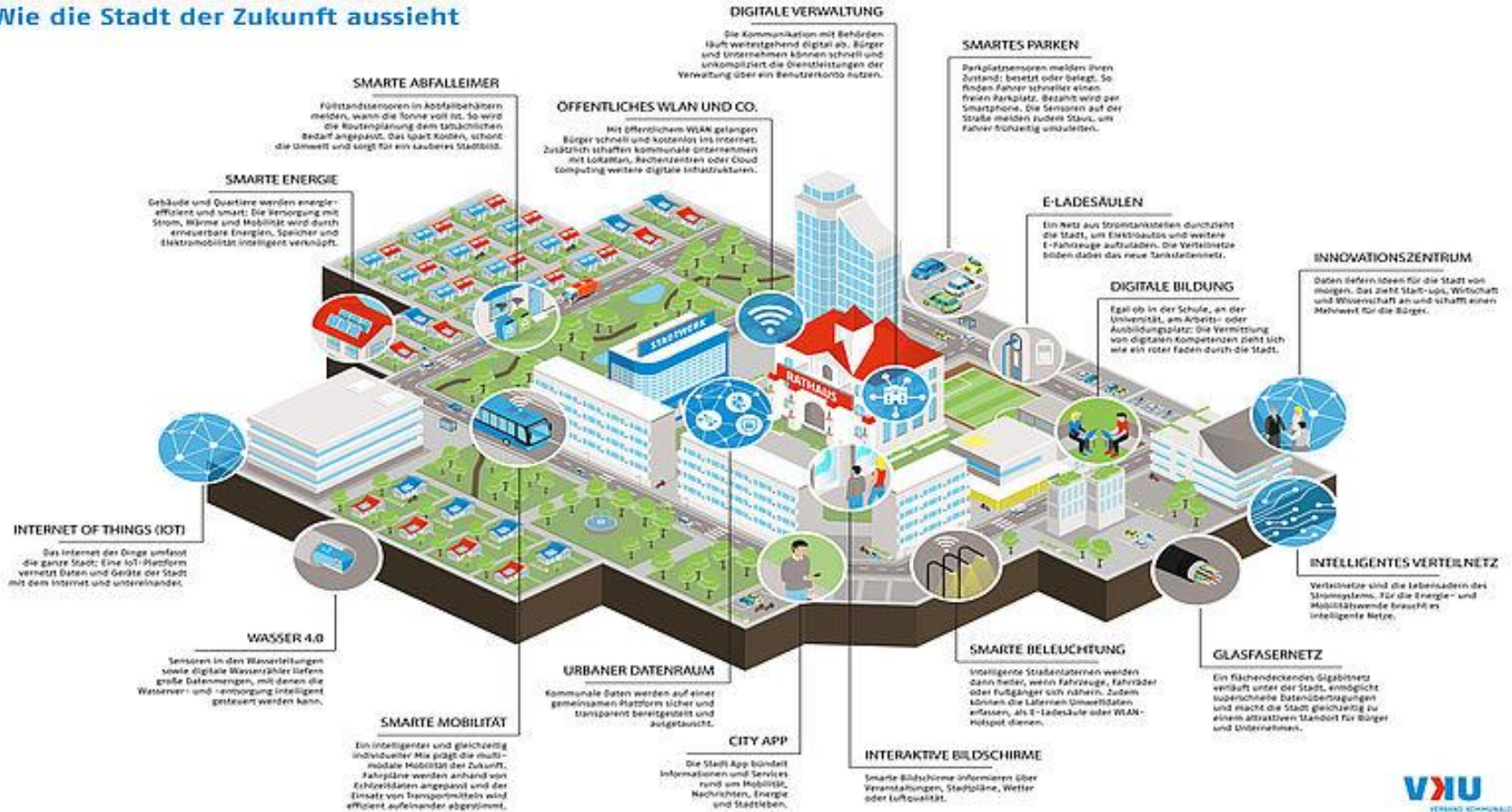
„A Smart City is a city seeking to address public issues via ICT-based solutions on the basis of a multi-stakeholder, municipally based partnership.“ (Mapping Smart Cities in the EU, Study EU-Commission)

- Definition of a smart grid:

“Smart Grid describes the integration and interaction of various electricity generators and users with the goal of maximum cost-effectiveness, sustainability and safety.“

► The City of tomorrow?

DIE VERNETZTE KOMMUNE – Wie die Stadt der Zukunft aussieht





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► Smart Cities, what does it need?

- Smart Grids as on time control of the production and distribution of electricity
- Consumer is a big part of any energy efficiency scheme. Smart Metering as enable of new business models
- Energy production: Prosumer and usage of energy for example in sewage systems or waste-to-energy.
- Solution: local grid operator have to reengineer their infrastructure



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► **Smart Cities, what is the benefit**

- Better sensor technology enables the consumer, grid operator and the companies to find inefficiency
- Connected thinking and working helps saving energy
- Integration of different technologies is easier with a smart grid (e-mobility, electric heat pumps)
- Dont think in „silo structures“



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► What to do?

- Think local
 - Building energy management system
 - Neighbourhood energy management system
 - Smart Grids can help to significantly reduce the conversion loss and save real money for industry companies.



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