SMARTCITY

Održivi razvoj urbanih sredina

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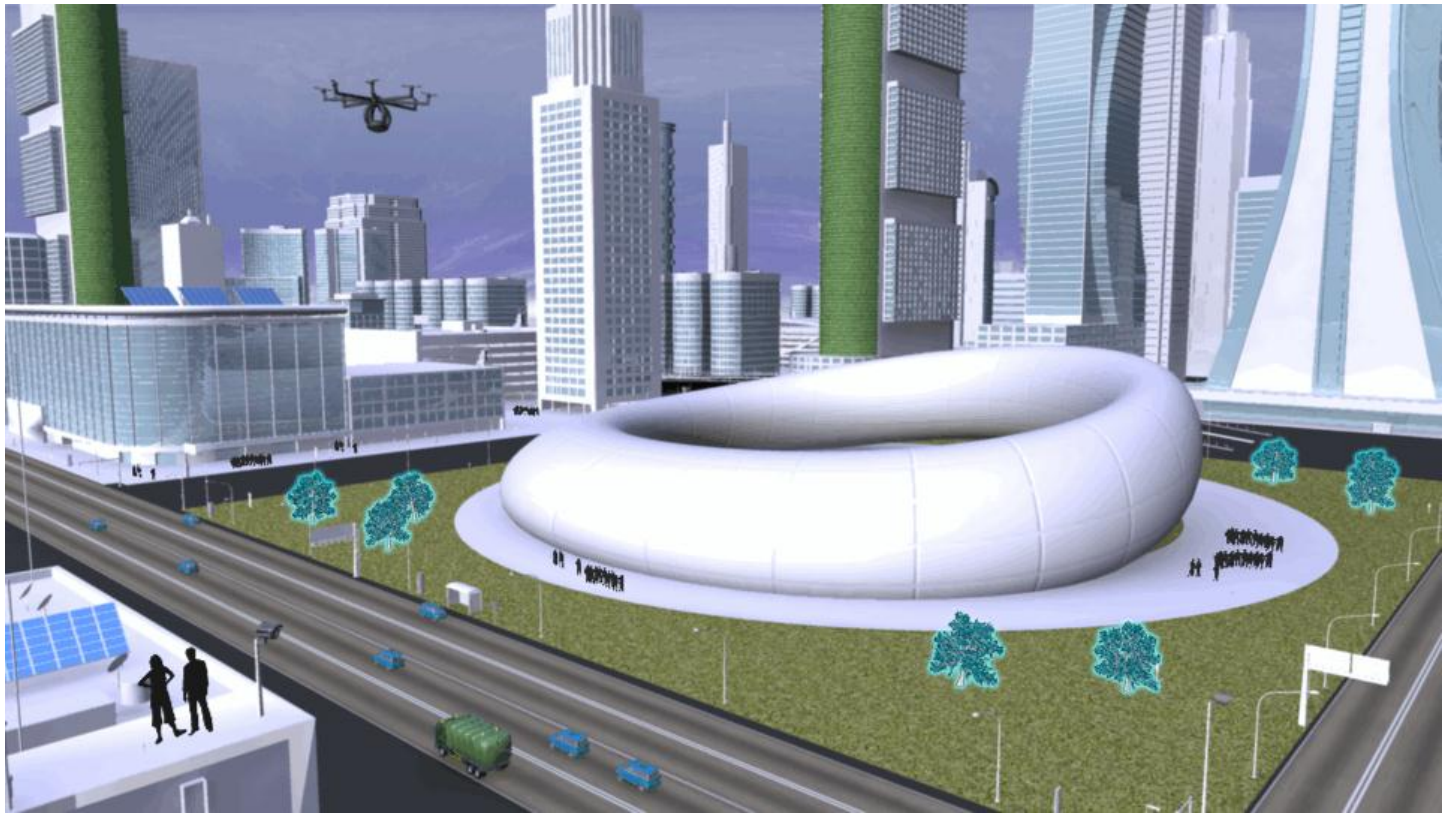
UVODNA RIJEČ



ZAŠTO SMARTCITY?

- porast populacije i urbanzacija

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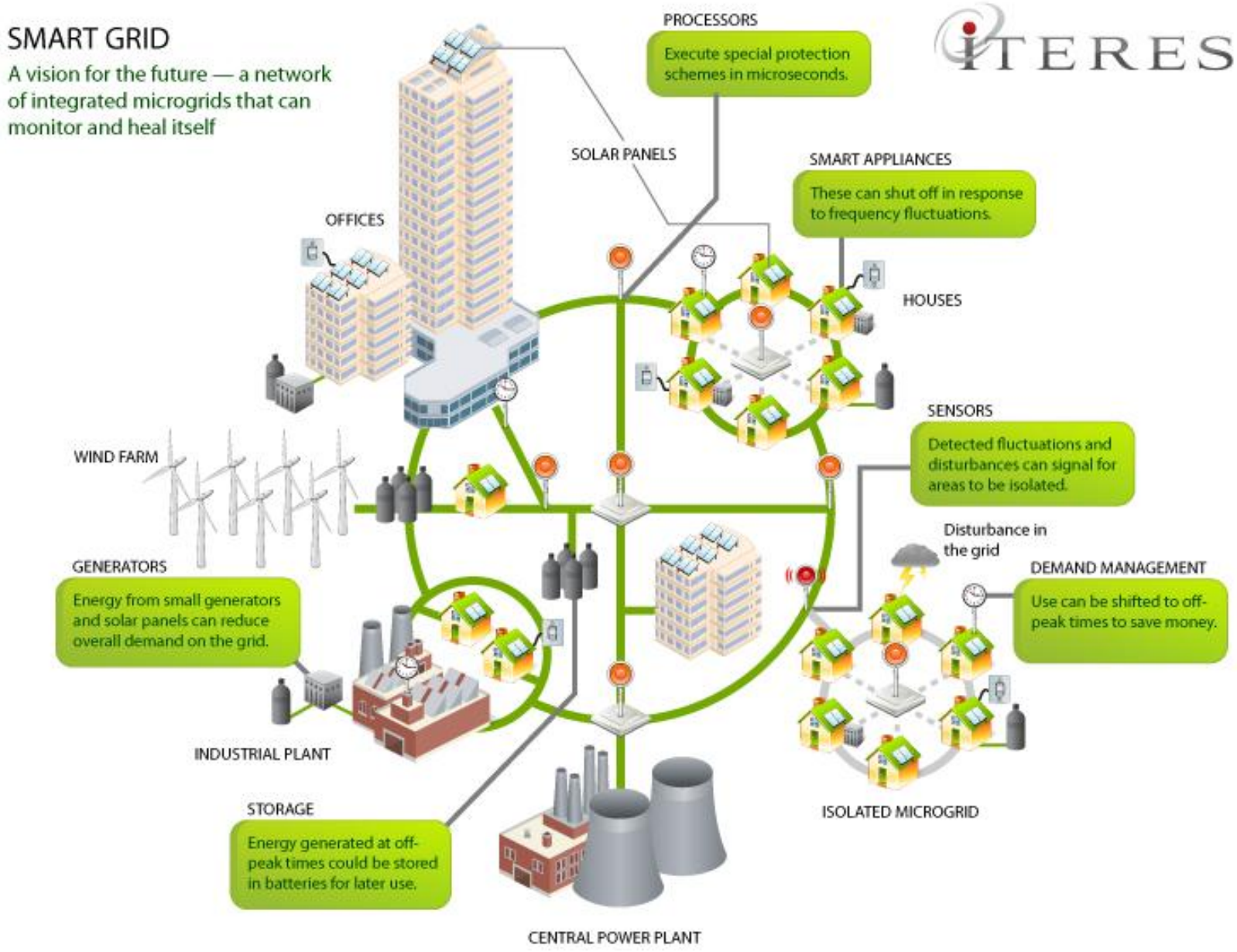
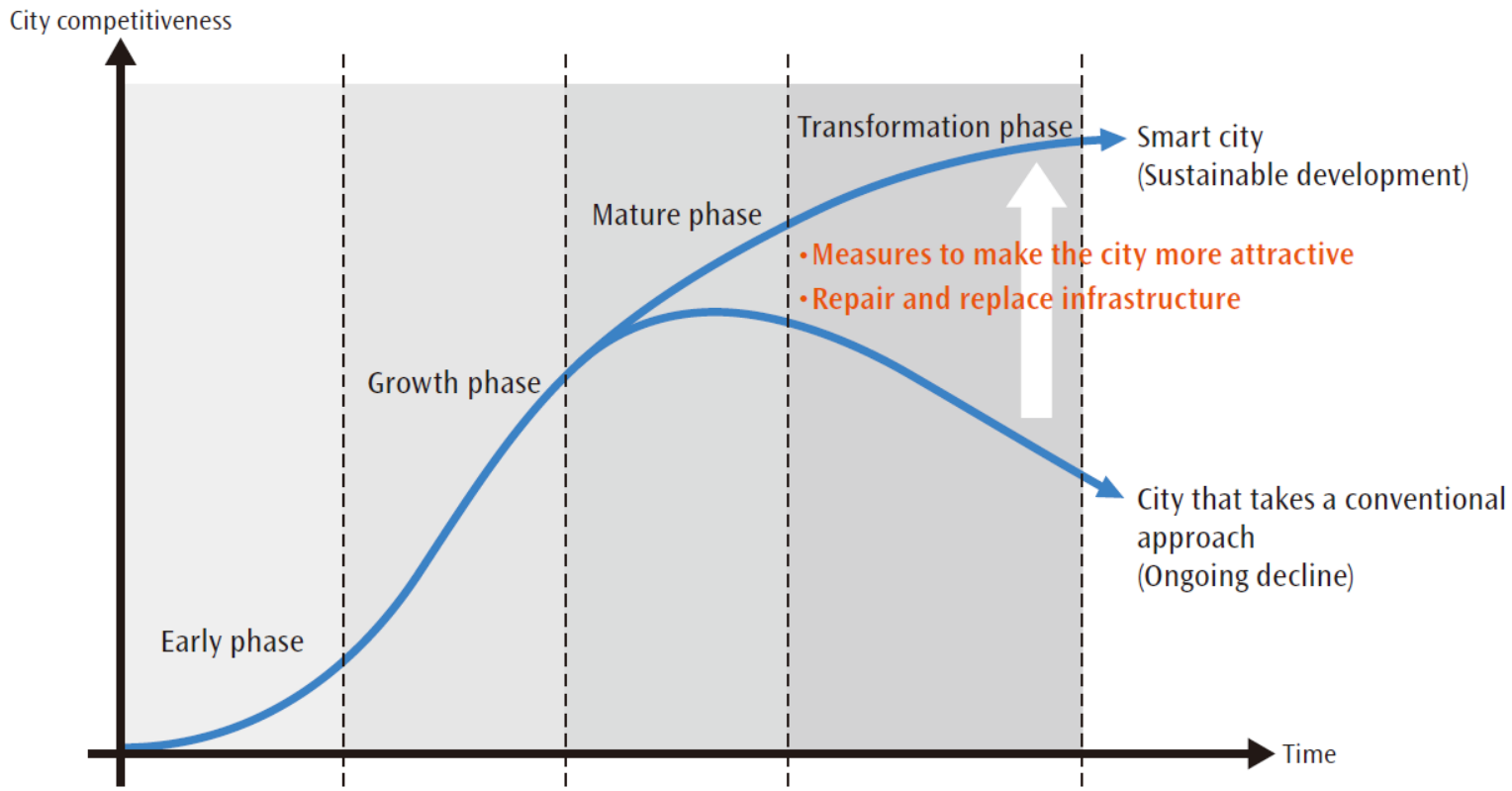
Design/manufacture
Retailer
Consumer/householder/LAs
Re-use/repair/recycling
Recycling sector
circular
economy


SMART GRID
A vision for the future — a network of integrated microgrids that can monitor and heal itself
PROCESSORS
Execute special protection schemes in microseconds.
SOLAR PANELS
SMART APPLIANCES
These can shut off in response to frequency fluctuations.
OFFICES
HOUSES
SENSORS
Detected fluctuations and disturbances can signal for areas to be isolated.
WIND FARM
Disturbance in the grid
DEMAND MANAGEMENT
Use can be shifted to off-peak times to save money.
GENERATORS
Energy from small generators and solar panels can reduce overall demand on the grid.
INDUSTRIAL PLANT
STORAGE
Energy generated at off-peak times could be stored in batteries for later use.
ISOLATED MICROGRID
CENTRAL POWER PLANT

Kako ostvariti smartcity?



ZAKLJUČAK

- Smartcity je grad budućnosti – bitan za održivu budućnost
- ekološki osvješten, ali istovremeno gospodarski razvijen

Literatura

- http://www.smart-cities.eu/
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- http://www.circle-economy.com/
- Net!Works European Technology Platform – Smart Cities Application and Requirements, 2011.
- Hitachi's vision for Smart Cities, 2013.