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Smart Cities

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Philips Lighting
7.4.2017.

**Iskustva s instalacijama inteligentne
umrežene rasvjete u Hrvatskoj**



Globalni urbani izazovi

**Ekonomičnost, okoliš
Sigurnost, nadzor
Atraktivnost, dinamika
Internet umreženost**



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CityTouch umrežena rasvjeta

CityTouch

Workflow app

Connect app



1 Data management

2 Operations management

3

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CityTouch plug and play svjetiljke

1

Automatska lokacija

2

Automatska konekcija

3

Jednostavno i brzo
programiranje

CityTouch Ready svjetiljke



Iridium gen3 LED



Libra LED



Luma



Stela+ gen2



SpeedStar



ClearWay



LumiStreet



GreenVision Xceed



CitySoul gen2 LED



MileWide²



TownGuide



CitySphere



Metronomis LED



Jargeau gen2 LED



Quebec LED

...and more are constantly following

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Sigurnost

Smart City Services

Safety & crowd control

1. In crowded events, the density of people or queue growth and growth of people might be or can be detected on a single location. Alerts can be triggered and analyzed, e.g. by using the lighting infrastructure.



2. Monitoring and integration of crowd data might happen from a central room, or might even be performed automatically.



3. Support or crowd density might be used to adjust traffic or pedestrian flows to prevent other incidents.



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Upravljanje prometom

Smart City Services

Mobility: parking space assistance

1. Because of an ever-increasing traffic pressure on city centers, car commuters and visitors are looking for parking spots. Data about available parking spots can be used for better planning and mobility.



2. The information on availability of parking spaces is used to create parking zones, which can be used by visitors and residents.



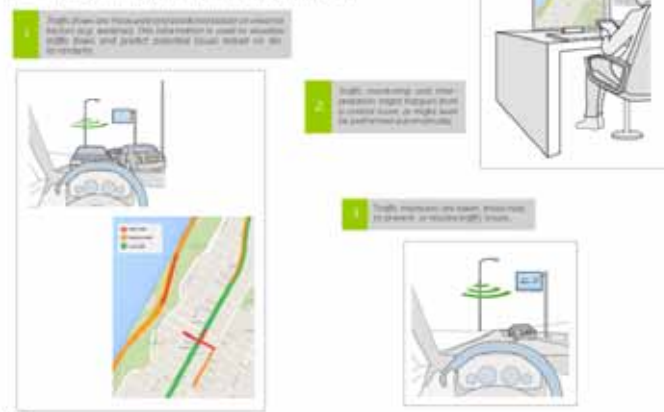
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Mobilnost

Smart City Services

Mobility 2: granular flow measurement and optimization



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Kvaliteta zraka

Smart City Services

Environmental 1: city air sensing



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Nadzor buke

Smart City Services

Environmental 2: noise sensing

1. On network sensors for air quality, the city does not have to install noise sensors all around the city. The existing infrastructure measures the noise levels, which is a good start.



2. Measurements are integrated into a central system for example a city dashboard. Appropriate actions can be taken if noise levels are too high or if there are other dangers.

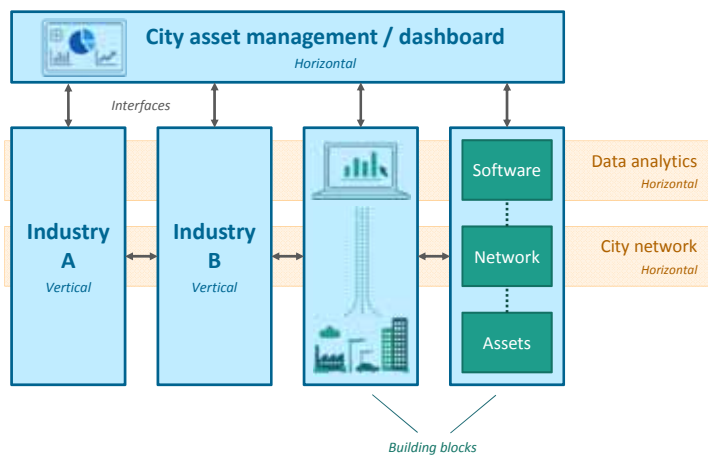


Lockdown

2

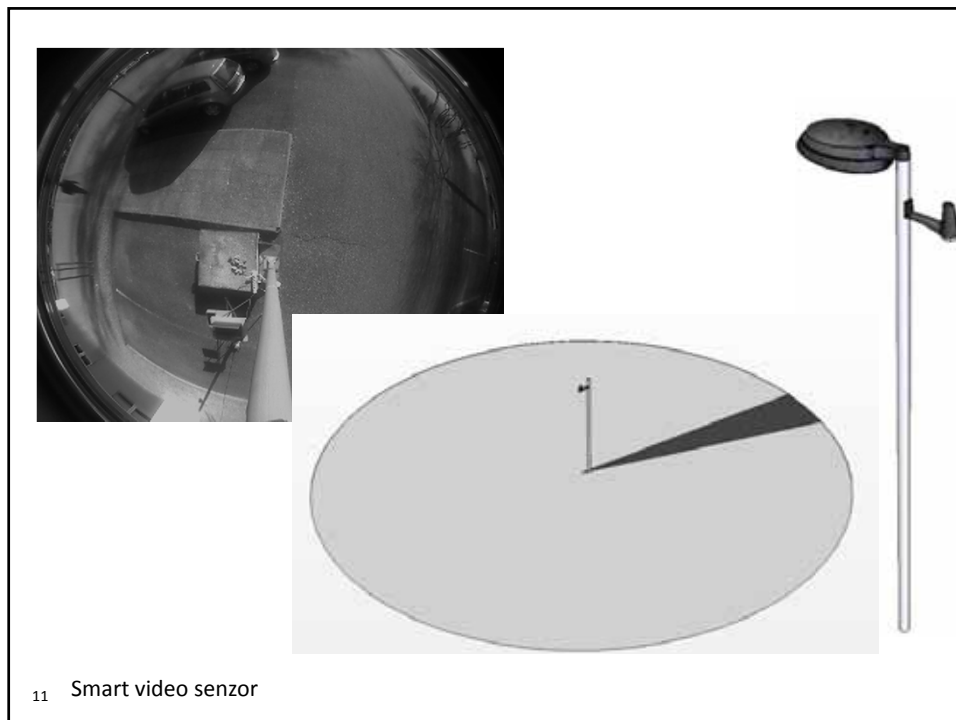
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Sistemska integracija



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DigiStreet, SmartCity ready



* Design is still under development

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Ericsson and Philips
unite to brighten...

connectivity

Smart street light integrates mobile broadband infrastructure

Mobile operators
Can densify mobile networks without cluttering a city

3x
3 to 5 solutions that take up additional space
Better mobile experience for these customers

Citizens
Better mobile connectivity and data communications
10x
Mobile traffic is expected to grow 10 times by 2015
Brighter, safer streets with white light from LEDs
Equivalent to 2 study that they feel safer with LED lighting

Cities
Lower energy costs
LEDs can generate energy savings of up to 80% with smart controls
Innovative business model makes city infrastructure more affordable
Space in the smart street light pole can be turned to mobile operators



Integracija telekomunikacijske infrastrukture
Ericsson - Philips

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Globalna prisutnost



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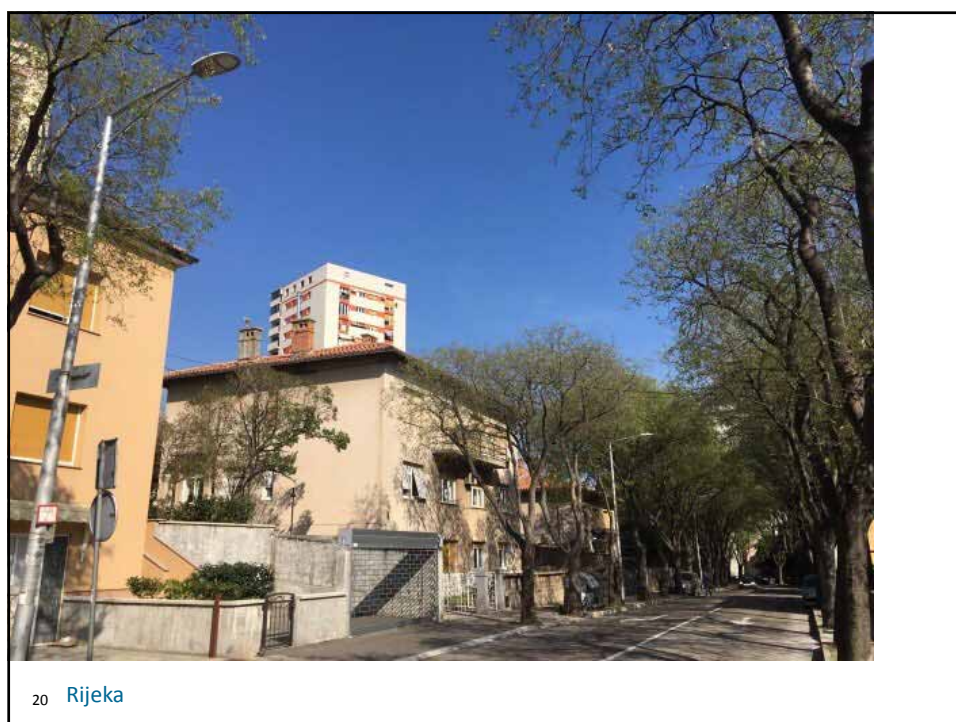
17 Dubrovnik



18 Zadar



19 Split, Podstrana



20 Rijeka

