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OPENBARE VERLICHTING NEDERLAND

Kenniscafé Smart Cities

26 mei 2016

Programma ochtend

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10.00 uur:	Welkom
10.05 uur:	Smart City Utrecht. Healthy urban living, Slim, Gezond, Groen en Connected. Door Brigitte Hulscher, Marketing & Digitale Innovatie, Economische Zaken Gemeente Utrecht
Koffie pauze	
11.00 uur:	Roadmaps voor smart cities: hoe smart lighting de weg kan banen. Door Dr. Ir. Elke den Ouden, Technische Universiteit Eindhoven Industrial Engineering & Innovation Sciences/Voorzitter IGOV Innovatie Platform
11.30 uur	Sensoren in de openbare ruimte, een verkenning van Rijkswaterstaat. Door Jasmina Tepić MA. Rijkswaterstaat, Water, Verkeer en Leefomgeving Afd. Netwerkregie en Communicatie,Adviseur Strategische Verkenningen.

Programma middag

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13.30 uur:	Communicatie infrastructuren voor Smart Cities. Door George Boersma, directeur Munisense b.v.
14.15 uur:	Introductie OVLNL kennisteam Smart Cities/Smart Lighting. Door Ir. Edwin Baars, directeur Intechraal
14.30 uur:	Smart Lighting in de praktijk Door Ruben van Bochove, Nobralux
14.45 uur	Mededelingen OVLNL, IGOV Innovatie Platform en IGOV. Door Arthur Klink/Elke den Ouden, OVLNL/IGOV en Andre Engelman, OVLNL netwerk Licht & Omgeving Smart City Utrecht.
15.15 uur:	Afsluiting Door Elke den Ouden voorzitter IGOV Innovatie Platform en dag voorzitter Daaf de Kok

Definitie Smart City

- Kwaliteit van leven verbeteren door met techniek diensten te verbeteren en beter aan te sluiten op de behoeften van inwoners (en andere stakeholders).

- smart city effective integration of physical, digital and human systems in the built environment to deliver a sustainable, prosperous and inclusive future for its citizens

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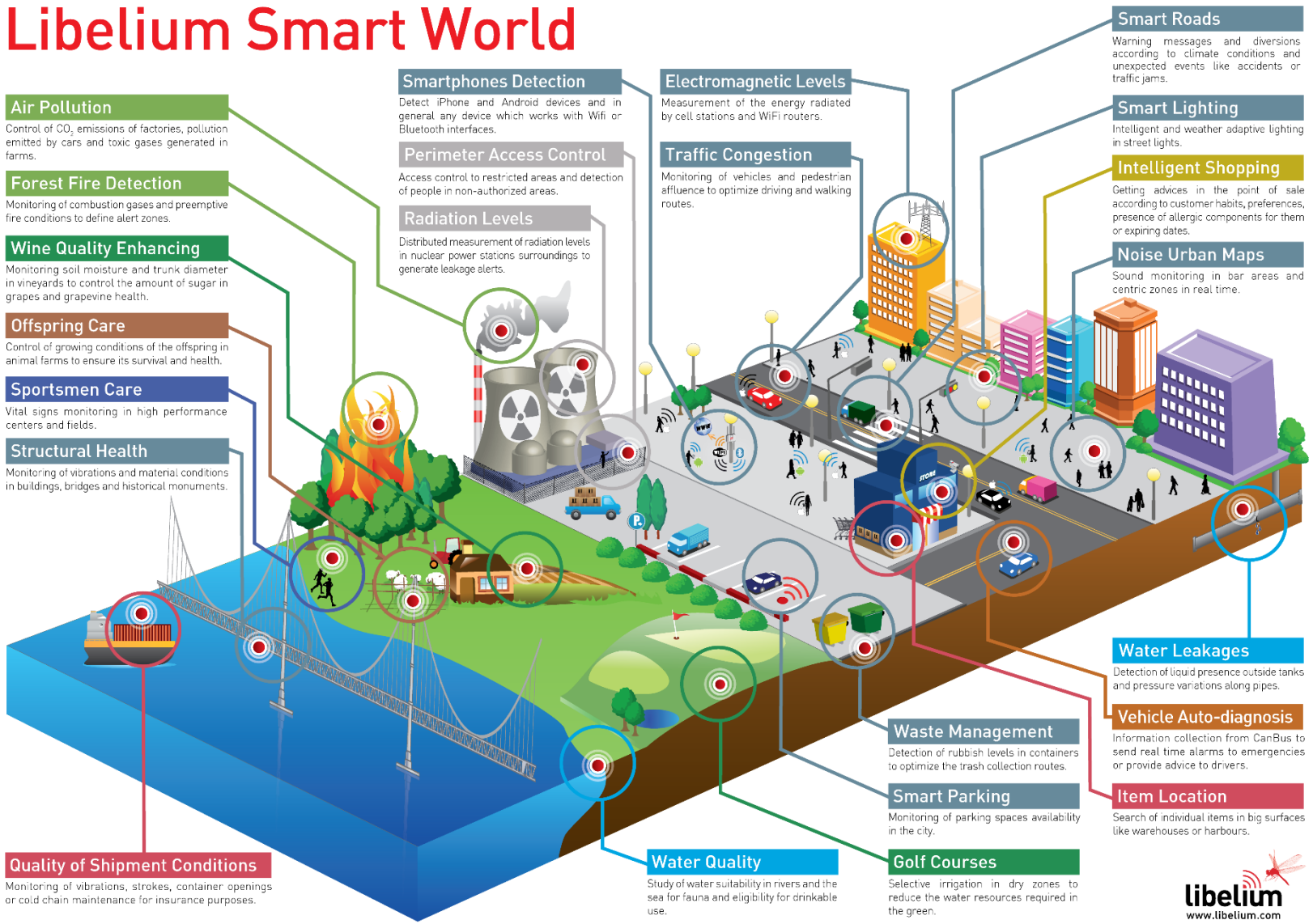
Smart City

Effective integration of physical, digital and human systems in the built environment to deliver a sustainable, prosperous and inclusive future for its citizens

(bron: BSI Standards Publication)

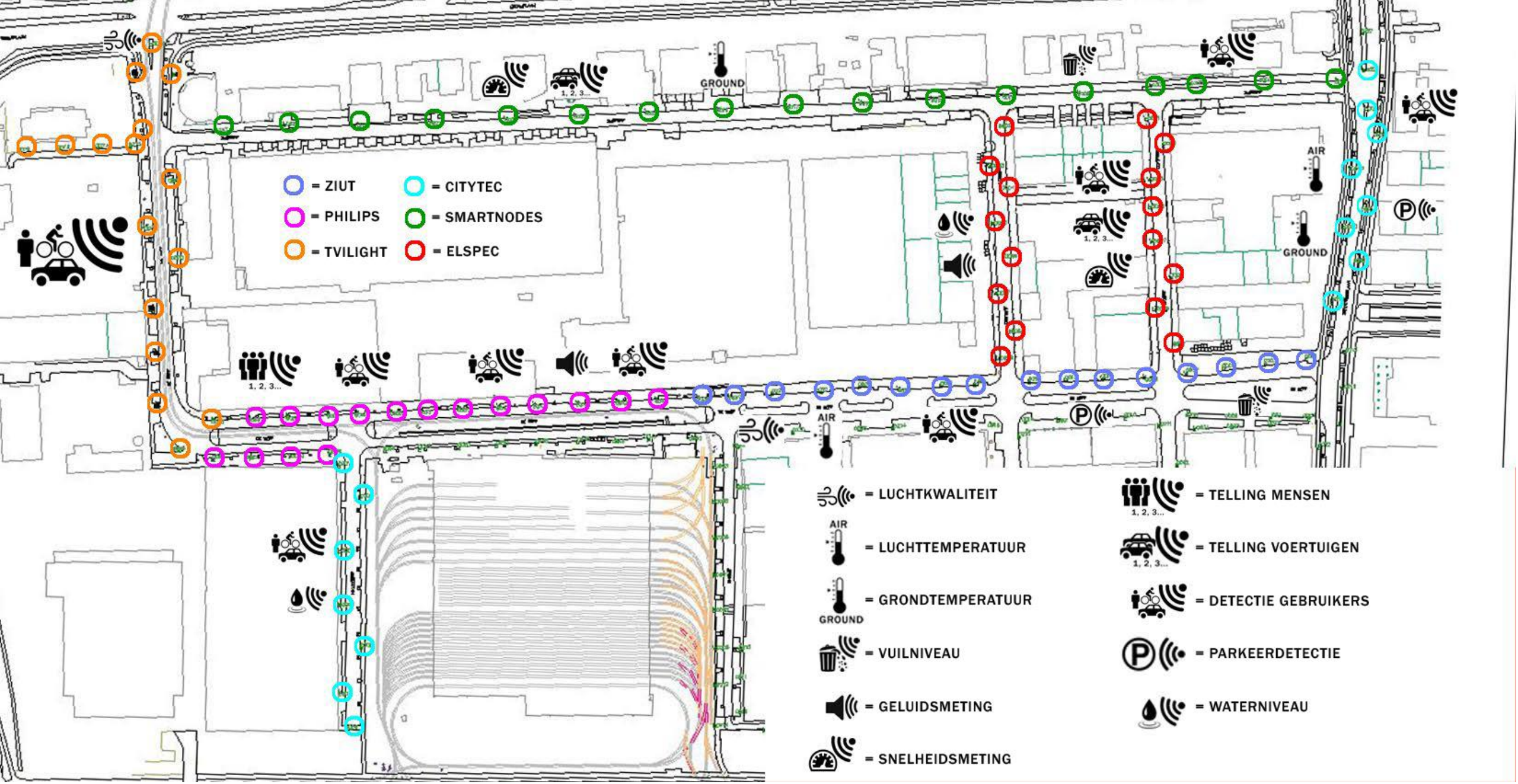


Themagroep Smart Lighting

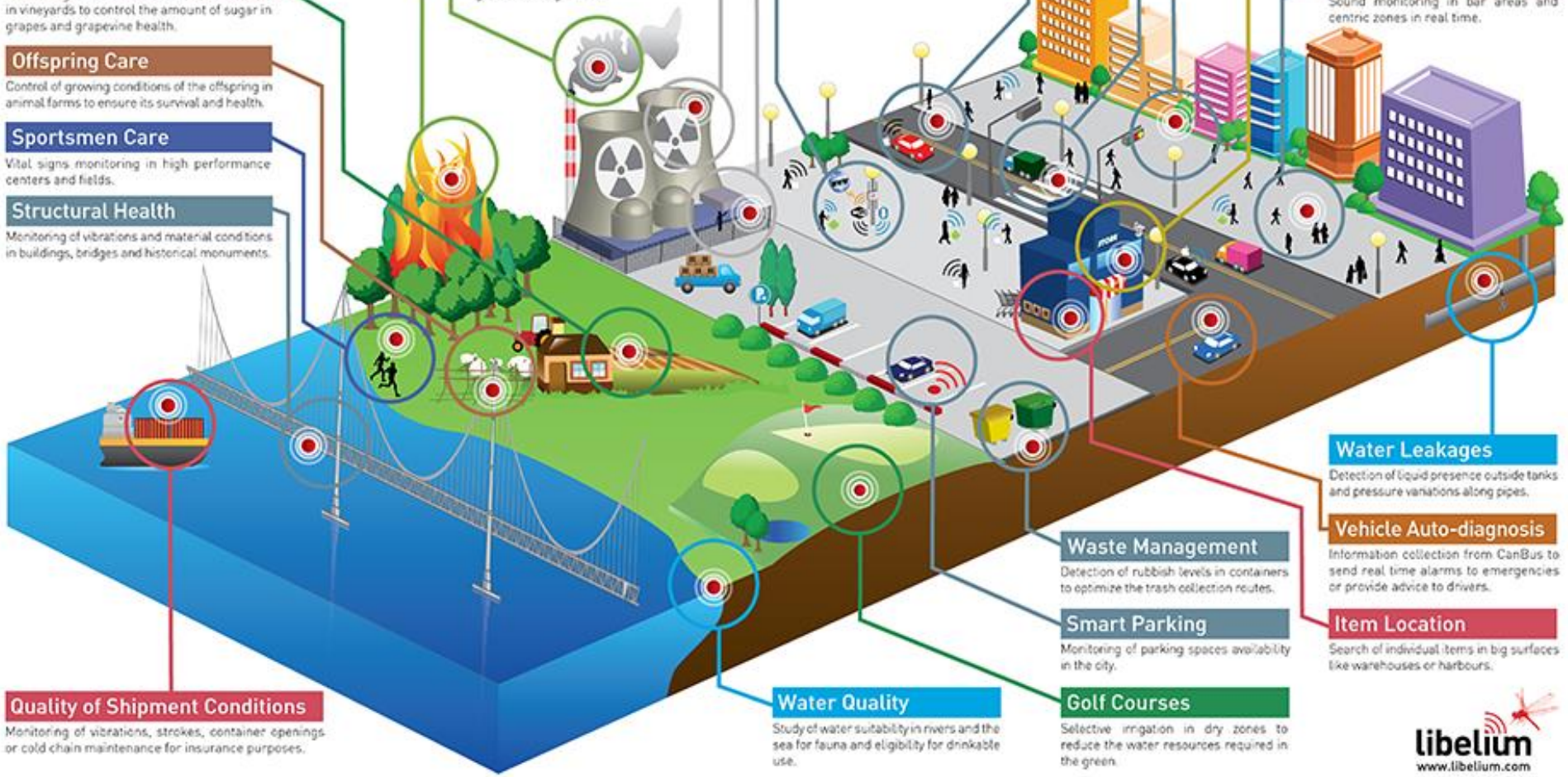
Voor: stakeholders van de harde infrastructuur van Smart Lighting in Nederland

- Informatie vergaren, structureren en delen
- Kansen aanreiken op het gebied van Smart Lighting
- Promoten van standaardisering en modulairiteit
- Overheid en markt verbinden
- Verzamelpunt en vraagbaak
- Gemeenschappelijke belangen Smart Lighting behartigen


sensoren voor
luchtkwaliteit,
watermeting,
etc.
stadsinformatie,
advertentie
panelen
intelligente
verkeers-
afhandeling
laden
electrische
voertuigen
audio en video
bewaking
afvalniveau-
bewaking
communicatie-
netwerken
parkeer-
systeem
dynamische
openbare
verlichting


= ZIUT
= PHILIPS
= TVILIGHT
= CITYTEC
= SMARTNODES
= ELSPEC
GROUND
AIR
1, 2, 3...
= LUCHTKWALITEIT
= LUCHTTEMPERATUUR
= GRONDTEMPERATUUR
= VUILNIVEAU
= GELUIDSMETING
= SNELHEIDSMETING
= TELLING MENSEN
= TELLING VOERTUIGEN
= DETECTIE GEBRUIKERS
= PARKEERDETECTIE
= WATERNIVEAU

Libelium Smart World



Air Pollution
Control of CO_2 emissions of factories, pollution emitted by cars and toxic gases generated in farms.

Forest Fire Detection
Monitoring of combustion gases and preemptive fire conditions to define alert zones.

Wine Quality Enhancing
Monitoring soil moisture and trunk diameter in vineyards to control the amount of sugar in grapes and grapevine health.

Offspring Care
Control of growing conditions of the offspring in animal farms to ensure its survival and health.

Sportsmen Care
Vital signs monitoring in high performance centers and fields.

Structural Health
Monitoring of vibrations and material conditions in buildings, bridges and historical monuments.

Quality of Shipment Conditions
Monitoring of vibrations, strokes, container openings or cold chain maintenance for insurance purposes.

Smartphones Detection
Detect iPhone and Android devices and in general any device which works with Wifi or Bluetooth interfaces.

Perimeter Access Control
Access control to restricted areas and detection of people in non-authorized areas.

Radiation Levels
Distributed measurement of radiation levels in nuclear power stations surroundings to generate leakage alerts.

Electromagnetic Levels
Measurement of the energy radiated by cell stations and WiFi routers.

Traffic Congestion
Monitoring of vehicles and pedestrian affluence to optimize driving and walking routes.

Smart Roads
Warning messages and diversions according to climate conditions and unexpected events like accidents or traffic jams.

Smart Lighting
Intelligent and weather adaptive lighting in street lights.

Intelligent Shopping
Getting advices in the point of sale according to customer habits, preferences, presence of allergic components for them or expiring dates.

Noise Urban Maps
Sound monitoring in bar areas and centric zones in real time.

Water Leakages
Detection of liquid presence outside tanks and pressure variations along pipes.

Vehicle Auto-diagnosis
Information collection from CanBus to send real time alarms to emergencies or provide advice to drivers.

Item Location
Search of individual items in big surfaces like warehouses or harbours.

Waste Management
Detection of rubbish levels in containers to optimize the trash collection routes.

Smart Parking
Monitoring of parking spaces availability in the city.

Water Quality
Study of water suitability in rivers and the sea for fauna and eligibility for drinkable use.

Golf Courses
Selective irrigation in dry zones to reduce the water resources required in the green.

libelium
www.libelium.com

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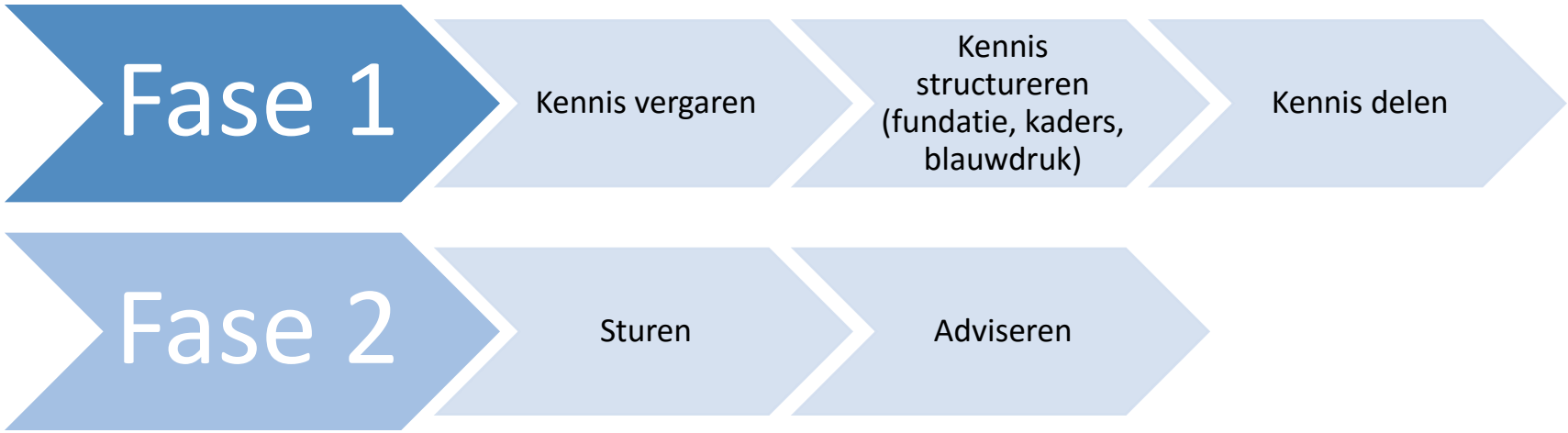
Themagroep Smart cities



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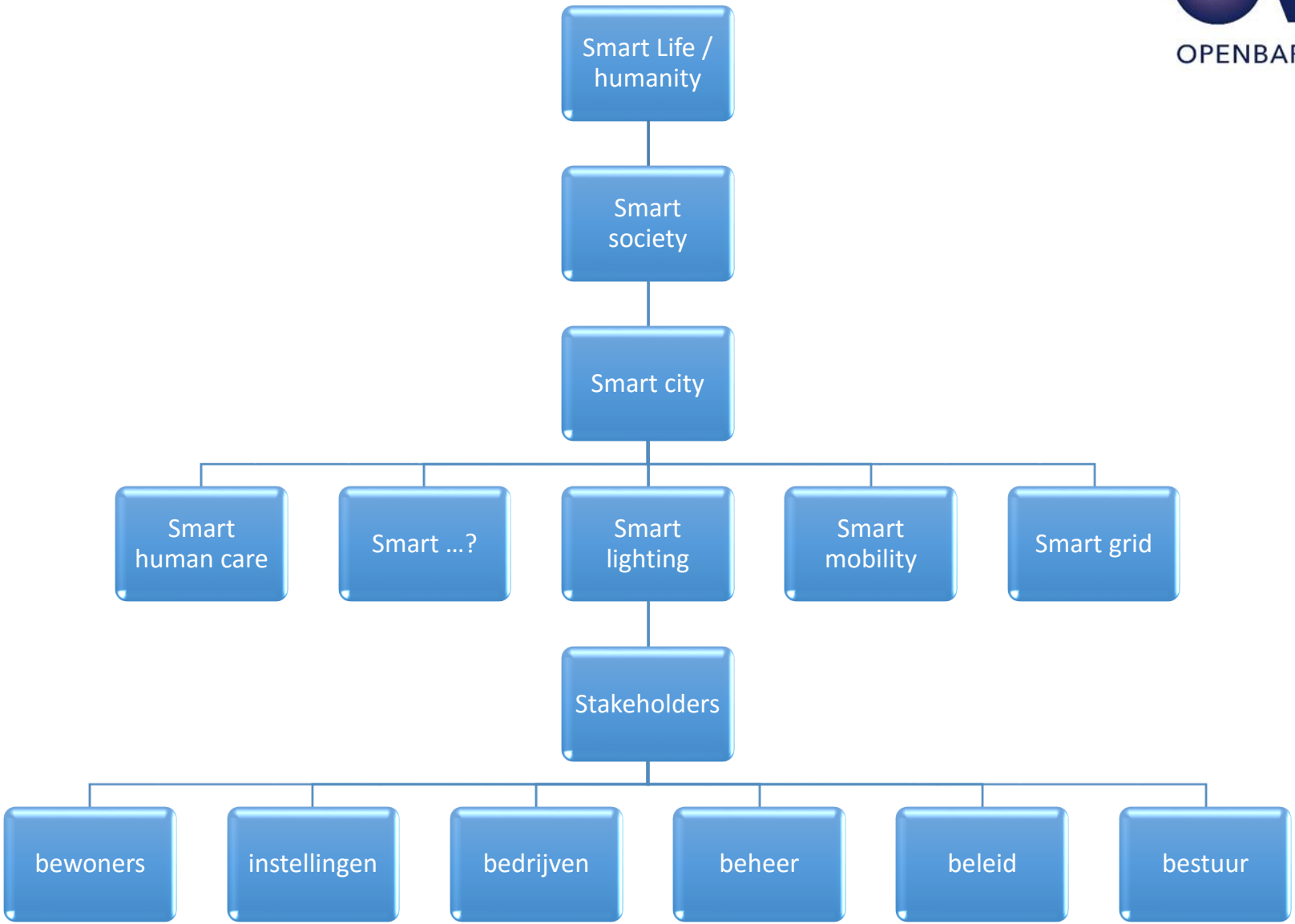

Best Practices .. van drukknop tot ….

- Strategie
- Beleid, visies
- Economisch
- Juridisch
- Marketing
- Infrastructuur / ICT
- Welzijn
- Data
- Milieu
- ……?