

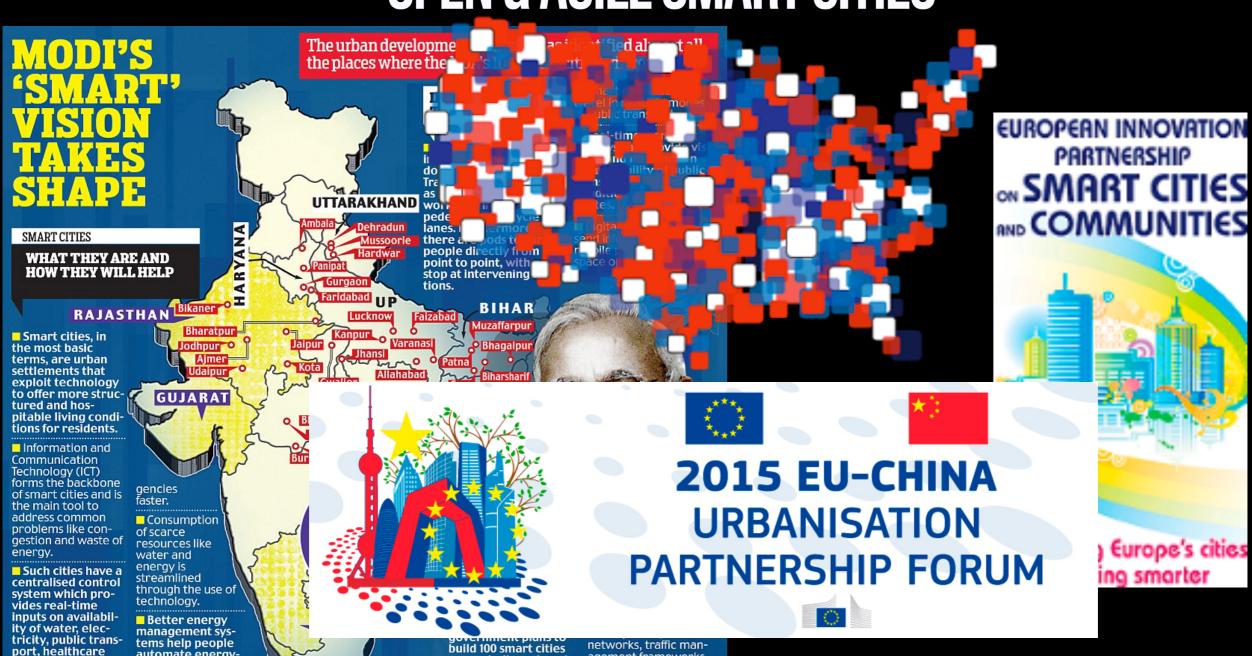
Katalin GALLYAS

OASC special envoy to the chair, Dr Martin Brynskov Vice-chair of Connected Smart Cities Network Board Founder and CEO, Civic Tech Amsterdam

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OPEN & AGILE SMART CITIES



agement frameworks,

smart meters, GPRS for

solid waste manage-

ment, online water

quality monitoring,

online building plan

approval schemes, etc

across India and made

an allocation of ₹7,060

crore to this end in

the Budget 2014-15.

Hyderabad, Surat,

Cities such as Delhi,

KERALA

port, healthcare

Intelligent com-

munication tools

enable administra-

respond to emer-

tors to manage and

and education.

automate energy-

There is emphasis

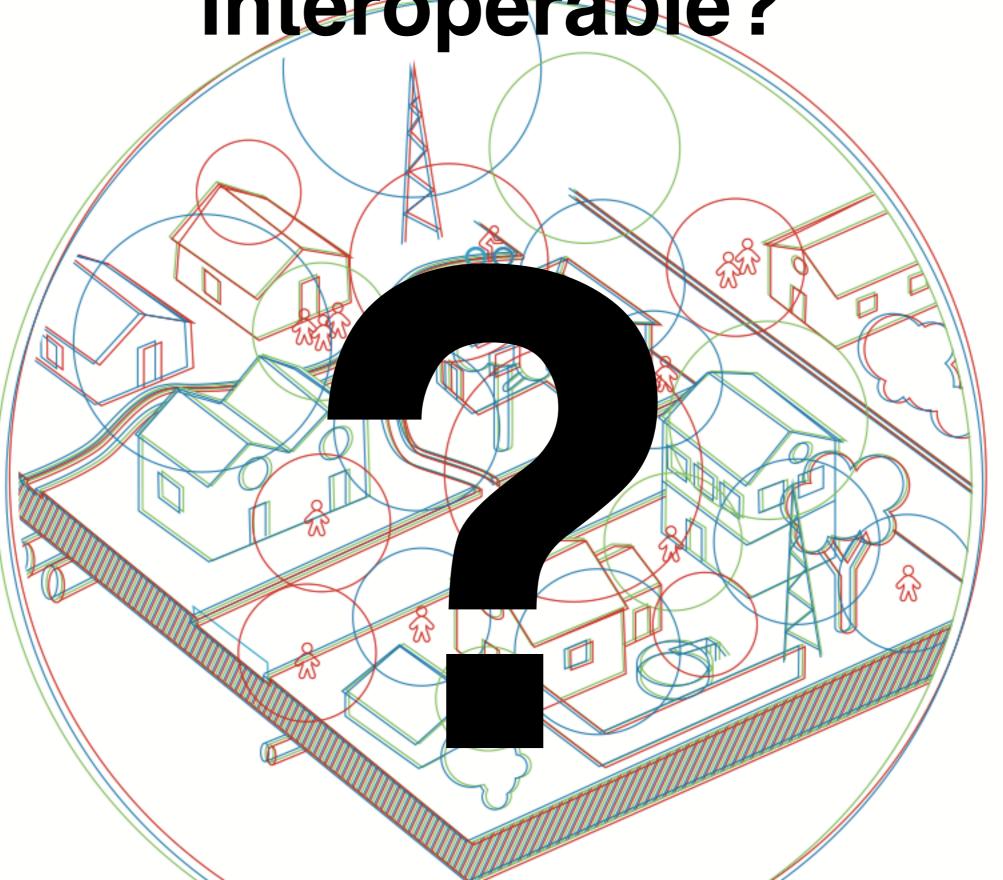
on the use of renew-

in buildings.

able sources of

consuming systems

How to make IoT interoperable?

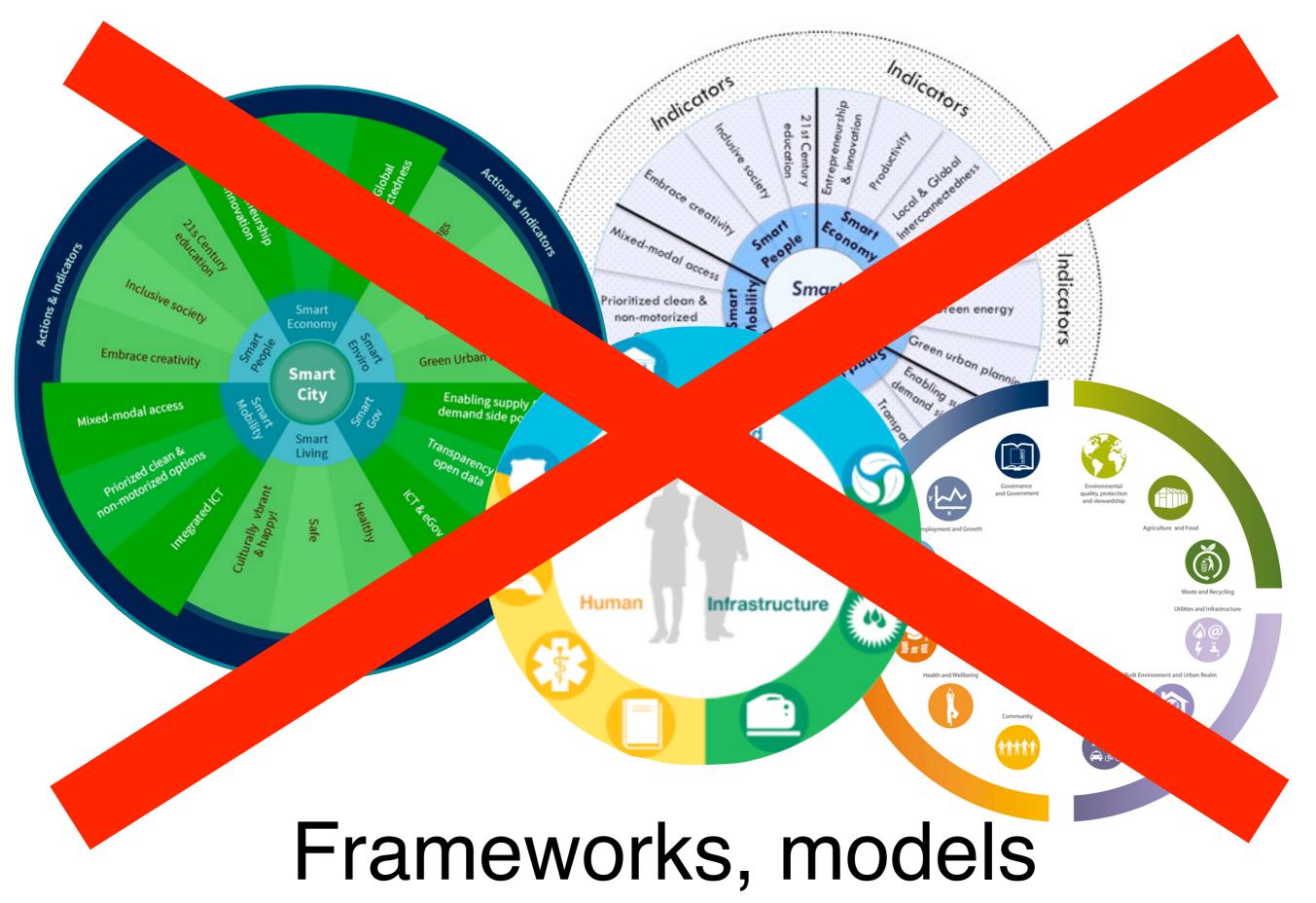




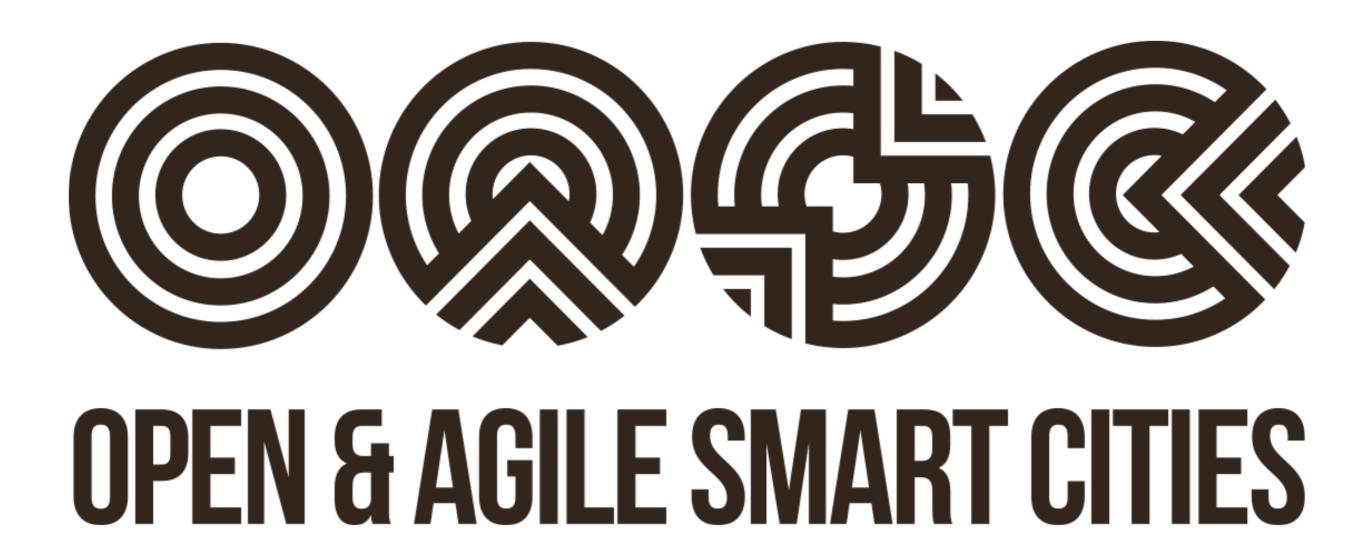
- political vision
- organizing across silos
- mobility
- law
- (self)surveillance
- resource sharing / commons
- IT infrastructure
- tools for cocreation
- financing

- growth
- city-collaboration
- climatemeasures/resilience
- (pre-)procurement
- competence building/education
- development methods
- utilities

GROWTH (JOBS) NICE CITIES



THEREISIO SMART CITY MARKET BASEDON CITYNEEDS



AUSTRALIA

- Brisbane
- Gold Coast
- Springfield

AUSTRIA

- Salzburg
- Linz
- Graz
- Salzburg

BELGIUM

- Antwerp
- Brussels
- Ghent
- Leuven

BOSNIA AND HERZEGOVINA

- Mostar
- Sarajevo
- Tuzla

BRAZIL

- Anapólis (Goiás)
- Colinas de Tocantins (Tocantins)
- Olinda (Recife)
- Porto Alegre (Rio Grande do Sul)
- Rio das Ostras
- Taquaritinga (São Paulo)
- Vitória (Espírito Santo)

CROATIA

- Dubrovnik
- Sibenik
- Split

DENMARK

- Aalborg
- Aarhus
- Copenhagen
- Vejle

ENGLAND

- Bristol
- Leeds
- Manchester
- Milton Keynes
- Cambridgeshire

FINLAND

- Espoo
- Helsinki
- Oulu
- Tampere
- Turku
- Vantaa

FRANCE

- Amiens
- Arras
- Saint-Quentin
- Valenciennes

IRELAND

- Cork
- Dublin
- Galway
- Limerick

ITALY

- Ancona
- Cagliari
- Lecce
- Messina
- Milan
- Palermo
- Terni

MEXICO

- Cuautla
- Guanajuato
- Leon

NETHERLANDS

- Amersfoort
- Amsterdam
- Eindhoven
- Enschede
- Rotterdam
- Utrecht

POLAND

- Gdansk
- Grudziadz

PORTUGAL

- Águeda
- Fundão
- Lisbon
- Palmela
- Penala
- Porto

SCOTLAND

- Aberdeen
- Dundee
- Edinburgh
- Glasgow
- Inverness
- Perth
- Stirling

SLOVENIA

- Koper
- Idrija

SPAIN

- Guadalajara
- Las Palmas
- Malaga
- Murcia
- Sabadell
- Santander
- Sevilla
- Valencia



4th wave · February 17, 2016

89

cities

19

countries

OPEN & AGILE SMART CITIES

Common API (NGSI)

Driven by Implementation

(procurement, projects, labs, accelerators)

Data Models (CitySDK) Version 1.0 based on

- NGSI: FIWARE Implementation of the Open Mobile Alliance Next Generation Service Interfaces Specification
- CitySDK: City Service Development Kit
- CKAN: Comprehensive Knowledge Archive Network

Open Data Platform (CKAN)



JANUARY 2015



Opening of OASC Secretariat in Brussels

5G in Cities (1)

- Cities are main hubs of digital connectivity and complexity.
- Already now, large investments.
- Digital changes governance, with near-real-time data.
- Public-private, multi-sectoral inevitable; strong voice of cities.
- Main use cases: latency-critical interactions, robo-governance (fixing things in dangerous situations).



Martin Brynskov, Chair Katalin Gallyas, Special Envoy

89 cities
19 countries
Europe, Latin America,
Asia-Pacific

www.oascities.org info@oascities.org

5G in Cities (2)

- Win-win attitude is essential to be successful in cities.
- Systematic experimentation and pre-commercial procurement.
- >1 trillion market coming decade.
- Regulatory changes necessary.

Key related initiatives

- EIP-SCC: eu-smartcities.eu
- IoT Largescale Pilots and AIOTI: <u>aioti.eu</u>
- Open & Agile Smart Cities: <u>oascities.org</u>



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5G in Cities (3)

- Business models are challenging.
- Economies of scale might not apply.
- High-latency (LPWAN etc.) is cheap.
- Verticals are not optimal.
- Limited testing facilities in cities.
- Public services needs focus.



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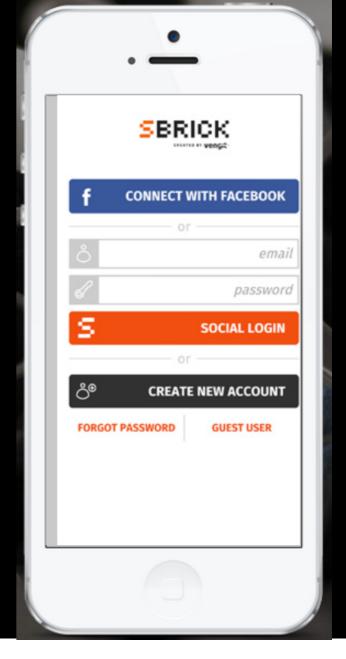
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& STARUPS CAN UTILIZY 5G FOR BETTER SERVICES



loT in education





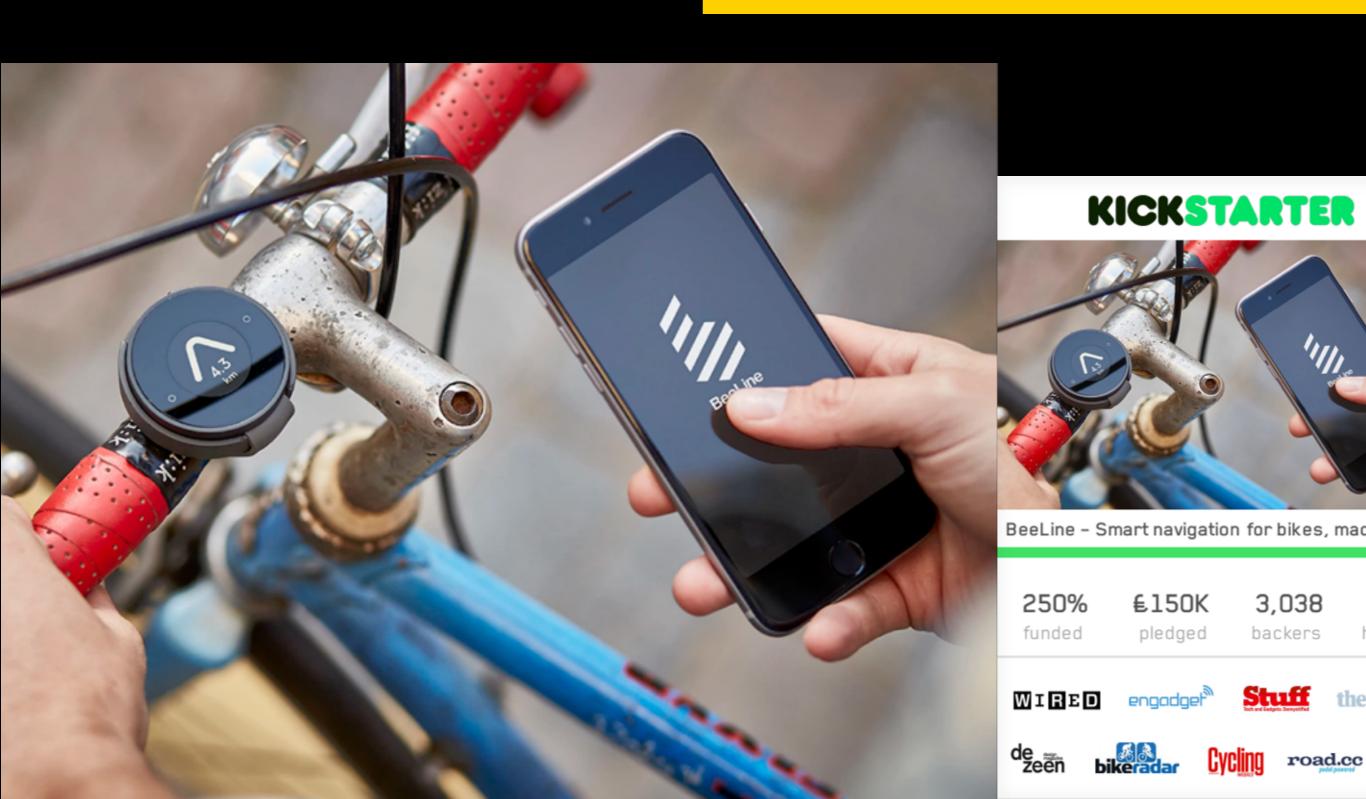


loT enabled smart objects



loT in Biking



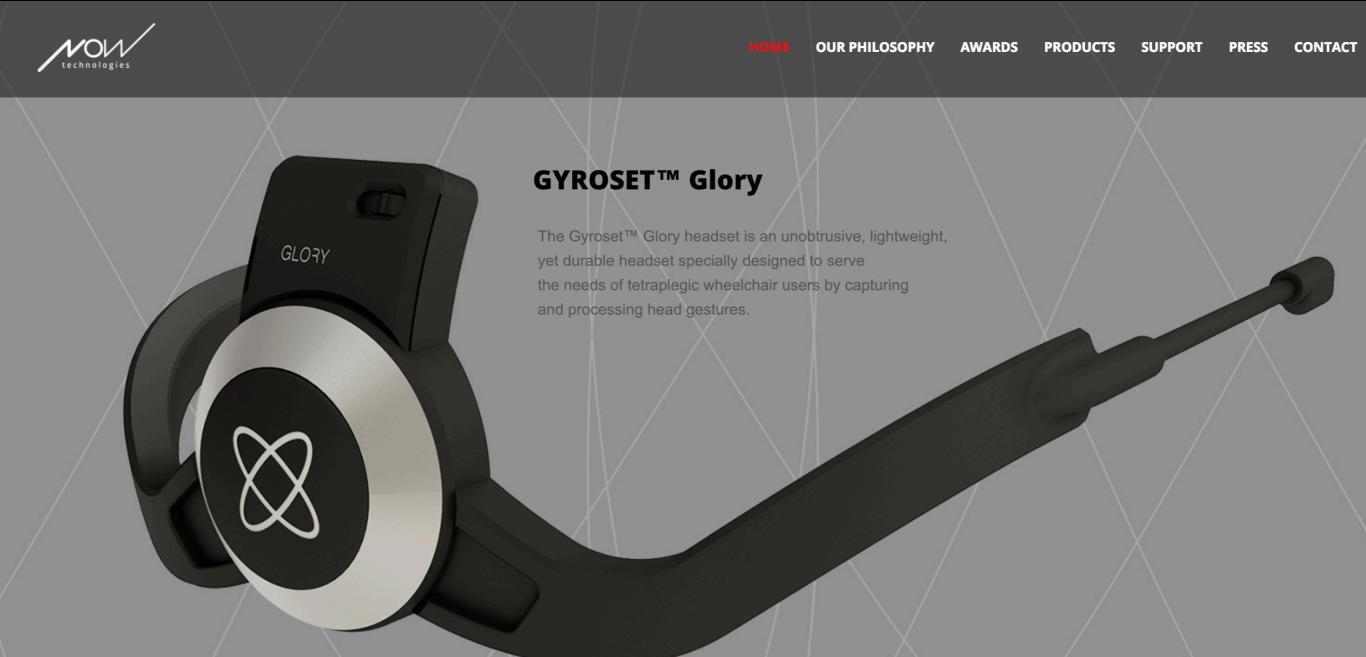


Social Injustice filmed via VR to anyone/elderly people (documentary project)





VR for disabled



Home robots



Search

2

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Best Personal Robots







Sensor enabled argriculture



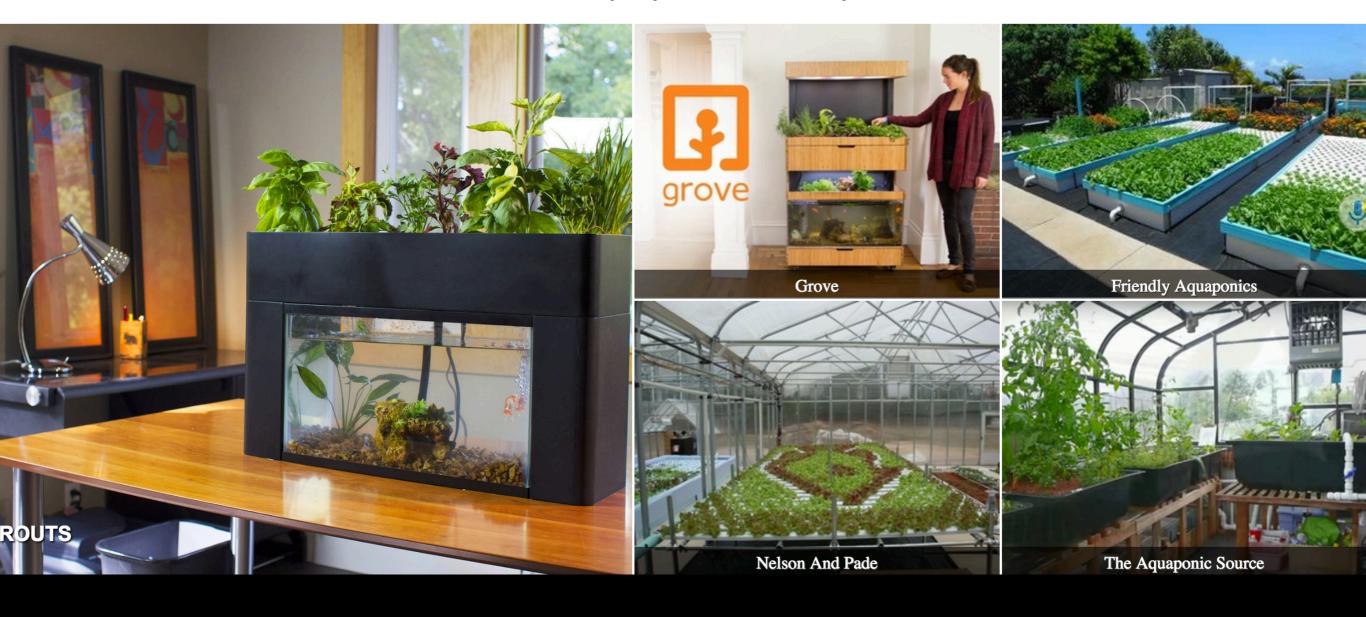
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World's Best Aquaponics Startups



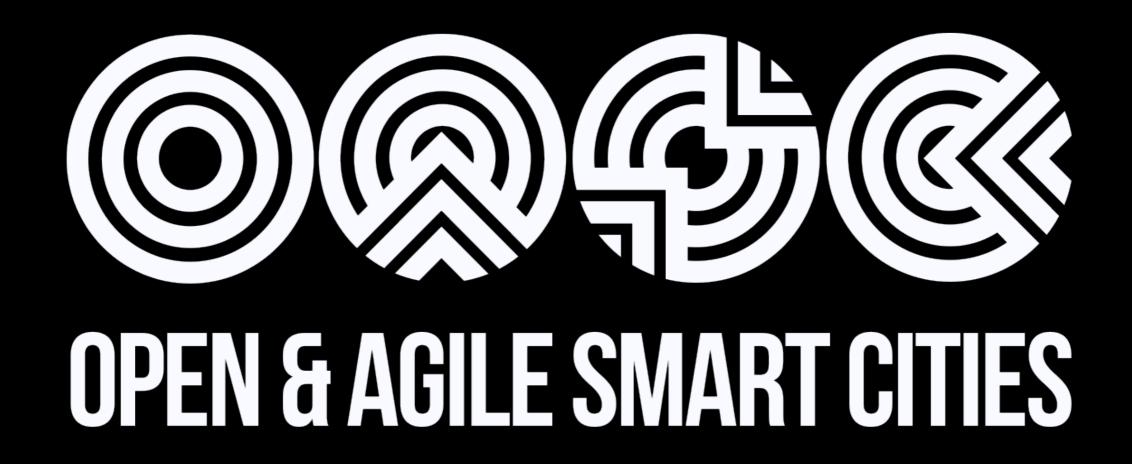
CONNECTED SMART CITIES CONFERENCE 2017

"Making IoT work for cities and citizens"

January 12, 2017, Brussels

Committee of the Regions

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