

“Stop **talking** the talk and start **walking** the walk”

*Quote The Hon Angus Taylor MP*

*Assistant Minister for Cities and Digital Transformation*

## SMART CITY EMBASSY



Den Haag



EINDHOVEN



UTRECHT

## Overview Dutch Smart Cities

amsterdam  
**smart  
city**

amsterdam  
**smart  
city**



Ministerie van Infrastructuur en Milieu



# SMART CITY EMBASSY



## Stratumseind De-escalate *City of Eindhoven*







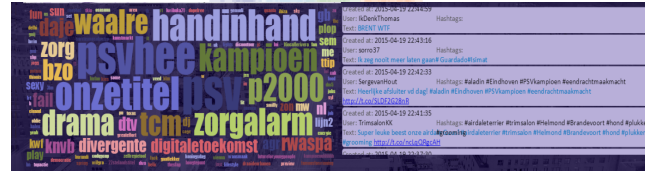
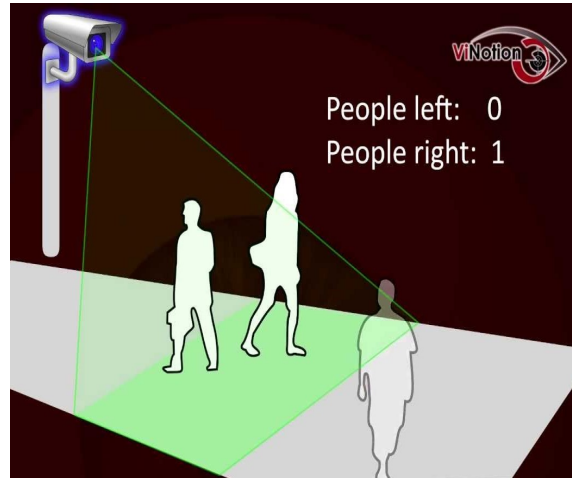
EINDHOVEN



## Living lab De-escalate:

- Influencing behaviour with colour of light





## Monitoring:

- Camera's
- Walking patterns
- Sound analytics
- Social media analytics



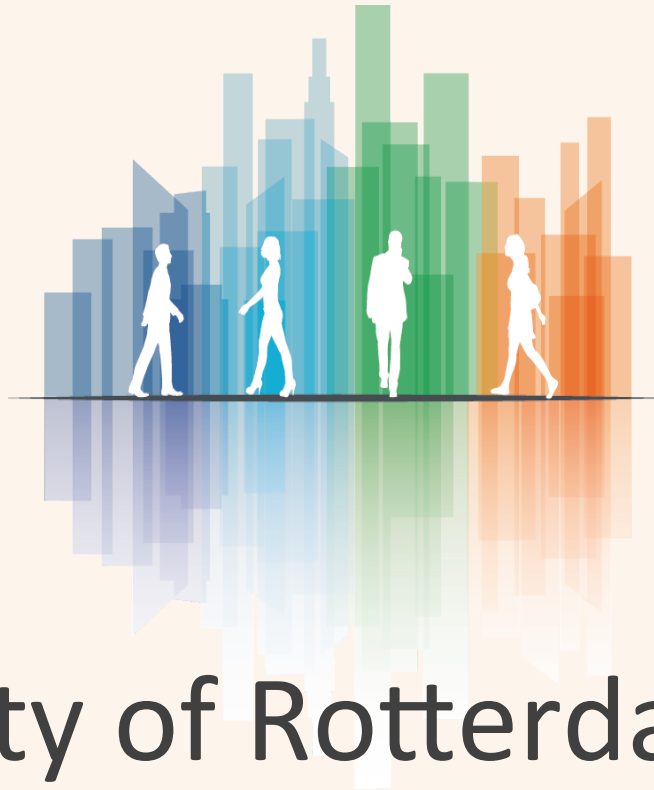
EINDHOVEN



#### Benefits:

- Safer and more sociable environment for visitors and citizens
- Police resources focussed where they are really required
- Business owners have lower repair and clean-up costs
- Less need for hospital and medical resources due to fewer alcohol related incidents
- More business and tourism attracted to the city due to a fall in negative PR

# SMART CITY EMBASSY



## City of Rotterdam



2nd city of the Netherlands



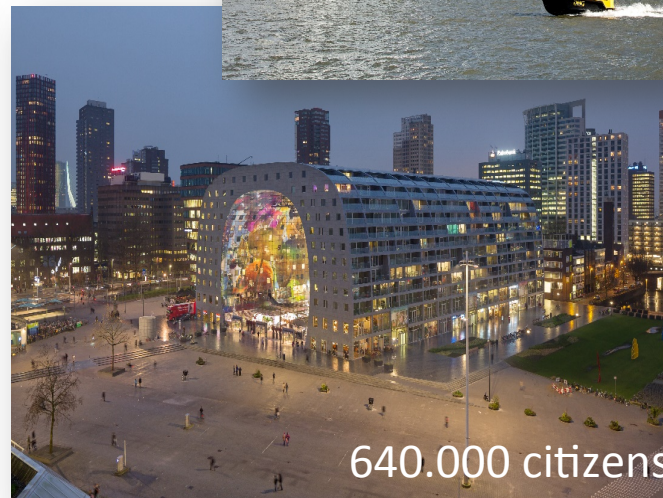
Rebuild City-center



No 1 Port of Europe



640.000 citizens



## Smart City Rotterdam – Focus Points

Resilient City Strategy – next step

- City Solutions for Climate Change
- Future proof City Development
- Cyber Resilience
- Citizen Centric

Smart Asset management

Innovation CityLab's - Incubator center

Rotterdam 3D / virtual city

EU-projects / Smart City Lighthouse

Roadmap Next Economy



Incidental waterstorage







Integration of  
dynamic Led-  
lightning with  
single  
telemanagement

Lightwell tests with city  
lightning  
including car-charging module



The pilot has defined an  
open  
standard for city-lightning

ALiS



## Smart City Challenges

- Cross-over integration
- Implementation of Smart City architect
- Overall Smart City communication
- Complexity of Smart City theme
- Scaling up pilot's into large scale implementations



### **Rotterdam is focussing on Future/Next City:**

- Strong innovation Eco-system
- Focus on Resilience
- Virtual City as communication platform
- Development and use of (Open) Standards
- Regional approach via Roadmap Next Economy

**ROTTERDAM.  
MAKE IT  
HAPPEN.**



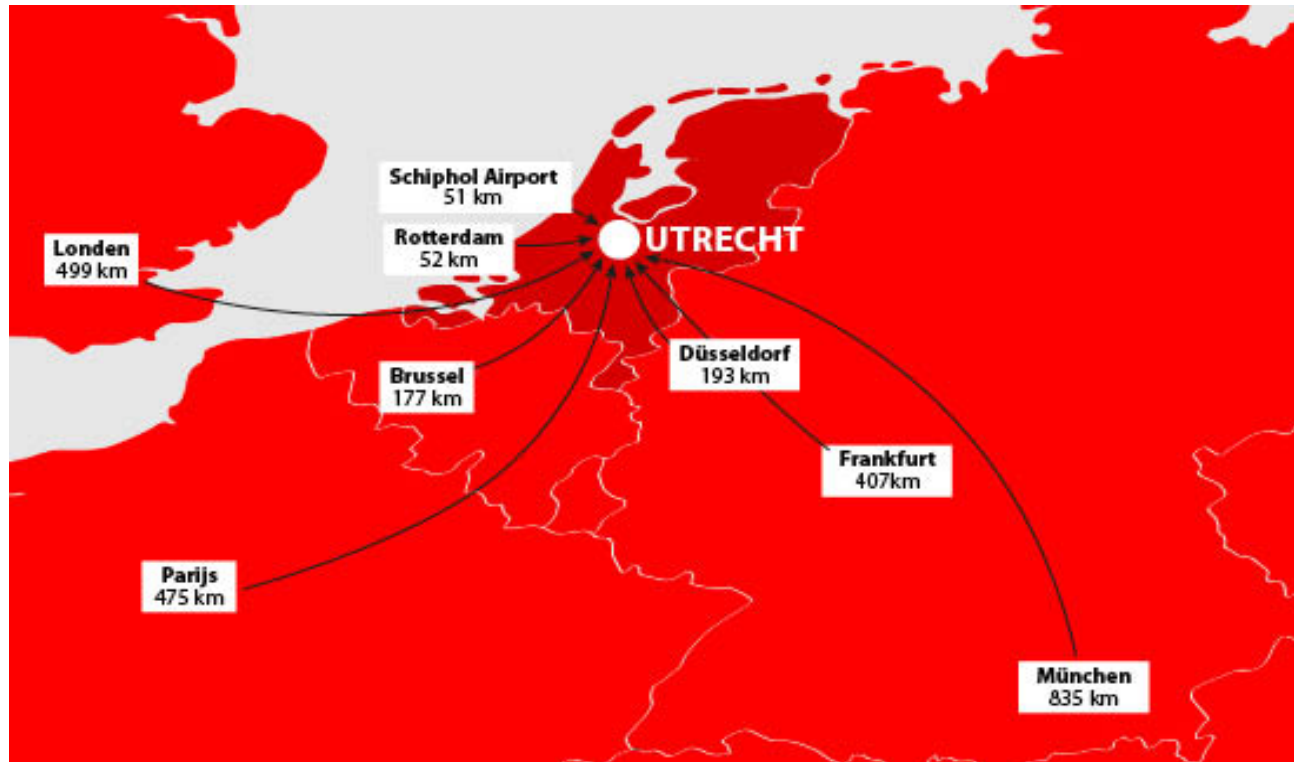
# SMART CITY EMBASSY



City of Utrecht

# Healthy Urban Living

## Utrecht Young & High educated



### 334.862 citizens,

20 % < 17, 18% 18-26, 32% 27-44, 20% 45-64, 10% 65 >  
45% high educated, 72.500 students UU&HU

Best University (Shanghai ranking 2014)

### 230.069 jobs

39.600 business services

36.300 health care

17.809 creative sector

20.934 jobs Utrecht Science Park

### 444.500 daily work commuters

By car 51%, 15% public transport, 34% by bike of other  
122.600 to the city

80.600 from the city



## Healthy Urban Living

Smart management of healthy growth

## Citizens, Travellers & Traffic Flow



332.000 => 400.000 residents



88 million => 100 million pro year



40.000 Cyclists pro day – Bicycle parking



440.000  
Work- & Live Commuter



# Healthy, Green, Smart & Connected

## Smart Environment – Smart Living



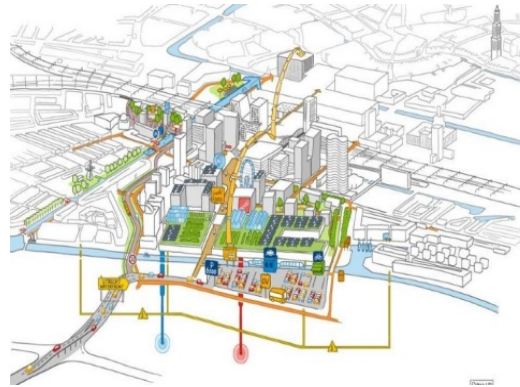
Healthy Urban Development



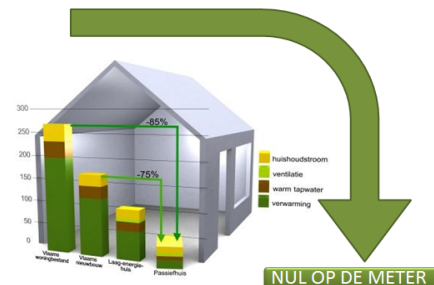
Healthy buildings

**UTRECHT**

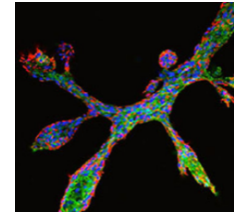
Station Area



Healthy Urban Boost



Health Hub



Care & Cure



Healthy People



# Healthy, **Green**, Smart & Connected

## Smart Mobility – Smart Environment



**Energy**  
**Mobility**  
**Electric Transport**  
**Smart Grids**  
**Solar Charging**  
**Green Rooftops**

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Healthy Urban Living

# Healthy, Green, Smart & Connected



Smart People: Innovation Hubs: EBU, knowledge institutes, companies, networks, citizens, government, crossovers in the green, healthy and smart domains

# UTRECHT





# SMART CITY EMBASSY



Den Haag



# THE HAGUE



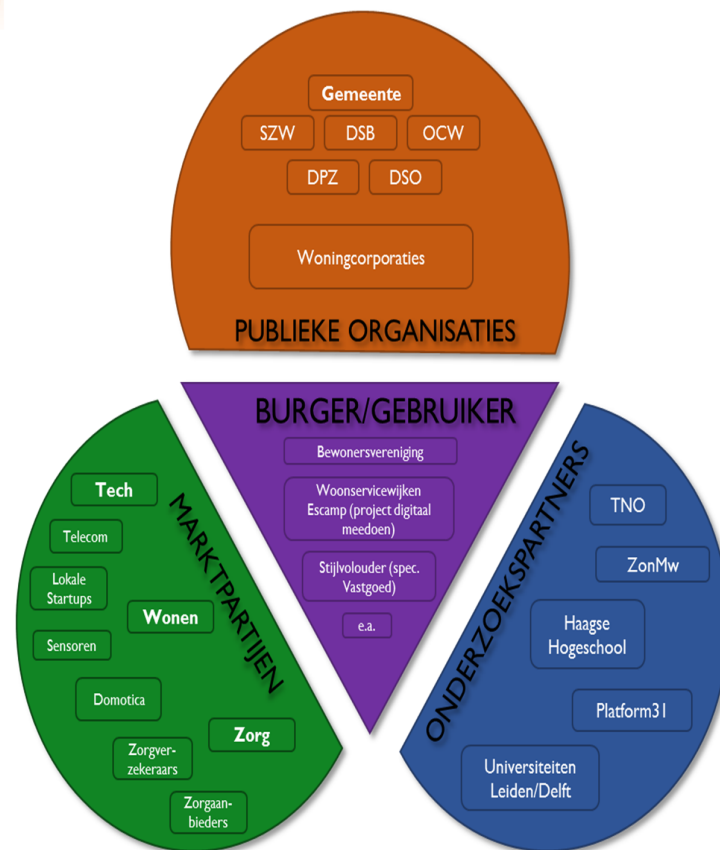
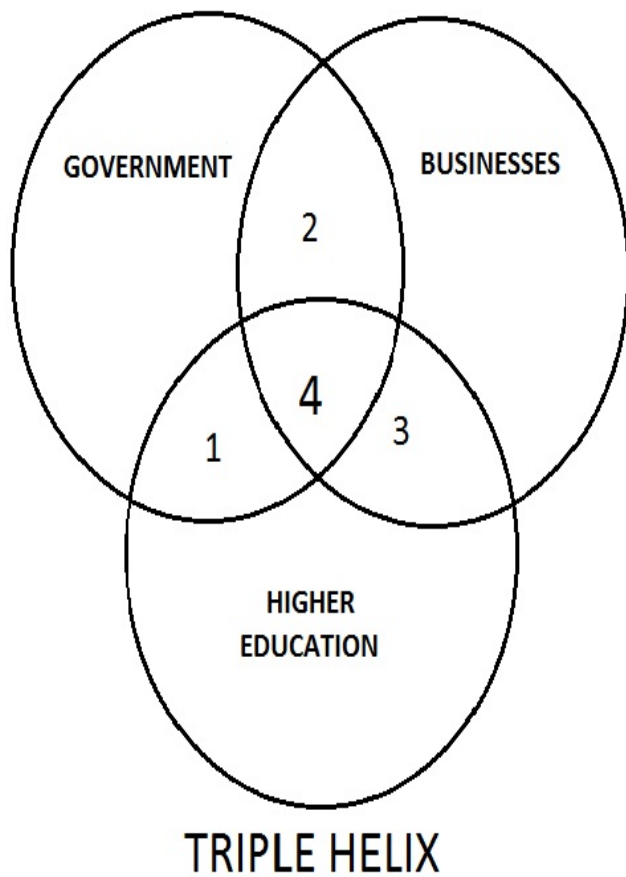


The Hague **Security** Delta









# SMART CITY EMBASSY



## Amsterdam Smart City

am **smart** erdam  
**city**

I **am**sterdam.

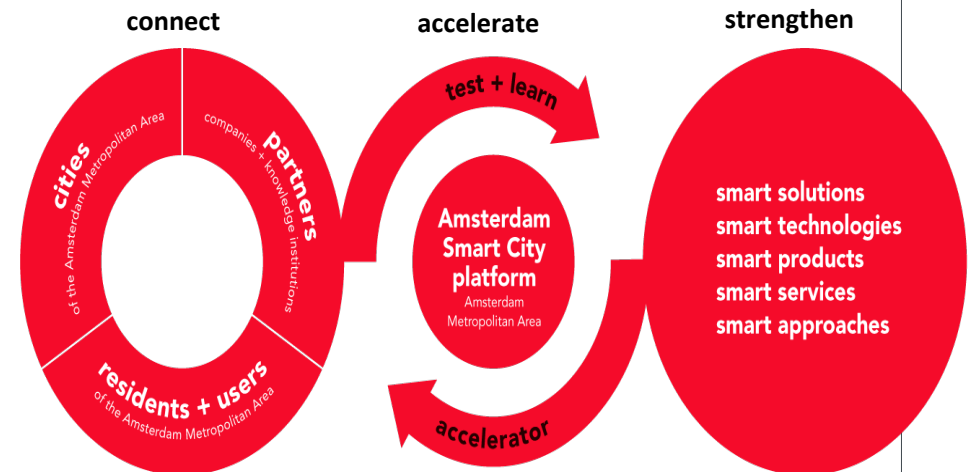
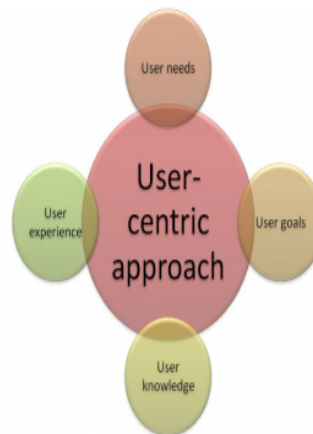


**Amsterdam Smart City (2008)** is a unique collaboration between the Amsterdam

- citizens
- businesses
- governments
- knowledge institutions

in order to illustrate how energy can be saved,  
now and in the future

- arms length of government
- open
  - platform
  - source
  - data
- cross silo – holistic approach
- end user centric approach
- facilitator – match maker





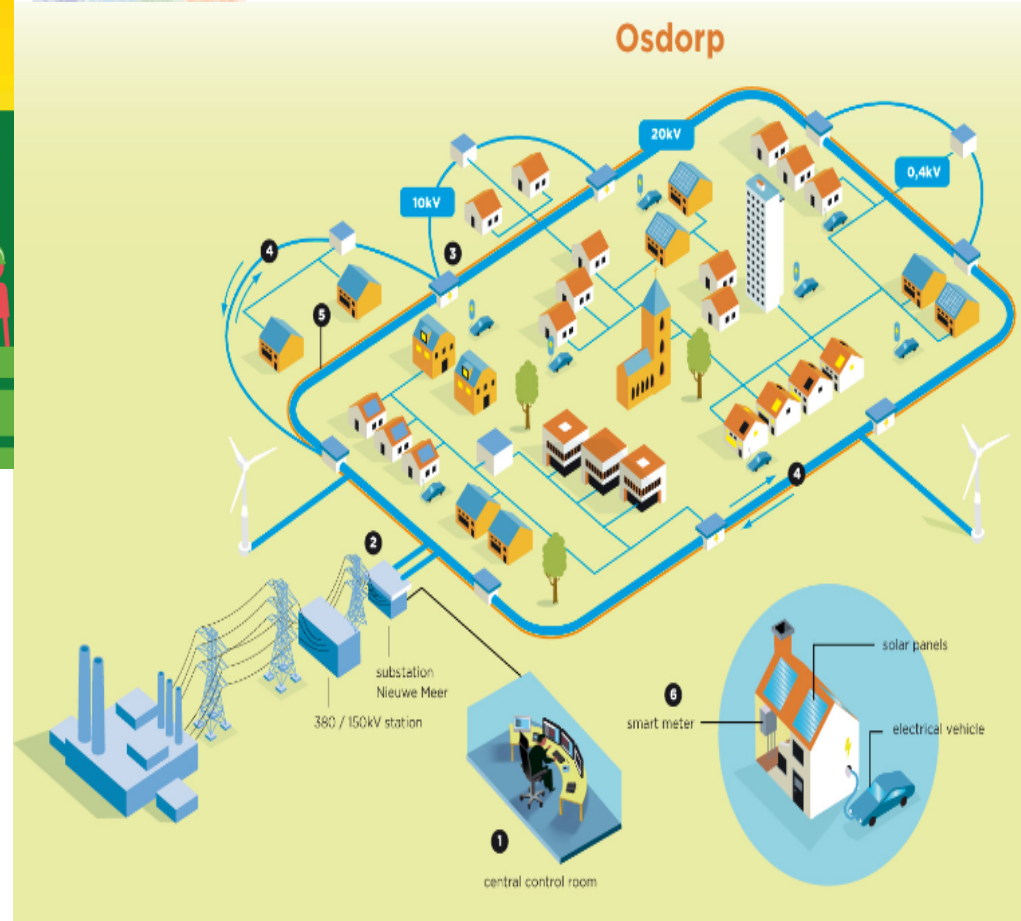
Energy, Water & Waste



UNIVERSITEIT VAN AMSTERDAM



Westpoort Warmte



Ministerie van Infrastructuur en Milieu





We aim at establishing 850.000 solar panels in Amsterdam



## Our ambition

A solar panel for every citizen of Amsterdam

Citizens of Amsterdam can choose for solar panels on someone else's roof



## The focus areas

Thinking big: what is needed to realize 850.000 solar panels?



Inform the roof owner



Make it simple



A professional approach



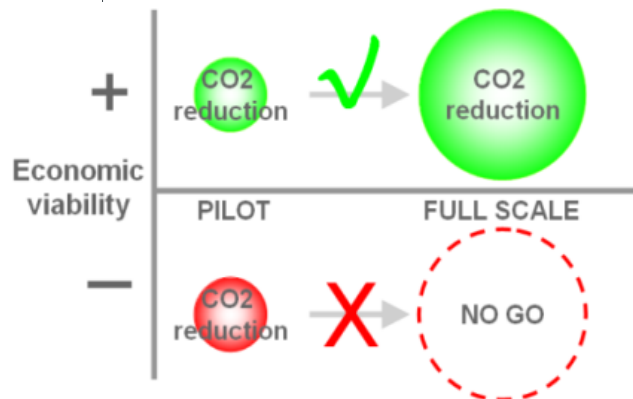
Work together with politics



Business models without investments







**no** open source  
**no** knowledge dissemination

**too** much focussed on technology  
technical feasible  
**not** financial feasible

**no** open data  
**no** active role

**not**

**not** scalable

**wrong** role of government

- **no** vision – political leadership
- **no** holistic approach engagement

**no** smart council  
**no** citizen

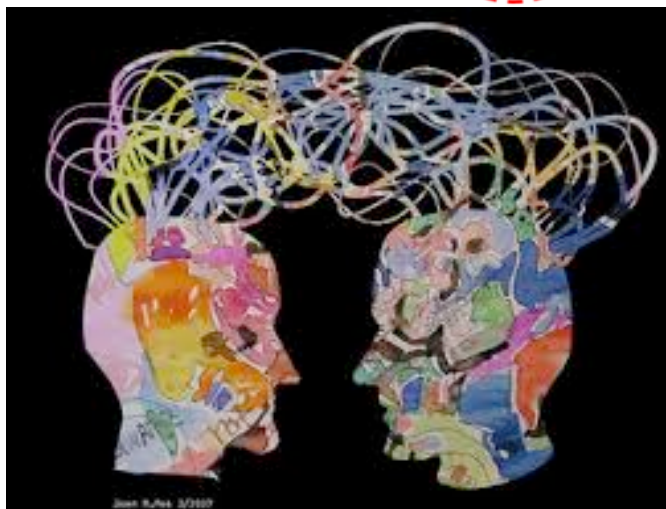
**wrong** timing – pol.

life cycle

## Criteria to become a Smart City Project

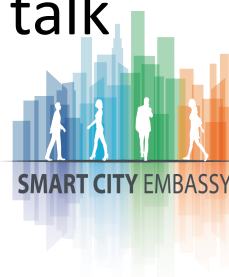
Improving the efficiency of city operations    Growing the local economy

**Contributing to quality of life for its citizens**



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EUROPEAN  
CAPITAL OF  
INNOVATION *A place to bring  
ideas to life*



The City is an **Open** Platform, **Open** Data, **Open** Source

Have a **practical** look and approach on what **does work** in  
**particular situation** and **act accordingly**

Approach, products and services are **User Centric**

Shift Ownership vs **Availability**

Allow for **failure & uncertainty**

