

Smart Cities as a platform

Shared Value Urban Solutions

Jan Wester

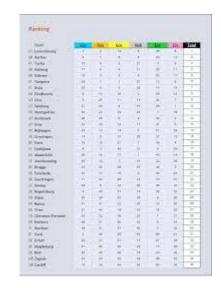




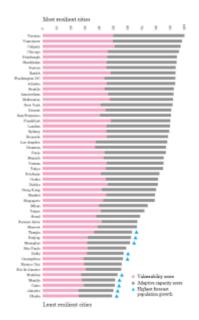




Why 'Benchmark' if you could 'Benchlearn'







City	Ranking	Score	City	Ranking	Stone
San Francisco, CA.		-86	Phoenix, AZ	18.	44
Seottle, WA.	2	- 81	Baltimore, MD	38	43
Mostengton, DC	1	91	Cotton, YX	21	60
Portland, DR	4	79	Mirreukes, WT	22	39
Doston, MA	- 1	77	Karses Dity, MD	22	30
New York, NY		72	ti Pero, TX	24	36
Atlanta, GA	1.2	50.	Charlote, NO	25	92
Denver, CO	1.0	65	Houston, TX	26	34
Plaburgh, PA		- 52	San Artonio, TX	26	34
Autilis, TX	10	60	Can Vigen, NV	28	33
San Diego CA	10	60	Oligherra City, OK	29	32
Abuqueque, NM	12	57	Louiselle-Jefferson, KV	29	10
Philadolphia, PA	13	55	Jacksonville, FL	29	32
Los Arigotos, CA	54	- 68	Fort Weets, 100	32	30
Sim Jose, CA	15	50	Columbia, DH	33	29
Nanhville-Davidson, TN	10	46	Indianapolis, IN	34	26
Tables, AZ	715	46	Monophis, TN	34	26)
Chicago, II	18	- 68	Detot M	36	26







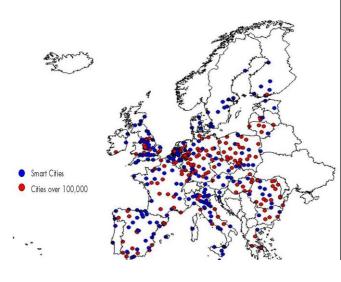
Mapping Smart Cities EU

Conclusions

- Of cities > 100,000, 51% have two or more Smart City initiatives in place.
- The objectives are aligned with those of city innovation &development strategies.
- More than two-thirds of sampled Smart City projects remain in the planning or pilot test phases.

Recommendations

- The need for research and evaluation to understand Smart Cities
- Governance required to manage and maintain a Smart City
- Policies to support the development of Smart Cities
- Support for replication, scaling and ecosystem seeding







Our Aim!

- Develop a 'benchlearning' cooperation between Cities
- Setting up of Shared Research Programmes using living labs, dataflow observatories (e.g. water, energy, mobility, waste, health), city dashboards and gameboards as platform of collaboration







Smart City Context: Advanced Metropolitan Solutions

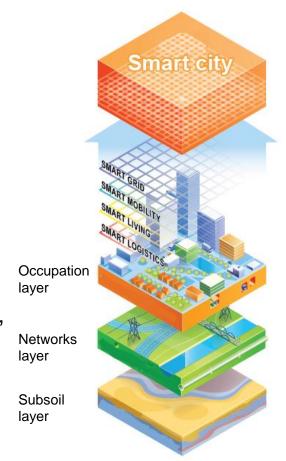


Smart City living lab

innovation for life

Smart city foundations and common Challenges

- Massive Societal challenges:
 Urbanisation, healthy aging and raising cost of cure and care, sustainable energy transitions and mobility solutions all call for system innovations
- Need for integral solutions and systemic approach.
- Driven by triple helix 'Shared Values'
- Using data and ICT's to share and connect!



Citizens, businesses, authorities, other stakeholders







"Lead domain" smart city living-labs



Realisation of multidisciplinary thematically scoped living-labs









Smart Urban Solutions require:

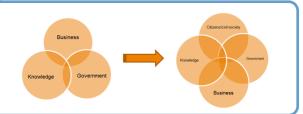
1. An integral approach

- Shared Value driven
- Trans-sectoral/Multidisciplinary
- Making use of Data, Data and...Data



2. in cooperation with stakeholders

- Innovative combinations unusual suspects
- Creating Shared Value
- Key stakeholders as strong replicators



3. leading to solutions with <u>measureable impacts</u>

- Flowboards (single domain/operational value)
- "City Dashboard" (multi-domain / impact and policy values)
- Game boards (Governance /

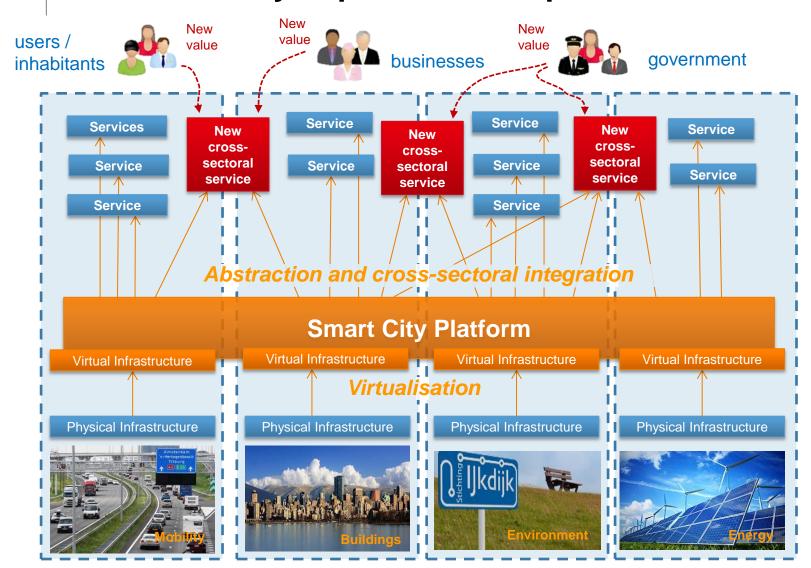








The Smart City implementation platform

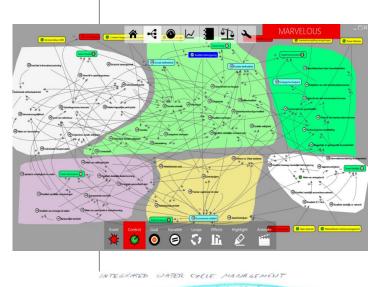








Dataflow observatories: (flowboards, city dashboard and and gameboards) for integration and structuring urban complexity

















Are Smart cities about Technology?



NO!

The Smartest city is the city that shares it's problems

with citizens, entrepreneurs and knowledge institutes







Systemfailure Systeminnovation

- Companies and Authorities struggle with transformations en transitions
- Many pilots but no convergence and common 'Next steps'
- ❖Societal challenges: problems have to be turned into opportunities
- **❖Complexity creates freeriders** activation based on direct valuecreation
- **❖Sectoral regulation cramps** cross- and trans-domain solutions designed from need.

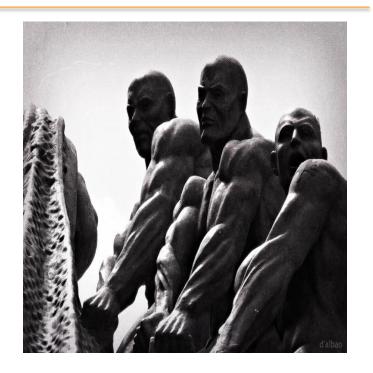






Valuecreation!

- Activation from direct value creatie
- Turn societal Challenges into opportunities for entrepreneurs: Participation is key!
- Let unususal suspects interact cross- domains
- Societal Value Case: Trade-off between public and private interest enhances sustainability
- Invest instead of subsidize: launching customership and setting ambitions is key to kickstart









Use regional ecosystems!

- Systeminnovation always starts regional
- Trust and vicinity
- Re-humanise, back to basics, start from need
- Urgency most tangible;
- Connect triple helix and ability to absorb
- Use regional strength to leverage the total







Societal Challenges as starting point

- (semi) public authorities as launching customer
- Strong urgency, big impact en complex by nature
- Turn challenges into entrepreneurial opportunities

Link Regional Spearheads to (inter)national ambitions:

- local strenghts and ecosystem
- Regional complementarity
- National competativeness

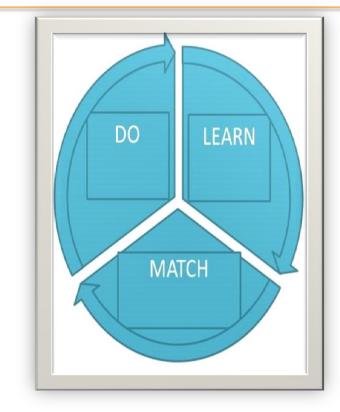






Value center/platform approach Pragmatic approach

- Do: learn by doing, activation through real projects, direct value creatie
- Match: Interaction between unsual suspects; creating a new comfort zone, building a new ecosystem.
- ▶ From projects to programmes
- Learn: Education & Research .Common learning curve.







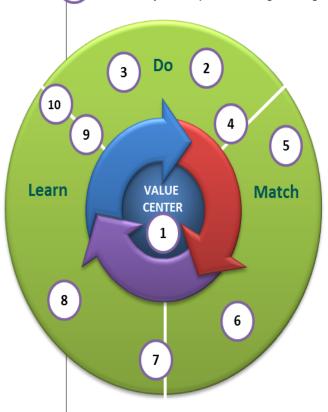


WAT: Overall regie, programma- en project management, regelen funding (ook richting MKB)

HOE: (Start)bijdragen key-partners, m.n. overheden

WAT: Challenges, organisatie van de marktplaats (richting MKB)

HOE: Project- en procesmanagement gefinancierd door Challenge-uitzetters, success fees



WAT: Innovatieve ontwikkelingsprojecten
HOE: Bijdrage voor project- en procesmanagement,

acceleratie valorisatie, success fees

WAT: Gemeenschappelijke visieontwikkeling HOE: Workshops, white papers, manifesto

WAT: Netwerkborrels (organisatie, hosting, catering)
HOE: Gratis voor deelnemers, sponsoring mogelijk

WAT: Show- en demo innovaties
HOE: Bijdragen toeleverende partijen

WAT: Congressen (organisatie , hosting, catering)

HOE: Deelname fee / sponsoring

WAT: Joint-labs: Onderzoek door bedrijven en studenten

HOE: Verhuur labs, procesmanagement

WAT: Incubator MKB (kantoorruimte (DO), coaching (LEARN)

HOE: Huur (naar rato succes?), fees for coaching (idem)

WAT: Leer/werk omgeving voor o.a. MKB (DO/LEARN)
HOE: Verhuur ruimten, procesmanagement

Collaboration: 'benchlearning' between Cities

Transformation = learning

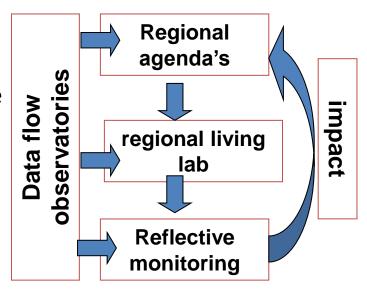
In order to cooperate we need to combine tools in a

Benchlearning strategy:

- 1. Regional (policy) ambitions / strengths
- 2. Local living labs and shared value platforms
- 3. Benchlearning: Applying a reflective "monitoring and evaluation" methodology to monitor, validate and learn

What to do interregionally?

- Shared innovation programme's using mirrored living labs
- Developing instrumentation on "shared Value" process from regional contexts
- Create 'market places' for SME's to scale up









Thanks for your attention

Jan Wester Principal strategist

Jan.wester@tno.nl

