

BCNET at the Intersection of Smarter Cities & Learning Cities

Pre-Conference Workshop, 25 April 2016

Facilitator: Patricia McKenna, AmbientEase

BCNET Annual Higher Education IT Conference

An **UrbanitiesLab** Initiative

April 26-28, 2016, Vancouver BC CANADA

Workshop Activities

- 1 Introductions
- 2 Background & Context
- 3 Small Group Discussions
- 4 Report Back
- 5 Next Steps
- 6 Fieldtrip – CityStudioVancouver
 - Urban interaction opportunity
 - Studio hosting & Sharing – Duane Elverum
 - Group Discussion

Introductions

Tell Us About You

1 Name

2 Affiliation(s)

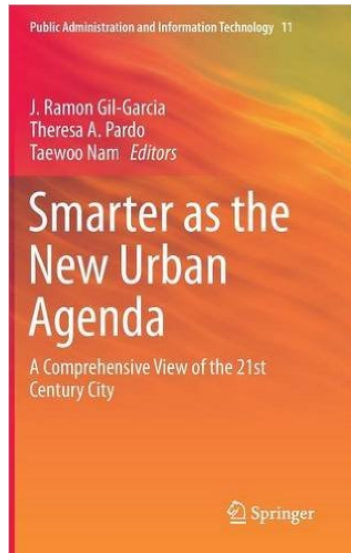
3 What attracted you to this workshop?

4 Interests in Smart Cities / Learning Cities

Background and Context

Smart Cities and Learning Cities

Globally



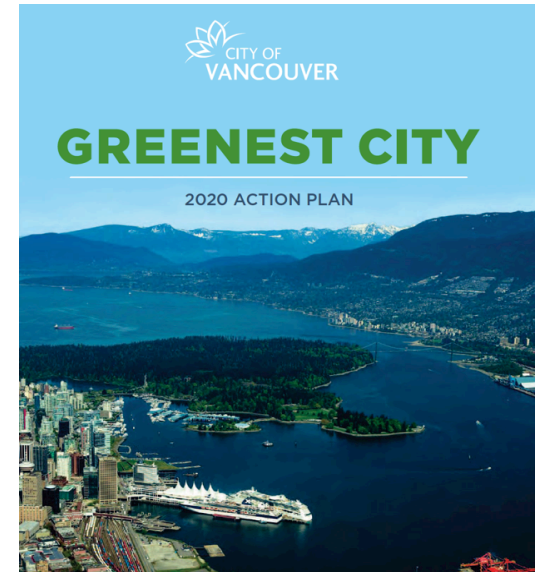
Rapid urban growth

Challenges & opportunities

Chapter 5:

Rethinking learning in the Smart City¹

Locally



bit.ly/1f31z69

"Its up to everyone to do their part, to rethink, re-evaluate, and re-imagine the way Vancouver works and how we lead our lives." ~ 2012

Definitions

Smartness and Smart Cities

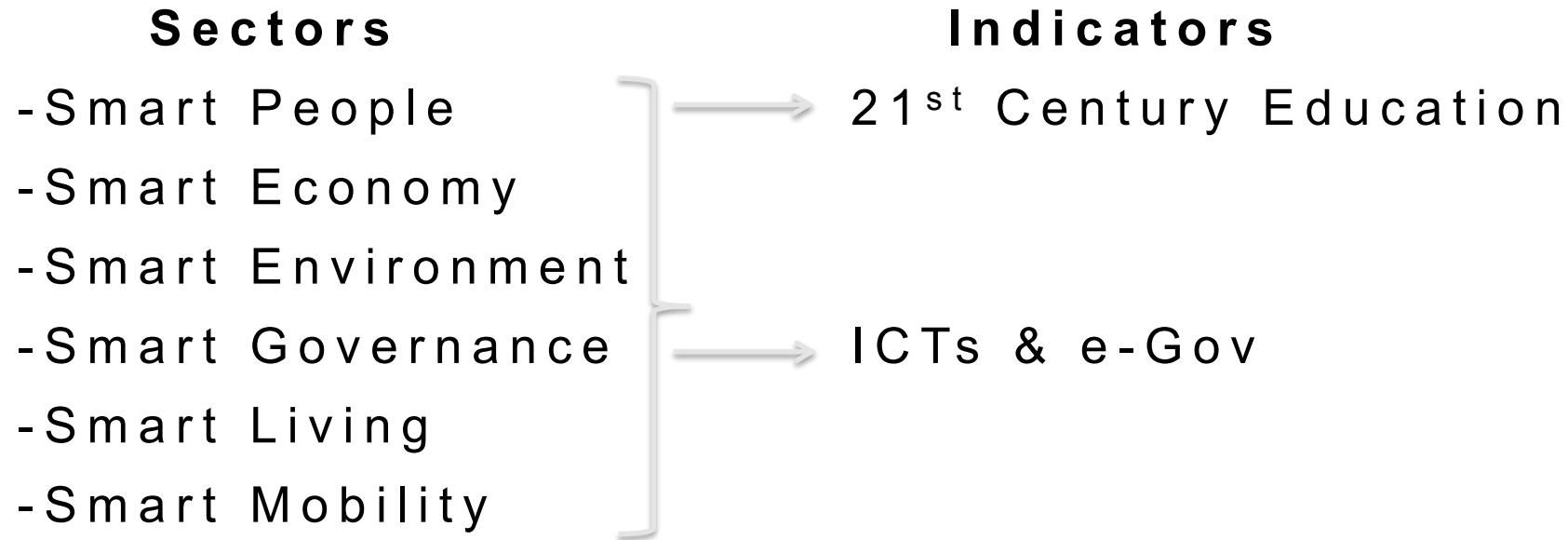
- **Evolving** Public sector innovation in urban contexts¹
- **Cohen** Technology 1.0-Cities 2.0-Co-Creation 3.0²
- **UN Habitat III** (sustainable urbanization)
Issue Papers – Smart Cities³
Attributes infrastructure (technology/people)
livability, social, sustainable, vibrant, walkability
Approaches energy, buildings, transport, education,
water, waste, safety & security, and healthcare
- **Characteristics** boundary-crossing – collaboration
adaptability – complexities – uncertainties

“Cities without people are not cities at all”⁴

Dimensions & Indicators

Smart Cities / Learning Cities⁵

Cohen's Smart City Wheel²



Learning cities human infrastructure; “people & how they interact”; social, awareness & education⁵

Indices and Ranking

Smart Cities / Learning Cities

- **SmartCitiesCouncil.com**
 - Livability-Workability-Sustainability
- **SustainableCitiesIndex.com 2015**
 - Social-Environmental balance for Profit-People-Planet
- **Cities in Motion Index** – bit.ly/1MPp8kw
 - Sustainability-Innovation-Equality-Connectedness
- **GaWC – Globalization & World Cities**
 - Alpha-Beta-Gamma rating – connectivity bit.ly/1YJCSSN

Urban Challenges where do cities begin & end

- UrbanTheoryLab.net
- New Map for America – 7 mega-regions⁶

Smart Cities / Learning Activities

Globally

MOOCs

- Designing Cities – US
- Future Cities – Zurich/Singapore
- Geographicity – France
- Next Gen Infrastructure⁷ Netherlands
- Smart City Metrics – Mexico

Twitter – City initiatives

- Parsons DESIS Lab, NY (30 partners)

Other Courses & Literature

- Open University, Smart Cities course
- Cambridge Jnl Regions, Econ & Society, 2015 – bit.ly/1U6MwzV

Locally

City of Surrey 2016 Top 7 Intelligent Communities indicators: bit.ly/1Gmlxb8

Globe2016 Conference Vancouver

- “Catalyzing collaborations between unusual suspects”

SenseTecnica* – IoT Platform

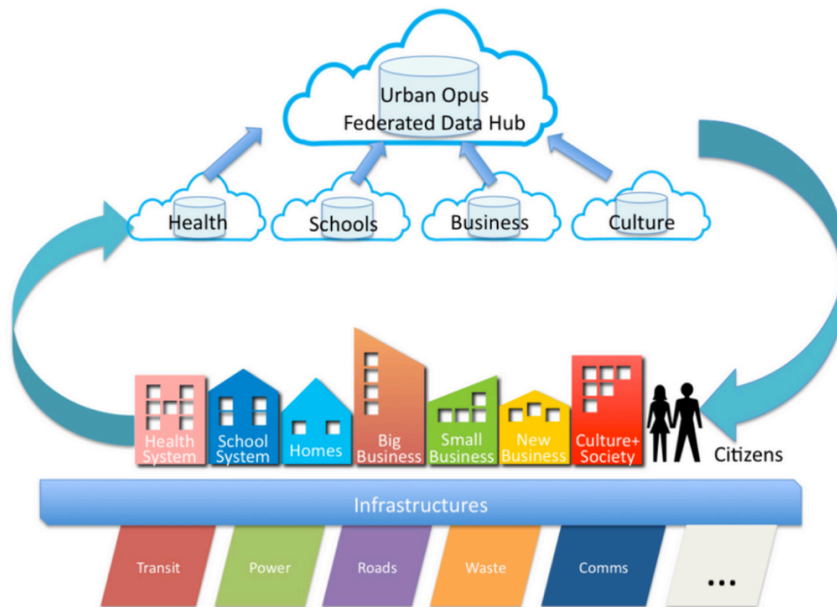
Inverse Infrastructure – bottom up, user-driven, self-organizing⁷

***A smart city** is “about working smarter to better meet the needs of the citizens”

Problem areas – infrastructure & citizen data – exposing, sharing & using

~ Rodger Lea, UBC / SenseTecnica bit.ly/24bttar

Smart & Learning Cities Locally



Future of Cities bit.ly/1U9WMHy

SenseTecnic & UrbanOpus



bit.ly/1qI7f14

BCNET⁸

Expanding Campus and Network Connections

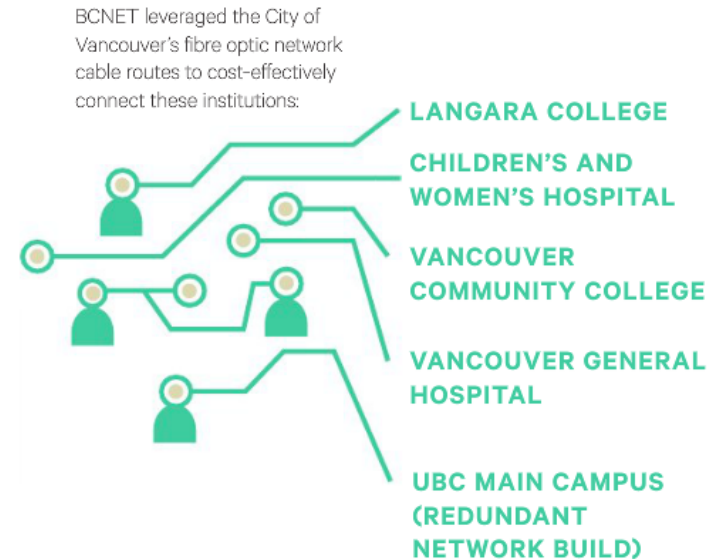
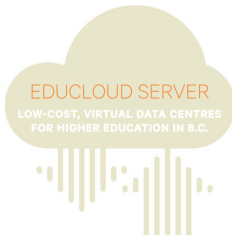
**CONNECT THE ENTIRE
PUBLIC, POST-SECONDARY
SECTOR TO THE
ADVANCED NETWORK**

City Partnerships (2014)

Support CANARIE Prince George – Seattle

Cloud Computing

Conferencing



Discussion Groups & Report Back

Discussion Small Groups (10–15 people for 20 min)

BCNET for Smarter Cities/Learning Cities

-- Actually and Potentially

Report Back

- Key themes
- Issues
- Opportunities

Next Steps

Please provide feedback to:

BCNET about this workshop:

Survey – bit.ly/1Sn6EsK



Patricia McKenna mckennaph@gmail.com

Survey – bit.ly/1StZtEz

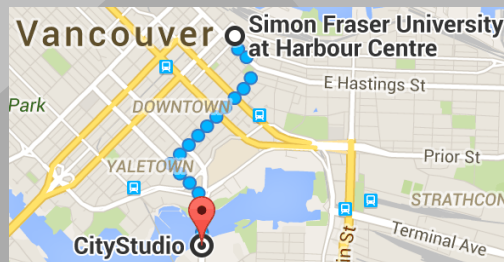


Download this presentation & keep talking

bit.ly/1MKEzPo



CityStudioVancouver.com 1800 Spyglass Place



1.9km walk 23 min via Cambie

Thank You!

References

- ¹ Gil-Garcia, J.R., Pardo, T.A., Nam, T. (2016). *Smarter as The new urban agenda: A comprehensive view of the 21st Century city*. Springer.
- ² Cohen, B. (2012). What exactly is a smart city? *FastCompany Co-Exist*. <http://bit.ly/1h6WAGg>
- ³ UN. (2015). Habitat III Issue Papers, 21 – Smart cities. UN Conference on Housing & Sustainable Urban Development. NY, NY: UN-Habitat, UNDP, & ITU.
- ⁴ Vander Veen, C. (2015). Without smart, connected people there are no smart cities. *GovTech, FutureStructure*, bit.ly/1B9FbWO
- ⁵ Nam, T, Pardo, T.A. (2011). Conceptualizing smart city with dimensions of technology, people, and institutions, bit.ly/1YJdMn5
- ⁶ Khanna, P. (2016). A new map for America. *NYTimes*, <http://nyti.ms/26fxywh>
- ⁷ Egyedi, T.M., Mehos, D.C. (Eds.). (2012). *Inverse infrastructures: Disrupting networks from below*. Edward Elgar Pub.
- ⁸ BCNET. (2015). *BCNET 2014-2015 Annual report*.