

Fostering Community Wellbeing within Smart and Connected Cities: A Conceptual Model



Thomas Doherty, Psy.D. / Sustainable Self, LLC
Portland, Oregon



Global Tech Jam
September, 10 2019



History: Introducing Health and Wellness at the Tech Jam in 2018

Panel: Opening up a Dialog on Environmental Health and Equity

Global City Teams Challenge Tech Jam
Portland, Oregon
June 22, 2018



TECHNOLOGY
ASSOCIATION
OF OREGON

Smart Cities & Health?

We Asked Obvious Questions

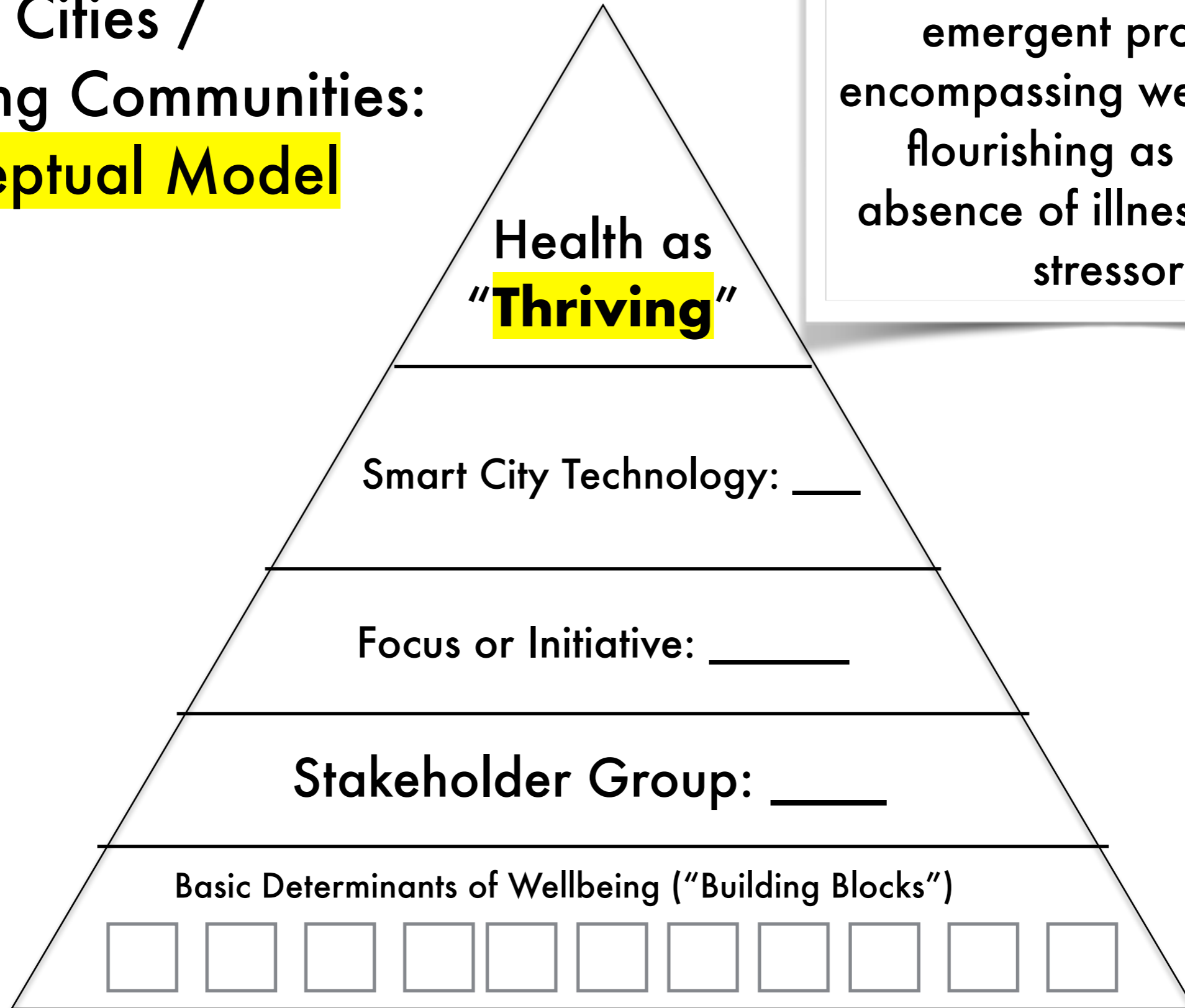
- Connected Cities and IoT: **Health Benefits** and Co-Benefits?
- Needs of **Different Groups** and **Ages**?
- **Negative Consequences** (Known or Unintended)?
- How to **Educate** and **Build Support** for Smart Cities Initiatives?
- How to **Partner** with local government, NGO's and grass roots groups?

We Asked Deeper Questions

- What are People's **Beliefs and Attitudes** about Technology?
- How to honor **Cultural Diversity**?
- How to address **Health Disparities**?
- How to overcome **Durable Inequalities**?
- Implications for **the Environment** and other Species (including Resilience to Disasters and impending Climate Disruptions)?

Smart Cities and Health Conceptual Model

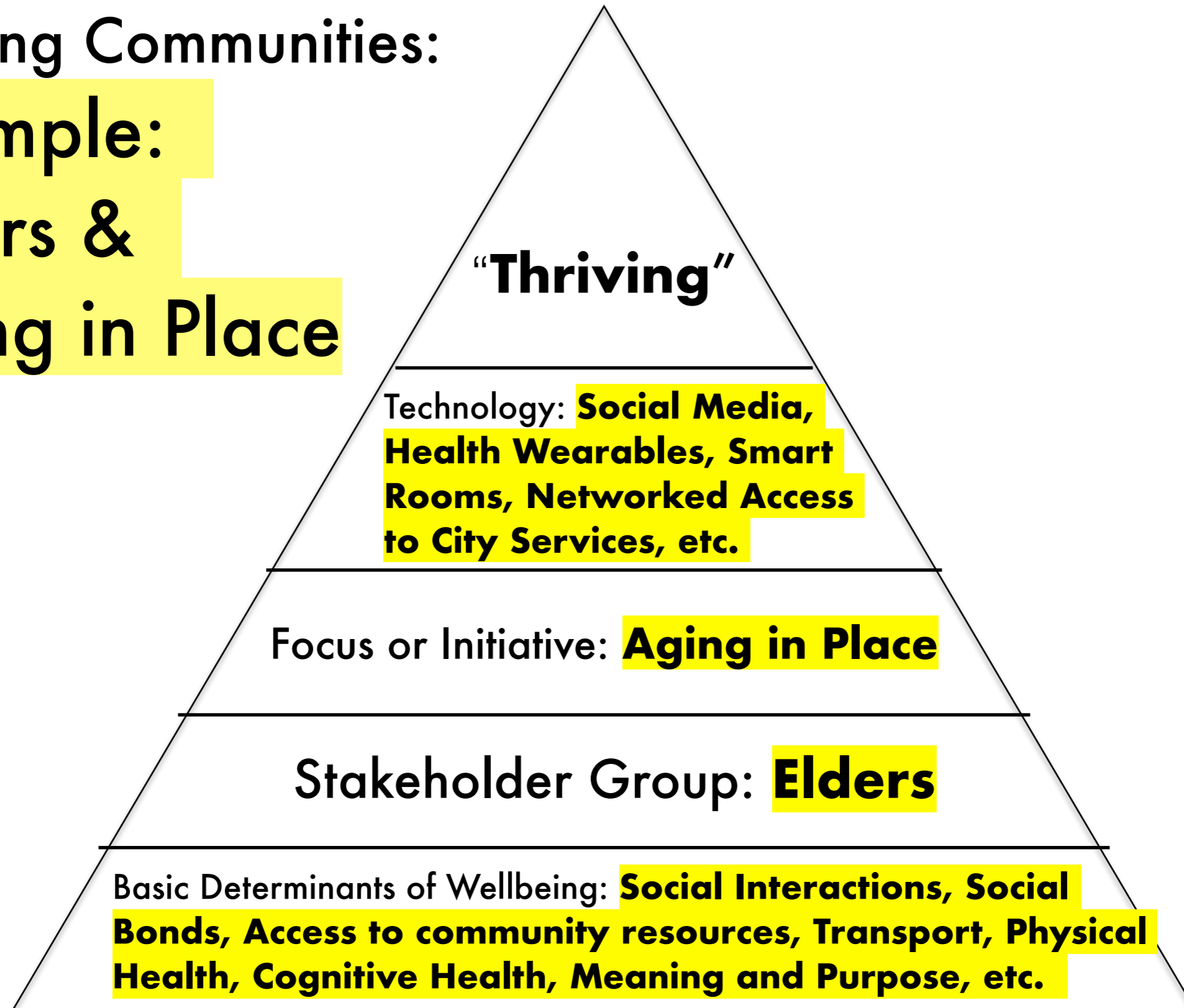
Smart Cities / Thriving Communities: Conceptual Model



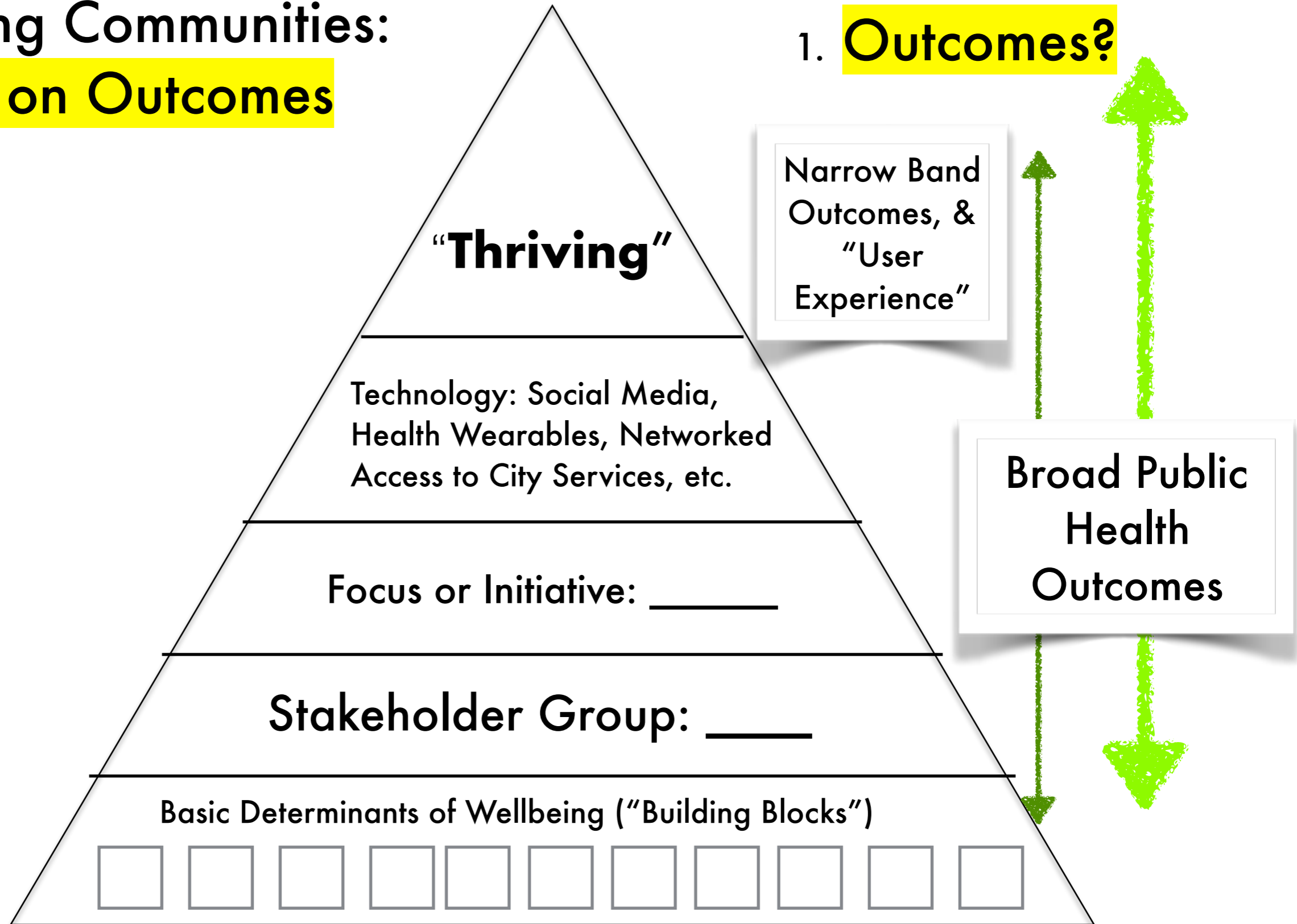
Health as Thriving – An emergent property, encompassing wellness and flourishing as well as absence of illness or toxic stressors

Smart Cities / Thriving Communities:

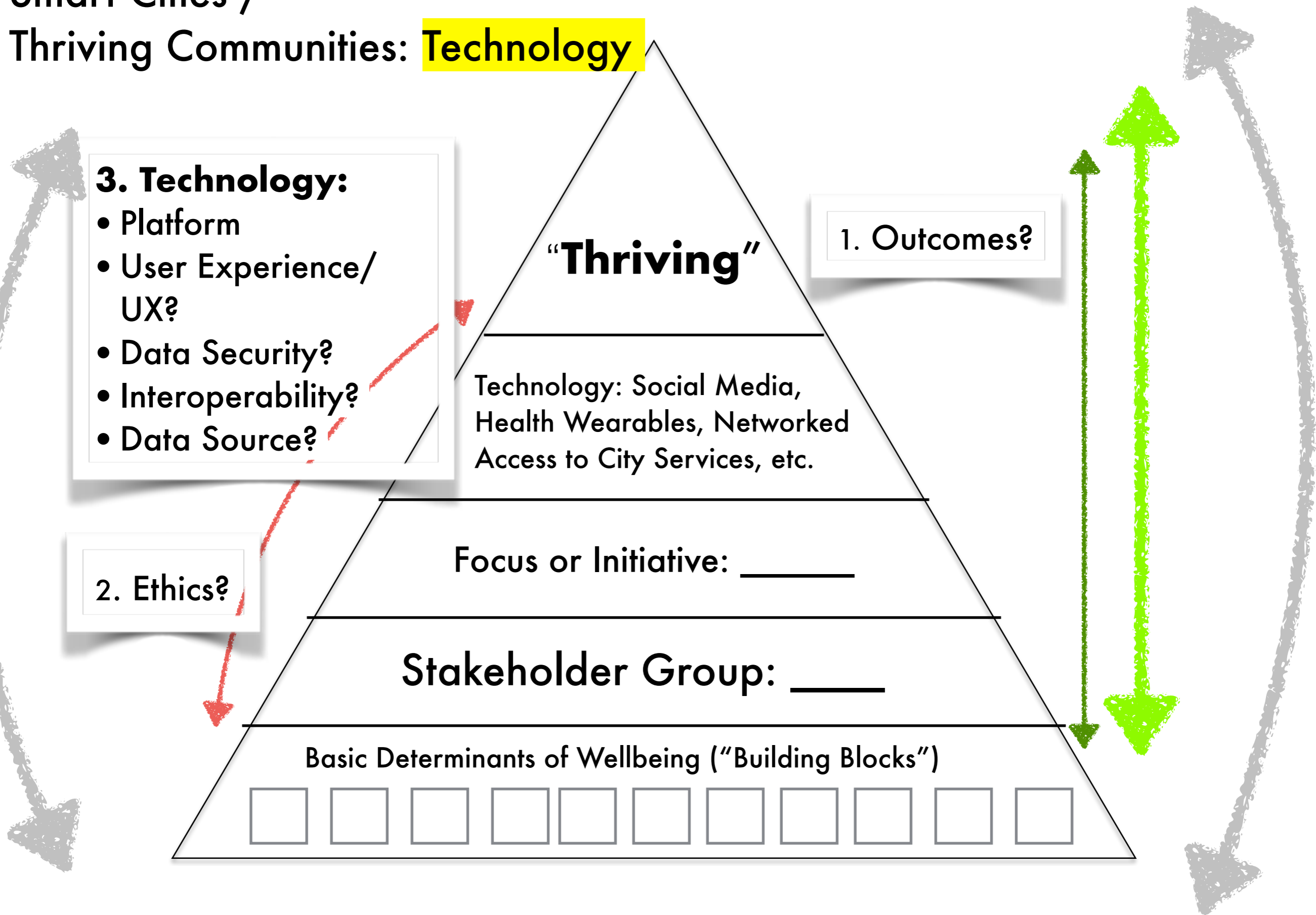
**Example:
Elders &
Aging in Place**



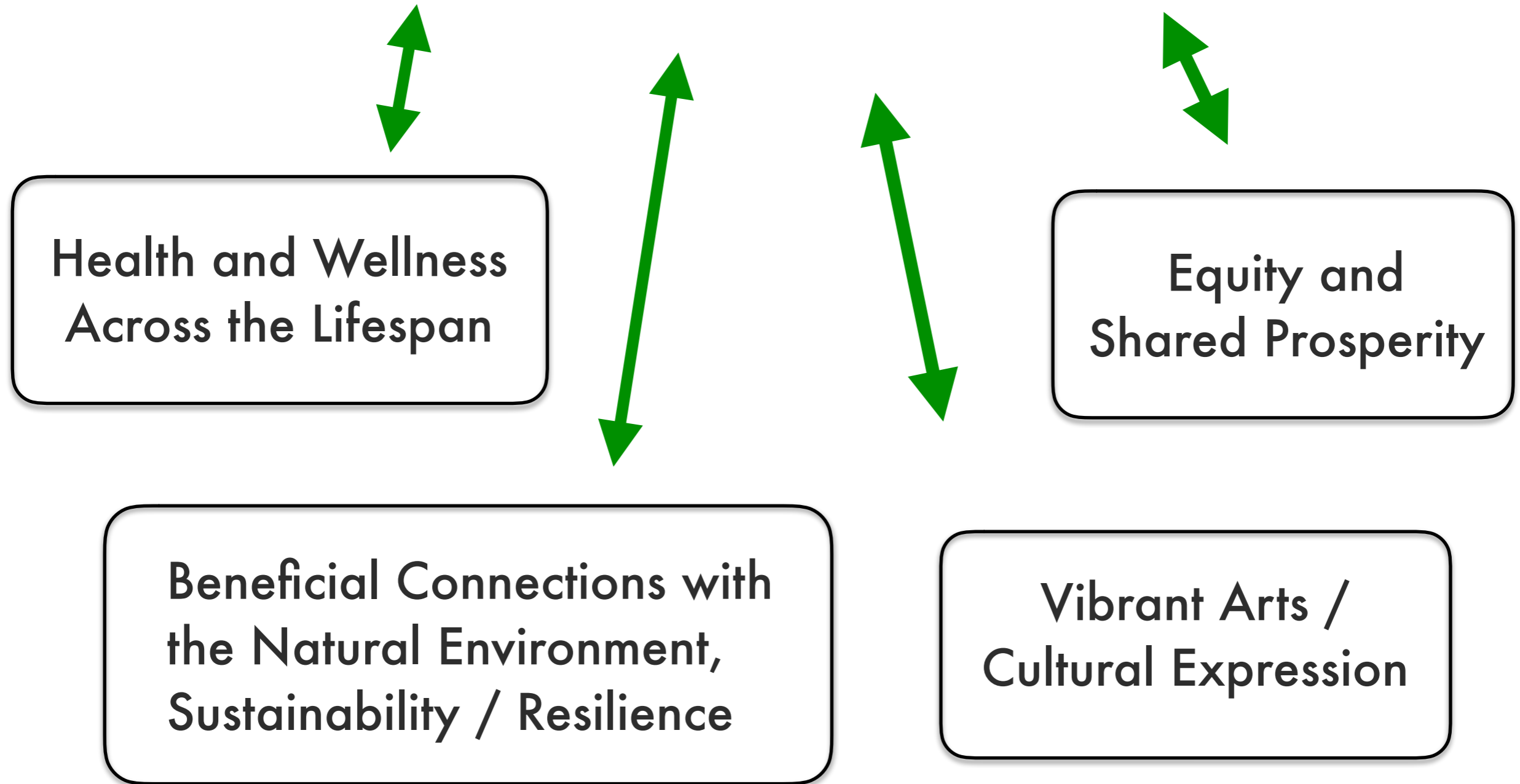
Smart Cities / Thriving Communities: Focus on Outcomes



Smart Cities / Thriving Communities: **Technology**



GCTC Thriving Communities Supercluster Vision



“Thriving cities and communities are smart. ‘Smart Cities’ aren’t necessarily thriving.”



How to use “High Tech, Low Tech, and No Tech” Strategies ...?



GCTC Action Cluster

Examples

Aging in Style / Waterfront Village: Washington, DC

Integrates technology into the organizational structure and functioning of a senior village organization as a model "Aging-in-place" project.



Breaking the Code: The UN-Hackathon: Portland, Oregon

Multnomah County, Oregon partnering with the Technology Association of Oregon to host a community collaborative problem solving event and ongoing, community-based technology incubator.



Next Steps

How do we Make the Case and Shape the Narrative to include Health & Wellbeing Across the Lifespan?



Smart Cities / Thriving Communities: Implications for Healthcare?



How do we Make the Case and Shape the Narrative to include Equity & Shared Prosperity?



How do we *Make the Case* and *Shape the Narrative* to include *Nature, Sustainability and Resiliency*?



2019

AMERICAN FORESTS
STRIVES TO
ADVANCE TREE
EQUITY IN DETROIT



AMERICAN FORESTS
- SINCE 1875 -

How do we Make the Case and Shape the Narrative to include Vibrant Arts and Culture?



How do we *Make the Case* and *Shape the Narrative* to include *Thriving*?

**LOVE
MY CITY**



Seeking Smart Cities Projects – Worldwide – that Address...

- Health Care
- Well Being across the Lifespan
- Nature & Sustainability
- Public Health / Air Quality
- Racially Marginalized Communities
- Rural Communities and Settlements
- Vibrant Arts & Culture
- Community Data Security & Privacy
- Resilience to Disasters and Climate Impacts
- Equity and Shared Prosperity

Thomas J. Doherty
Sustainable Self, LLC

Portland, Oregon, USA

503-288-1323

thomas@selfsustain.com



Notes

GCTC Health Cluster Planning Image (Original Vision)

Health as an emergent property, variously defined, encompassing wellness and flourishing as well as absence of illness or toxic stressors

Ethics Check #1:
Does the Smart City Initiative Improve Health, How?

Ethics Check #2:
Could the Smart City Initiative Undermine Health or Impact a Vulnerable Population?

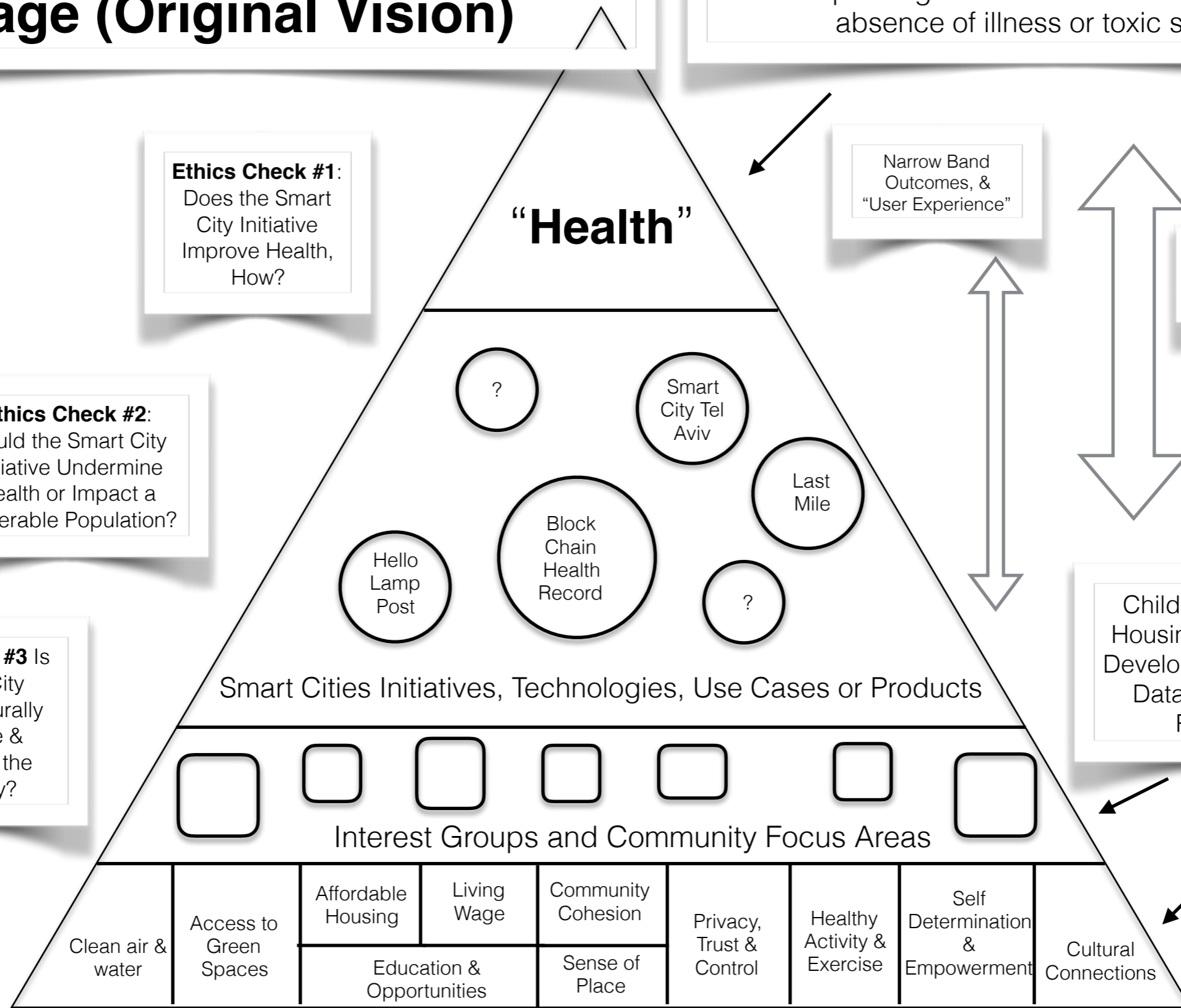
Ethics Check #3 Is the Smart City Initiative Culturally Appropriate & Powered by the Community?

Narrow Band Outcomes, & "User Experience"

Broad Public Health Outcomes

Children, Elders, Nature, Housing, Equity, Economic Development, Public Safety, Data Security, Disaster Response, etc.

Universal and Unique to Communities



Basic Building Blocks of Health