

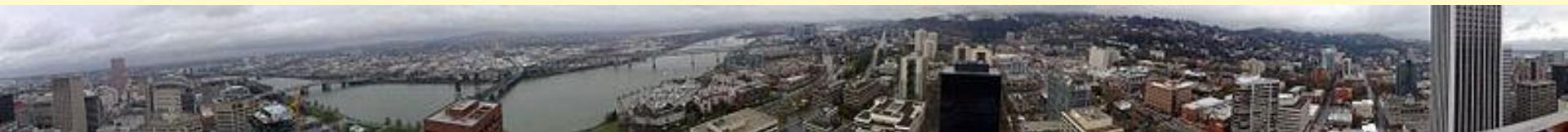
*National Academies of Science and Engineering
Pathways to Urban Sustainability in Portland*

The role of research in urban policy

Jonathan Fink

*Vice President for Research and Strategic Partnerships
Portland State University*

May 29, 2013

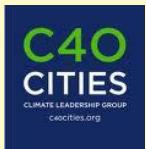


Urban solutions can come from four sectors

Governments

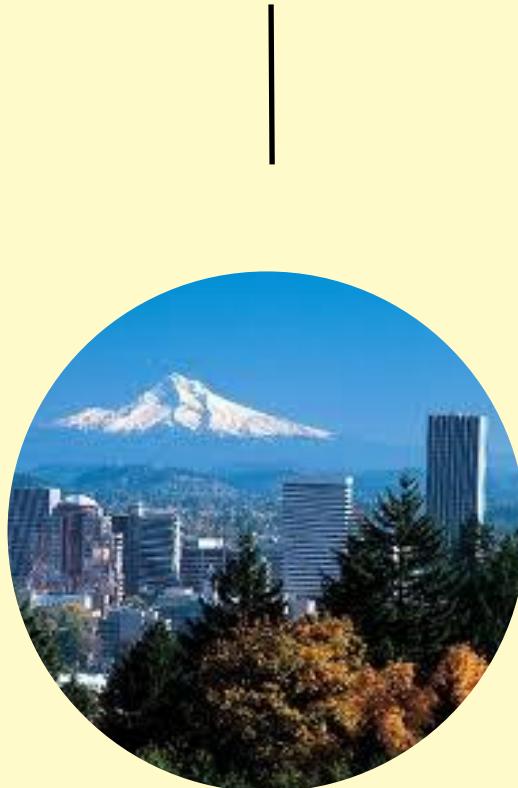


NGOs

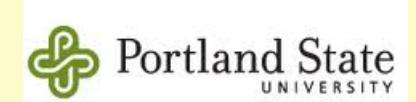


clean economy solutions

Advancing America's Economy Region by Region



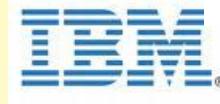
Universities



Corporations



ZGF
ZIMMER GUNZUL FRASCA ARCHITECTS LLP



Urban solutions can come from four sectors

Governments

Fund basic research

Fund applied research

Set policies and laws

Fund infrastructure

NGOs

Define positions

Fund applied research

Conduct applied research

Disseminate results



Universities

Conduct applied research

Conduct basic research

Manage campus 'labs'

Inform public policies

Corporations

Fund research

Conduct research

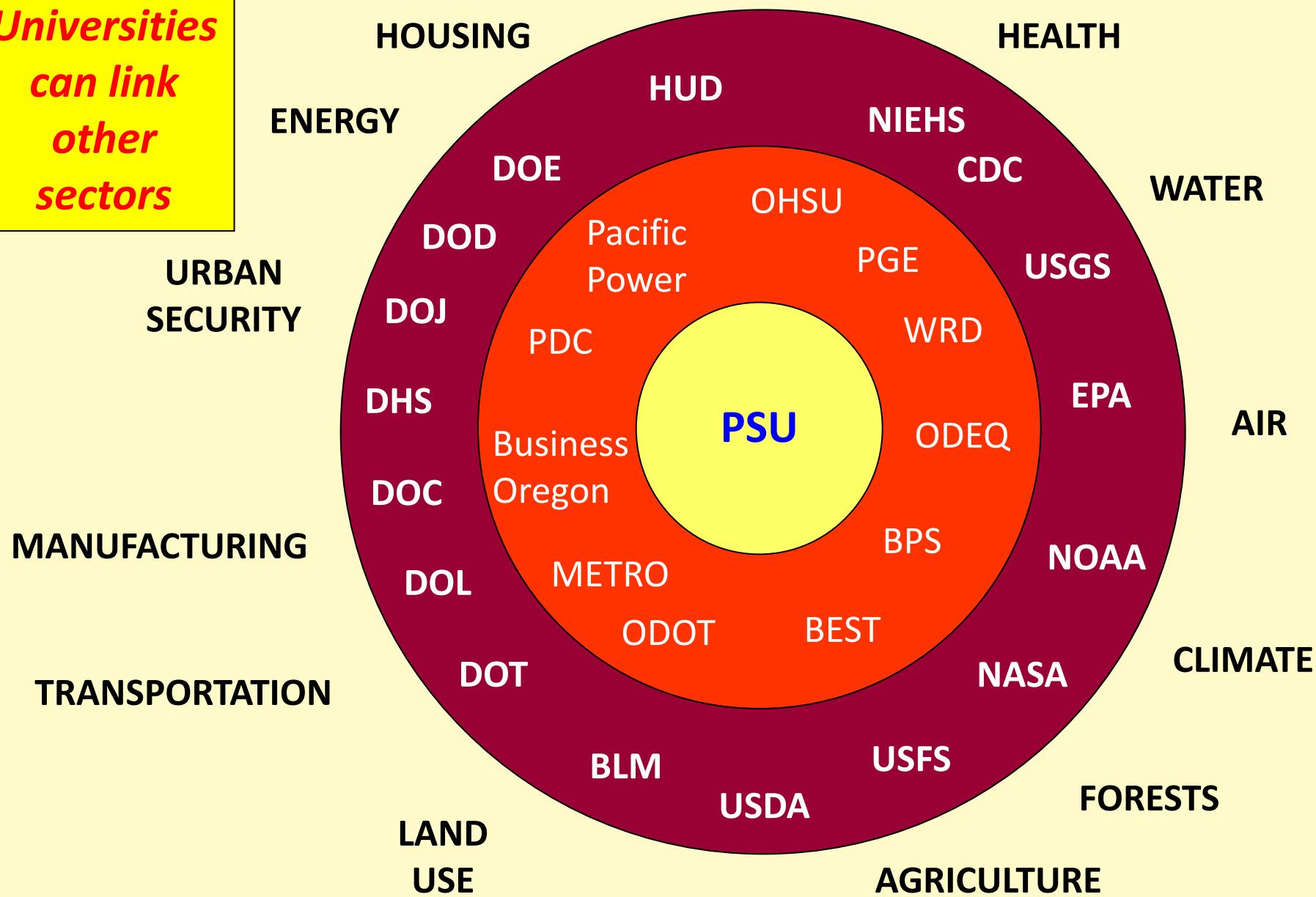
Invent technologies

Create markets

Research and Strategic Partnerships

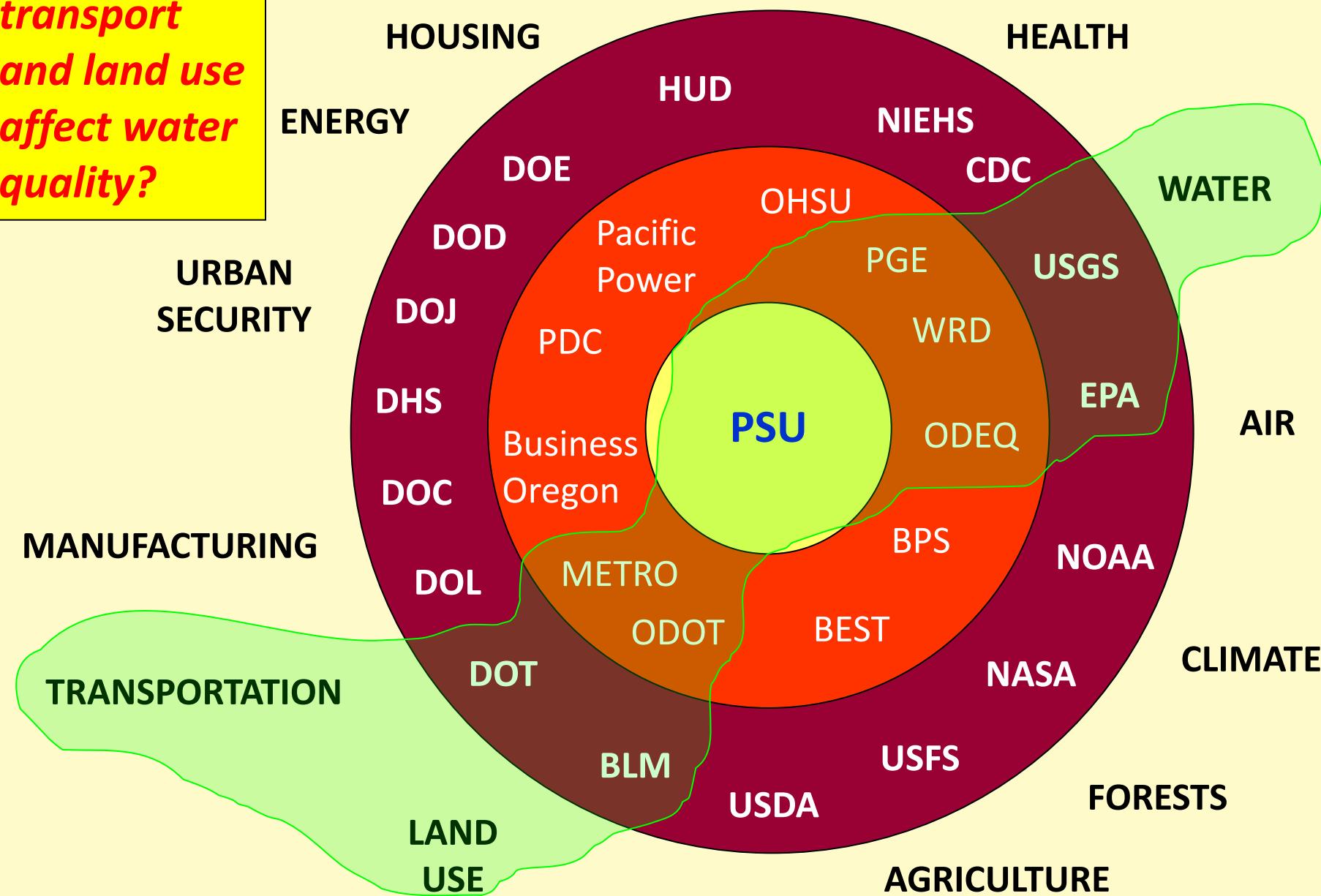


*Universities
can link
other
sectors*



How do urban transport and land use affect water quality?

and Strategic Partnerships



Do We Need an “Urban Genome Project”?

- Human Genome Project (HGP) sought to cure human diseases
- Urban Genome Project seeks to cure planetary diseases
- Each person has unique characteristics embedded in DNA
- Each city’s unique characteristics are reflected in its “DNA”
- HGP required multiagency and private sector funding
- Urban Genome Project needs multi-sector support
- But who oversees it? Federal agency, global NGO, academia?



Conclusions

- Four sectors address urban sustainability complementarily
- The sectors differ in how they fund or conduct research
- Federals, companies, academia can create a science of cities
- Universities and foundations can convene as honest brokers
- “Urban Genome Project” could be grand challenge for cities
- Technology of cities must be reinforced by culture