The background of the slide is a photograph of a park. In the foreground, there is a paved walkway with some fallen yellow leaves. To the right, there is a wooden bench. In the background, there are several trees with yellow and orange autumn leaves. Beyond the trees, a city skyline is visible under a clear blue sky. The text is overlaid on this image.

Session III:

Can Scientific and Engineering Research Usefully Inform Urban Policy?

Jonathan Fink, Vice President for Research and Strategic Partners, Portland State University

Colin Harrison, Distinguished Engineering Engineer Emeritus, IBM Corporate Strategy

Joseph Danko, Managing Director, Urban Programs, CH2MHill

Why Should We Engage in on Urban Sustainability Research? Perspectives of Cities and Universities

Lawrence A. Baker

Ecological Engineering Group

Dept. Bioproducts and Biosystems Engineering



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Why would we do this (cities)?

1. Solve problems by moving outside bureaucratic silos
2. Utilize the latest science and technology
3. Improve efficiency and effectiveness of programs
4. Cultivate future employees (students)
5. Cultivate early adopter model
6. Sharpen thought processes while engaging young scholars
7. Have fun!

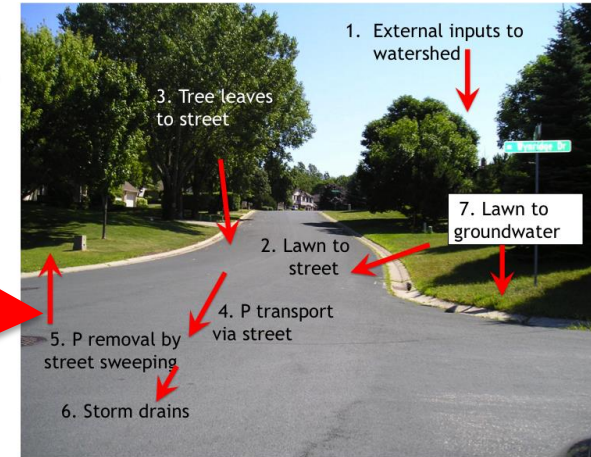
Why would we do this (universities)

1. Solve real world problems to improve the world
2. Sharpen theories
3. Utilize resources of cities – case study sites, databases, expertise of practitioners
4. Leverage research funding
5. Exportation of products (models, etc.)
6. Repurpose extension mission of Land Grant colleges
7. Get out of the ivory tower!

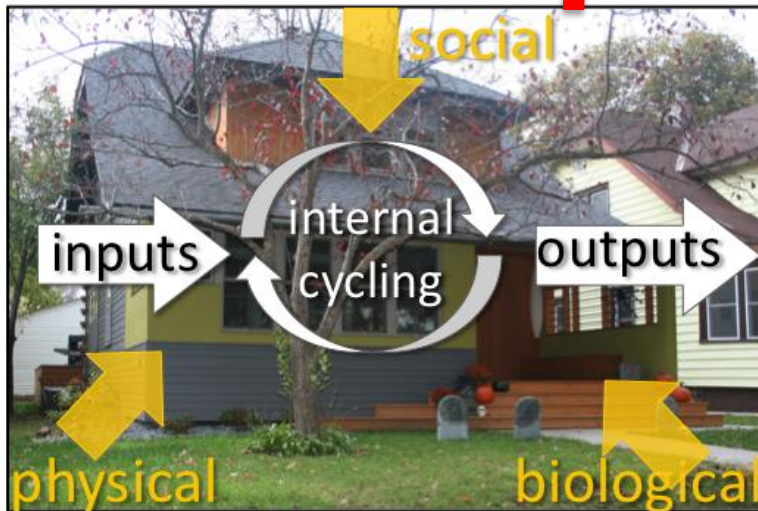
Prior Lake Street Sweeping Project (EPA)



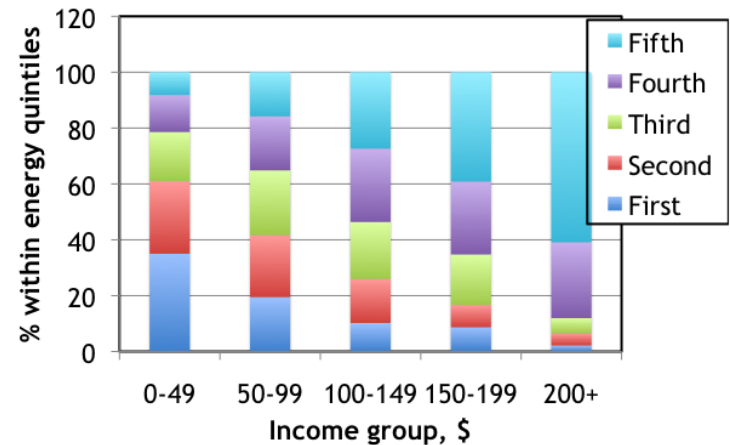
Next: Urban climate resilience theory?



Flowpaths of nutrients through urban landscapes (IonE)



Twin Cities Household Ecosystem Project (NSF)



Household energy poverty study (IREE)