US Army Corps of Engineers

Dirk SijmonsTU Delft - HNS Landschapsarchitecten

Kevin Shanley & Ying-Yu Hung

SWA - I.R.I.S

Dawn Wright

Peter Del Tredici Arnold Arboretum - GSD

Kate Ascher

Erle Ellis

The Bioengineering Group

Eduardo Rico & Enriqueta Llabres ARUP - Relational Urbanism

Todd Shallat ...

Rosalind Williams Massachusetts Institute of Technology

Urban life is sustained by infrastructure. Highways, har- As the invisible background of contemporary society, the Emerging from current economic exigencies and environmental imperatives, this By revealing the multi-dimensional complexities, bors, airports, power lines, landfills and mines figure as smooth functioning of infrastructure has literally naturalized symposium engages these challenges by re-examining the precepts of externalities and cross-dependencies within the dominant effigies of contemporary urbanization. The the processes of urbanization, whereas less than a century infrastructure—the basic systems of essential services that support a city, a region, infrastructures of waste and water, energy and mobil-sheer size of these elements renders their understand- ago, a basic level of collective, essential services barely a nation, a continent—as well as the patterns of urbanization from which they ity, food and fuel, guest speakers further examine how until the precise moment at which it fails or breaks down. coastal eutrophication, the accumulating effects of carbon agency of contemporary urbanists—ecologists, geographers, historians, designers, underlying objective of the symposium is to unear Floods, blackouts and shortages serve as a few remind- emissions, the surge in foreign oil prices and spike in food conservationists and social groups—who are rethinking the pervasiveness of and unlock the potential of emerging synergies are ating structure that unilaterally depends on constant mobility and dispersal-are instigating a critical review of the forth alternative models, methods and measures across a range of scales, that di

program

Day 2 Saturday, March 24, 2012 @ 8.30am Piper Auditorium, Gund Hall

Panel 1 - 9.00am

Jo Guldi, Harvard Society of Fellows

Building Infrastructure: Water, Science & Technology and the Rise of the US Army Corps of Engineers Todd Shallat, BSU

representing infrastructure
From the Personal to the Planetary Citizen Cartographies Liz Barry, PLOTS

Erle C. Ellis, UMBC

Public Works: Subterranean Anatomy of a City Kate Ascher, Happold Consulting

March 23-24, 2012

Symposium

Harvard Graduate School of Design

Geodesigning Coastal and Ocean Space Dawn Wright, ESRI

*Moderators: Neil Brenner & Anita Berrizbeitia

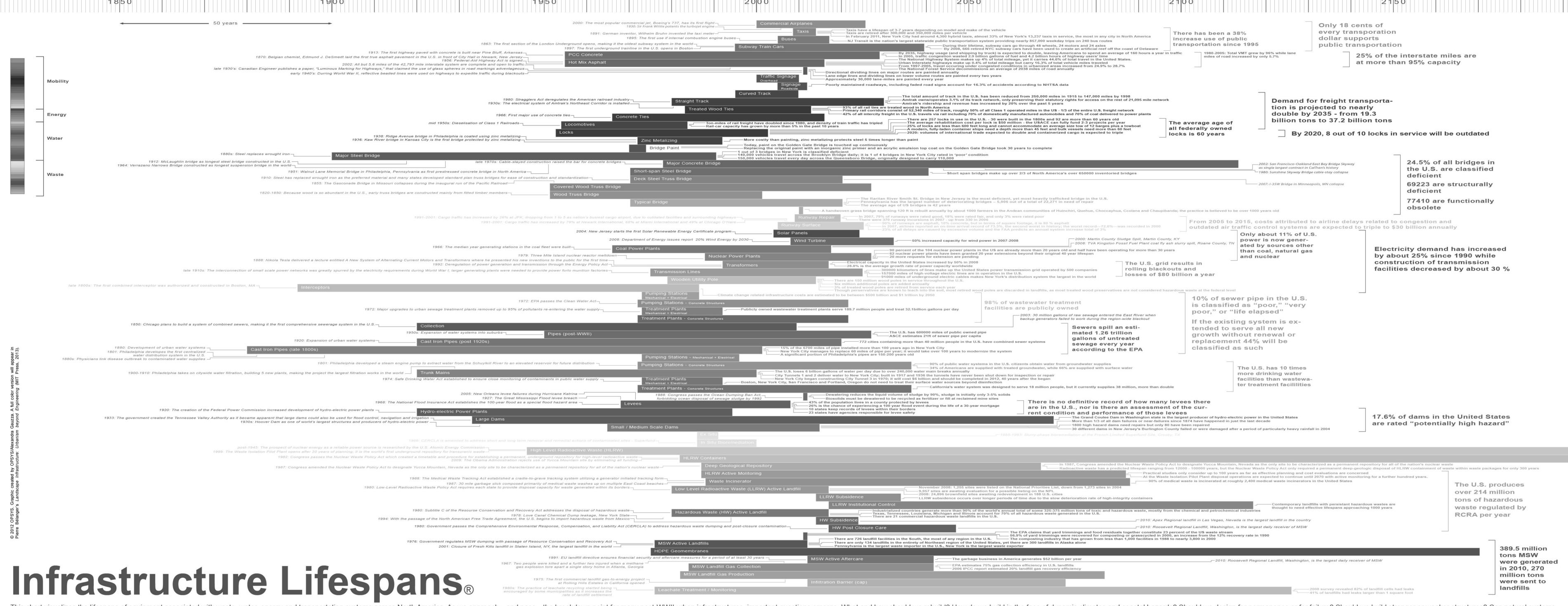
Piper Auditorium, Qund Hall
Priday, March 23, 2012 @ 6.30 pm
Piper Auditorium, Qund Hall
Aunch & introduction
Charles Waldheim
Charles Waldhei

Plants as Megastructure

*Moderators: Nina-Marie Lister & Chris Reed

and scape

and Grassroots Mapping. She has taught at Columbia University. Practice and the Indexpoared Architecture and Urban Design from Columbia University, Gastra garden and Urban Design from Columbia Urban Design f



This chart visualizes the lifespans of equipment associated with waste, water, energy and transportation systems across North America. As we approach—and pass—the breakdown point for many post-WWII urban infrastructures, important questions emerge. What and how should we build stronger or weaker structures? Can natural systems be coupled with technological facilities? Cross-disciplinary action by ecologists, urbanists, historians, geographers and engineers is necessary as we construct the next generation of public works projects for an era of unprecedented change and uncertain risk. Data is compiled from the following organizations: American Society of Civil Engineers, American Institute, American Society of Civil Engineers' Report Card for America's Infrastructure, American Society of Civil Engineers of the Environment, Center for an Urban Future, Clean Air Council, Earth Engineering Center of Columbia University, Federal Transit Administration, Federal Transit, New York City Department of Transportation for America, United States Department of Transportation, United States S