Overview of U.S. Infrastructure Policy Issues Impacting the New York Metro Area

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Part 1: Civil (or network) infrastructure
- Drinking water treatment systems (pumps, plants, and pipes)
- Wastewater treat systems (pumps, plants, and pipes)
- Roads and highways
- Bridges and tunnels
- Communications systems (land line systems, cell towers, etc.)
- Electric systems (generation, transmission, and distribution)
- Railroads as network infrastructure (passenger and freight)
- Solid waste removal/garbage collection
- Street lights
- Parking garages
- Sidewalks, etc.

Hard infrastructure is usually part of a network (sometimes also called network infrastructure)
Defining Infrastructure (2)

• **Social infrastructure:**
  
  – Prisons
  – Courthouses
  – Schools
  – Hospitals
  – Stadiums
  – Senior centers

• Soft infrastructure is usually stand-alone; not part of a network; sometimes referred to as **facilities**
Two distinct types of infrastructure gaps:

A funding gap **versus** a financing gap
The funding gap: Infrastructure funding refers to the underlying resources (dollars) necessary to pay for infrastructure.

This gap is the difference between what engineers say is needed for a “state of good repair” and dollars currently available for funding.

The two broad categories are some type of user fee and some type of broader tax revenue.
Major Infrastructure Policy Misconception:

The private sector does not provide more funding *per se*, but can help to finance a facility once funding is secured.
Once infrastructure **funding** is in place, then **financing** can come from many sources.
Infrastructure Financing Sources in the United States

- Tax-exempt municipal bonds
- Privately issued corporate bonds
- TIFIA (Transportation Infrastructure Funding and Financing Act) loans
- Direct equity investment by a private investor (often considered the key aspect of a PPP)
- State revolving funds (SRFs), etc.
Main Infrastructure Problems in the United States:

A. Inadequate funding from current sources (note endemic problems with fuel taxes)
B. Deferred maintenance of key infrastructure
C. Slow and costly infrastructure delivery

* Intensity of problems vary greatly across sector

* Infrastructure generally better where there is a *direct user fee*
Key U.S. infra policy improvements:
* A robust **asset recycling program** that encourages state and local “self help” in generating new funding
* Encourage bundling of design/construction with operation/maintenance via DBOM contracts

* Incentivizing the **adoption of new technologies** that will save money and improve delivery
* Facilitate **value-added tolling** of interstates
Key U.S. infra policy improvements (con’t):

* Lift the cap on Private Activity Bonds (PABs) and allow for use on other infrastructure types

* Reform National Environmental Policy Act (NEPA)

* Repeal of Section 111 of Title 23 on the development of Interstate rest stops by states!
Thank you!