TOWN +GOWN: NYC

Under the Ground.3
4 WTC, 43rd Floor, HRA Dumpson Center
June 5, 2025, 8:45 AM—5 PM

It's 10 P.M., January 1, 2075
Do We Know Where Our Subsurface Infrastructure Is, Actually?
Can We Get to It Easily to Minimize Disruptions?
Do We Still Have Subsurface Spaghetti?

One or More Things You Would Change

- Adam Barin, NYC Mayor's Office of Operations, **NYC 3D Underground Initiative**
    - Data sharing under conditions of security
    - Solving problem that no one understands what we do
- Jacob Bortz and Anthony Bauer, Exodigo, **Detangling the Subsurface in Dense Urban Environments**
    - Finding ways to fund earlier complete investigations, leading to realistic project plans and drawings
    - Collaboration to reduce rework and accurate data
- Debra Laefer, New York University, Tandon School of Engineering, Department of Civil and Urban Engineering, **Excavation Permits for Urban Policy Insights**
    - Return post-project locational data
- Frankie Lau, Manhattan Construction, Infrastructure, NYC DDC and Peter Roloff, Resident Engineer, Tectonic Engineering, **Mass Excavation in Lower Manhattan**
    - Identification and location of private utility infrastructure in Manhattan—improper records
- Joseph Lione, Coastal Resiliency, Construction, NYC DDC—**Trenchless Technology**
    - Utility companies verify through test pits or high tech means the actual location of their facilities prior to design--every project seems to start with test pits that prove that the project was designed with erroneous information that continues with a very time consuming redesign

- Richard Jones, Infrastructure, NYC DDC and David J. Varoli, General Counsel, NYC DDC, **Joint Bidding in Action**

    - Complete rethink of franchise agreements!

- Cesar Quiroga, Texas Transportation Institute, Texas A+M University, **Subsurface Infrastructure Location Technology Innovations**

    - Use data throughout the project and measure impact

- Chris Rogers, Department of Civil Engineering, University of Birmingham, UK, Schools of Civil Engineering, **Demystifying the Urban Underworld – A Foundation for a 50-Year Vision**

    - All work toward collaboration and common objectives in the streets
    - Subsurface planning as rigorous as surface planning

- Matthew Peterson, Chicago Department of Transportation, **The Benefits of Project Planning with Utility Data**

    - Sharing collected data (unstructured and project) across life cycle and cross-disciplinary

- Itzik Malka, 4M Analytics, **Unlocking the Future of Infrastructure**

- Wylie Tsang and Francesc Mirada, Arup, **Use of 3D Ground Modeling in Managing Ground Risks**

    - Enhance coordination and agreement among all the public agencies in the city to enforce a homogeneous data schema for the collection of geotechnical data to significantly streamline processes and improve data consistency across the board; the private sector would likely follow and adopt it too

- Mark Reiner and Charan Kukunoor, Acuitas 3D, **Beyond the Break: Planning for Infrastructure Intelligence**

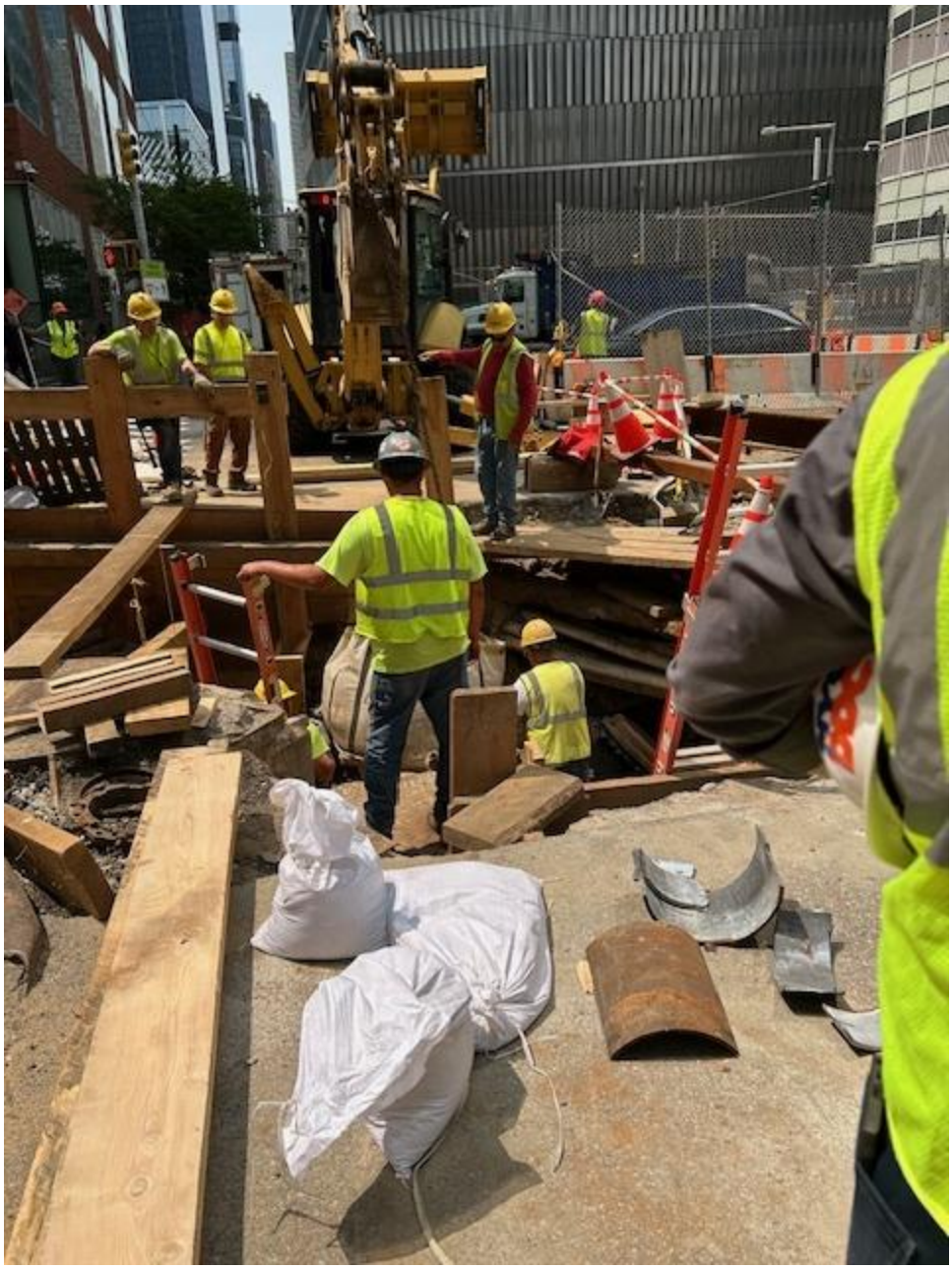
    - A vision for NYC's street cut permit system, including analysis of permit data
    - I would empower a committee to develop long-term multi-sector infrastructure strategies that would supersede individual utility planning if proven level of benefit to the city, residents, and businesses when deemed necessary.

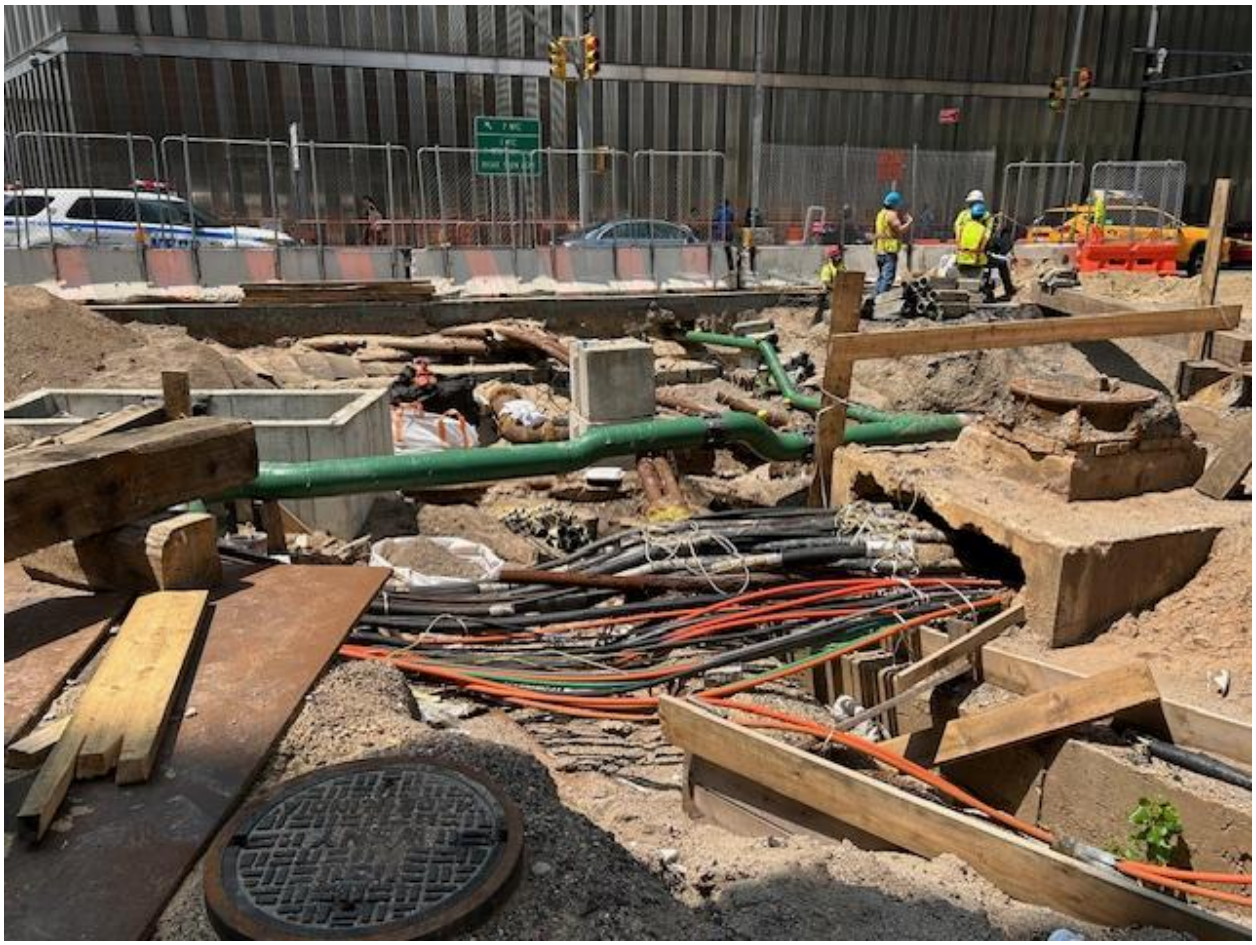
- Travis Anderson, City of Boston, Planning Department, Smart Utilities Program, **Subsurface Investigations and Innovation: Boston Smart Utilities in Action**

    - Standardized agreements to limit exposure for public and private entities and to enable new models of ownership

- Rae Zimmerman, New York University, Wagner Graduate School of Public Service, **Engaging Stakeholders for Strengthening Underground Infrastructure: Focus Group Findings**
    - Collaboration via network building; knowledge sharing on an ongoing basis
- David Green, Arup, **Alternative Development: Infrastructure as a Muli-Project Program**
    - Tracking software (protocol) to flag overlapping projects from different agencies.
- Matthew Friesen, Jacobs, **Placemaking + Multi-Tasking Infrastructure**
    - **B**roaden awareness of systems thinking approaches and radical integration of scope, talent, and community co-benefits to accelerate the evolution and integration of our below and on-grade public infrastructure (digital, physical and social)
- Paul Nicholas, AECOM, **Use of Trenchless Technology in Construction of Utilidors**
    - Go back in time 100 years to start to avoid what happens now

PLUS! Pictures from the tour and event below!



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