

ARGGO

Advanced Research in Government Operations

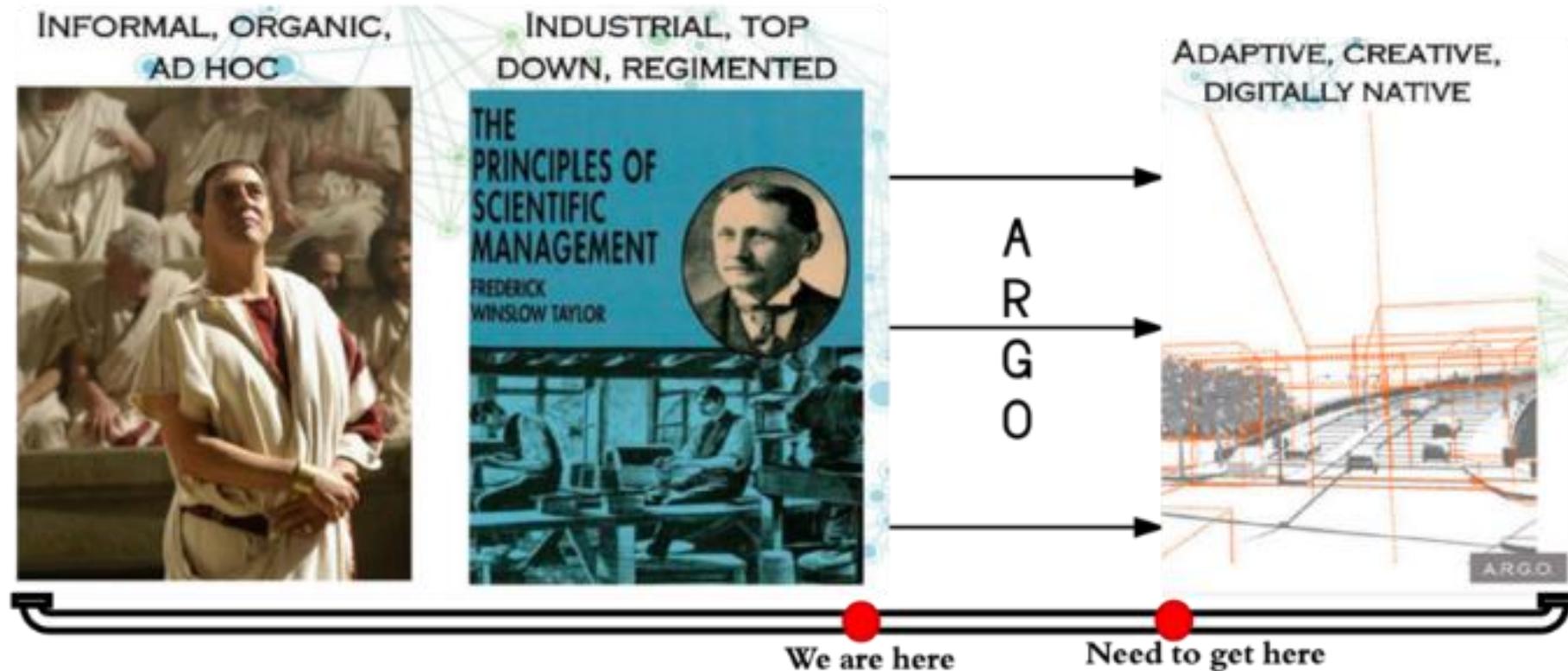
[argo@argolabs.org](mailto:argo@argolabs.org)

[argolabs.org](http://argolabs.org)

New York, NY

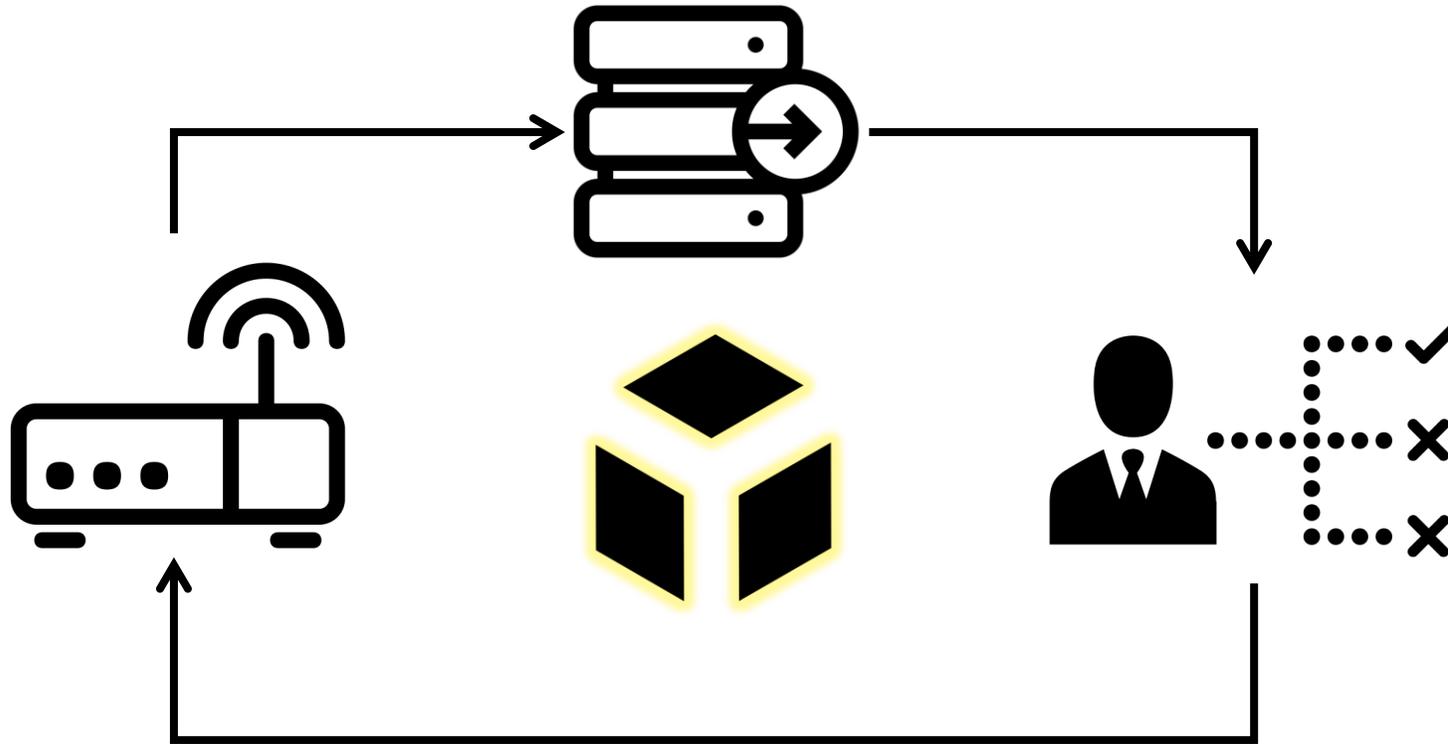
# Evolution in Public Administration

Public administration as we know it is about 100 years old yet the practice of administering to the public dates back to the earliest civilizations. Partnering with local governments, ARGO Labs intends to bring device, data and decisions together and pioneer a new age of public administration that is digitally native.



Our mission is to bridge the worlds of public administration and data science by partnering with city agencies and demonstrating service delivery more efficiently, effectively, and imaginatively.





Across the spectrum of **Device, Data & Decision making**, ARGO Labs can facilitate a holistic approach to urban problems. Combining this framework with a rapid prototyping approach allows us to amplify our delivery focused mission to partner with city agencies and create sustainable & scalable solutions for cities.

## NYC street resurfacing today

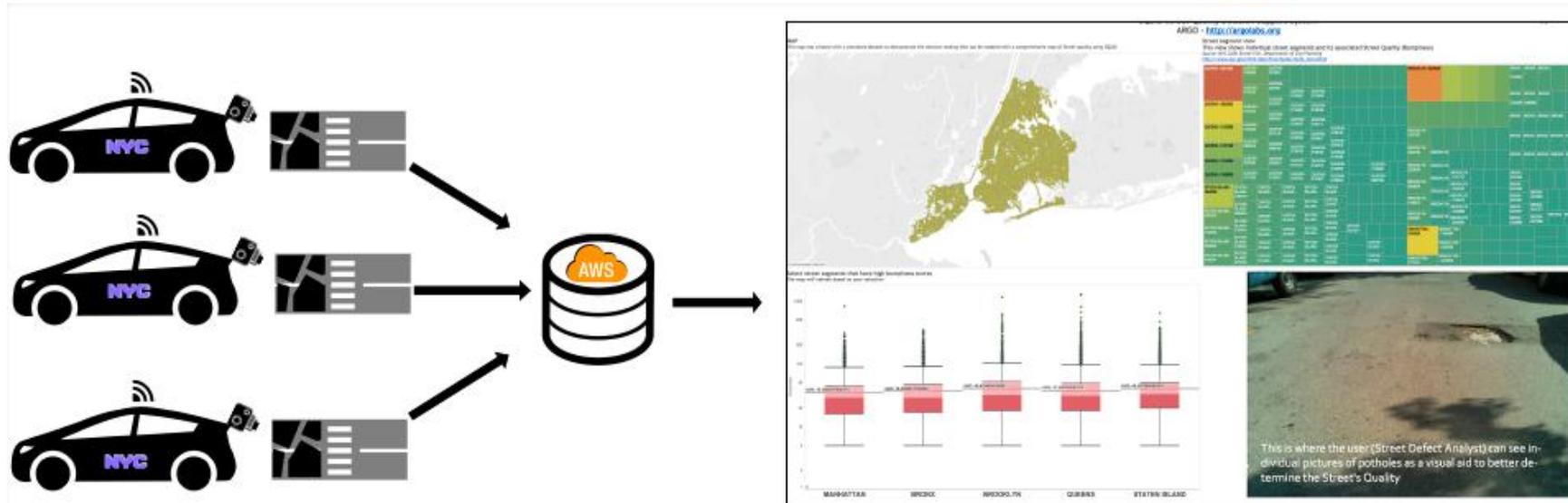
**6,000** miles of streets & 20,000 lane miles

**\$1,600,000,000** 10-year capital planning budget for street resurfacing.

**\$138,000,000** spent on settling personal injury and property damage claims as a result of poor street quality (FY2010-2015)

**?** Total number of street defects

# Project: SQUID



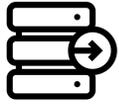
Street Quality Identification Device (SQUID) is a low-cost sensor platform to passively and non-intrusively record street quality data using accelerometer and imagery data on existing city vehicle fleets to produce a complete map of street quality that could lead to optimizing the \$100s of millions spent to maintain city streets every year.

## Device



- Raspberry Pi 2
- Prototyping Shield
- Camera
- GPS
- Accelerometer

## Data

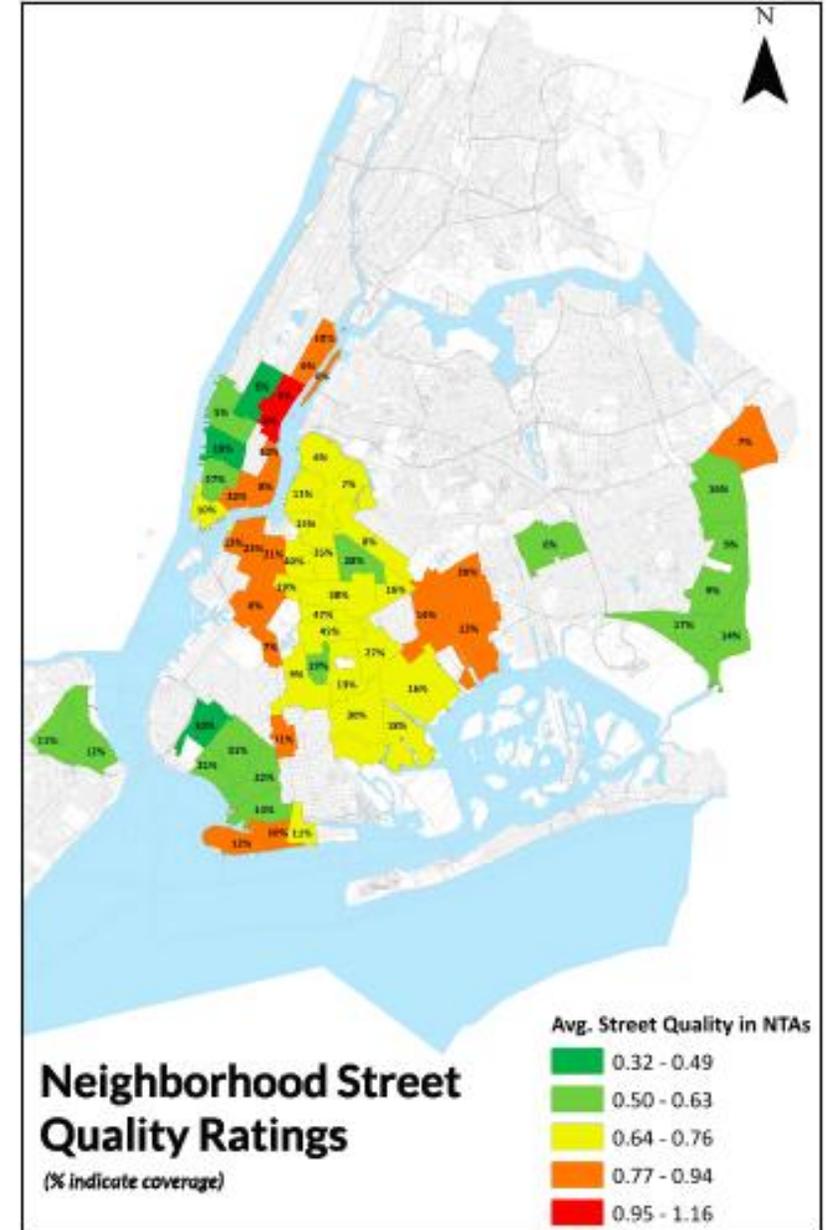
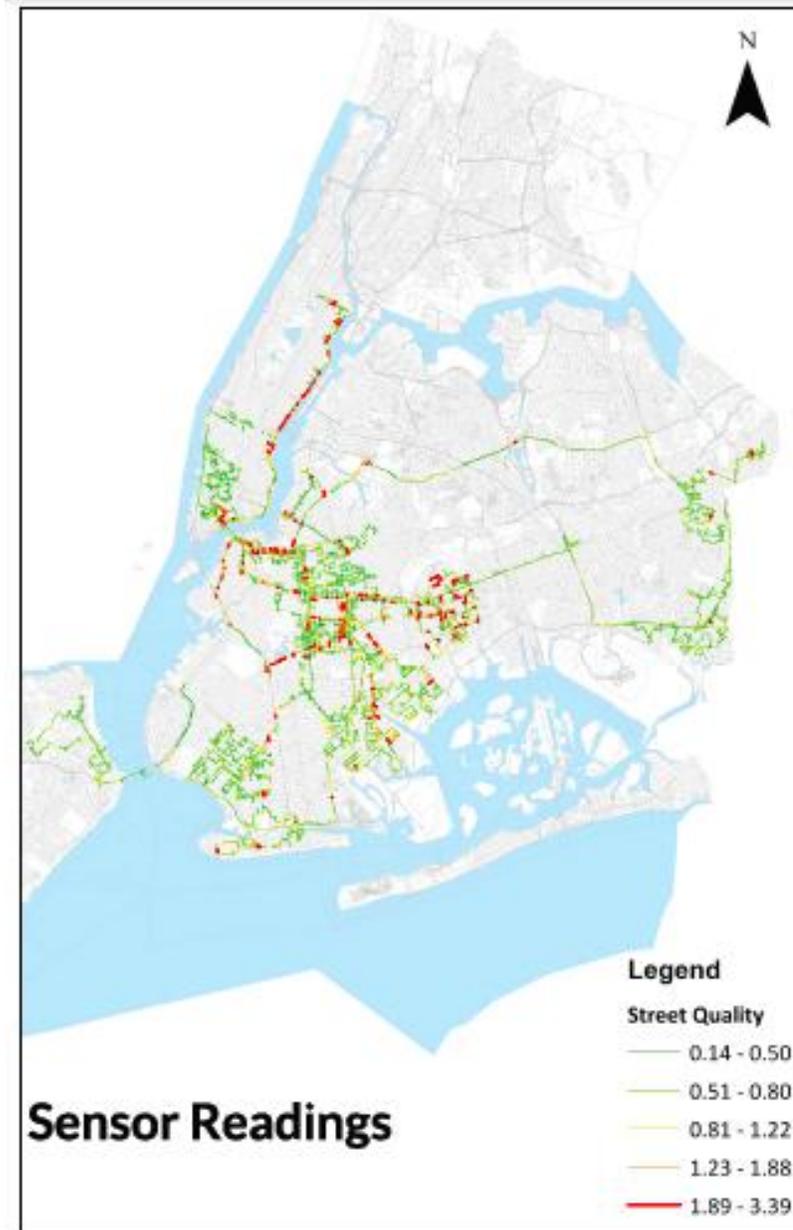


- Transmission
- Curation
- Integration
- Analysis

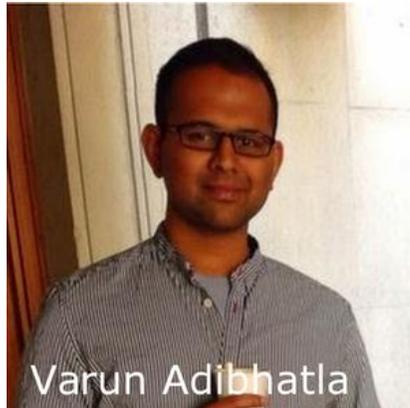
## Decisions



- Prioritization
- Route Optimization
- Predictive maintenance
- Research



We arrived at NYU's Center of Urban Science and Progress in August 2014 on a mission to learn everything we could about how cities function through the social, political and technological lens. Together we encompass a broad understanding of how device, data and decisions can be brought together around urban problems.



**Varun Adibhatla** has spent the past 10 years studying and implementing technology in domains ranging from decision support systems for crisis response to supporting high frequency & algorithmic trading at large banks. He is driven to repurpose the aggressive innovation in financial technology towards agile service delivery for NYC and beyond.



**Graham Henke:** A Computer science graduate from Purdue University, Graham worked at Apple Inc for 5 years before setting his sights on NYC. As a recent graduate from NYU CUSP, Graham is now focused on how technology can be used to address challenges faced by cities.



**Patrick Atwater:** A fourth generation California native, Patrick ran the numbers for the State Water Contractors on Governor Brown's \$13 billion Bay Delta fix and co-authored the feature June 2015 American Water Works Association article on how data science can help California water utilities adapt to the new normal of water scarcity.

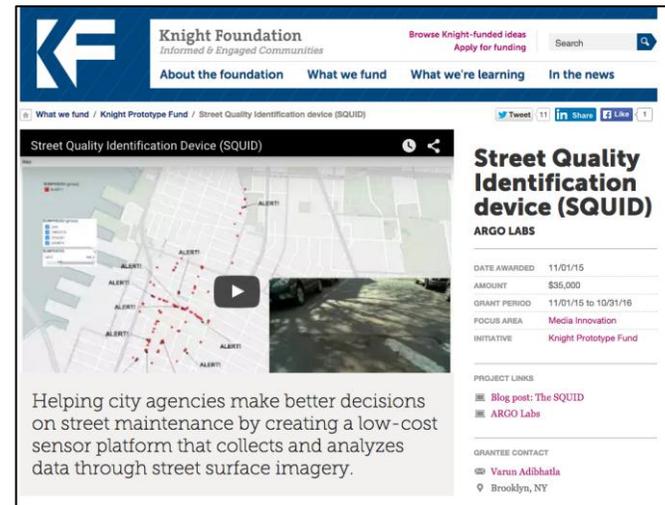
## Organizational Adviser



**Dr. Neil Kleiman** is a clinical professor at New York University, teaching graduate-level courses on policy development, urban innovation, and new approaches to technology and big data at both the Wagner School of Public Service and the Center for Urban Science and Progress. Kleiman has spent 20 years building a career at the intersection of many sectors—policy, philanthropy, government and academia. He has established new organizations, and divisions within organizations, focused on developing innovative and practical policy solutions for cities. He has written and edited over thirty policy reports, and his work has been featured in many media outlets including the New York Times, Wall Street Journal, USA Today, Chronicle of Higher Education and National Public Radio.



SQUID profiled in Metro, 9/1/2015



Helping city agencies make better decisions on street maintenance by creating a low-cost sensor platform that collects and analyzes data through street surface imagery.

Recipient of Knight Foundation's Prototype Fund



Finalist at NYC BIG APPS, 2015