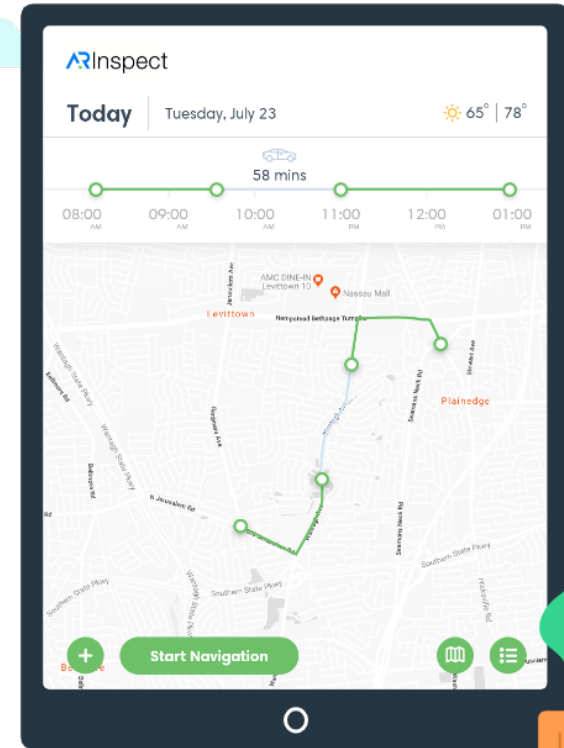


# Protecting EHS Through Delivering Next-Generation Compliance & Enforcement, Today

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ARInspect



# Today's Presenters



**Vivek Mehta**

Founder & CEO, ARInspect

Email: [Vivek@ARInspect.com](mailto:Vivek@ARInspect.com)



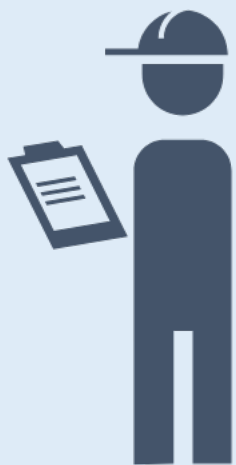
**Peter Trick**

Environmental Policy Expert Analyst

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# Agenda

1. Pain points for enforcement management
2. Challenges to traditional inspection processes
3. Spotlight: How NJDEP is using dashboards and analytics to manage resources, measure productivity, prioritize inspection schedules and routes
4. Impact & benefits
5. Questions & answers



# EVERY DAY

thousands of inspectors are deployed into the field to protect the health, safety, and environment in communities across U.S.



# Pain Points for Enforcement Management:

Resources are limited, outdated, and not data-driven, yet vital for environmental health and safety.



## The reality is:

- Inspection backlogs at the Federal and State Level
- Budget constraints in funding full inspection programs
- Challenges in prioritizing facilities to inspect
- Continuous education on new complexities and tech
- Changing regulatory landscapes
- Facilities require investigations
- Lack of automated compliance tools
- Litigious environment

# Challenges to the traditional inspection

## 1 Lack of tools to plan the inspection campaign may hinder:

- Finding the facilities
- Efficient route mapping
- Effective communications
- Adequate health and safety equipment
- Coordinating sampling and analysis components
- Access to key plant personnel



## 4 Obsolescent tools with which to conduct and complete inspections:

- Lack of tablets to record solutions
- Manual data entry
- Excessive time spent in the office to complete data entry
- Inability to electronically submit inspection reports in correct formats



## 2 Not having all the necessary background information to conduct the inspection:

- Facility diagrams
- Regulated processes
- Past inspection reports
- Previous compliance and enforcement results
- EPA and State background documents
- Ambient environment data for receiving environments

## 3 Inability to make compliance determinations due to lack of compliance benchmarks:

- Wrong or inaccurate environmental standards
- Unavailable or Out of date environmental permits



# New Jersey's Smart Inspection Initiative



**Innovation of the Year Award**  
StateScoop 50's Nationwide



**What is the Smart Inspection Initiative?**



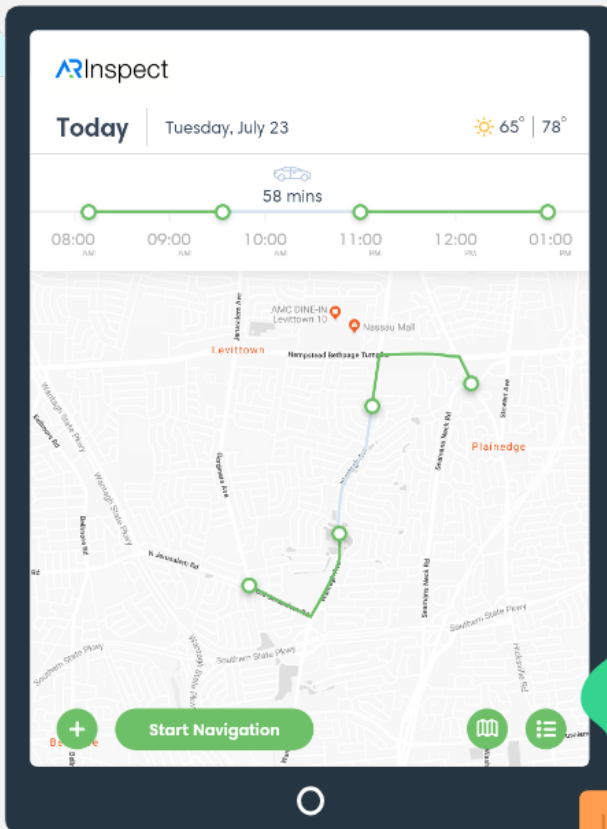
**How does it work?**



**What impact is it having?**



**How can you do it too?**



# What is it?

## DATA-DRIVEN ENFORCEMENT

## INSPECTION TECHNOLOGY

- Predictive Algorithms / Risk Scores
- Risk-based Scheduling
- Artificial Intelligence
- IoT and Social Media Integration



## SMART INSPECTIONS

- Mobile Inspections
- Contextualized Forms
- Smart Tools (e.g. AR measurement)
- Access to Information in the Field

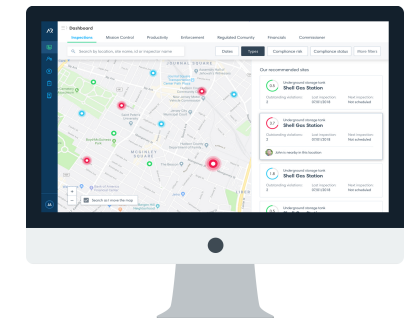
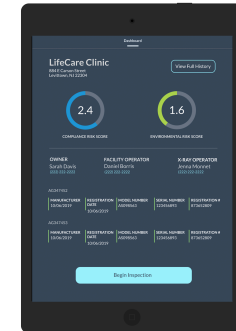
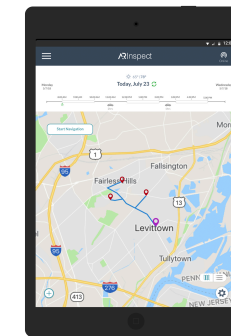
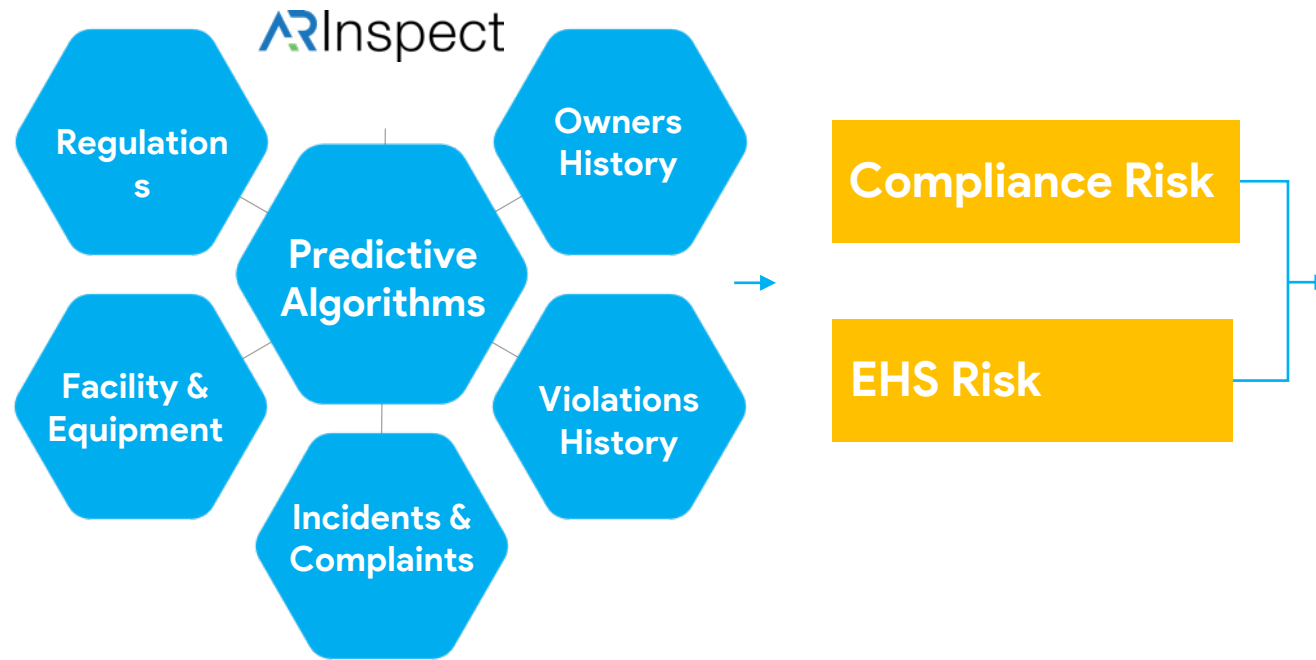


# How it works

ML Algorithms

Risk ID

Mobility & Automation



# The Impact – NJ Smart Inspections

EFFICIENCIES  
GAINED



**2,404**

HOURS SAVED

BOTTOM LINE  
IMPACT



**\$1,240,000**

HIGHER  
PRECISION



**+43%**

COMPLIANCE  
RISK



**-23%**



“ARInspect has delivered a quick win for our department and will be a key component of NJDEP’s modernization strategy going forward.”

Peter Tenebruso,  
Chief Innovation Officer



UST



SW



PST



DAM



RAD



WQ



AQ



WS



SR

# How to create your own initiative

- The next generation of environmental protection depends on real modernization
- Agencies are being asked to do more with less
- Smart Inspections can help focus limited resources on risk, while doubling the time inspectors can spend in the field

# Contact us for a demo!

**Vivek Mehta**

Founder & CEO, ARInspect

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# MODERNIZATION THAT MATTERS



DATA SCIENCE|MOBILITY|AUGMENTED REALITY|ARTIFICIAL INTELLIGENCE

The technology we use in our every day lives shouldn't be more advanced than the technology government deploys to protect our communities.

Our team of data scientists and engineers at ARInspect is committed to applying cutting-edge technology and best practices from the commercial sector to transform government inspections and create safer communities for all.

Achieve modernization that matters with the world's most advanced SaaS Platform for government enforcement – **Smart Inspections from ARInspect.**

## PLAN BETTER

Compliance Risk Mitigation | Auto Back-Office Sync | GIS | Historical Records

## ACT OPTIMALLY

Record Results | Capture Photos | Video Conference | Voice Dictation | Annotations | Image Classification Models | Augmented Reality Applications

## PROBE INTELLIGENTLY

Real Time Analytics | Data Visualization | Automation Identification Engine | Seamless Back-Office Integration