

# Con Edison About Us

- 550 square miles
- New York City & Westchester County
- 1.1 million gas customers
- 377,490 services
- 97 miles of transmission main above 125 psi
- 4,340 miles of distribution mains
- Liquid Natural Gas (LNG) Facility
- Temporary Compressed Natural Gas (CNG) Station



# Tried & True Mitigation Technologies

## Traditional & Advanced Technologies Working Together

### No Technology is Best on its Own

#### Traditional Leak Detection Tools



#### Combustible Gas Indicator (CGI)

- Handheld
- For leak investigations



#### Detecto Pak-Infrared (DP-IR)

- Compliance surveys
- Walking and vehicle mounted



#### Remote Methane Leak Detector (RMLD)

- For difficult to survey locations (highways, bridges, etc)

#### Advanced Leak Detection Tools



#### Natural Gas Detector (NGD)

- 24/7 on premise detector
- Mounted near point of entry
- Immediate notification to control room

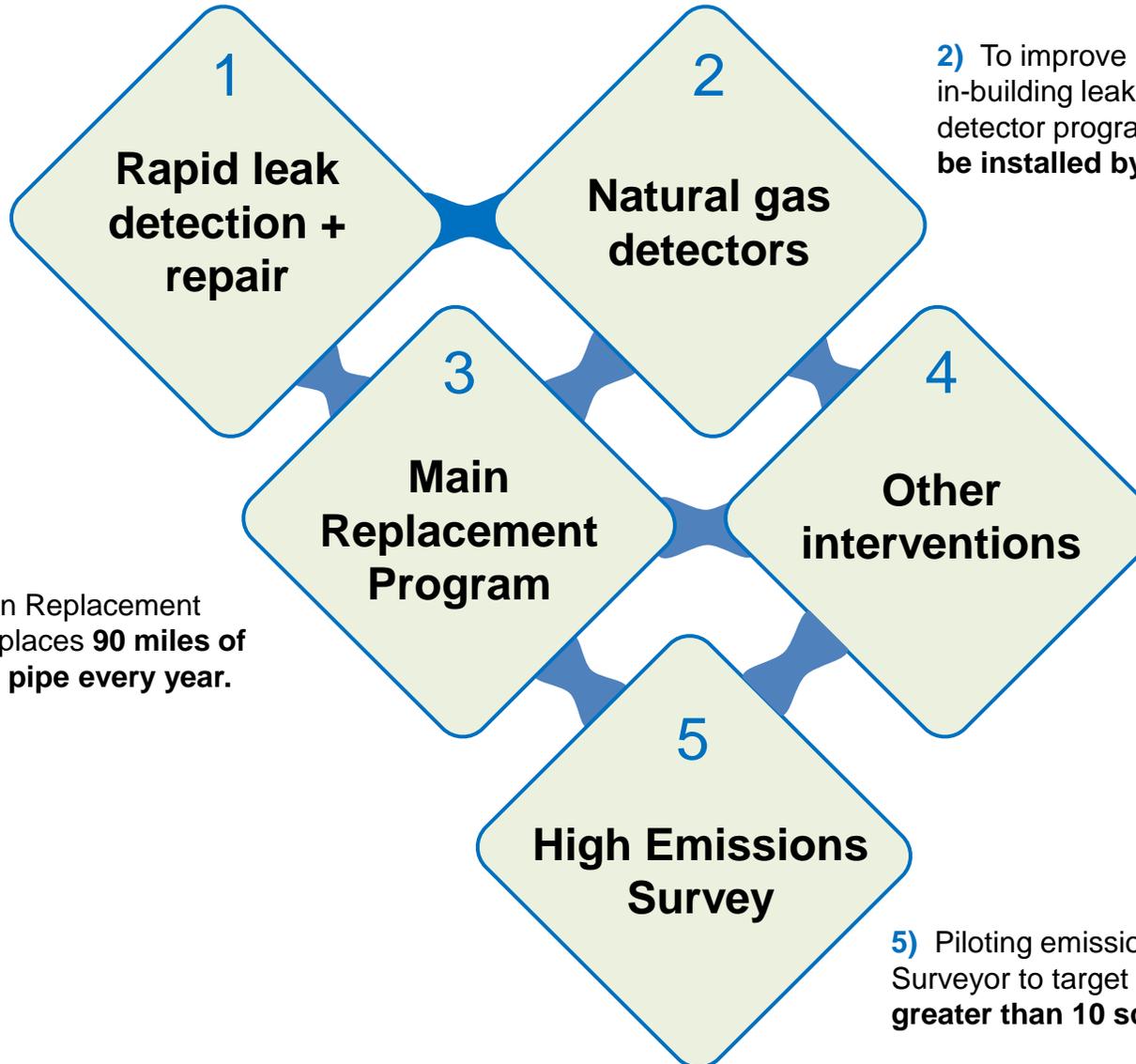


#### Picarro Surveyor

- Highly sensitive, parts per billion readings
- Vehicle mounted surveys at night
- Emissions quantification

# 5 Key Methane Emissions Reduction Initiatives

1) Con Ed is a leader in detecting and resolving leaks, being first to have a goal on repairing all leaks. Faster leak resolution and monthly leak surveys has also resulted in a **lower methane emissions**.



2) To improve public safety and to reduce response time to in-building leaks, Gas Operations has funded a natural gas detector program in customer buildings; **over 375,000 will be installed by 2025**.

3) The Main Replacement Program replaces **90 miles of leak-prone pipe every year**.

- 4) Other interventions include:
- a) **Damage prevention** – Continue reducing the number of uncontrolled releases of gas from 3<sup>rd</sup> party excavation damages
  - b) **Venting technologies** – While tapping or performing other pipe maintenance, Con Ed has invested in equipment that significantly reduces vented methane by capturing and replacing it after maintenance

5) Piloting emissions only survey with the Picarro Surveyor to target the **highest emitting leaks greater than 10 scfh** for immediate repair

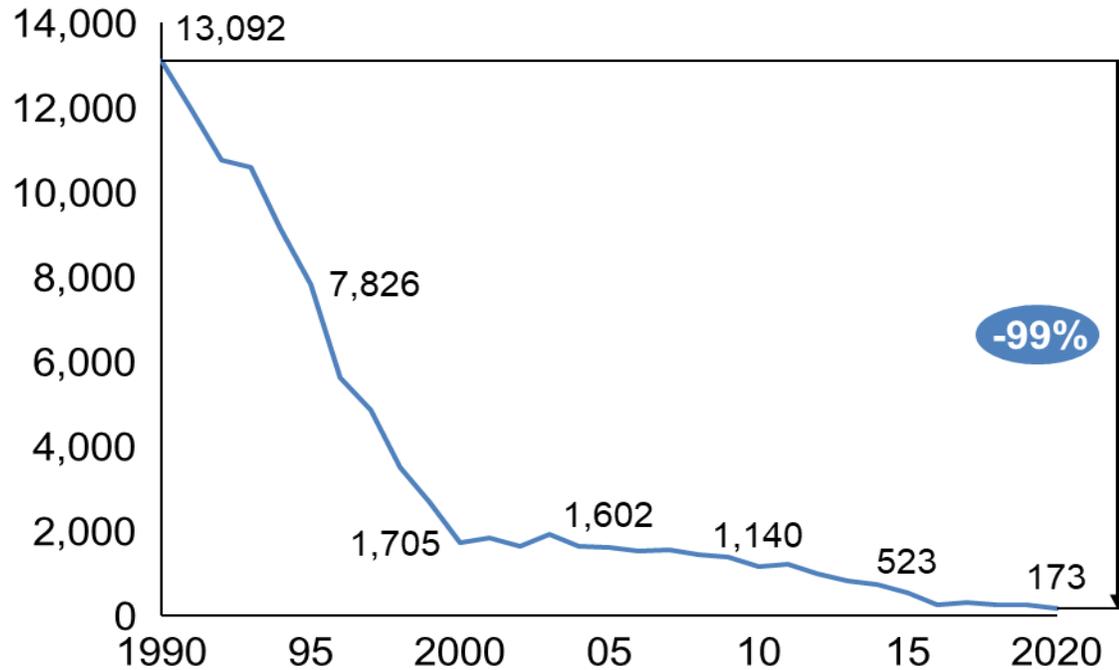
# Tried & True Methods, Results

## Aggressive Leak Repair Schedules Drive Down Emissions Safety & Environmental Benefits

Con Edison's leak backlog has declined significantly since 1990, repair timelines exceeding code requirements

### Total Leak Backlog at Year End

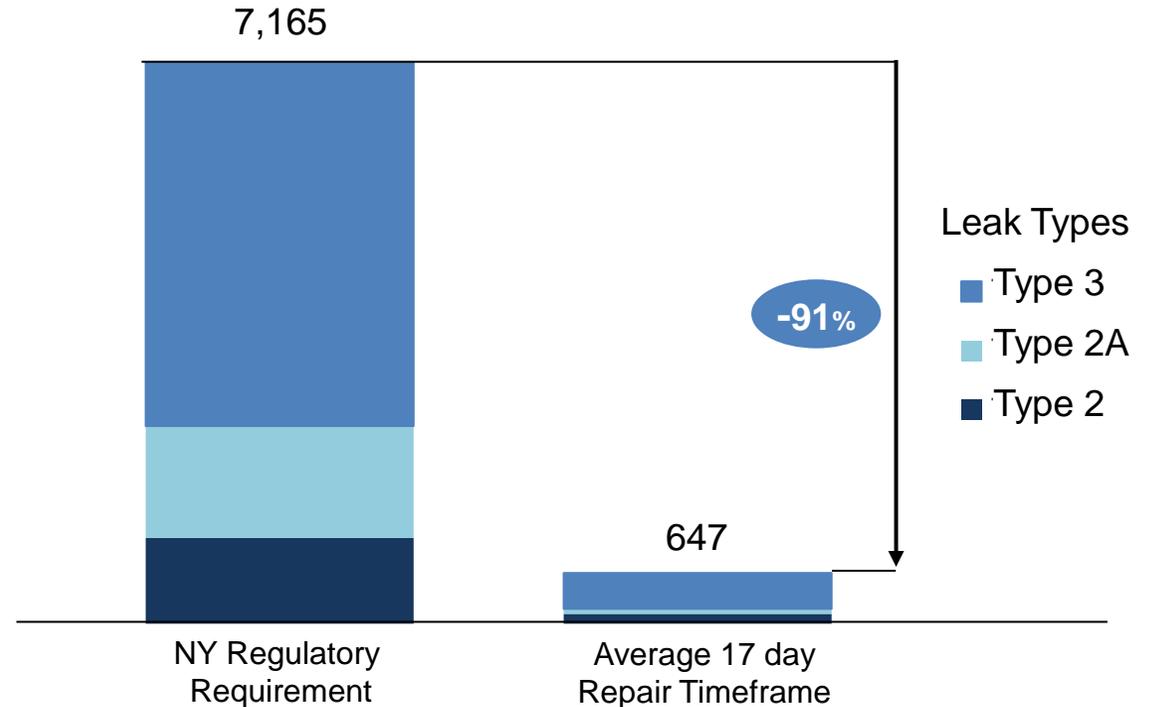
1990-2020



Emissions reduced through aggressive leak repair schedules

### Gas leak emissions

MICH4 per year; using CSU/EDF methodology



# Thank you!

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