



City/State:
New York City/
New York

Client:
Port Authority
NY, NJ

Industry:
Transportation

The Client

The Port Authority of New York and New Jersey keeps the region moving by air, land, rail and sea, so that the people and businesses in the region continue to thrive. To fulfill its mission, the Port Authority has embraced six priorities: Maintaining the highest levels of safety and security, ensuring high-quality implementation of projects in the Port Authority's capital construction program, improving customer experience, ensuring operational excellence, increasing the agency's focus on sustainability and environmental protection, retaining, growing and attracting top talent as an employer of choice.

Problem

In 2022, the Port Authority of New York and New Jersey was undertaking a strategic program to equip its critical regional roadway network with traffic sensor devices. As part of its goal to look for innovative insights and solutions, the Port Authority was looking to accomplish the following objectives based on an analysis of sensor data from key NYC bridges:

- Undertake automation to bring efficiencies and drive data driven insights on volume, occupancy, and speed.
- Automate data processing logic and data validation checks.
- Automate production of forecast and predictive reports on volume, occupancy, and speed.
- Automate generation of response improvement scenarios tied to a specific data KPI.
- Identify automation opportunities for the full implementation across all Port Authority facilities.



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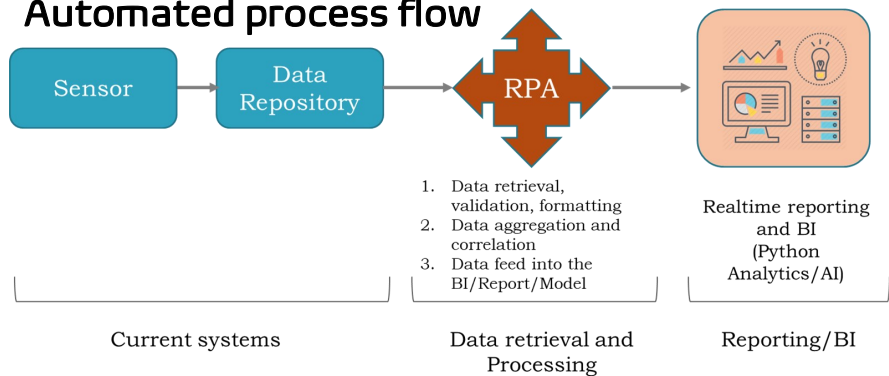
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The Solution

Capstone Strategy Group Deployed a robotic process automation solution to automatically extract, aggregate and report on traffic related data incl. Traffic volume and speed, weather, crash data and a combination of either of the above metrics (volume, speed, crash, weather...). This supported the PANYNJ effort to provide better traveler information to assist drivers and Port Authority personnel with making more informed route choices.

Automated process flow



Snapshot of the dashboard with sample metrics

