Automated Vehicles & Ports

Transforming our port operations

Ports are having more demands being placed upon them now than at any other time in history. It is no longer just about handling bigger ships and moving more cargo and passengers but doing so in a socially and environmentally sustainable manner while facing increasing financial pressures. Introducing automated vehicles (AVs) into these environments can go a long way toward achieving these goals in an economic way. From inspection and inventory to transporting cargo, workers, or passengers, AVs can fill a wide range of needs, all contributing to safer, cleaner, and more efficient port operations.

Potential use cases:

GOODS MOVEMENT & LOGISTICS
- Loading and Unloading
- Distribution
- Inventory

ANCILLARY SERVICES
- Inspection
- Cleaning

PEOPLE MOVEMENT
- Worker Transportation
- Passenger Mobility Hubs
Accelerating Autonomy in our Ports

The maritime industry is expanding and improving port, harbor, and navigation infrastructure. From enhancing port profitability to integrating port activities with innovative information systems, we're focused on creating economically viable and environmentally sustainable port solutions. It is this passion that has us so invested in bringing autonomous vehicle technology into our ports.

With promised benefits of safety, efficiency, and accessibility, the AV applications are immense. Together, our port planners and engineers and our AV consulting arm, Stantec GenerationAv™, can help our clients determine the best use cases and create and implement a plan to deploy AVs in a way that adds value for everyone involved.

Connect with us

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AV Strategy and Planning
Learning Center
AV Deployment Playbook
Industry Analytics Platform
Safety, Risk, and Compliance Assessment
Infrastructure Planning and Design
Stakeholder/End-User Research
Cyber Security Assessment