

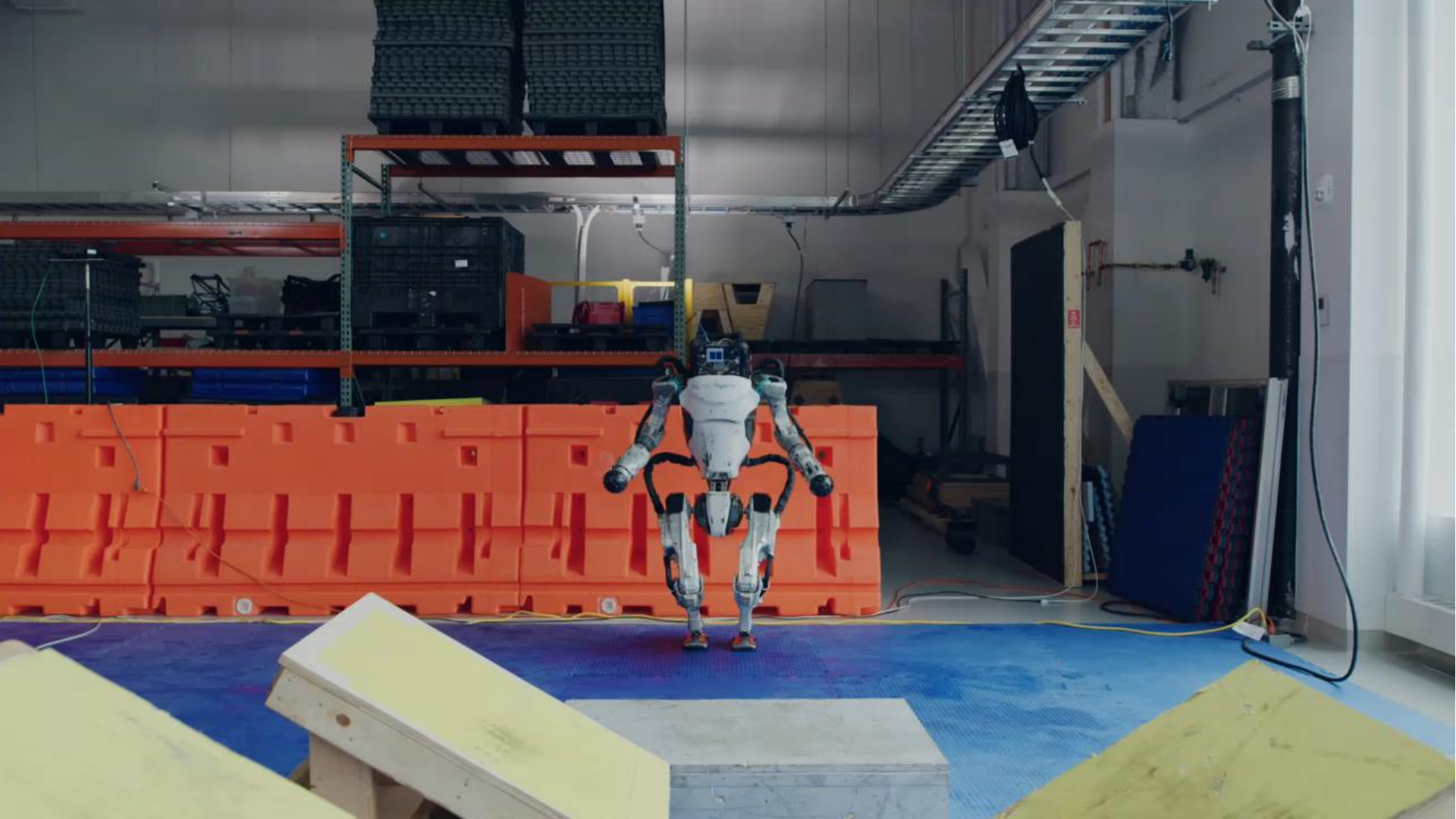


Welcome to Boston Dynamics!

Our Mission

To imagine and create exceptional robots that enrich people's lives.





A photograph of two humanoid robots, one labeled 'HD-04' and the other 'HD-3', performing a handstand in a large, modern gymnasium. The robots are white and black with blue accents. The gymnasium has a blue floor, orange safety barriers, and a high ceiling with white structural beams and a large fan. A blue semi-transparent banner is overlaid across the middle of the image.

Robots + Products



Spot

Autonomous data collection
and inspection



Pick + Stretch

Flexible warehouse
automation



Atlas

Cutting-edge research
platform



Meet Spot

Safety, Efficiency, Predictability





Spot

- Agile mobile robot with customizable platform
- Improves safety, efficiency, and predictability
- Dynamic Sensing
- Automating hundreds of sites across utilities, oil & gas, manufacturing, construction, and more



Spot's Value



Safety

- Remove personnel from dangerous environments
- Collect data remotely and identify risks from afar



Efficiency

- Reduce time to inspection
- Improve uptime
- Redeploy high-value labor to critical decision making



Predictability

- Find failures before they prompt shutdowns
- Gather consistent data to meet regulatory requirements
- Proactively manage sites and perform predictive maintenance



NB Power

Remote Visual Inspection

- Inspected issue with a weld in a high-pressure steam pipe
- Ran Autowalk missions every day for 45 days straight
- Avoided costs of full plant shut-down





National Grid

Visual and Thermal Inspections

- Gathering data in high-voltage power transmission facilities
- Capturing photos to detect water leaks and IR images to inspect integrity of bushing connections
- Data collection prior to yearly shutdown ensures minimal down-time

"The reduction in employee risk, as well as the operational savings Spot provides, are unparalleled."

- Dean Berlin, Lead Technology Analyst



Woodside

Remote Inspection

- Reducing risk and improving efficiency in routine inspections
- Gauge reading, leak detection, noise anomaly detection, thermal inspection, gas detection



“Every 12 hours, we follow the same path through the plant, and we’re assessing situational awareness. Spot is going to capture things we may not notice or that we’re not always around to see.”
Christopher Phillips - Woodside Production Technician

Construction:

POMERLEAU

Site Documentation:

- Automating capture of nearly 5,000 images weekly on 500,000 Sq.ft. building project
- Saving approx. 20 hours of work per week through streamlined process

Oil & Gas:



Remote Inspection:

- Deployed on oil rig Mad Dog, nearly 200 miles offshore
- Scanning for abnormalities, tracking corrosion, and checking gauges
- Making work on the rig safer by reducing number of people on-site

Manufacturing:

KVERNER

Asset Management:

- Automating tracking and mgmt. of 100,000 assets in 200,000 sqm shipyard
- Performing daily survey rounds of the shipyard
- Capturing 360° photos and using computer vision to identify assets

Mining:



Seismic Survey and Gas Inspection:

- Monitoring seismic activity and sensing for dangerous gases pre and post blast
- Protecting human workers in the deepest base metal mine in the world

BostonDynamics





Thermal Inspection



Radiation Detection



Leak Detection



Noise Anomaly Detection



Search and Alert



Gauge Reading



Performance Art



Telemedicine



Gas Detection



Digital Twin Creation



Site Documentation



A close-up photograph of a yellow industrial robot arm, likely a Boston Dynamics model, positioned in a factory or construction site. The arm is the central focus, with its joints and mechanical components visible. The background is a blurred industrial environment with metal structures and pipes. A semi-transparent blue banner is overlaid across the middle of the image, containing the text "Automation in Action".

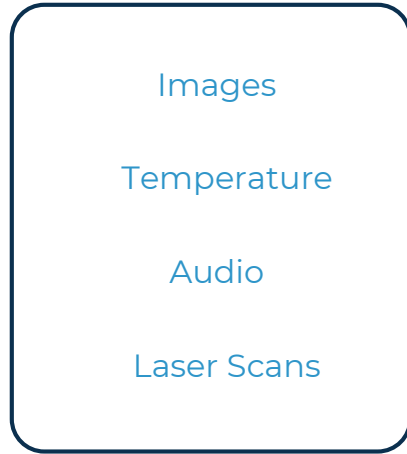
Automation in Action



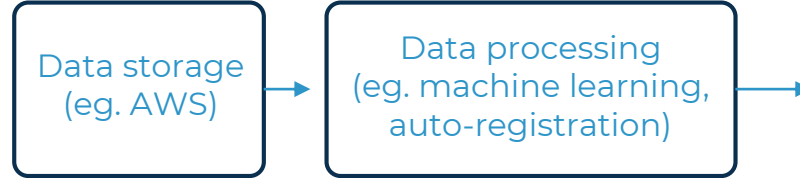


Spot as a System

Data Collection



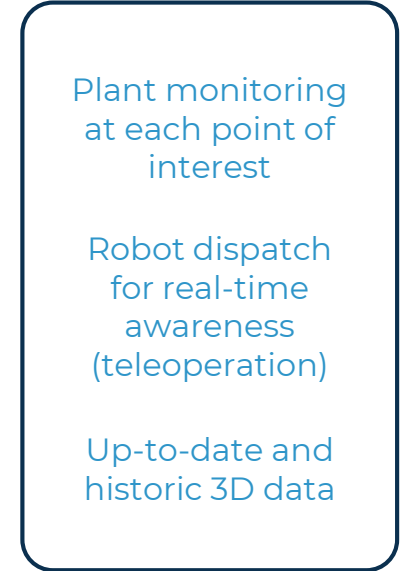
Data Handling & Analysis



Spot API Platform



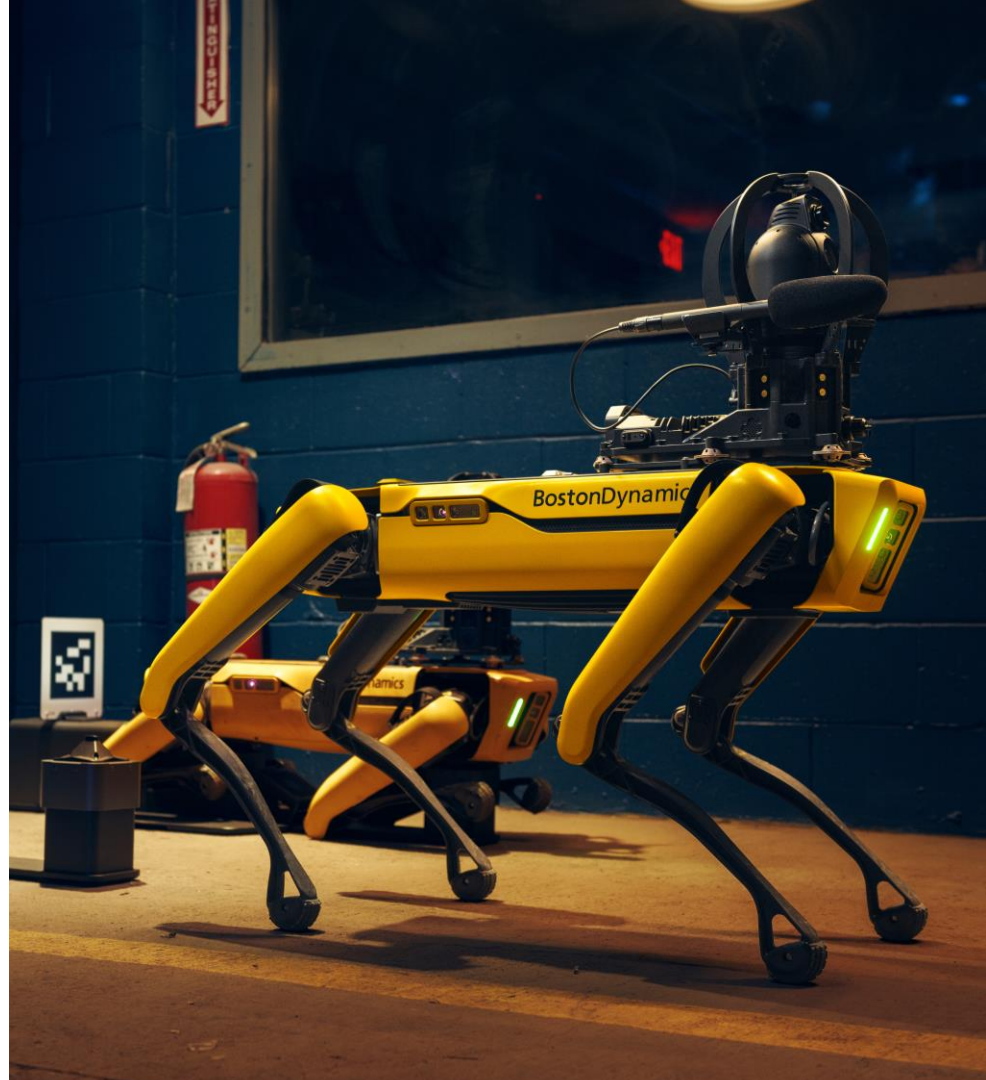
Output





Summary

- Transformative mobility
- Flexible platform for industrial solutions
- Dynamic Sensing through Autonomous Inspections
- ROI in safety, efficiency, and predictability



Thank you

Contacts

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<https://www.bostondynamics.com/spot-sales>

Come meet us at IMC - 2021



