

From Remote Process Management (RPM) to Automation Operations Management (AOM)

A proven method for de-risking automation in complex operations:

- Manufacturing, Construction & Space Infrastructure are high-value applications

Heritage: The first application of RPM was to perimeter event response. This architecture was then extended to Manufacturing Automation Management and then to Automation Operations Management (AOM).

RPM Manufacturing Case

Constraint: Skilled operator availability limited utilization of precision manufacturing equipment.

Architecture: Integrated video, thermal, audio, controller and sensor data with edge intelligence for exception-based oversight and remote response.

Deployment: Piloted with Dorsey Metrology and expanded through J&L / PCM across five precision manufacturing systems.

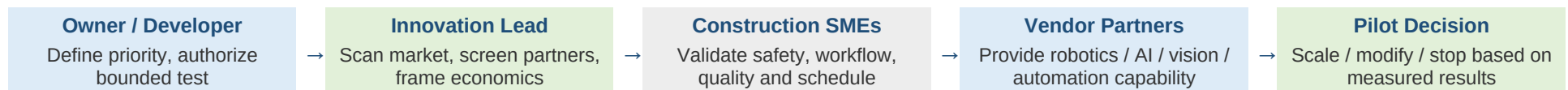
Historical results: Approximately 90% lower machine-operator time, ~3X available manufacturing window and >3X maximum output in the final implementation.



Durable Innovation Workflow

1. Define the high-value operating constraint and success metric
2. Research solution paths before selecting a technology
3. Identify and solicit candidate vendors / partners
4. Screen technical, commercial, integration and execution fit
5. Short-list options with internal SMEs and stakeholders
6. Design a bounded pilot with risk controls and clear ownership
7. Measure → learn → scale, modify or stop

Example application: owner-sponsored construction automation pilot



The goal is not to force automation into the core operation. It is to create a low-risk path for testing where automation can materially improve labor leverage, quality, cycle time or capacity.