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Summary

Automation Quick Dive

AI for Inspections: Make or Buy?

Four ways to get Vision AI for inspections – but what are the relevant aspects, pros, and cons of each? This is your Quick Dive summary, plus additional insights to help you figure out which path is right for your organization.

 **Rewatch**
the Quick Dive

 **Book a Demo:**
[flynex.io > demo](https://flynex.io/demo)

 **Learn more:**
[flynex.io > vision-ai](https://flynex.io/vision-ai)



The Bottleneck

Data capture is solved.

Drones and sensors collect thousands of images across massive infrastructure in hours. This part is automated.

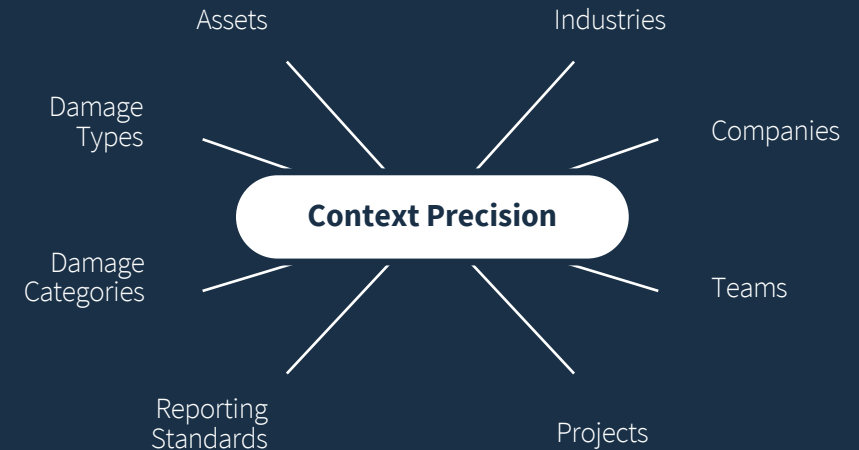
Data analysis is not.

Teams still spend weeks reviewing images manually, classifying defects, and compiling reports. The bottleneck just moved downstream.

And it's getting worse.

The more efficiently you capture, the faster unprocessed data piles up.

Context Precision



Generic AI is trained on generic data. But infrastructure inspection is never generic. Every industry, company, and project operates in a different context – with different standards and different definitions of what counts as a defect. **Vision AI only works when it truly understands your operational reality.**

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Four Ways to Get Vision AI

	Pre-Trained Models	Custom-Trainable Platforms	In-House Development	Managed Custom AI ★
Speed	✓ Live in days	~ Weeks to set up	✗ 12+ months to production	✓ 3–5 months to production
Customization	✗ None	~ Pseudo-custom	✓ Fully custom	✓ Trained on your assets & defect classes
Accuracy	✗ 40–60% on infrastructure	~ Better than pre-trained	✓ High (if done right)	✓ 95%+ on your data
IP & Data	✗ Vendor lock-in, data leaves your system	~ Your images, their platform	✓ Full ownership	✓ Full IP rights & data sovereignty
Operations	✓ Low effort	✗ Expertise gap, no E2E	✗ Permanent AI team + MLOps commitment	✓ Managed platform, training & MLOps
Cost	✓ Low (pay-per-use)	~ Medium	✗ High (team, infrastructure, maintenance)	~ Predictable, modular
Flexibility	✗ No adaptation possible	~ Limited to platform capabilities	✗ Limited (locked into own architecture)	✓ Modular, scalable, evolving
Best for	Standard tasks (counting, blurring)	Teams with ML experience	Orgs where AI IS the core business	Infrastructure operators who need precision without building AI

Which Vision AI Approach Fits for You?

Pre-Trained Models might be right if...

- Your use cases are standardized and don't require context-specific accuracy
- Good enough detection is good enough for your decisions

Custom-Trainable Platforms might be right if...

- You have in-house ML expertise and capacity to own the training process
- You don't need the AI to be embedded in your operational workflow

In-House Development might be right if...

- AI development is a strategic capability you want to build and maintain long-term
- You have the runway for 12+ months before first production results

Managed Custom AI might be right if...

- You need precision on your specific assets – but building AI isn't your core business
- You want production-ready results in months, with full control over your data and IP

Not sure yet?

Let's find the right path together – based on your data and use case.

Click here to book a 30-min assessment: flynex.io > assessment

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The Custom Automation Ecosystem for Infrastructure Inspections.

A modular ecosystem that brings together data from drones, robotics, and sensors – and turns it into actionable results. One platform, covering the full inspection workflow: from planning and capture to AI-driven analysis and system integration.

A new era of clarity.



Book a Demo:
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Learn more:
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