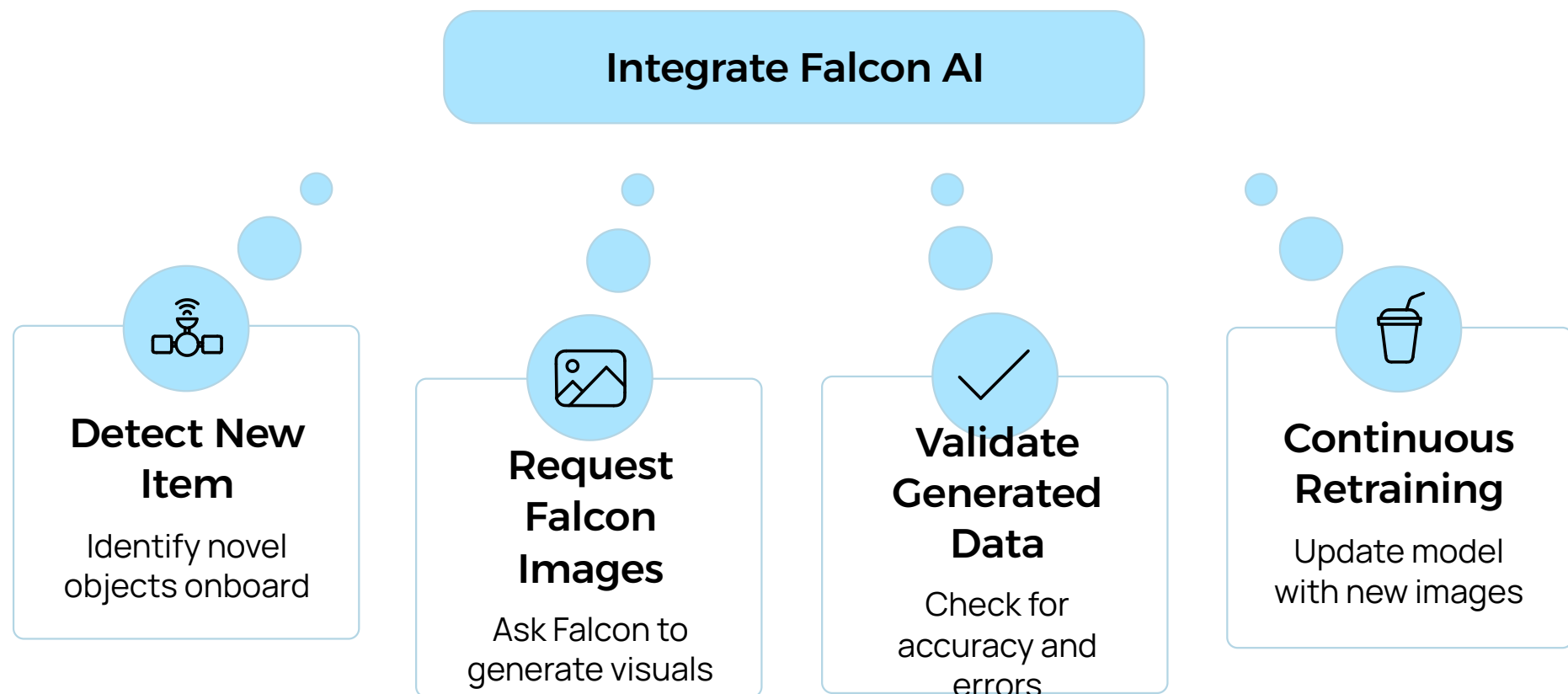


Orbital Watch: The Future of Industrial Safety

A Multimodal AI Auditor engineered for the modern industrial landscape. Trained on Intel i5 architecture and powered by Falcon AI for uncompromising reliability.

**MY IDEA IS TO INTEGRATING FALCON AI WITH
OUR AI MODEL SO IF THERE IS NEW ITEM IN
SPACE STATION IT WILL TELL TO FALCON AI TO
GENERATE IMAGES AND TRAIN THAT WE CAN
UPDATE OUR MODEL AND TRAIN OUR MODEL
CONTINUESLY WIHOUT ERRORS AND**



The Silent Crisis in Industrial Environments

Despite advancements in manufacturing, manual safety inspections remain a critical vulnerability. Human error and fatigue lead to "invisible" hazards that jeopardize lives and assets.

- Subjective manual reporting
- High costs of regulatory non-compliance
- Delayed response to missing safety equipment



90%

Preventable Incidents

Of industrial safety accidents are avoidable through real-time, persistent monitoring.

The Orbital Solution: 7-Class Precision

Our system maintains a persistent watch over critical life-saving assets using advanced visual recognition.



Oxygen & Nitrogen



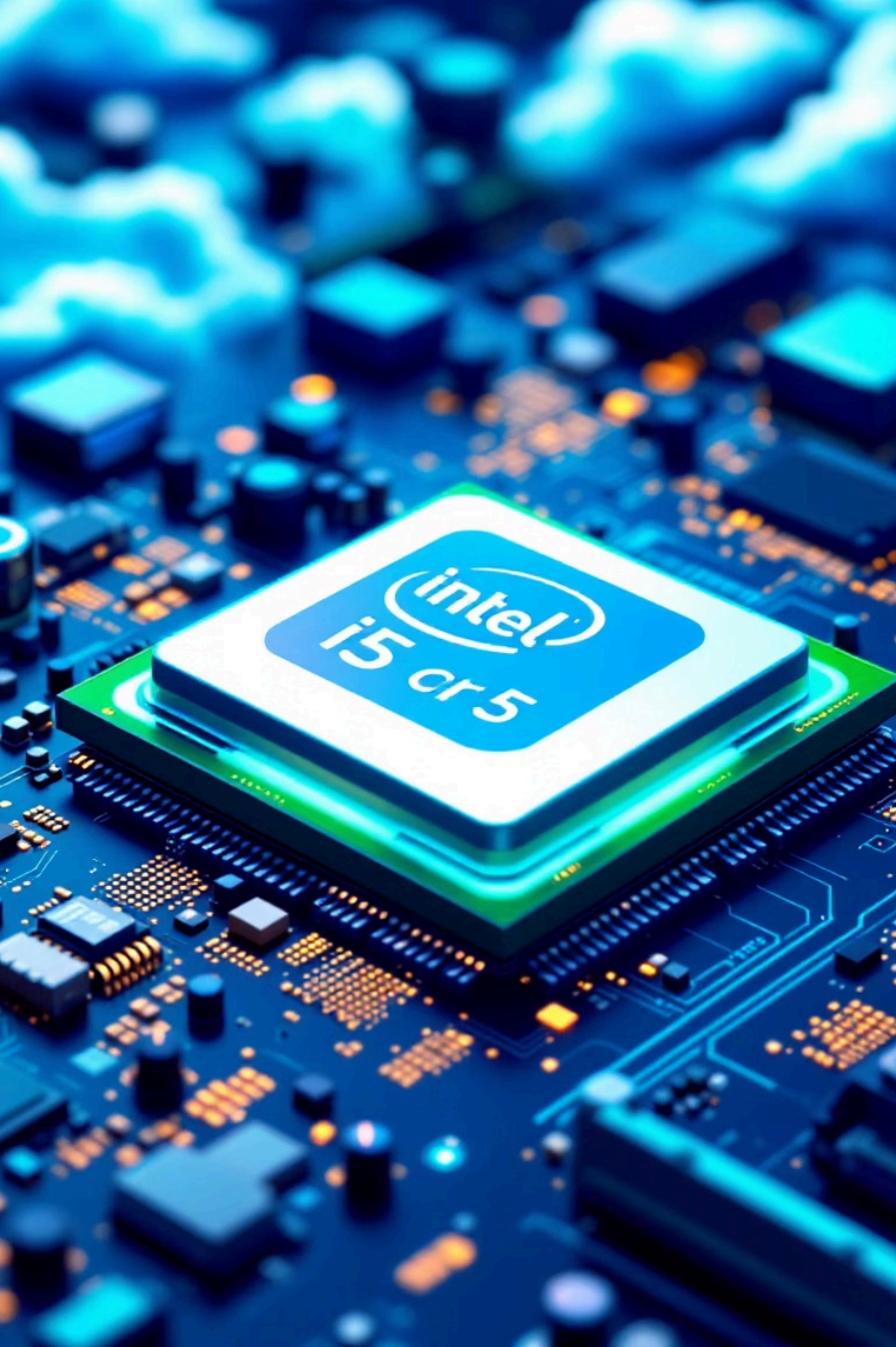
Alarms & Extinguishers



First Aid & AED



Safety Switches

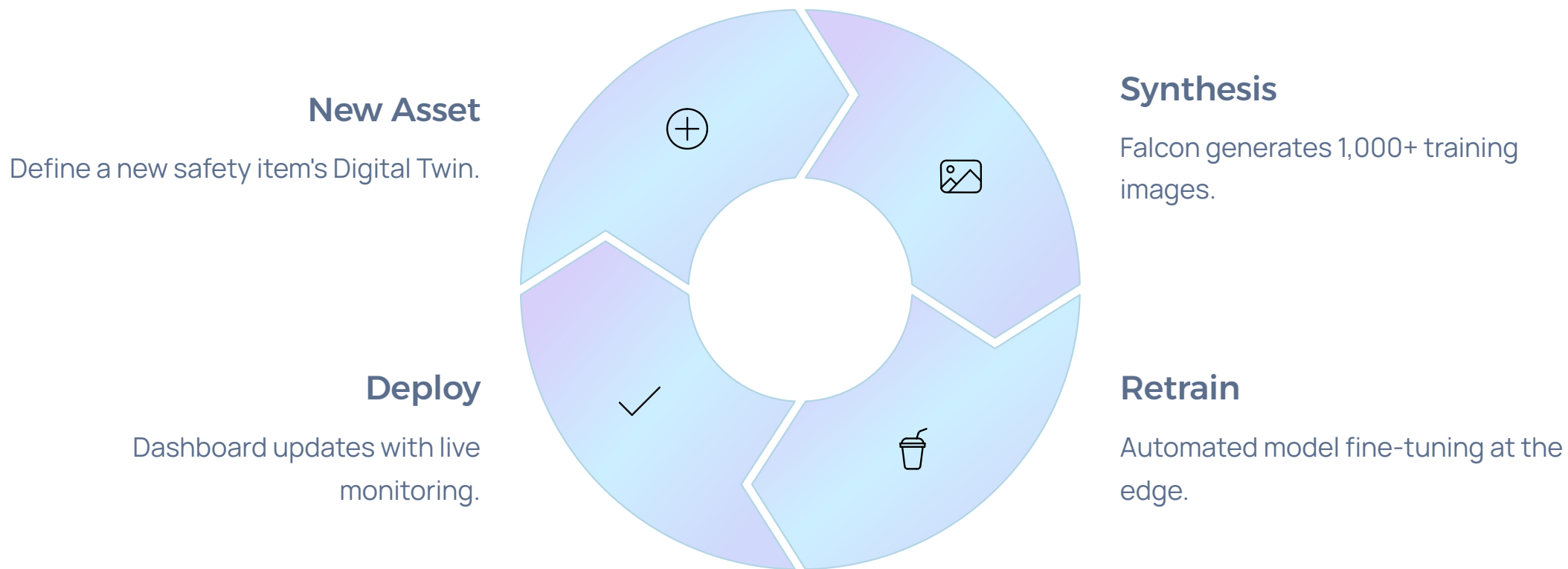


we used cpu i5 8gen to
train this model with only
320p to simulate real
problems



Zero-Human Data Loop

Our automated retraining pipeline ensures the system evolves with your facility in minutes, not months.



Engineering Through Constraints

True innovation occurs when resources are limited. We proved that high-end safety AI doesn't require high-end hardware.

1

Challenge

No high-end GPUs available for deployment on remote factory floors.

2

Solution

Optimized YOLOv8n using OpenVINO and hardware-specific quantization for Intel i5.

3

Outcome

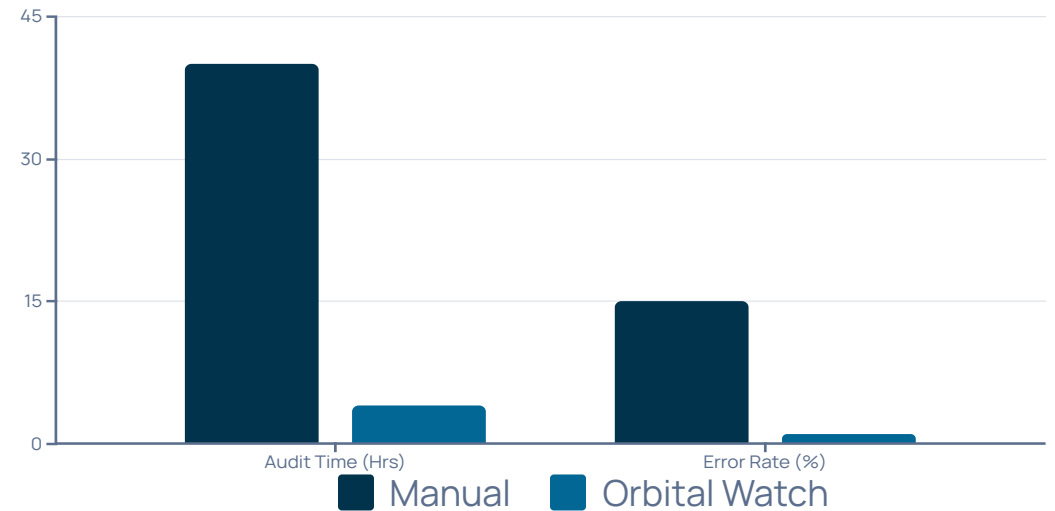
Seamless deployment on existing, low-cost facility workstations with high FPS.

Impact & Global Scalability

The Industrial Network

Orbital Watch scales from a single workcell to a global network of interconnected factories.

- Standardized safety audits across regions
- Predictive maintenance of safety gear
- Centralized compliance dashboard



Join the Future of Autonomous Safety

- ❏ **Final Summary:** Orbital Watch provides a low-cost, high-impact solution to industrial negligence, ensuring that every life-saving device is exactly where it needs to be, 24/7.

Explore the source code and contribute to safer workplaces.

[GitHub Repository](#)

Special Thanks to **Duality AI** for empowering our synthetic data pipeline.