



Computer Vision

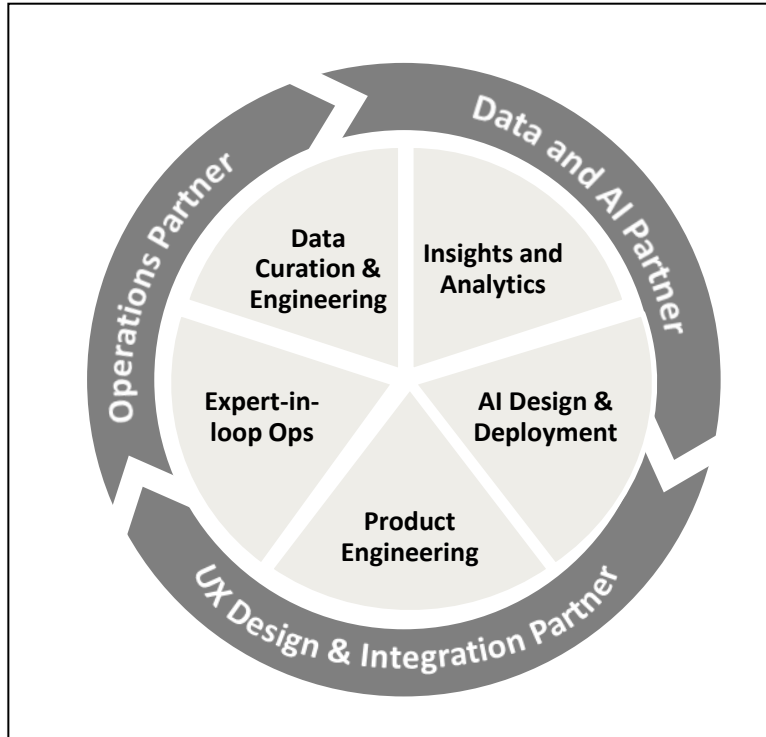
Vision Analytics for Manufacturing & Logistics



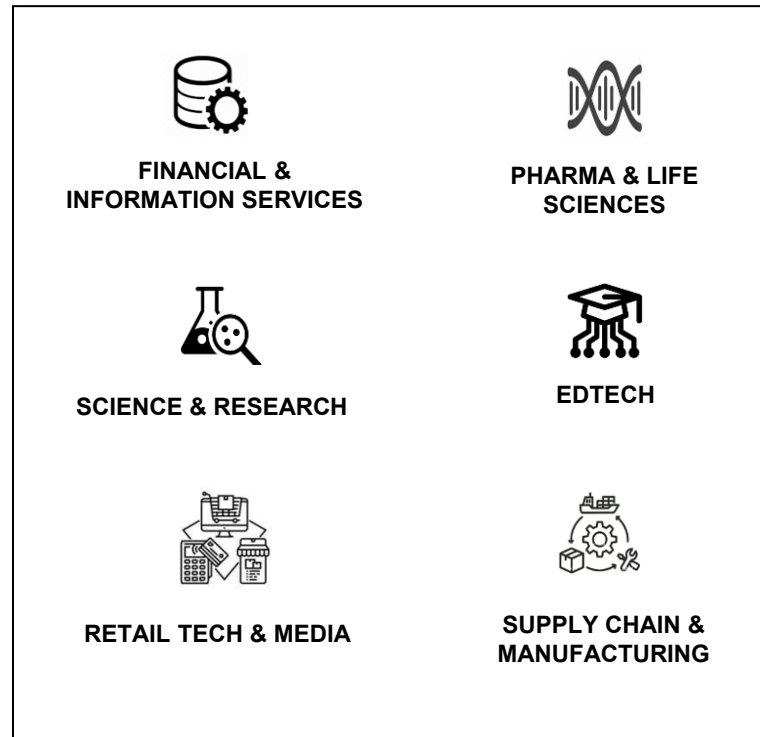


Straive helps clients operationalize Data Analytics & AI spanning Discovery, Design, Development, Deployment and Delivery

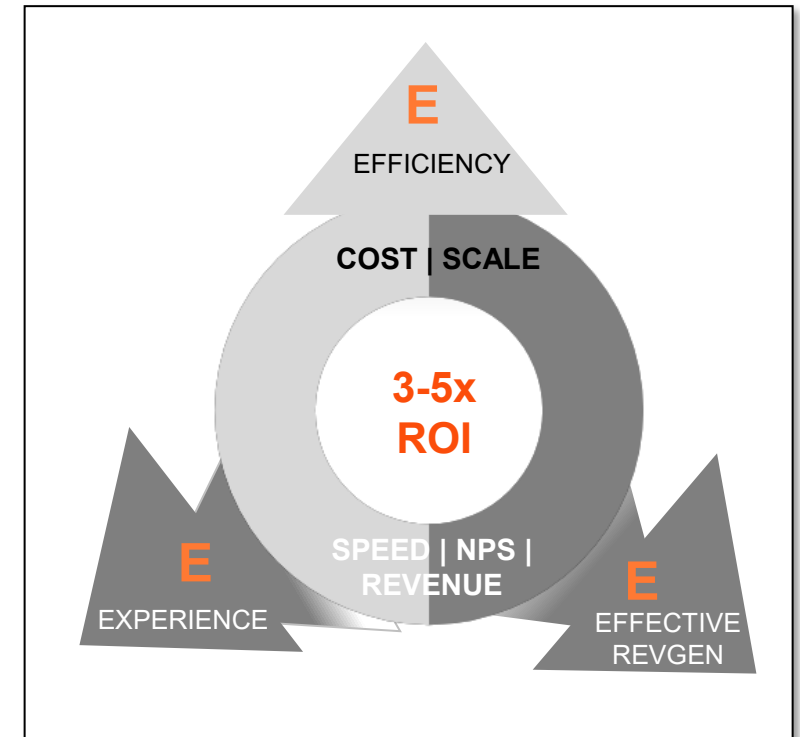
Three Capability Partners in one



Domain Specialist in Six Industries



“Triple-E” Trifecta Impact



18K

Employees

1/3rd

Masters & PhDs

200+ Clients

30+ countries

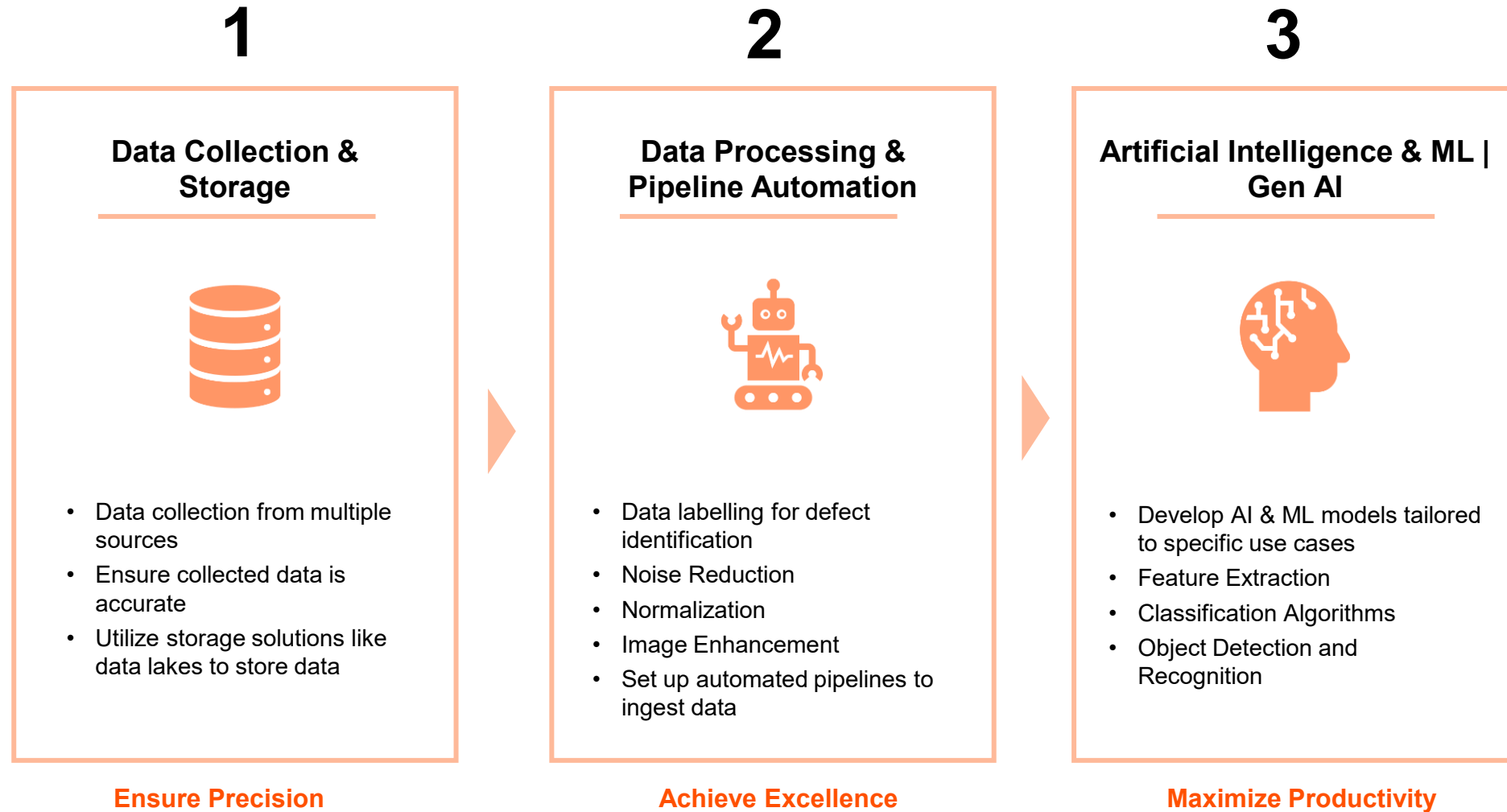


Delivery across 5 continents



Owned by Top 2 PE with \$300Bn+ of AUM

We empower our clients with advanced data & analytics, providing comprehensive turn-key solutions tailored to meet specific industry needs.



Our expertise lies in leveraging AI and Gen AI-led computer vision technologies, designed to address object & action anomalies both on and off the production line.

1. Object Detection

- Identify and classify defects in products to ensure quality and compliance

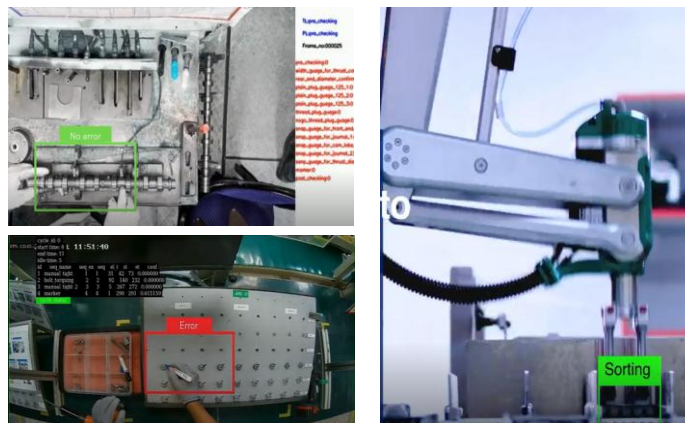


Illustrative Use-cases –

- Raw Material
- Packaging Defect Detection
- Product Label Validation

2. Action Detection

- Monitor, identify, and classify errors or abnormalities in manufacturing processes



Illustrative Use-cases –

- Anomaly Detection in Processes
- SOP Compliance
- Assembly Verification



1. Off the Production Line:

- Detailed examination of samples post-production
- Use of high-resolution cameras for thorough quality checks
- Examples: Inspecting batch samples, conducting detailed quality audits, micron-level telescopic images



2. High-Speed Production Line:

- Real-time quality checks during manufacturing
- Integration with conveyor systems to avoid slowdowns
- Examples: Detecting defects in real-time, ensuring correct assembly

Our Computer Vision Solutions are meticulously designed to support Comprehensive Quality Control use-cases



1. Anomalies:

Identifies defects or irregularities in products.

Use-cases:

- Surface scratches or dents on metal parts
- Misalignment in assembled components
- Spots cracks or deformities in plastic molds

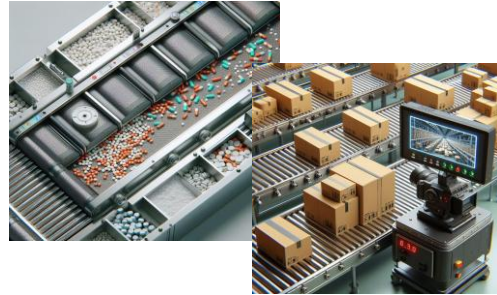


2. Measurement:

Ensuring products meet precise dimension checks

Use-cases:

- Measuring dimensions of components for precision
- Verifying the thickness of packaging materials
- Microscopic-level defect measurement



3. Counting:

Accurately counts products in production or packaging.

Use-cases:

- Counting pills in pharmaceutical packaging
- Automated Inventory Counting in Warehouses
- Counting Containers in Ports during loading and unloading



4. Video Analytics:

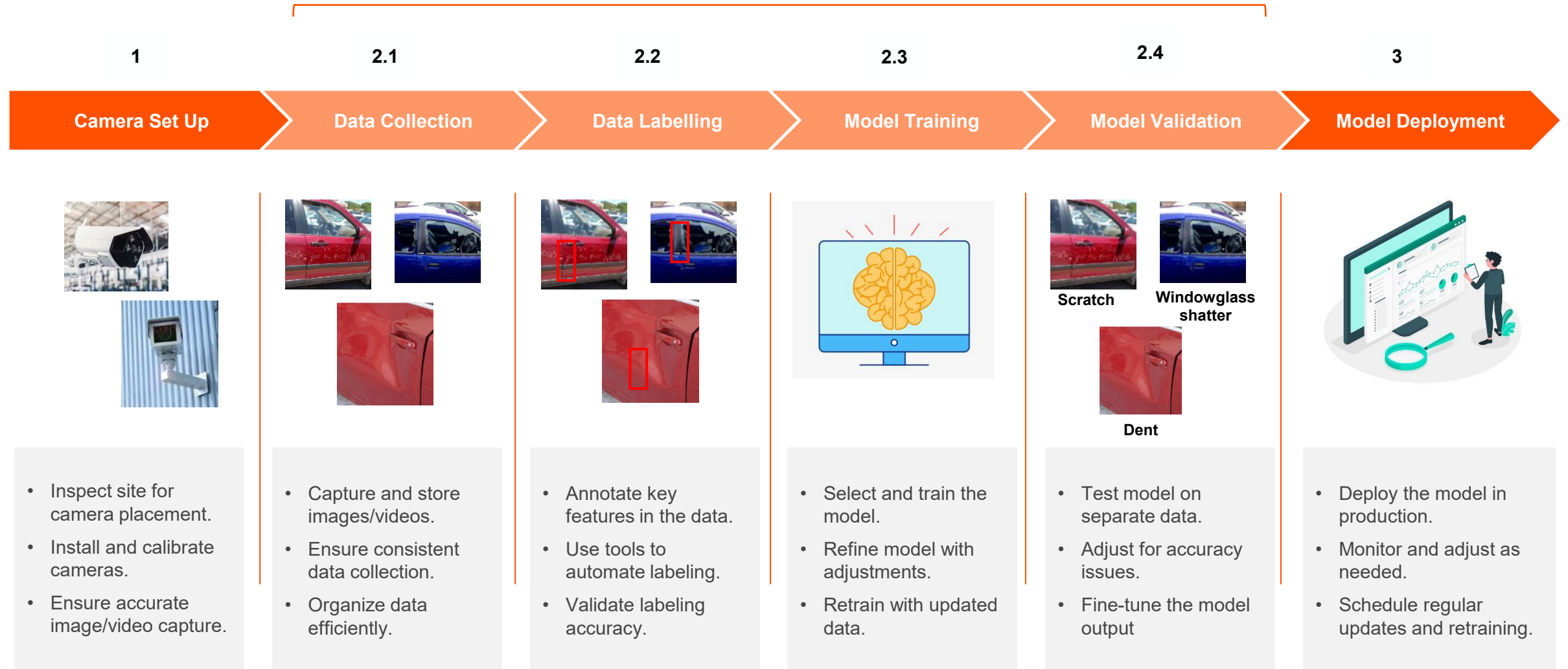
Analyzes video streams to monitor and ensure quality and efficiency.

Use-cases:

- Monitoring conveyor belts for jam detection
- Tracking assembly line performance over time
- Detects product orientation errors during packaging

Our Computer Vision approach follows 3 key steps and is widely used across industries delivering tangible benefits that drive business success

2. Model Development



Thank you



We leverage our unique people-process-tech framework to build the best-of-breed data analytics & AI solutions. By operationalizing this solution into your core workflow, we deliver real-world measurable impact and better ROIs through a combination of higher efficiency, elevated experiences, and enhanced revenues.

