EdgeSightAI
BY TECHSUR

CAPABILITY BRIEF
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FROM INTENT. TO IMPACT.

# Turn enterprise data into mission capability.

EdgeSightAI is TechSur's mission-focused data product engineering platform. Connect source-specific processing, reviewed product definitions, application generation, and cloud or edge delivery in one reusable lifecycle for readiness, maintenance, and logistics.

## From enterprise data to the point of decision.

Review schema-grounded recommendations with your team, inspect generated application outputs, and validate the selected destination against agreed criteria.

## A connected engineering architecture

PLATFORM CONTROLS ACROSS THE LIFECYCLE

Human review · roles & module permissions · auditable activity

01
### Connect & curate
Sources → Databricks Bronze / Silver / Gold

02
### Review the definition
Schema-grounded KPIs, personas, and mappings

03
### Generate & verify
Services, UI, migrations, and configurable checks

04
### Configure the product
Application, APIs, views, and selected data

**One reviewed product** · Cloud · AWS ECS / ECR, OVH · Edge · KubeEdge

Configured architecture, not an offline authoring claim. Source access, Databricks pipelines, document staging, and AI-provider services must be available where the workflow requires them. Runtime capability follows the selected package and target validation.

## Source support: match the processing to the source

| | |
|---|---|
| **Structured** | PostgreSQL, MySQL, and SQL Server connections; CSV, TSV, Parquet, and Excel ingestion. MySQL and SQL Server orchestration requires configured external jobs. |
| **Semi-structured** | JSON files, including multiline JSON reading through configured Databricks processing. |
| **Unstructured** | PDFs and supported images through Databricks AI parsing/extraction. Document staging, supported AI capabilities, and a configured pipeline are required. |

Amazon S3 is a source connection; configured processing determines usable formats. Validate source access, format availability, document staging, and required Databricks capabilities for the intended deployment.

**Inspectable engineering:** generated Spring Boot backend, React / TypeScript frontend, database migrations, and delivery artifacts. Compile and Docker verification are configurable. Inspect check and repair results, including partial or failed outcomes.

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REVIEW. VALIDATE. REUSE.
Mission-focused data products.

# AI accelerates. Your team stays in command.

Review and edit schema-grounded KPIs, personas, dashboards, and source mappings. Examine provenance where available. Platform roles, module permissions, auditable activity, and CSV export support review. Inspect generated code and verification results. Synchronization protects user edits and reports audit counts.

Platform controls and generated-product policies are distinct. Configure and validate product permissions, security boundaries, and operating policies in the pilot. Universal lineage and automatic policy enforcement are not assumed.

# Cloud or edge: define the operating scope

## Cloud · AWS ECS / ECR, OVH

Connected access to the configured application, APIs, data views, and dashboards.

## Edge · KubeEdge

Selected interfaces, services, APIs, queries, dashboards, and local records when packaged and validated.

Fresh enterprise/Databricks loads, cloud AI, and new cloud deployments or updates require connectivity. Local AI depends on configured models and device resources. Test intended hardware under documented network conditions; automatic sync-back is not assumed.

# Illustrations, evidence, and maturity

The homepage shows an illustrative platform workflow and product concept, not runtime evidence. Aircraft Lifecycle Intelligence is an illustrative application with sample data and labeled partial or proposed features. These illustrations do not demonstrate backend execution, generation, deployment, or offline operation.

Source inspection supports implemented workflow paths. The presentation reports an AWS-simulated KubeEdge laboratory proof of concept with selected packaged functions available after the enterprise link was removed. This is lab-stage evidence, not field validation or production authorization. A pilot validates end-to-end processing and target-environment continuity.

# Mission-pilot deliverables

01. **Mission scope** Decision, representative sources, source inventory and mappings, baseline, and agreed acceptance criteria.
02. **Reviewed definition** Customer-reviewed product specification, personas, KPIs, views, and access needs, including identified data gaps.
03. **Inspectable application** Generated services, APIs, UI, migrations, and configurable verification and repair results, including unresolved outcomes.
04. **Target validation** Configured cloud or edge package and a test record against the selected environment, hardware, network conditions, and acceptance criteria.
05. **Measured findings** Decision-support, quality, delivery-effort, and reuse findings with next-step recommendations.

Agree the baseline and success measures first. Include local-service availability under documented network conditions only when edge continuity is in scope. No achieved performance numbers are implied.

## Scope a Mission Pilot

**Contact TechSur directly** ↗ **contact@techsur.solutions**

Use business contact details and unclassified, non-sensitive case-study information.

Pilot inquiry privacy notice: edgesightai.com/privacy
Illustrated platform workflow: edgesightai.com/#in-action
Capabilities and evidence: edgesightai.com/capabilities