

invariant.ai

Lifecycle management of AI systems.

Platform for the deployment, governance, monitoring and lifecycle management of AI systems in critical processes.

Indispensable for the management of our algorithms and open to third-party development systems.

Oròbix named in the **2021 Gartner “Market Guide for Artificial Intelligence Service Providers”**, published 26 July 2021 - ID GOO732756

Gartner defines the market for external AI service providers as a subset of the broader market for data and analytics (D&A) service providers. It covers consulting, implementation and managed services for AI techniques. Services span multiple phases of AI execution (i.e. strategy, design, deployment and ongoing management) and may also include AI governance, security, audit and monitoring.

1 DEPLOY MODELS

Take models to production with **guaranteed cycle times**, providing **complete observability and traceability of models and data** through time.

2 MONITOR MODELS AND DATA

Identify anomalies in the data or during model execution and evaluate the actions needed to ensure model performance through time. **Monitor performance and drift**, and identify what data to collect to improve said performance following an **active learning approach**.

3 GUARANTEE COMPLIANCE

Manage risks deriving from the adoption of automated decision systems by integrating AI solutions into operational processes **ensuring traceability and interpretability**.

4 DEFINE ROAD TO PRODUCTION

Define the procedures for the adoption of AI systems in production, from validation to monitoring. Foster **interoperability** and enable **cross-compatibility between different environments** (e.g. Linux & Windows), by standardizing the messaging protocols between distributed functions, leveraging state-of-the-art stream-messaging technologies.





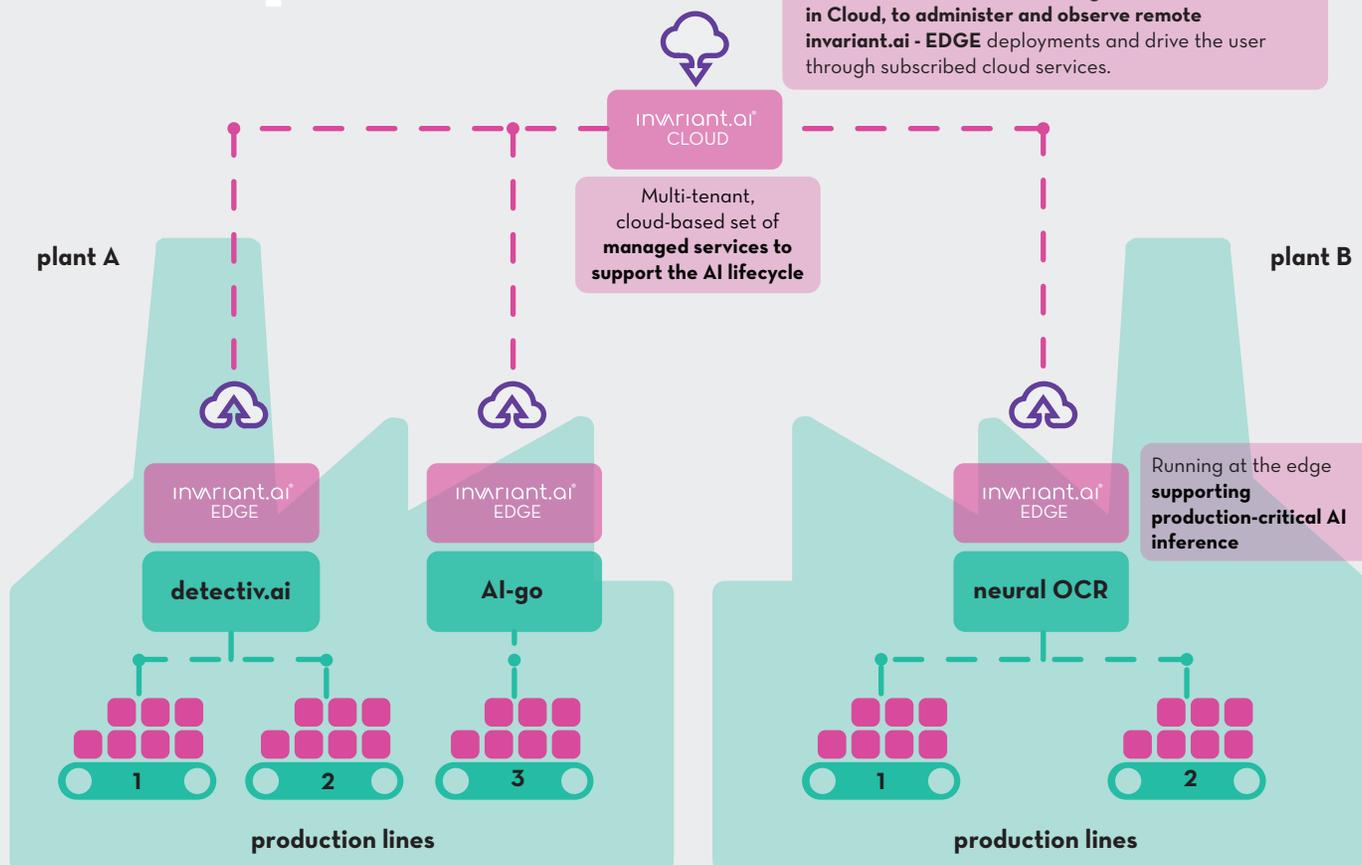
Monitoring Governance Compliance

1. AI FRAMEWORK: track ML models evolution from the very first training through every improved production deployment.

2. DATA PLATFORM: big data management solution working behind the scenes to feed cloud services with qualified data harvested from the field.

3. MONITORING PLATFORM: dashboarding, alerting and reporting to support near-real-time telemetry and process analytics.

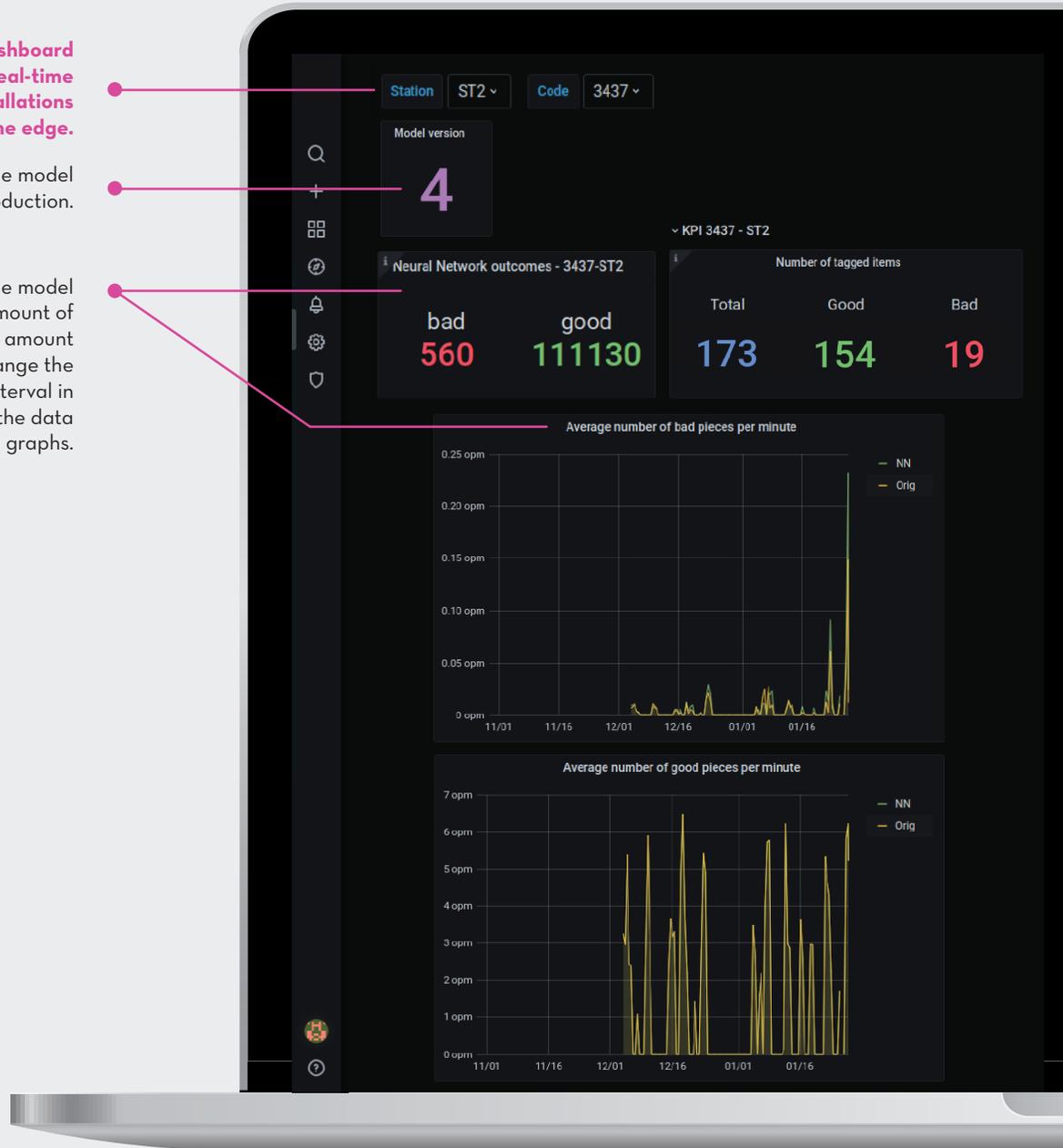
4. SERVICE PORTAL: Use a single control dashboard in Cloud, to administer and observe remote **invariant.ai - EDGE** deployments and drive the user through subscribed cloud services.

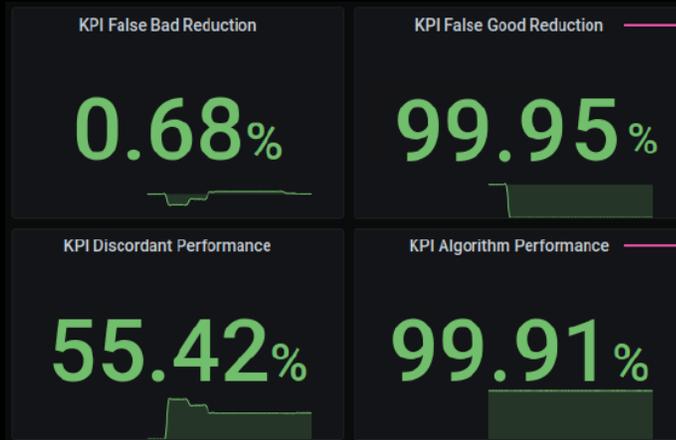


Use a single control dashboard in Cloud to display real-time data, from several installations at the edge.

Identify at any time the model version currently in production.

Display an overview of the model status (e.g. the amount of good/bad parts and the amount of tagged parts). Change the data aggregation time interval in real time and visualise the data as graphs.





Display custom statistics for each installations at the edge and monitor process-related KPIs (e.g. false bad reduction or the algorithm performance).



Control the algorithm response times and define alarm threshold.