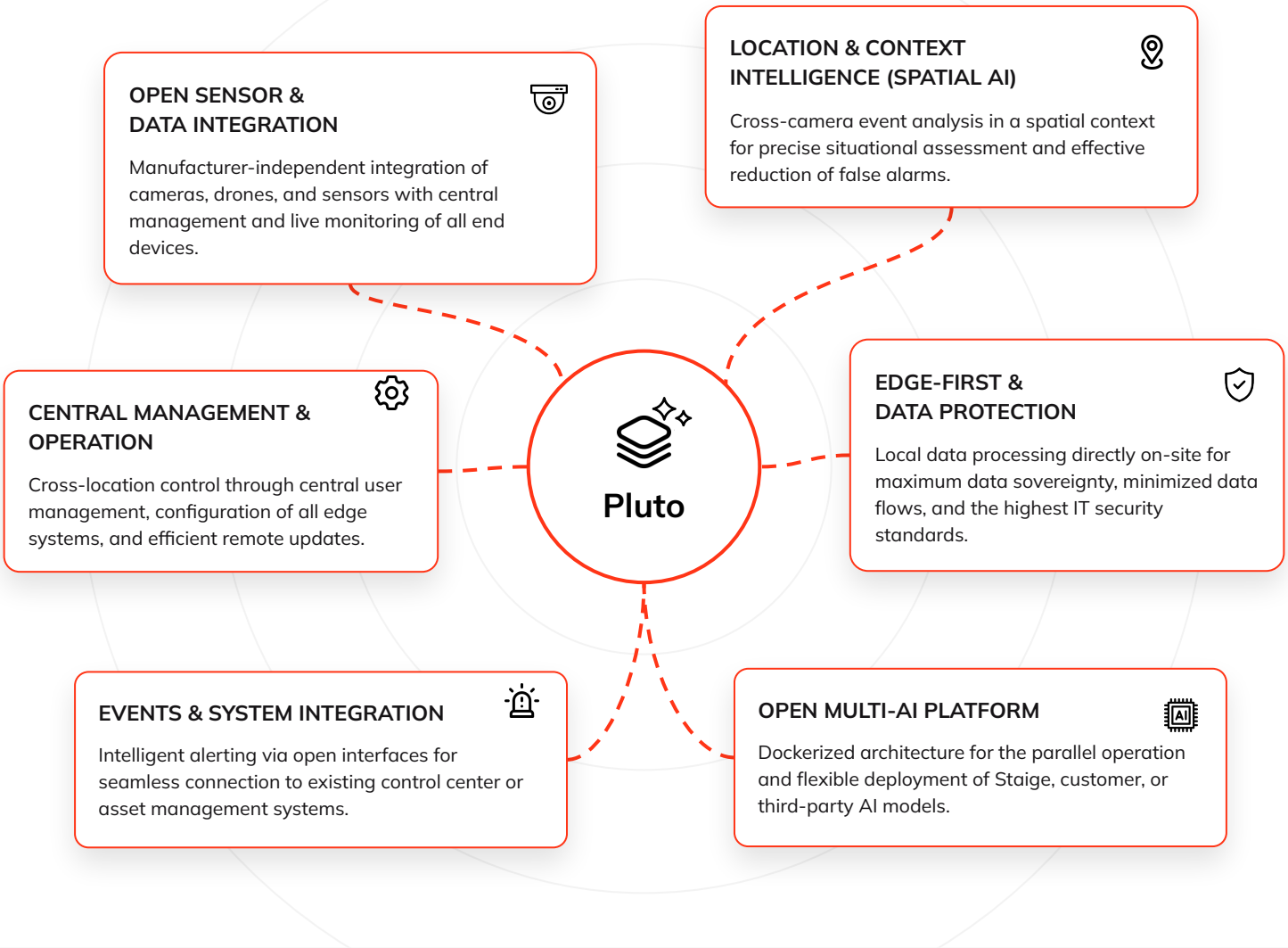
PLUTO – THE OPEN EDGE IoT PLATFORM FOR SECURE, SCALABLE SENSOR AND AI APPLICATIONS.

Energy and infrastructure operators face the task of operating heterogeneous sensors, existing camera infrastructures, and new AI applications reliably, in compliance with data protection laws, and scalably across many, partly security-critical locations. **Our IoT platform forms an open, manufacturer-independent edge framework for this.**



THE PLUTO EFFECT

ADDED VALUE FOR OPERATORS

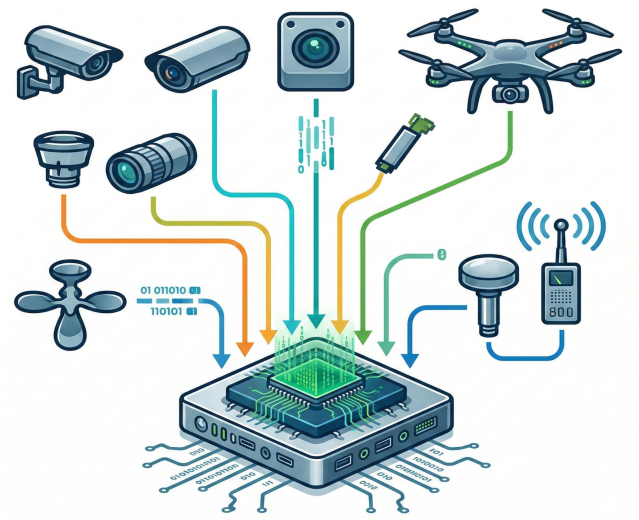
- Unified platform instead of isolated solutions
- Scalable from individual locations to nationwide networks
- Future-proof thanks to an open architecture
- Use of existing infrastructure
- Cross-camera, context-based AI instead of single-camera logic

OPEN SENSOR & DATA INTEGRATION

Manufacturer-independent integration of cameras, drones, and sensors with central management and live monitoring of all end devices.

The platform is designed to be **sensor-agnostic**:

- Connection of existing, heterogeneous camera infrastructures
- Integration of drone imagery, mobile cameras, and special cameras
- Connection of additional sensors (e.g., environmental, movement, status data)
- Central management of all sensors and end devices
- Live access to video and sensor data
- Continuous online/offline monitoring of all components



EVENTS, ALERTS & SYSTEM INTEGRATION

Intelligent alerting via open interfaces for seamless connection to existing control center or asset management systems.

- Generation of events and alerts directly from the platform
- Configurable notifications (e.g., security-relevant events
- Forwarding of alerts:
  - into the platform's own systems
  - or into existing customer systems (e.g., control center, security, or asset management systems)
- Open interfaces for easy integration into existing IT/OT landscapes

AI PLATFORM (MULTI-AI CAPABLE & OPEN)

Dockerized architecture for the parallel operation and flexible deployment of Staige, customer, or third-party AI models.

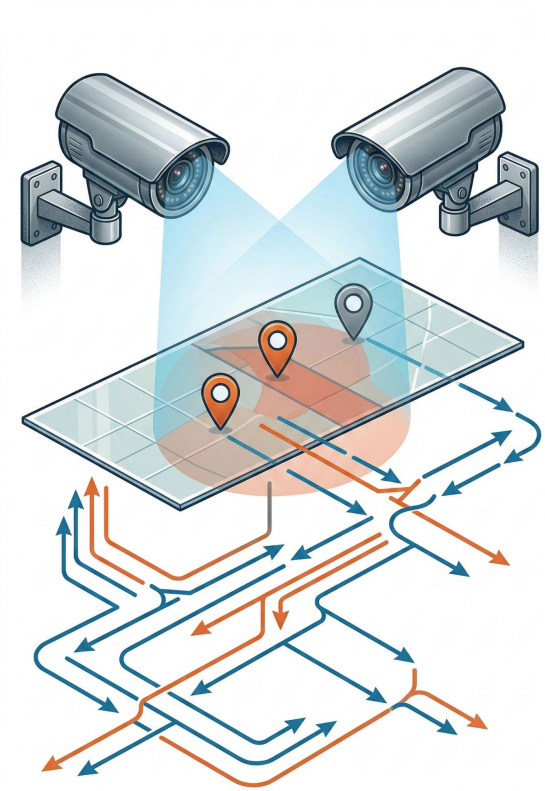
- Operation of multiple AI models in parallel on the same edge infrastructure
- Use of own AI applications (e.g., perimeter protection, event or anomaly detection)
- Dockerized architecture:
  - Integration of customer's own AI models
  - Integration of AI solutions from third-party providers
- Flexible activation per location, camera, or use case

LOCATION & CONTEXT INTELLIGENCE (SPATIAL AI)

Cross-camera event analysis in a spatial context for precise situational assessment and effective reduction of false alarms.

The platform **does not understand sensors in isolation**, but rather in a spatial and logical context:

- Integration of GPS and geospatial data
- Precise localization of sensors on maps, site plans, and layout plans
- Logical networking of multiple cameras per location, mapping of movement directions, transitions, and zones
- Depiction of movement directions, transitions, and zones
- Spatial AI:
  - AI models work across multiple cameras
  - Events are evaluated in the context of multiple viewing angles
  - Reduction of false alarms through spatial logic
- Basis for complex scenarios such as site monitoring, perimeter logic, or object tracking



EDGE-FIRST & DATA PROTECTION

Local data processing directly on-site for maximum data sovereignty, minimized data flows, and the highest IT security standards.

- Data processing locally on the Edge
- No mandatory cloud transmission of sensitive raw data
- Minimized data flows
- Full data sovereignty with the operator
- Fulfillment of the highest requirements for data protection and IT security

CENTRAL MANAGEMENT & OPERATION

Cross-location control through central user management, configuration of all edge systems, and efficient remote updates.

- Role and user management
- Central configuration of all edge systems
- Remote software and AI updates
- Monitoring of system statuses, versions, and availabilities

OUR OFFER:

PROOF-OF-CONCEPT (POC) IN 6-8 WEEKS

Validate the added value for your company quickly and with minimized risk.

HARDWARE-AGNOSTIC INTEGRATION

We use your existing IP camera infrastructure. Through our Edge AI boxes, we make your existing hardware AI-capable without expensive new purchases.

FOCUS ON PERSONALIZED USE CASES

We do not develop standard, off-the-shelf solutions. Together, we define your specific challenges and train the AI exactly to your individual requirements.

MODULAR & SCALABLE INFRASTRUCTURE

Our system is modular. Start with one use case at one location and effortlessly scale the solution to your entire network thanks to the flexible Pluto architecture.

WHY STAIGE? EXPERIENCE THAT MAKES THE DIFFERENCE

We don't just talk about the future – we are already building it. Benefit from a proven technology history:

AI-PROVEN SINCE 2017

Long-standing experience in the development and implementation of highly complex computer vision models.

OVER 1,400 LOCATIONS MADE INTELLIGENT WITH AI CAMERA SYSTEMS

A globally proven network that delivers reliable data daily and optimizes processes.

READY FOR THE DIGITAL TRANSFORMATION OF YOUR INFRASTRUCTURE?

Let us create real added value together and shape your security proactively. Contact us for a tailored analysis of your specific requirements.

E-Mail: industries@staige.com