ProjectX

CRITICAL INFRASTRUCTURE · SOLUTION BRIEF

# Decisions at remote sites that cannot wait for an export.

Energy, water and transport operators run remote sites with intermittent connectivity, where an operational decision cannot wait for a data pipeline to catch up. The platform brings the pillars to the site and keeps working when the uplink does not.

## The story

Critical infrastructure is defined by the edge. The sites are remote, the connectivity is intermittent, and the operational question — is this reading an anomaly, is this person meant to be here — has to be answerable locally. So Video Intelligence matters for the recording that keeps working when the uplink drops, the Cloud & Infrastructure pillar for the backups and durable storage that mean a site outage is not a data loss, and Operational Intelligence for correlating physical and logical signals into a decision. The deployment story is the differentiator: the same platform runs on an edge node fully offline.

## Use cases

### Recording that survives the uplink

Camera ingest that keeps recording when the connection drops and reconciles when it returns, so an incident at a disconnected site is still captured.

### Durable backups across providers

Backup policies with cross-provider copies, so a site outage is a failover rather than a loss, and the copy does not live only where the original did.

### Correlate physical and logical signals

A question that joins a sensor reading, a camera and an access record becomes one plan, authorized leg by leg in the pillar that owns each dataset.

## Requirements, and where they are answered

| Requirement | Answered by |
|---|---|
| Recording that survives the uplink | Ingest that keeps working offline and reconciles on return |
| A site outage must not be a data loss | Backup policies with copies at a second provider |
| Durable storage at the site | Block volumes with recorded, restorable snapshots |
| Physical and logical signals, one answer | Cross-pillar correlation, authorized leg by leg |

## Questions buyers ask

**What happens when a site loses its uplink?**
The site keeps working. Camera ingest keeps recording and reconciles when the connection returns, and the edge deployment runs the same platform offline — an outage is an event, not a data loss.

**Can it run fully offline?**
Yes. The same platform runs on an edge node with no connectivity, which is the deployment the most sensitive sites use.

**How do we start?**
With a single site: one pilot at published rates, on its own credit balance. The platform spreads to further sites when the pilot has earned it.