FROM OT BLIND SPOTS TO CENTRALIZED THREAT VISIBILITY

Cyber resilience for continuous mining and metallurgical operations

KAZZINC | KAZAKHSTAN

PROJECT OF THE YEAR 2026

5
INDUSTRIAL SITES
Full rollout target

3
REGIONS
Kazakhstan program scope

24/7
PASSIVE VISIBILITY
After site commissioning

~5,000
PERSON-HOURS
Estimated 2026 project effort

HOW THE MONITORING MODEL WORKS

Conceptual architecture - no production topology disclosed

01 INDUSTRIAL OT
Controllers and networks
PRODUCTION

→

02 PASSIVE COLLECTION
Mirrored traffic only
DEPLOYING

→

03 CENTRAL VISIBILITY
Assets, flows, anomalies
LAUNCHED

→

04 SIEM / OT-SOC
Incident correlation
IN TESTING

2021 PILOT / OBSERVED

One monitored industrial footprint

70	186	273
OT ASSETS	RELATIONSHIPS	TRAFFIC FLOWS

All simulated test events detected; no deployment-related interruption

FIVE-SITE ROLLOUT / PLANNING SCENARIO

Pilot footprint extrapolated x5; not actual results

~350	~930	~1,365
OT ASSETS	RELATIONSHIPS	TRAFFIC FLOWS

Forecast: 43,800 site-monitoring hours/year after commissioning

DELIVERY JOURNEY

- **2021** — Pilot validated
- **JAN 2026** — Five-site rollout started
- **OCT 2026** — Central platform launched
- **NOV 2026** — Five-site completion target

WHY THE GAP? 2021 proved safe technical feasibility; the Jan 2026 phase began a distinct, enterprise-scale rollout.

Scaling required common monitoring and response practices, local OT readiness and coordinated installation windows.

Planning figures are extrapolated from the pilot; full-rollout measurements require commissioning data.