AI Infrastructure Readiness Checklist for Control Rooms

iceotope

AI is transforming security control rooms. This checklist helps you assess your infrastructure, define your workload requirements, and plan a deployment that's resilient, sovereign, and silent.

Where should I run AI?

- ☐ **Cloud:** Batch processing, non-time-sensitive analytics, archive review
- ☐ **Edge:** Real-time call transcription, live video analytics, ESN-integrated AI
- ☐ **On-Premises:** Sensitive data (PNC integration), data sovereignty needs

Infrastructure Assessment

- ☐ **Acoustic environment:** Can equipment operate <50dB?
- ☐ **Space constraints:** Is there room for traditional server racks?
- ☐ **Cooling availability:** Chilled water? Raised floors? External cooling plant?
- ☐ **Power capacity:** Can electrical infrastructure support 10-20kW AI racks?
- ☐ **Network connectivity:** Latency to cloud? ESN integration requirements?

AI Workload Attributes

- ☐ **Data sovereignty:** Must sensitive data stay on premises?
- ☐ **Latency requirements:** Real-time (<50ms) or batch processing acceptable?
- ☐ **Uptime requirements:** Mission-critical 24/7 or business hours?
- ☐ **Scalability:** Single control room or multi-site deployment?

Sustainability & Cost

- ☐ **Net zero commitments:** Energy efficiency targets?
- ☐ **Water usage:** Constraints on water-based cooling?
- ☐ **TCO analysis:** Capital cost vs. 10-year operational cost?
- ☐ **Maintenance:** Internal IT capability or managed service needed?

Next Steps

- ☐ **Map AI use cases:** Match scenarios to infrastructure requirements
- ☐ **Assess capabilities:** Identify gap between SCO capabilities &. needs
- ☐ **Weigh infrastructure choices:** sealed liquid cooling, air cooling, cloud
- ☐ **Build the business case:** Model CAPEX, OPEX, and sustainability benefits

About Iceotope:

Iceotope engineers sealed, liquid-cooled infrastructure for the places AI needs to go next: control rooms, hospitals, factories, and beyond. Silent, self-contained, and built to perform where traditional hardware simply can't. Learn more at www.iceotope.com