

IRI · USA
Intelligence Research Institute



MIT · CSN EXECUTIVE WORKSHOP

GLOBAL INFRASTRUCTURE INTELLIGENCE SERIES

Self Aware Infrastructure
Designing Intelligent Cities & Adaptive Systems

SELF AWARE INFRA STRUCTURE

Designing Intelligent Cities,
Adaptive Systems & Autonomous
Urban Operations



Presented by Intelligence Research Institute
(IRI), USA



16th & 17th July 2026
10:00 AM – 4:00 PM



Limited to
50 Participants



₹ 24,500
Including GST



MIT-CSN Campus · Chhatrapati Sambhajnagar, Maharashtra, India



Strategic Context

The Urban Inflection Point

Cities are no longer simply collections of roads, pipes, and power lines. **They are becoming the largest intelligent operating systems on earth** — sensing, deciding, and adapting in real time.

This shift is driven by necessity: urban populations are growing, climate pressures are intensifying, and demands on infrastructure are outpacing traditional management approaches.

Understanding connected infrastructure is not a technical challenge. **It is a leadership challenge.** The executives and policymakers who grasp this transition earliest will define which cities thrive

The question is no longer "How do we build infrastructure?" — but "How do we design systems that sense, decide, and adapt on their own?"

Key Impact Areas



Livability

Intelligent infrastructure elevates quality of life



Sustainability

Adaptive systems reduce waste and environmental footprint



Resilience

Self-aware systems recover from disruption faster



Competitiveness

Nations with smart infrastructure attract investment



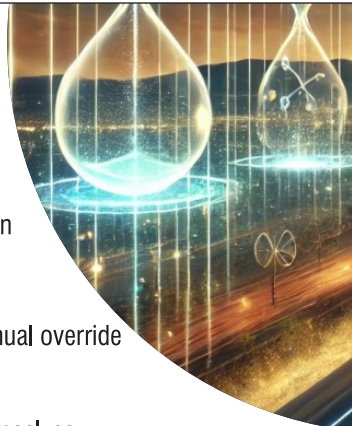
Safety

Predictive systems prevent emergencies before they occur



Sovereignty

Data governance determines who controls tomorrow's city



Strategic Context

What Is Self-Aware Infrastructure?

Self-aware infrastructure is not about gadgets or sensors. It is about creating systems that understand their own state, respond to change in real time, and continuously improve — without human intervention at every step.

- **Understands Its Own State**
Real-time data paints a live picture of the city's health
- **Optimises in Real Time**
Traffic, energy, and safety adapt without manual override
- **Detects Anomalies**
Unusual patterns are identified the moment they emerge
- **Recovers Autonomously**
Systems reroute, rebalance, and restore themselves
- **Predicts Future Stress**
AI models project where systems will be under pressure

Logistics & Registration

DATES
16–17 JULY 2026

DAILY HOURS
10AM – 4PM
8 Executive Sessions

VENUE
MIT-CSN
Chhatrapati Sambhajanagar,
MH, India

**INVESTMENT
PER PARTICIPANT**
₹ 24,500
Group registrations available
for teams of 5+



Dimensions Of Transformation

How Connected Infrastructure Transforms Cities

- 01 Intelligent Mobility**
AI-orchestrated traffic, EV grid integration, multimodal transport optimisation
- 02 Adaptive Energy Systems**
Smart grids, distributed generation, predictive demand balancing.
- 03 Water & Environmental Intelligence**
Flood prediction, smart irrigation, pollution sensing, climate adaptation.
- 04 Digital Urban Operating Systems**
Citywide data platforms, digital twins, command centre infrastructure.
- 05 Resilience & Continuity**
Disaster prediction, automated recovery, infrastructure redundancy modelling.
- 06 Cyber Security & Infrastructure**
Security-by-design, critical infrastructure protection, sovereign frameworks.

Workshop Design · Executive Focus Areas

Strategic Leadership Working Sessions

Not a technology briefing — a strategic leadership session examining connected infrastructure as a governance, investment, security, and policy challenge. No technical background required.

- **Urban Digital Twins**
Designing city simulation environments for predictive planning.
- **Infrastructure Financing**
Capital allocation strategies and PPP frameworks for city leaders.
- **AI in Urban Mobility**
Autonomous systems and congestion intelligence for transport leaders.
- **Sovereign Data & Governance**
National frameworks for infrastructure AI governance and ethics.
- **Infrastructure Autonomy**
From reactive maintenance to self-healing urban systems.
- **Critical Infrastructure Security**
Security-by-design: the threat landscape and resilience frameworks
- **Climate-Adaptive City Design**
Embedding AI into sustainability and environmental planning.

About MIT

MIT CSN is an autonomous institution, offering UG, PG & PhD programs in Science, Engineering, Technology and Management. Nearly 10,000 students study on the 47-acre campus in Chhatrapati Sambhajnagar, Maharashtra, India. MIT CSN is managed by the G S Mandal Trust, which was founded in 1975 and runs 20 educational institutions as well as a 100-bed NABH accredited charitable hospital.

About IRI

The Intelligence Research Institute (IRI) in San Diego, California, USA, was established in 2019 as a non-profit research think tank to enhance worldwide education, training, and capacity building initiatives in security, technology, and intelligence.

Who Should Attend

Built For City Leaders

Public Sector

- Urban Development Ministers & Advisors
- Smart City Commissioners
- Infrastructure & Transport Authorities
- Digital Government Leaders

Infrastructure Enterprises

- Power & Utilities CEOs
- Telecom & Transport Network Leaders
- Construction & EPC Firm Leadership

Defence & Security

- Power & Utilities CEOs
- Telecom & Transport Network Leaders
- Construction & EPC Firm Leadership

City Planners & Architects

- Urban Design & Master Planning Leaders
- Sustainability & Environmental Directors
- Climate Strategy Executives

Investors & Finance

- Critical Infrastructure Protection Authorities
- Homeland Security & National Defence
- Cyber Security Policy Officials

Centre of Excellence

A Permanent Institutional Commitment

- Vendor-agnostic strategic advisory
- Urban AI governance research
- National strategy whitepapers
- Executive certification pathways
- Infrastructure simulation labs

Will your city react to disruption — or anticipate and adapt autonomously?

Self-Aware Infrastructure is becoming the foundation of intelligent nations.

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