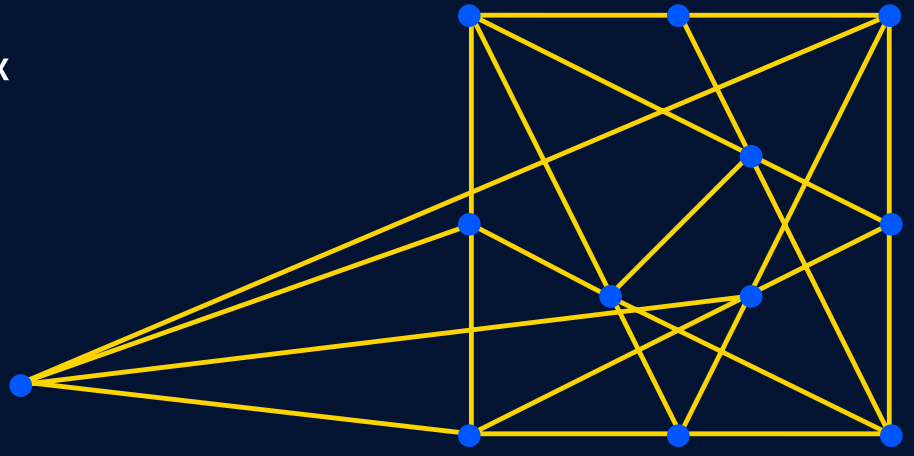


# ElastiGRID™

## FOR SMART CITIES



## COMMUNICATIONS SOLUTIONS FOR A SMART CITY

For the first time in history, more people live in cities than in rural areas. Cities need to support the growing needs of their inhabitants, while becoming attractive for business investment. To attract such investments, cities need to manage their population, transport, assets, and resources efficiently and in real time. In short, they have to get smart. Becoming smart requires collection and analysis of data from many thousands of sensors across many diverse systems. The knowledge generated must then be shared across each of the systems. This allows intelligent interaction across systems like utilities, parking, transportation, and safety. ECI's smart elastic network provides a flexible, future-proof multiservice communication platform ready to support these diverse systems and their rapid evolution. With secure, reliable, real-time connectivity, ECI's smart elastic network provides the agile connectivity required to make the smart city work.

**Agile multiservice**  
to support diverse  
city systems

**Flexible bandwidth**  
providing correct capacity  
wherever needed

**Enhanced reliability**  
with advanced hardware  
and software

**Optimized solutions**  
proven end-to-end,  
tailored solutions



**SMART SAFETY ENFORCEMENT**  
Face recognition, incident monitoring



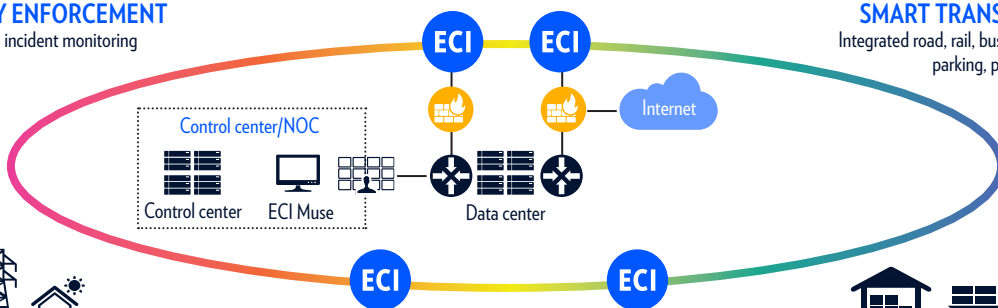
**SMART TRANSPORTATION**  
Integrated road, rail, bus, tram, traffic control,  
parking, payment



**SMART INFRASTRUCTURE**  
Buildings, power management, sewage, waste, lighting, EV charging



**SMART PORTS AND FREIGHT**  
Haulage management



# COMMUNICATIONS NETWORK FOR A SMART CITY

## YOUR CHALLENGES

## OUR SOLUTIONS

### AGILE MULTISERVICE AND FUTURE-PROOF

**Extensive multiservice with Elastic MPLS, providing transport aggregation for all access technologies, including cellular, WiFi, and fixed:**

- MPLS-TP provides deterministic connectivity for mission-critical systems
- IP/MPLS provides dynamic connectivity
- Risk-free proven integration of legacy systems
- Integrated segment routing for smooth evolution of the packet transport
- Mobile backhaul for 3G, 4G, 5G cellular, and WiFi access.

**Unique features for scalability and expansion:**

- Pay-as-you-grow design, in-service expansion units and in-service upgradable packet fabrics
- Embedded NFV yields a future-proof solution with easy addition of new functionality
- Advanced software and programmable network elements support right-the-first time introduction of new services/resources.

### FLEXIBLE SECURE BANDWIDTH

**Scalable high-capacity packet and optical solutions provide capacity when and where it is required:**

- Intelligent high-capacity CDC-F optical transport with OTN
- Optimized high-capacity multiservice packet transport
- Flexible dynamic bandwidth with software defined networking (SDN).

**Tailored, holistic cybersecurity:**

- Comprehensive cyber protection suite integrated into external SIEM/SoC
- L1 to L3 encryption
- L1 optical intrusion detection.

### GUARANTEED RELIABILITY

**Four levels of resilience provide ultra-high availability:**

- **Equipment:** Hardened, fully-redundant network elements meet the needs of an urban environment
- **Network:** Optimized architectures and extensive protection schemes
- **Management:** Advanced software with intuitive operations for rapid fault isolation, increased availability, maximized utilization, and improved efficiency
- **System disaster recovery:** Field-proven processes and procedures keep the network operational.

### OPTIMIZED SOLUTIONS

**ECI provides an end-to-end solution optimized for Smart Cities:**

- Easy integration for best-of-breed 3rd-party equipment
- Single Network Management System
- Multiservice platform allows network to grow and evolve, as required
- Field implementation and support
- Extended lifetime.

Contact us to discover how ECI can help you tailor your Smart City solution



#### ABOUT ECI

ECI is a global provider of ELASTIC network solutions to CSPs, utilities as well as data center operators. Along with its long-standing, industry-proven packet-optical transport, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. With ECI, customers have the luxury of choosing a network that can be tailor-made to their needs today – while being flexible enough to evolve with the changing needs of tomorrow. For more information, visit us at [www.ecitele.com](http://www.ecitele.com)