



CONNECTED COMMUNITIES for Regional & Local Governments ITAPA 2005

fbaranec@cisco.com

What if you could

- **...improve access to public services**
- **...deliver more services with less employees**
- **...make citizens feel more secure**
- **...attract new businesses in your region/town**
- **...improve community quality of life**
- **...feel confident about security of your information network**

Introduction

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Connecting citizens, employees, community-based organizations, governments and suppliers by **COMBINING TECHNOLOGY WITH NEW PROCESSES** to increase service effectiveness, maintain a safe environment, and drive economic development.

Connected Communities Value Proposition

CONNECTED COMMUNITIES

- **What care-about are addressed**
- **What solutions are provided**
- **Examples**
- **Technology behind**
- **Cisco Capital**

A Connected Community ...

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COMBINES TECHNOLOGY WITH NEW PROCESSES



INCREASE SERVICE
EFFECTIVENESS



MAINTAIN A SAFE
ENVIRONMENT



DRIVE ECONOMIC
DEVELOPMENT

A Connected Community ...

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COMBINES TECHNOLOGY WITH NEW PROCESSES



INCREASE SERVICE
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MAINTAIN A SAFE
ENVIRONMENT



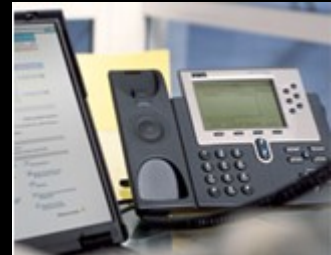
DRIVE ECONOMIC
DEVELOPMENT

Increase service effectiveness

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- **AUTOMATE** low added value tasks

- Allow easily communication within and between agencies (audio, video, data) thanks to IP communication solutions
- Manage citizen and businesses requests with IP contact centres



- Improve **MOBILE WORKERS** effectiveness

- Real-time scheduling, route assignments, field reporting over wireless LAN
- Real-time access to key office applications



- **REDUCE COST**

- Have a single network to manage for voice, data and video with voice over IP

N-1-1 Services TEXAS

Government Information Delivery

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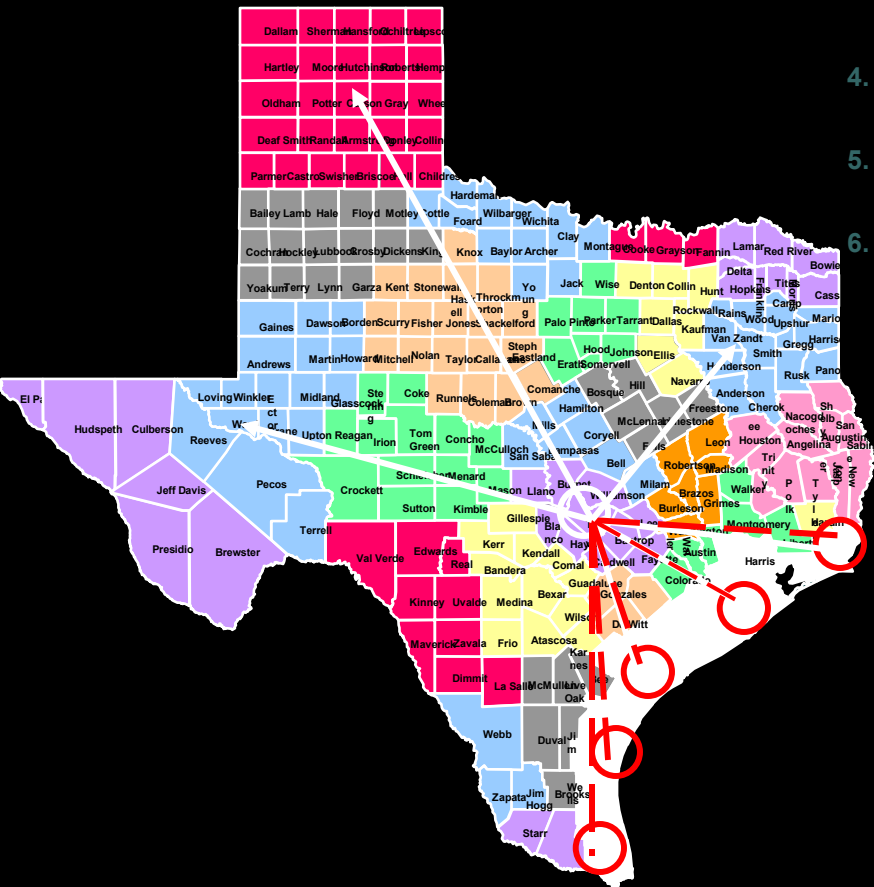
311service.org



State of Texas – 2-1-1 Texas Disaster Preparedness Backbone

Cisco.com

1. The Gulf coast is hit by Level 5 hurricane.
2. There is significant damage and flooding. All 2-1-1 Call Centers along gulf coast are underwater and offline
4. Call Center agents located in gulf coast region are able to log into the 2-1-1 Network and work from a remote location through VPN.
5. TIRN central processing recognizes unavailability of call center agents and sends notification alert to all 2-1-1 call centers.
6. I&R Network begins routing gulf coast incoming calls to remaining 20 centers.



Hurricanes Katrina and Rita

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- **2-1-1 Expands Overnight to handle Katrina calls**
- **From 2,500 daily to 10,000 daily**
- **12 hours to add necessary capacity**
- **700 additional volunteer operators**



A Connected Community ...

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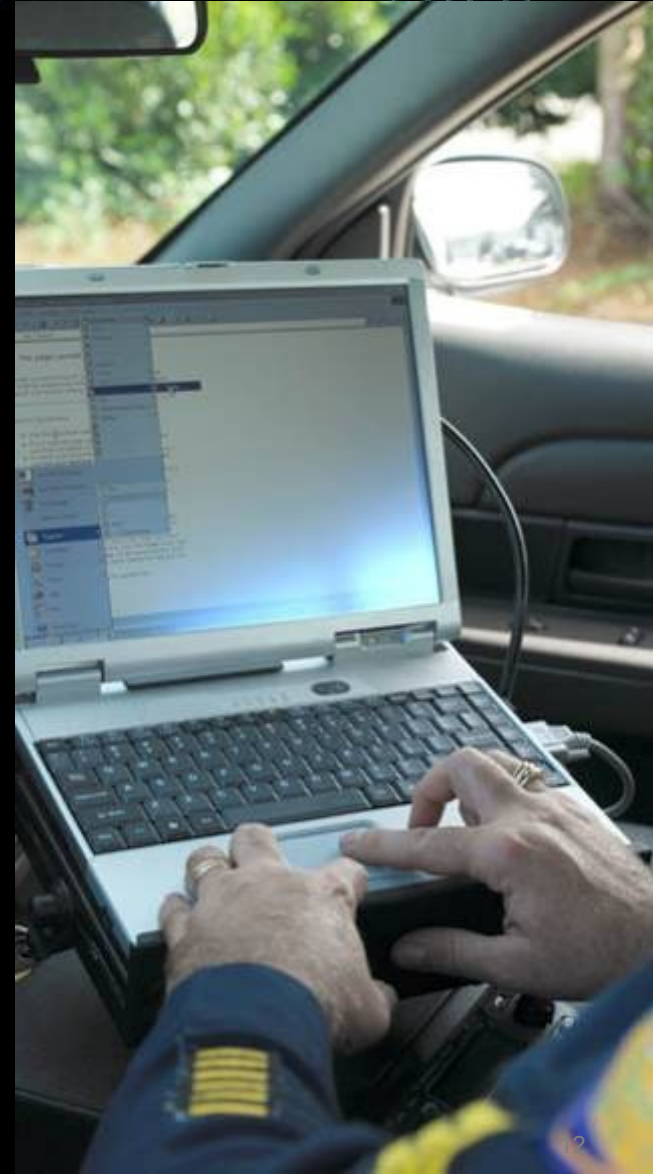


DRIVE ECONOMIC
DEVELOPMENT

Maintaining a Safe Environment

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- **Maintain services continuity during disruptions**
- **Improve responsiveness and increasing situational awareness**
- **Protect the privacy of citizen and government information**
- **Deliver critical, real-time information to public safety officers**



Maintain a Safe Environment

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- **PUBLIC SAFETY**

- IPTV to increase situation awareness
- Alert broadcasting



- **CUT CRIME**

- Wireless solutions for mobile policemen
- Wireless cameras to watch suspicious places



- **DATA SECURITY**

- Self-defending networks

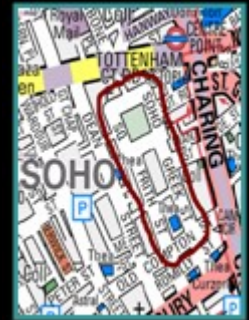


Westminster, London - UK

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Project

REDUCE CRIME and improve safety response time to make citizens feel well protected



Solution

Wireless LAN monitoring to enhance and lower the cost of extension of an existing Close Circuit Television (CCTV) system



"WE HAVE ONE OF THE MOST ADVANCED CCTV SCHEME IN THE COUNTRY...IT HAS PROVIDED IMPORTANT EVIDENCE IN CRIMINAL PROCEEDINGS"

Humberside Police - UK

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Project

PROVIDE HELICOPTER LIVE VIDEO IMAGES of major incidents to multiple viewers in multiple sites using a simple web-browser



Solution

Internet Protocols Television (IPTV) solution



“EFFECTIVE POLICING IS LARGELY ABOUT HAVING THE RIGHT INFORMATION. CISCO’S IPTV SOLUTION DELIVERS VALUABLE REAL-TIME INFORMATION TO THE RIGHT PEOPLE WHERE AND WHEN THEY NEED IT”

MIKE FOSTER, NETWORK SUPERVISOR AT HUMBERSIDE POLICE

Region of Lombardy - Italy

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Project

INTERCONNECT PUBLIC AGENCIES from 11 provinces including hospitals, police stations, libraries and local health authorities with a secure network offering user authentication



Solution

Virtual Private Network (VPN) solution with 1200 nodes and 60.000 clients

“THIS SOLUTION FULLY INTEGRATES AUTHENTICATION, AUTHORIZATION, ALL-ENCOMPASSING SECURITY, SECURE CONNECTIONS, ACTIVE MONITORING AND SECURITY MANAGEMENT”

A Connected Community ...

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COMBINES TECHNOLOGY WITH NEW PROCESSES



INCREASE SERVICE
EFFECTIVENESS



MAINTAIN A SAFE
ENVIRONMENT



DRIVE ECONOMIC
DEVELOPMENT

Drive Economic Development

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- **GOVERNMENT ACCESSIBILITY**

- Call centres
- Portals, for on-line access to information

- **FACILITATE BUSINESS**

- Secure e-Government services making business simpler to conduct
- Broadband availability for e-learning, on-line training, videoconferencing, ...



City of Almere – The Netherlands

Cisco.com

Project

ATTRACT NEW BUSINESSES thanks to real broadband Ethernet services. (Almere is a new city born in 1975 with now 175.000 inhabitants, growing by 5.000 residents a year)

Gemeente Almere



Solution

Shared Wireless Fibre Optic infrastructure enabling multiple service provider to offer competing services

« FOR ALMERE, REAL BROADBAND IS A WAY OF ATTRACTING COMPANIES AND RESIDENTS WHO WANT TO DO BUSINESS, LIVE AND WORK IN A MODERN CITY »

Cisco Connected Community Solutions

Cisco.com



INTEGRATED SECURITY



IP COMMUNICATIONS



CONNECTED COMMUNITIES



WIRELESS



**FOUNDATION
INFRASTRUCTURE**

Value of a Foundation Infrastructure

Business Benefits Delivered by the Network

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CONNECTED COMMUNITIES



IP COMMUNICATIONS



INTEGRATED SECURITY



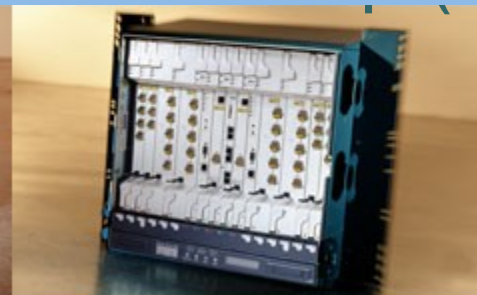
WIRELESS



ROUTERS



SWITCHES



OPTICAL



STORAGE/SAN

FOUNDATION INFRASTRUCTURE

Benefits of IP Communications

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- **Cost Savings**

 - Cost savings up to \$10 per station per month

- **Simplified Maintenance**

 - Reduced cable plant, update

- **Integration**

 - Enhances voice with data application

 - Standards improve interoperability

- **Improved Service Wait Times**



WiFi Cisco Metropolitan Mobile Network

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A single integrated network infrastructure supporting multiple wireless technologies deployed within or across a community

Components of Metropolitan Mobile Networks

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In-Vehicle Networks



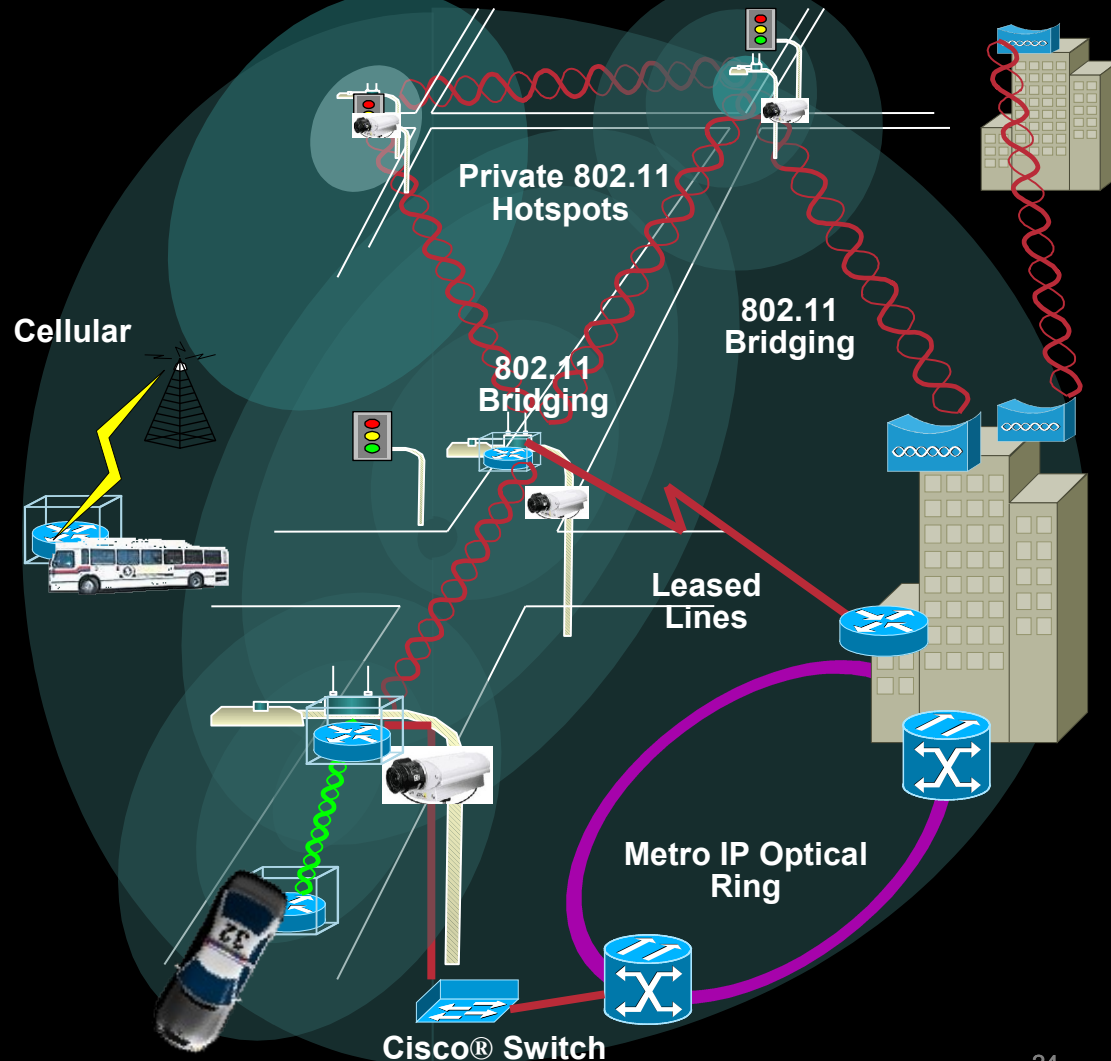
Fixed Infrastructure



Mobile Workforce



Metro Mobile Network Infrastructure



Integrated Security Systems and Technologies

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PRIVACY

SECURE CONNECTIVITY SYSTEM

Secure Transport of
Applications Across
Numerous Network
Environments

PROTECTION

THREAT DEFENSE SECURITY SYSTEM

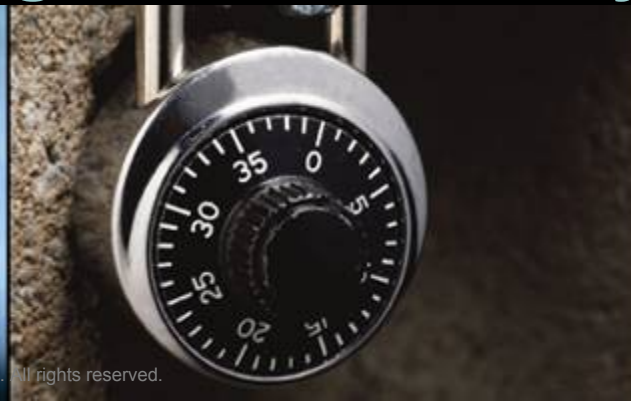
Collaboration of
Security and Network
Intelligence Services to
Minimize Impact of
Both Known and
Unknown Threats

CONTROL

TRUST AND IDENTITY MANAGEMENT SYSTEM

Contextual Identity
Required for
Entitlement and Trust

Management and Analysis



Architecture: Connected Communities

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Teleworker



Police HQ



City Hall



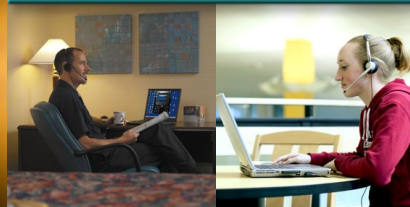
Transportation



Agency
(Data Center)



Citizens



Agency
(Backup DC)



Library

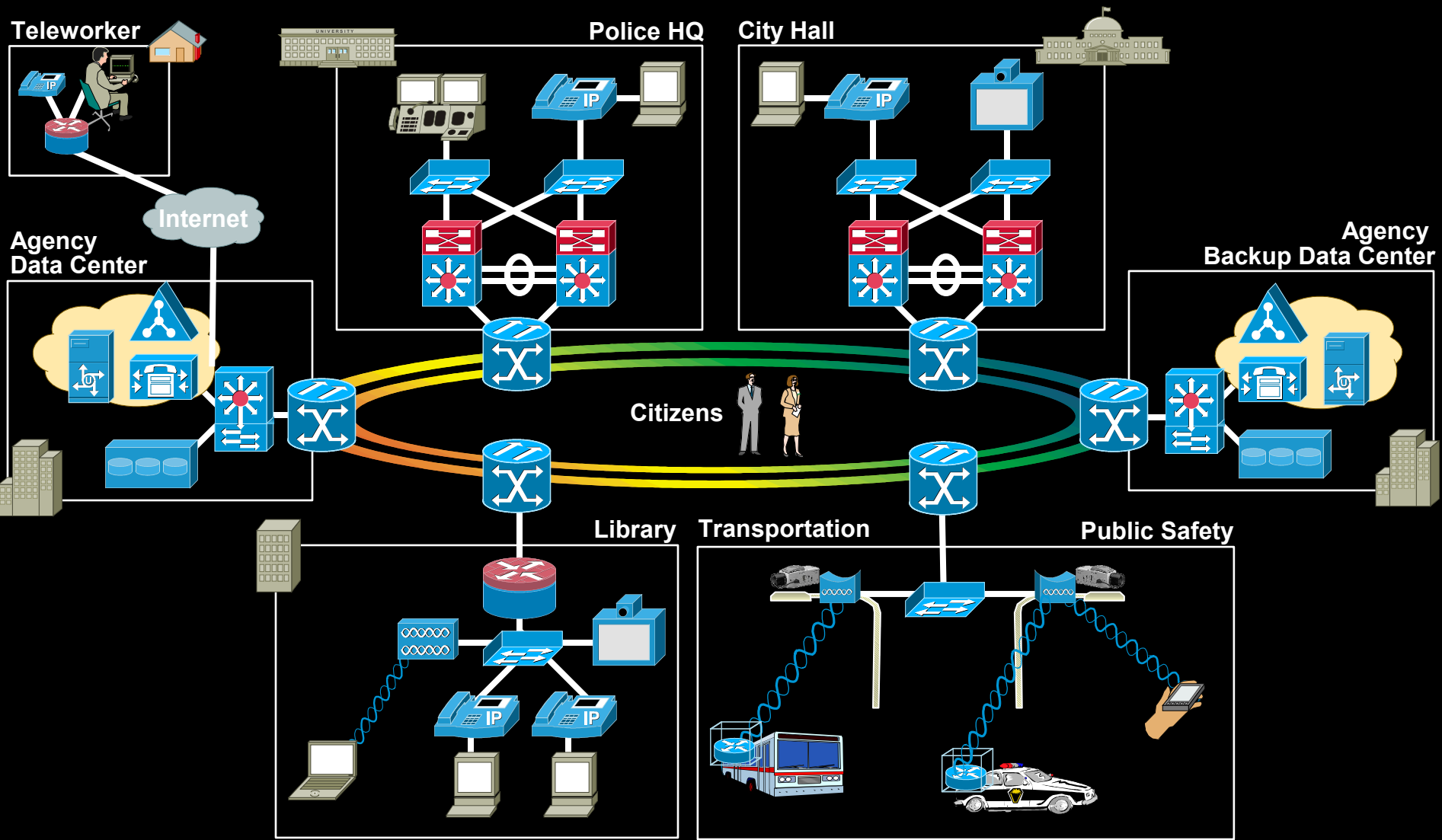


Public Safety



Architecture: Connected Community

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- **Established in 1996, 70 countries \$4BN assets WW**
- **Basic Finance Lease**
- **Cash flow Management**
- **Residual Value/Operatin Lease**
- **Sale and Lease BACK**
- **Technology Migration**

**IP COMMUNICATION
INTEGRATED SECURITY
BROADBAND AND WIRELESS INFRASTRUCTURE**

are **KEY ENABLERS** for deploying solutions that

- Increase **SERVICE EFFECTIVENESS**
- Maintain a **SAFE ENVIRONMENT**
- Drive **ECONOMIC DEVELOPMENT**

Ďakujem za pozornosť

