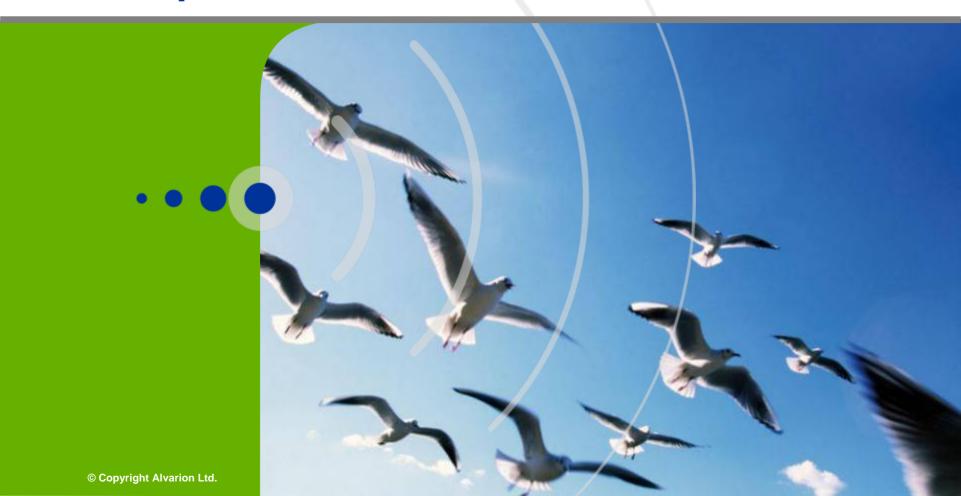




Municipal Broadband Wireless Solutions



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Agenda



- Municipal Market & Players
- Municipal Applications:
 - Public Safety
 - Traffic Management
 - Education
 - Broadband for Councils
- Deployment considerations

The Municipality Application



- Historically, municipalities have played a key role in enabling new infrastructure (electricity, roads, telegraph and railways)
- Local municipalities are committed to their own communities
- Municipalities have power, incentive and means to develop communities





Municipal Business Values



- Efficiency and better service
- Enhanced quality of life and public satisfaction
- Advanced education system
- Improved public safety
- Positive PR
- Increased income





Municipalities: The Players



No single business model is unique to municipalities

As the market evolves, various business models form, bringing different players into a variety of partnerships:

- Government
- Local municipalities
- Local enterprises
- Service providers
- System integrators
- Fixed operators (WISPs)

As the market matures and project volume increases, larger players enter the scene including nationwide and international service providers and system integrators



Municipalities: Business Case Types



A range of business cases according to geographic, geopolitical and business environments:

- Full government funding
- Local municipality:
 IT ROI-based or service-oriented
- Cooperation between local municipality and enterprises or service providers
- Independent local organizations (cooperatives)



ROI is often second to social/political criteria



How to Approach Municipality Players



| | Mayor | Security | Education | IT Manager | CFO |
|---|--|---|--|---|---------------------------------|
| The Motivation | Happy citizens, re-election | Secure community | Education for everybody | Control and tranquility | ROI |
| What Message can Open the Door | Increased public satisfaction | Control and safety | Equal opportunity for everyone | Extended reach for IT department | Efficiency and cost reduction |
| How to Captivate Them | Case studies, visits to other cities, public relations | Present ecosystem with partners, case studies | Present ecosystem, principal feedback | Free training, demo kit, white papers | Business case tool |
| Priority Projects | Security, health, education, Internet access | Video surveillance | Connecting schools, digital classrooms | Remote access to IT application, redundancy | IP-PBX, leased line replacement |
| Role | Key decision maker | Decision maker | Decision maker | Influencer | Influencer |
| How they can Help | Give blessing, reference | Allocate budget, help with external funds | Help with external funds | Help with writing bid specifications | Share internal ROI results |



Public Safety



Improved Public Safety

- Monitor public locations and critical facilities
- Identify illegal activities
- Track criminals recorded while committing a crime
- Connect first responders to municipal applications
- Provide real time video to and from vehicles
- Improve emergency situation management
- Enhance feeling of public safety





Public Safety (1)





Monitoring and Awareness

Wireless networks enable reach to almost anywhere in the city





Command and Control Center

Wireless networks provide capacity to aggregate data to control center





Rapid Response Teams

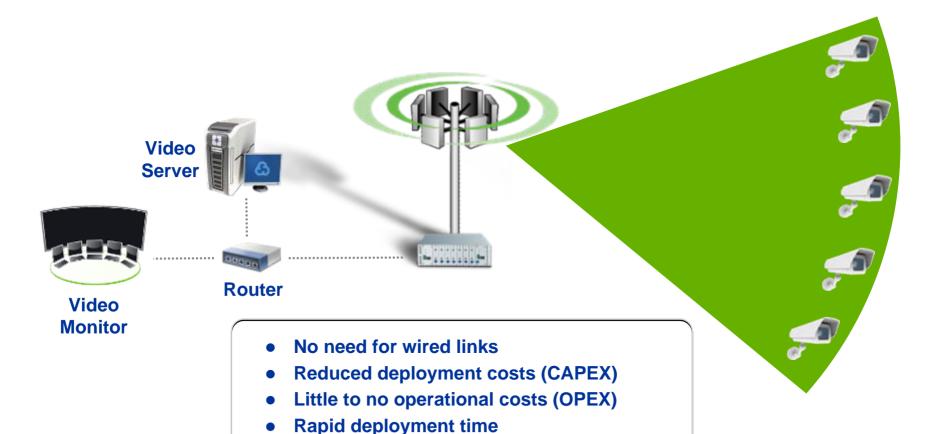
Wireless networks are the only solution for mobile coverage





Public Safety (2) Wireless Video Surveillance Benefits





- No need for cable route approval
- Flexibility and scalability
- Secured connectivity
- Mobile and portable support



Roissy, France







Customer Type Municipality/Law Enforcement

Country / Region Roissy, France

Application Broadband data for law enforcement officers in the field

- Community of 14 towns and villages spread around the Charles de Gaulle airport
- Created Municipal police force
- Built a Mesh network of all villages using PTP links (200 square km)
- Deployed CCTV cameras in each village that are connected to village center using several PtMP sectors
- Equipped local police cars with an Alvarion CPE, enabling video feed transmission directly to police cars on-the-move





Roissy, France: Images















Traffic Management



Enhanced Traffic Management -

- Balance traffic loads
- Reduce pollution
- Reduce accident rates
- Provide driver alerts on road conditions and hazards
- Expedite emergency event handling
- Monitor speed-limits



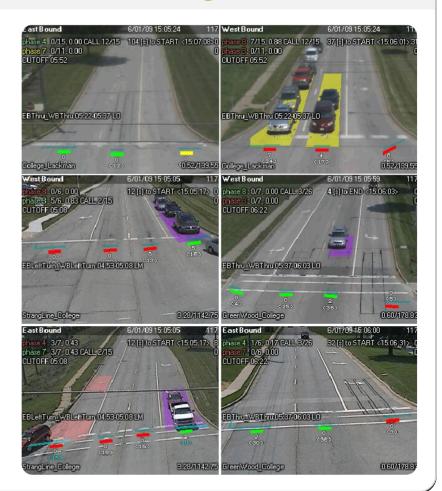


Enhanced Traffic Management



Full synchronization of traffic lights and sensors in a large area results in:

- Reduced delays
- Lower fuel consumption
- Decrease in harmful emissions





Lenexa, USA

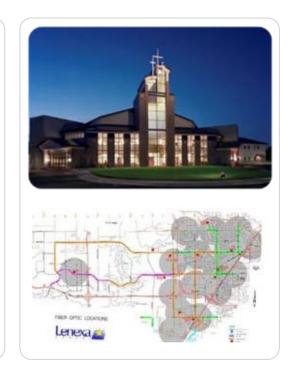






| Customer Type | Municipality |
|------------------|----------------------------|
| Country / Region | Kansas City, USA |
| Application | Video surveillance cameras |

- City in greater Kansas City area
- Deployment is state-driven by ITS (Intelligent Transportation System) program with participation from 19 cities in 2 states
- Extension of fiber backbone
- Fixed connectivity to traffic lights, cameras and buildings
- Mobile coverage

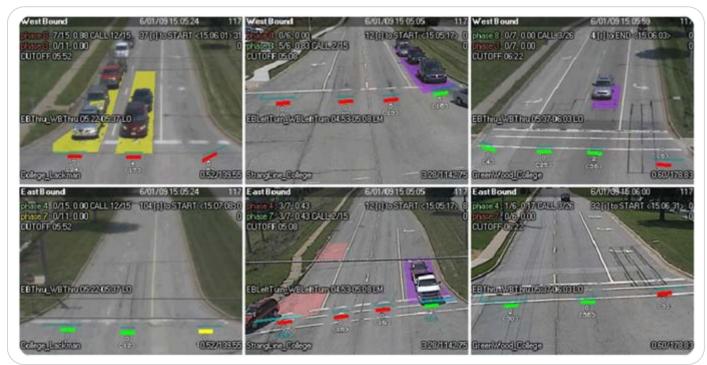




Lenexa, USA

- Full synchronization of traffic lights over a large area
- Delays reduced up to 21%
- Fuel consumption reduced up to 18%
- Harmful emissions reduced up to 15%







e-Education



e-Education

- Provide remote education via shared or dedicated networks
- Offer interactive learning
- Connect remote schools and universities to remote libraries and research facilities
- Utilize remote research computers and databases





e-Education (1)

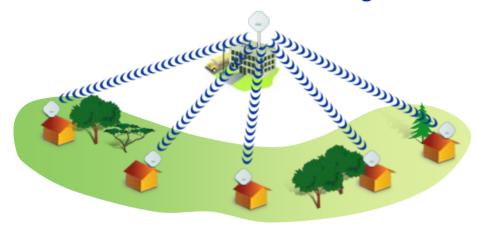


Connecting schools with broadband (>2 Mbps)

Enabling digital classrooms with Internet access

Private educational network with full control of access and content

Schools become small WISPs with their own content servers and remote learning activities







e-Education (2)



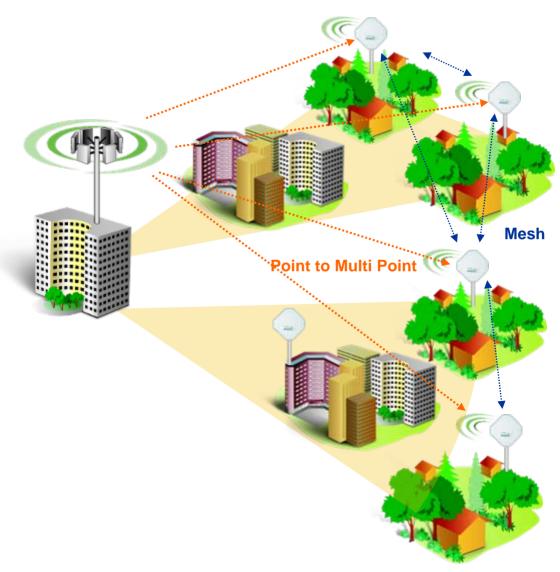
Single access for students anywhere:

In campuses and labs with PTP links

Outdoors with WiFi and USB dongles

At home with a WiMAX WAN network





Krosno, Poland (1)







Deploying multiple applications for municipal and public use

The Challenge

- Improve educational resources with broadband Internet access
- Improve community security and of quality life
- Limitations of wired solutions
 - Low throughput
 - Poor Quality-of-Service
 - Costly and lengthy laying of fiber cable

The Solution

- Deployed Alvarion's BreezeMAX in 3.5 GHz
- 6 sectors cover the entire city
- Connecting 13 schools and libraries
- Network is used by police for CCTV cameras
- Free public Internet access using Alvarion's BreezeMAX Wi² solution



Krosno, Poland (2)



Deploying multiple applications for municipal and public use











Cost Reduction



Cost Reduction

- Replace leased lines with wireless PTP/PtMP links saving on monthly/annual fees and get better SLAs
- Reuse equipment for a new link, after existing link is no longer required
- Utilize Voice over IP (VoIP) in specially deployed networks





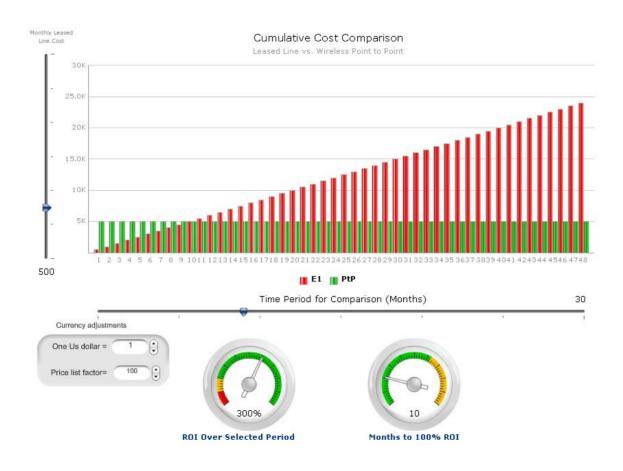
Cost Reduction – Leased Line Replacement





Our network costs are down by 50% thanks to the Alvarion wireless solution. It was a simple case of 'pay less and get more'.

Ged Bell, Head of IT, Dundee City Council



Cost Reduction - VolP

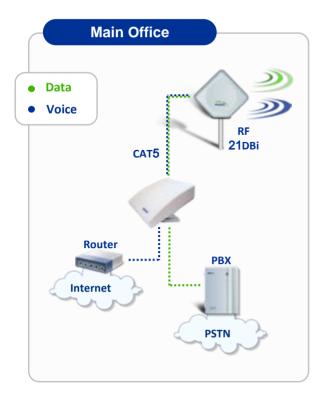


VoIP can be used in same wireless network as data and video as long as there is a QoS guarantee mechanism

Alvarion products support QoS both in the air and then on land



Alvarion's solution not only provides us with excellent voice and data services, it has enabled the citizens of the community to benefit from enhanced safety and security.

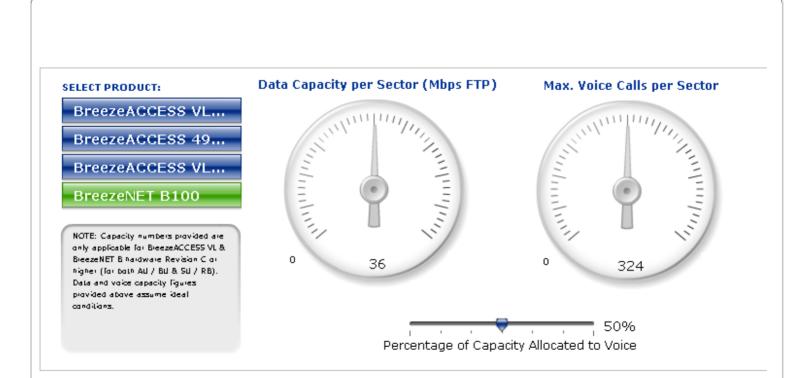






Utilizing a Single Link for Both Voice and Data







Broadband for Council - services



Broadband for Councils

- Provide public Internet access (Hot Zones)
- Offer residents a city portal and information access
- Build information and emergency kiosks



Broadband for Councils (1)



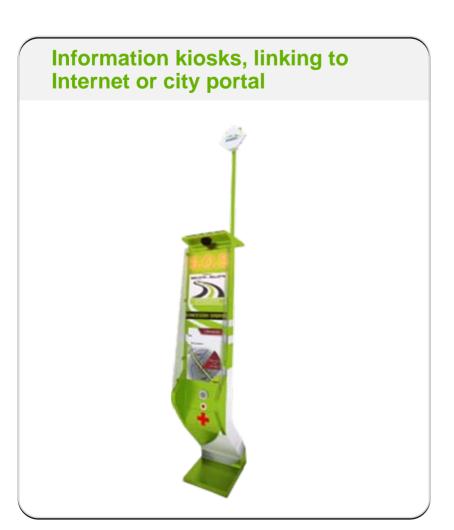






Broadband for Councils (2)











Outer Hebrides, Scotland







Customer Type Rural Municipality

Country / Region Outer Hebrides - Scotland

Application Digital community

- Remote rural community
- Harsh weather conditions
- No broadband access
- Required full data access solution
- Needed additional access to municipal services, local businesses and residents





Outer Hebrides: Images















Diverse Range of Applications



CCTV



High uplink capacity in specific points

Hot Zones



Best effort QoS in designated areas

Traffic Sensors



Low capacity in wide areas

e-Education Networks



PtMP with medium downlink capacity

Campus Connectivity



PTP in various capacities

AMR



Low capacity in wide areas

VoIP for City Workers



High QoS in wide areas



Considerations of the Chief Information Officer (CIO)



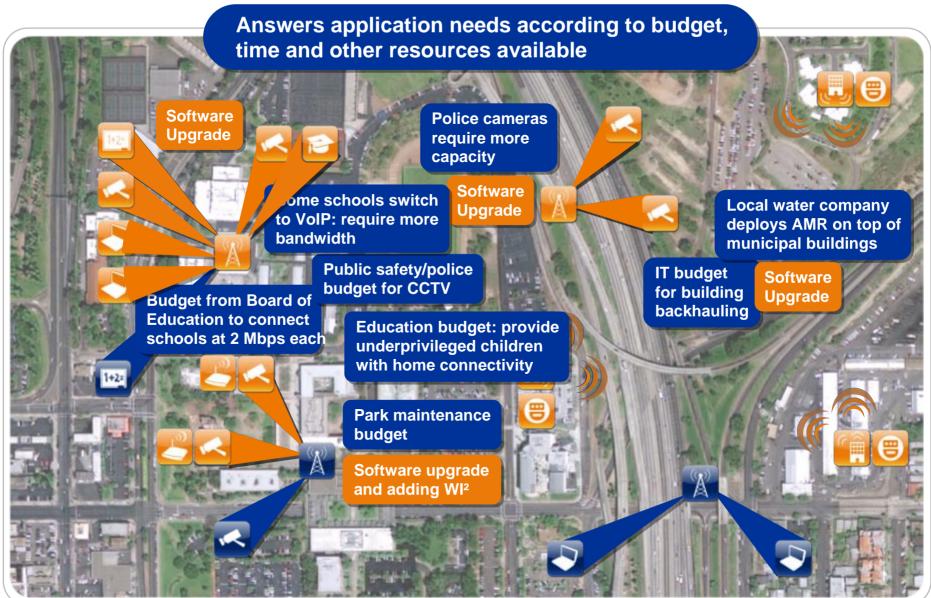
- Different applications have different needs and characteristics
- Various technologies
- Budget is usually targeted for specific applications
- Limited budget and resources
- Projects are long term and ongoing
- Same staff for network installation and maintenance (city employee or subcontractor)





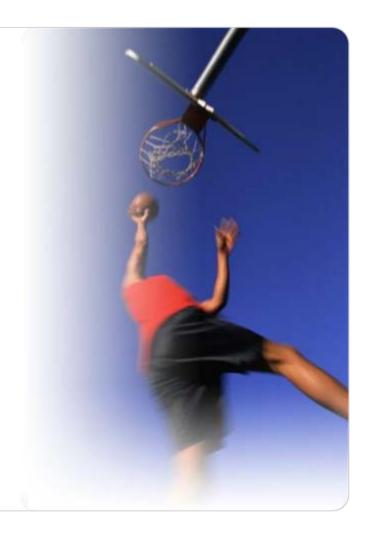
Alvarion's Modular Solution





Summary

Alvarion's solution is complete, modular, robust and scalable enabling municipalities to achieve maximal performance in their environment







Thank You



Caravaggio, Italy (1)







Customer Type Municipality/Law Enforcement

Country / Region Caravaggio, Italy

Application Broadband data for law enforcement officers in the field

URL http://www.poliziacolli.it

- Inter-municipal Police Force Association, a province of the Bergamo-Lombardy region
- Video surveillance in an area that could not be covered by optical fiber
- Guarantees an emergency service to citizens via wireless LAN networks and IP cameras and in future, a mobile office vehicle with a video-control system
 - 35 square km
 - 7 municipalities
 - 80 cameras
 - 20 km coverage

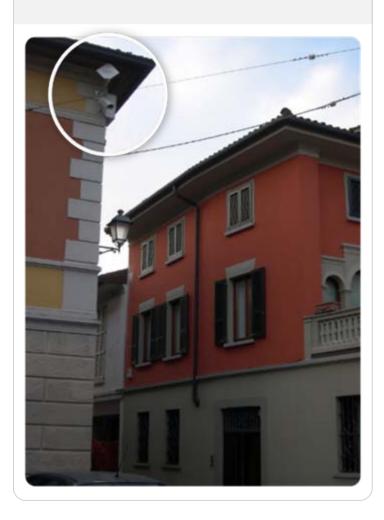




Caravaggio, Italy



Street level NLOS camera



Remote camera with PTP link





Reading, UK







WiMAX Solution for intelligent transport management

The Challenge

- Provide a cost-effective and reliable connectivity solution to support an Urban Traffic Management Control (UTMC)
- Utilize the 3.3 GHz frequency
- Support bandwidth-intensive digital CCTV systems
- Enable traffic lights and road sensors to utilize same CCTV infrastructure
- Assure link reliability

The Solution

- Deployed BreezeMAX[®], Alvarion's WiMAX[™] solution
- All traffic information captured by cameras, SCOOT system and traffic signals (26 systems including; 40 cameras, 130 traffic light sensors and car park sensors) is consolidated in a central control center
- Alvarion's flexible network can be used for additional applications such as CCTV and WiFi on busses



Hartlepool Borough Council, UK







Connectivity for e-Education

The Challenge

- Increase personal access to ICT (Information and Communications Technology) at home for disadvantaged secondaryage pupils
- provide a cost-effective, safe and reliable connectivity solution
- Create a proprietary, secure school network
- Develop flexible infrastructure ready to use for additional applications

The Solution

- Deployed Alvarion's BreezeACCESS[®]
 EZ in 5.8 GHz
- Network was built in under six weeks delivering basic, safe connectivity for residential access
 - 21 sectors
 - 600 CPEs
- This solution in 5.8 GHz was 8 times cheaper than standard 2.4 GHz Mesh
- Council is planning to use network for backhauling in 2.4 GHz WiFi for new marine

