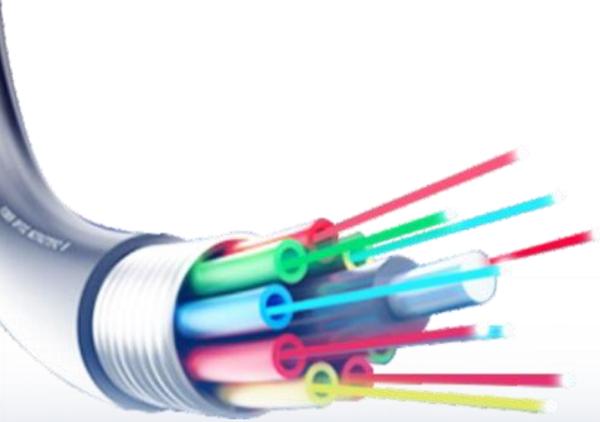




RK INFRATEL
Way to Win Technology

R K Infratel Ltd

Safe & Smart City





Vision

We are a customer focused company that values our customers as the foundation of our business. We facilitate our customers to build remarkable values based on information and communication services innovation.

We give our client's competitive edge in their respective industries. Through the provision of market leading communication products. We are dedicated to enhancing their service levels, improving their workplace efficiencies and increasing their productivity levels.

Mission

We strive to provide the most reliable and superb communication solutions that exceed customer needs, enabling us to be a preferred data solution partner.

We will continue to be an independent company to create, develop and maintain the specialised city based Telecom Optic Fibre Cable Network and to be a part of our **nation** requirement to enhance **socio-economical growth** path.

Company Overview



Solutions Provided By RK Infratel

- Survey, Planning, Designing and Commissioning of OFC Passive and Active Network.
- Provides campus network solution, In-building Solution and Last Mile Services.
- Establishing Active Network (MPLS, GPON, FTTx)
- Establishing Data Centre, City Based Wi-Fi Network, CCTV surveillance, IoT Sensor and Safe & Smart City Solution.
- In-house skilled and well equipped resources for project deployment.
- Service and support provided by 24x7 basis on 365 days.



Why Fiber Optic Cable Network for Safe and Smart Cities ?



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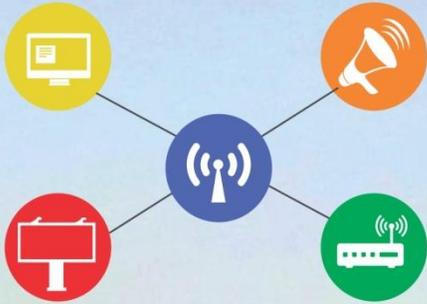


- Optical Fiber has expandable Unlimited Bandwidth capacity.
- OFC carries high-bandwidth signal at long distance using light waves.
- It is scalable and reliable for future upgradation and additional bandwidth demands.
- Fiber is strong medium with capability of transferring petabytes of data. We use this capability for supporting advance applications and services like: **CCTV Surveillance, High Speed Internet, Multipoint connectivity, Wi-Fi Hotspot, Live Streaming, Smart Street Light** and so on.
- It is inevitable to use OFC backbone against traditional wired medium, wireless medium for high bandwidth intensive applications.
- These salient features converges OFC backbone to be **"Future-Proof"**.
- OFC network have higher and long-term durable network life.
- Technological growth and communication of the globe is dependent on OFC infrastructure.

Smart Village

Solution On Underground Optical Fiber Cable Network

- UG OFC Network
- High Speed Internet
- Wi-Fi Hot Spot
- Village based Wi-Fi Service
- CCTV Surveillance
- Cable TV
- Voice (Land line Telephone)
- Video Conferencing
- Smart Pole
- Smart Street Light
- Public Announcement
- Digital Display Board
- e-Education
- e-Health Care
- Smart Agriculture
- e-Payment



અમારું SMART વિલેજ
એટલે R.K. વિલેજ

Importance Of Dedicated OFC Network

Fiber Network works like

Dedicated Network

Conventional method to provide bandwidth arrest the flexibility and scalability of bandwidth consuming application.

Dedicated network is required for real time application and secure data services like surveillance.

City Based Network Planning

Requires essential frameworks on which to build a real-time software application.

Plays critical role in enabling quick, sustainable expandable network.

Very essential to maintain minimum latency and jitter.

Camera and Systems Integrator

Capturing real time image and to traverse through network requires fine tune network to maintain clarity of image.

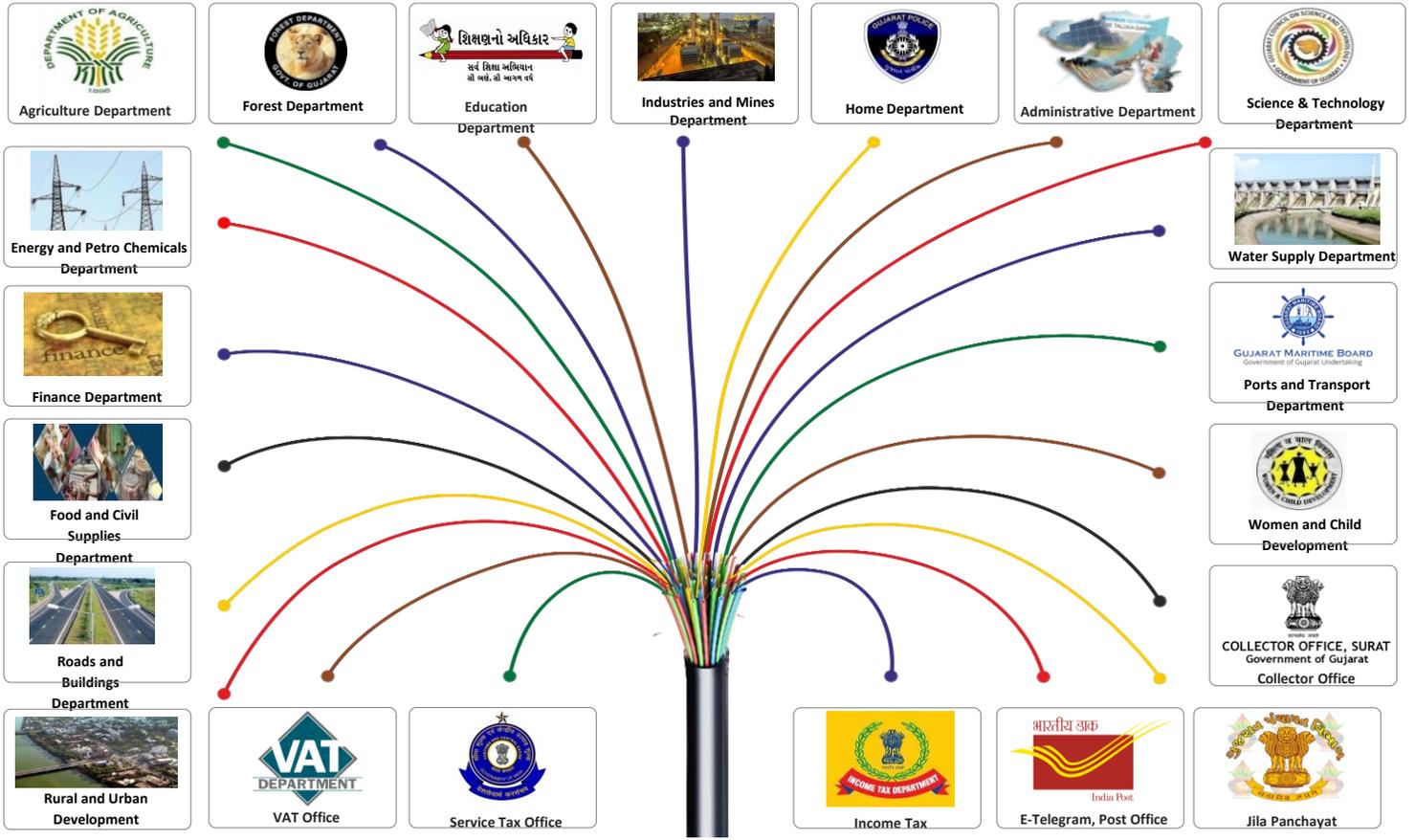
Requires multi protection path to get high uptime.

Data security must be maintained at network level to meet confidentiality of data traverse from network.

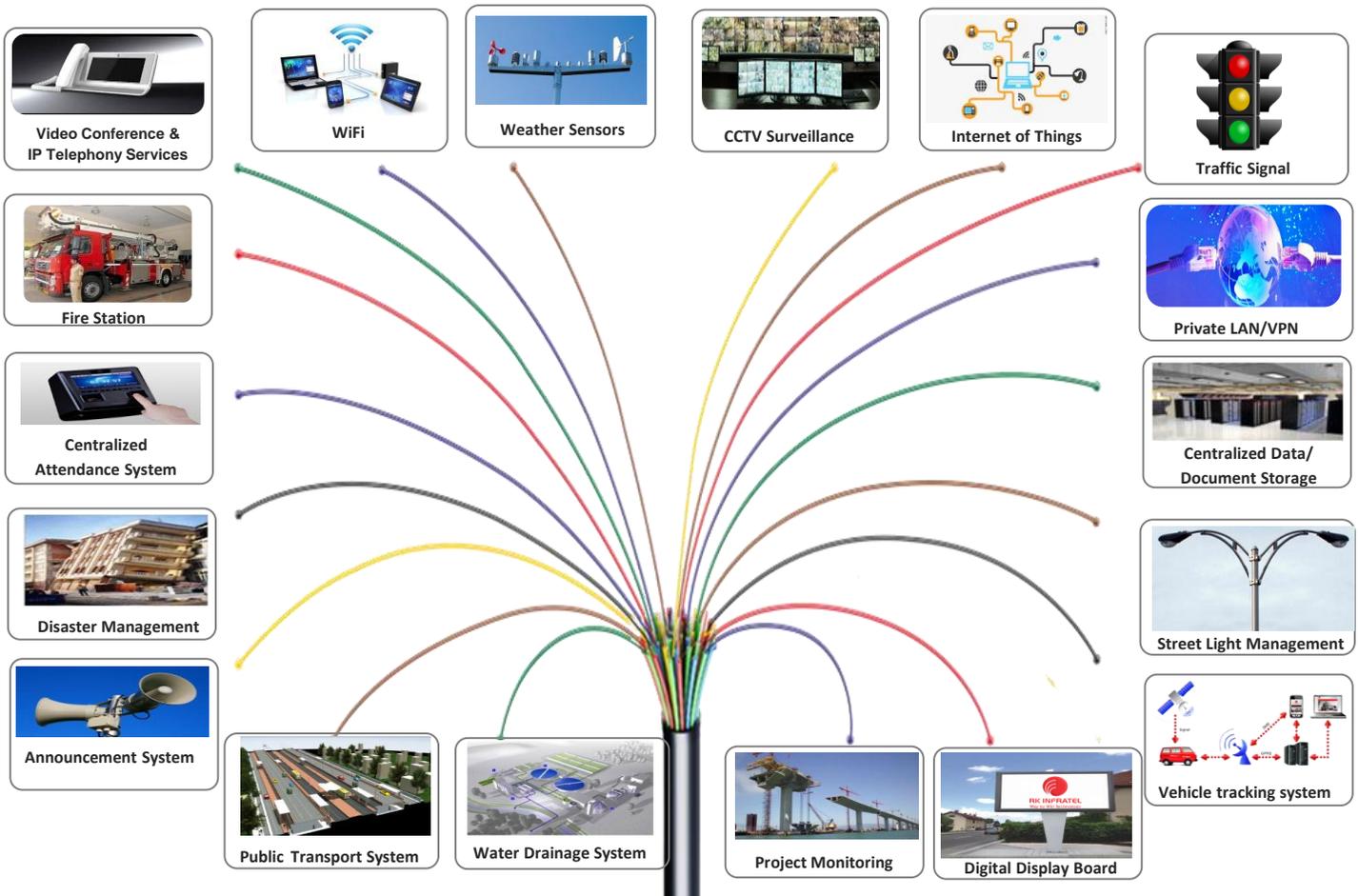
Solution Comparison

Points	R K Infratel	Telecom Operator
Dark Fiber Solution	Provide Dedicated Dark Fiber	Don't provide Dark fiber
Bandwidth Restriction	No Restriction on Bandwidth	Restricted Bandwidth in Terms of Mbps and Kbps.
End to End Connectivity	Yes - on Underground Optical Fiber Cable	No - Provide MPLS / DLC LINK
Data Security	Yes - Dedicated Fiber is connected data routed to secured path and in own Network infrastructure	No - Data route to their Network/Server and comes to your end.
One Roof Solution	Yes - RK Infratel have Skilled In-house Team for Installation, O&M and Support.	No - As they outsource Manpower from contractor.
24X7 Monitoring & Support	Yes - R K Infratel have own NOC/Data Centre and is monitored 24x7 basis on 365 days	Yes - Telecom operators have own NOC and is monitored 24x7 basis on 365 days
Scalability of Network	Yes - Immediate with Minor Cost, because only need to upgrade hardware devices, Fiber network is capable for any limits	Yes - it's costly and time consuming process. As they back on third party as well they have to upgrade their network for your requirement.
Dedicated DATA Center for Safe & Smart City	Yes - R K Infratel provides Dedicated Dark fiber solution to operate dedicated Data Centre for Safe & Smart City	No - Telco's provide monitoring from their end. Data center required huge amount of bandwidth so not getting proper throughput as required
NLD Licence	No - RK Infratel Don't have NLD Licence	Yes - Telco's have NLD Licence
Class A Licence	No - RK Infratel Don't have Class A Licence	Yes - Telco's have Class A Licence
Turnover	No - 500 Crore Turn Over	Yes - 500 Crore Turnn Over
Dedicated Engineer to Monitor Link at Client End	Yes - RK Infratel Provide Dedicated Engineer to Monitor Link of Client(Eg. CCTV Safe City project)	No- Telco's don't Provide they monitor it from their own NOC
Service & Field Support	24*7 Service & Field Support	24*7 only service support
Point of Contact	Single Point of Contact from RK Infratel	Different Escalation for Different Purpose

Application on Dedicated Fiber for Government

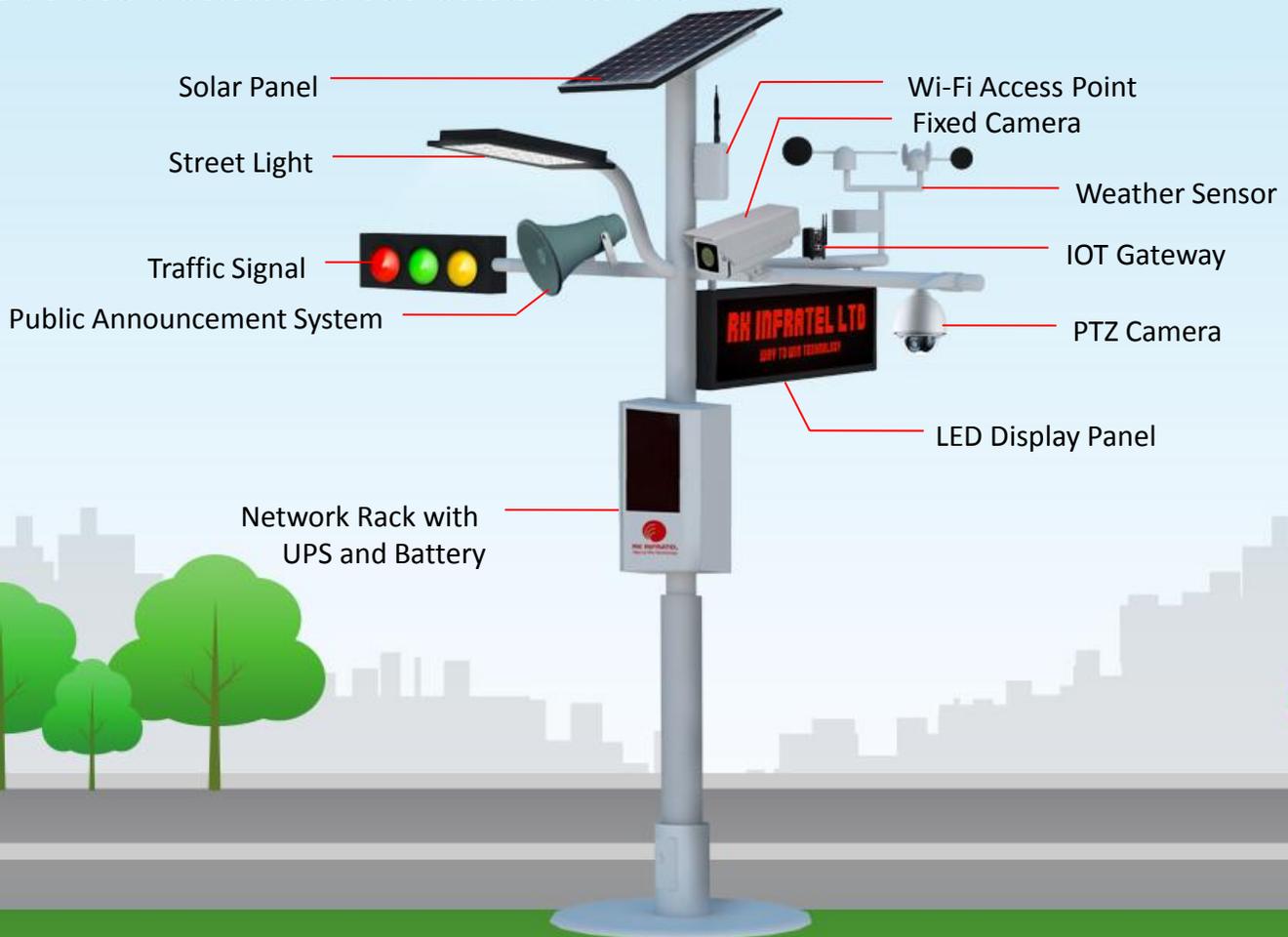


Application on Dedicated Fiber for Safe & Smart City





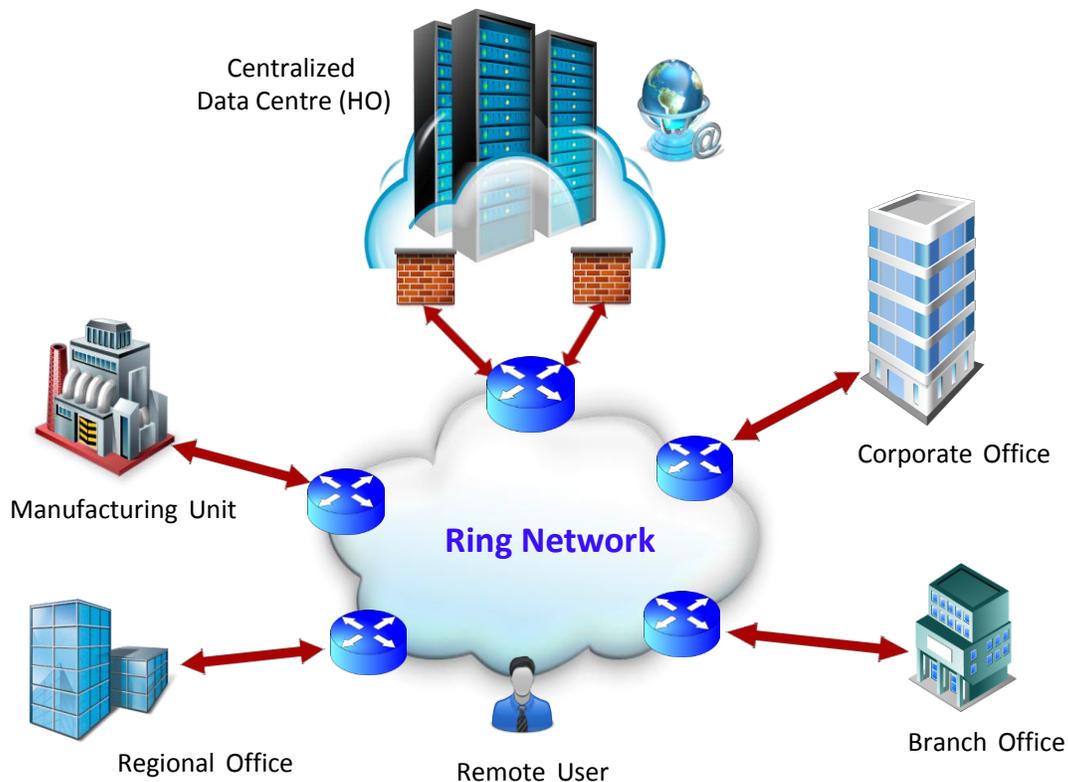
Smart Pole Solutions for Smart Cities





- India's First Safe City Project on PPP Model (ShowCase Project).
- Implemented on Dedicated Fiber provided by RK Infratel Ltd. within 4 months.
- Solution encompasses 200+ Km dedicated network in phase-I and covering entire City in subsequent phases.
- 100% uptime since December, 2012, Commissioning month of operation of the Safe City Project.
- Design and planning of network to protect in multicut scenario and maintain optimum latency and jitter.
- Provision of end to end network on exclusive fiber terminated at Command & Control Centre.
- 400+ KM Dedicated OFC Network, 155 Locations and 77 PoP's Provided by RK Infratel Ltd.
- India's First Picture Intelligence Unit (Face Recognition, Vehicle Speed Violation, Automatic Number Plate Recognition) Innaugrated by Hon'ble Chief Minister of Gujarat.

Multiple Services On Single Pair Fiber Optic Cable

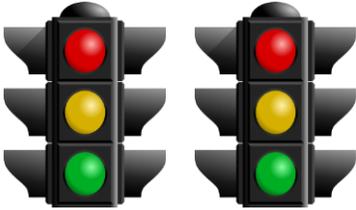


City Wide Wi-Fi System



- Anywhere access of Internet and Intranet Application all over city.
- More people can have a constant access to information.
- More interactive tourism opportunities if visitors have access to free internet.
- The ability to add next generation city appliances to a massive smart grid.
- Helps to Growth in GDP.

Traffic Signal Management



- Centralized monitoring & control all traffic signal point through NMS.
- Enhanced work efficiency & control on traffic violation.
- Minimize or reduce man power cost at all traffic signal point.

Digital Display System



- Dynamic digital signage can grab a customer's attention and influence their purchasing decision.
- Digital signage is instant and offers the ability to change promotions immediately for various products or particular customers.
- Showing public message for social activity through Digital Display Board.
- Target Specific Audience.

Live Video Streaming



- Timely and direct executive communications for any important events.
- Access to completion of regulatory and standards compliance training.
- Keeping the sales force (direct and distribution partners) up to date on new products and technologies.
- Enabling frequent product announcements, updates and training.

BRTS Project & Metro Rail Management



- Monitor all Station through CCTV Camera.
- Can Monitor behavior of the people at station, which is really beneficiary to Cops to identify suspect.
- Can Monitor BUS and Metro Rail Speed.
- Automation System can be operate from Central Control Room like we can Lock or Open any stations.

Ongoing Project Monitoring



- Instant view of the project status: anticipation to issues and decisions based on relevant information.
- Avoid budget overrun and delays: as a result of an effective monitoring of all the important aspects of the Project.
- **Continuous improvement** : Can be Measured , Analyzed and Improved.

Centralized Data Storage System



- Pooled storage flexibility.
- Increased support for server virtualization initiatives.
- Increased utilization, with no stranded capacity.
- Effective use of equipment, supplies and space.
- All related data kept together, reduces duplication.
- Basic site infrastructure with expected availability.

Disaster Management Services



- Proactive action plan for public safety and protect against the major damages or losses.
- Can spread the message of disaster to the public.
- Can Monitor and protect in Case of fire, Flood or Natural Calamities.
- If found robberies in city can be inform immediately to authorities.

Water Drainage System



- Real-time remote access and control of Sewage systems.
- Connectivity with external sensors and devices.
- Low impact implementation, long term system durability and professional support.
- Comprehensive and automated solution for accurate & remote municipal water management.
- Timely & Prompt action over any failure.

Vehicle Tracking & Control System



- Monitoring of your drivers helps you vastly decrease employee cost and time card abuse.
- Improve customer service.
- Vehicle tracking system allows users to track unsafe driving and personal use of fleet vehicles.
- Vehicle tracking allows managers to keep better control of their driver's activities.

Centralized Attendance System



- Ongoing time savings & elimination of employee time rescue.
- Automate employee time off & tracking.
- Coordinate, monitor time for training & other work-related events.
- Integrate employee time details with payroll.
- Notification when employees forget to track time.

Video Conferencing & VoIP Services



- Increased Productivity across Dispersed Workforces and Teams.
- Improved Hiring and Retention of Top Talent.
- Reduced Travel Cost.
- Increased knowledge transfer & Trainings.
- Leveraging technical expertise across disparate locations.

Central Bandwidth Distribution



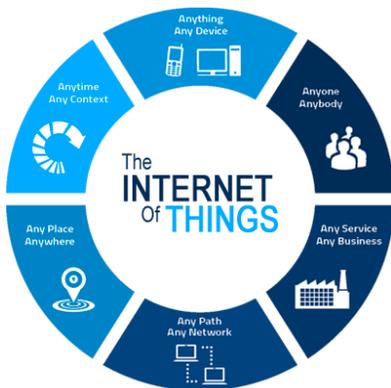
- Optimum use of available source of bandwidth with redundancy.
- Centralized process for security and legal compliance.
- Integrate relative systems and database.
- Load balancing amongst service provider peering.
- Balance business needs and cost with security.

Public Address System



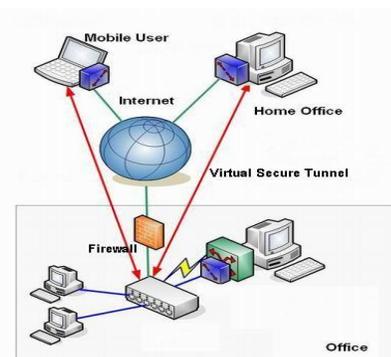
- Faster & Efficient spread of important message during disaster.
- Bridge communication gap.
- Centralize control for authentication of communication.
- Flexibility & Safety.
- Control on Spreading of rumors.

Internet of Things (IoT)

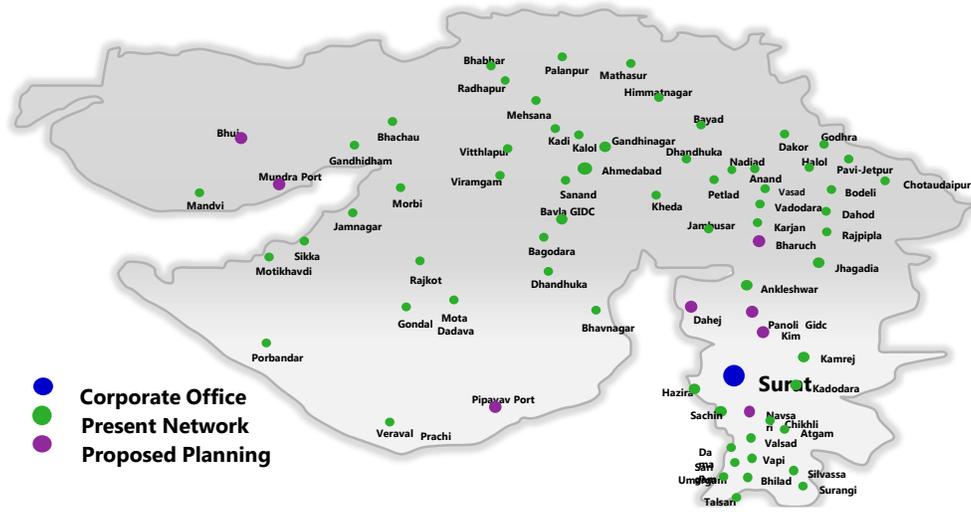


- Monitoring and controlling operations of urban and rural infrastructures like bridges, railway tracks, on-and offshore-wind-farms is a key application of the IoT.
- Network control and management of manufacturing equipment, asset and situation management, or manufacturing process control bring the IoT within the realm on industrial applications and smart manufacturing as well
- IoT devices can be used to enable remote health monitoring and emergency notification systems

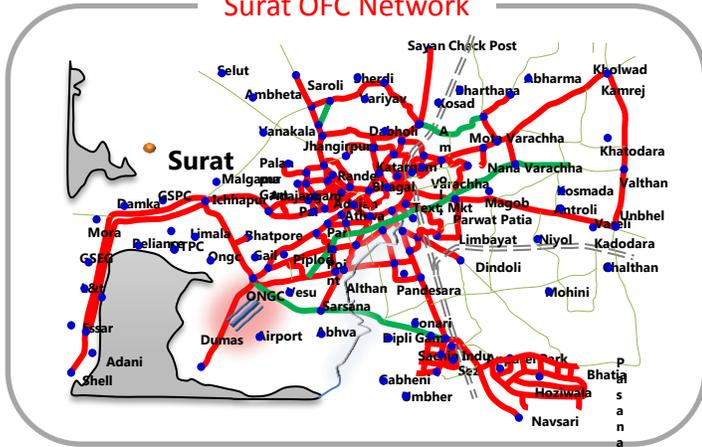
Private LAN/VPN Setup



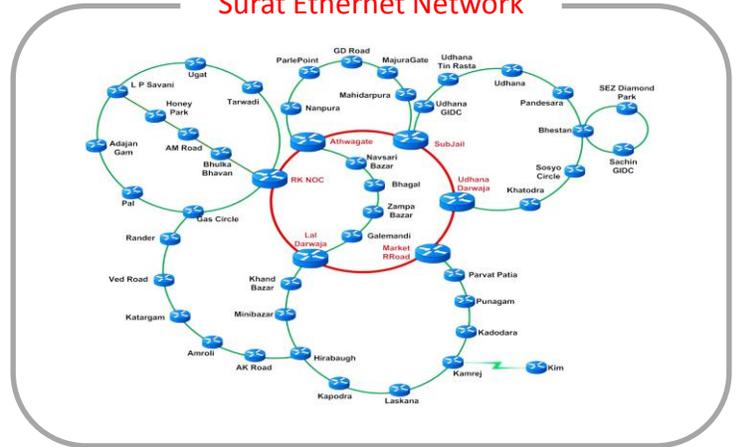
- Faster and cost effective solution.
- Easy setup.
- Better and speedy communication.
- Safe & Secure Connectivity through VPN.
- Deploy Intranet Connecting Multiple Branches.



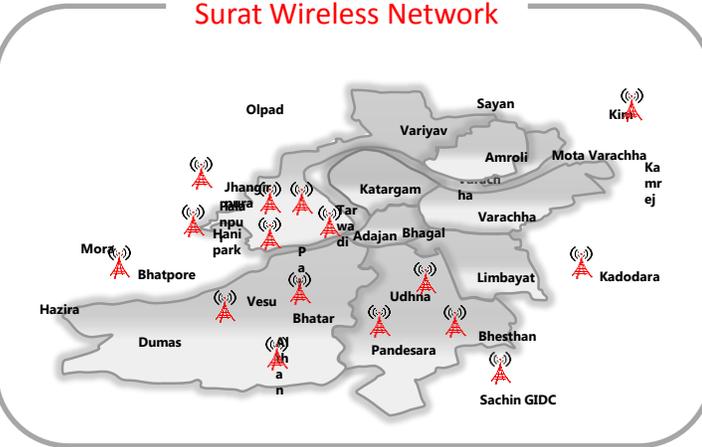
Surat OFC Network



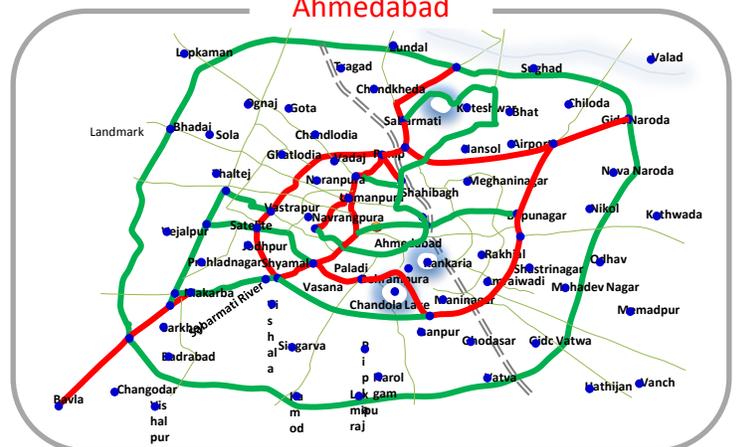
Surat Ethernet Network



Surat Wireless Network



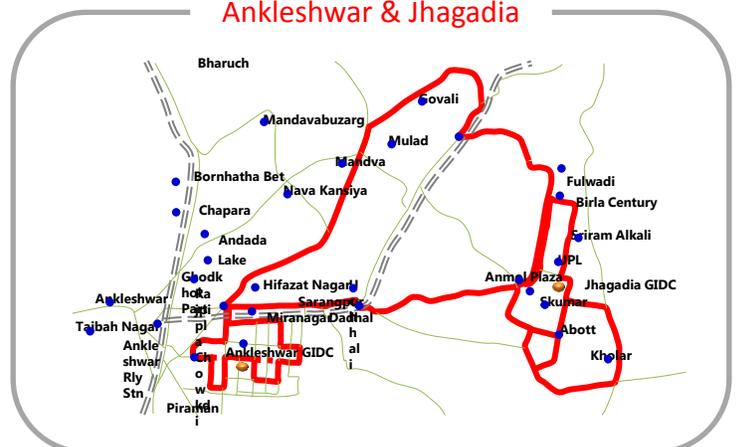
Ahmedabad



Vapi & Silvassa



Ankleshwar & Jhagadia



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