# OIL & GAS

In today's digital oil field, reliable connectivity is playing an increasingly important role in operations. Future Tech offers a range of best-in-class wireless solutions that also meet ATEX and HAZLOC directives for equipment deployed in hazardous locations.

## Use Cases

- Distribution Automation
- SCADA
- General Data Connectivity
- Workflow Automation
- Video Surveillance
- Smart Grid
- Fleet Management

## Technology Solutions

- Private LTE
- Fixed Wireless Broadband
- WiFi & Mesh Solutions
- Licensed Microwave
- E-Band / V-Band
- Fiber & Switch Solutions
- Cellular Modems

## CUSTOMER SOLUTION

### Professional Services Provided

- Project Management
- RF Design
- FCC Licensing
- Tower Mapping
- Construction Drawings
- Structural Analysis
- Smart Supply Chain Management
- Cabinet & Power Plant Installation
- Microwave Installation
- Fixed Wireless Broadband Installation
- Network Integration
- Operations & Maintenance Support

### Hardware Solutions Provided

- Licensed Microwave Solution
- Unlicensed Point to Multi-Point Fixed Wireless Broadband Equipment
- Power Plant Solution
- Battery back up
- Cabinet solution for power and telco components
- Installation consumables

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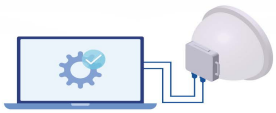
# SMART SUPPLY CHAIN

NETWORK DESIGN



PRE-CONFIGURATION & TESTING

CABINET INTEGRATION

KITTING

INVENTORY MANAGEMENT

DELIVERY TO SITE



Future Technologies offers a suite of smart supply chain services including testing, pre-configuration, kitting, packaging and shipping. This process is easily customized on our unique supply chain portal, ensuring that we meet the specific requirements of each customer at every stage of the project life-cycle. Future Technologies does this with a vendor neutral approach that allows for the breadth of expertise to support each unique requirement.

## Services

- Full Cabinet Integration
- 4G/5G Base Stations
- Licensed and Unlicensed Multi-Point
- Cellular Modems
- Optical Network Elements
- Routers and Switches
- Cameras - Surveillance Devices
- Automation Devices
- Cable Fabrication and Testing (RF Sweeps, PIM)
- RET Pre-Programming
- GPS Units

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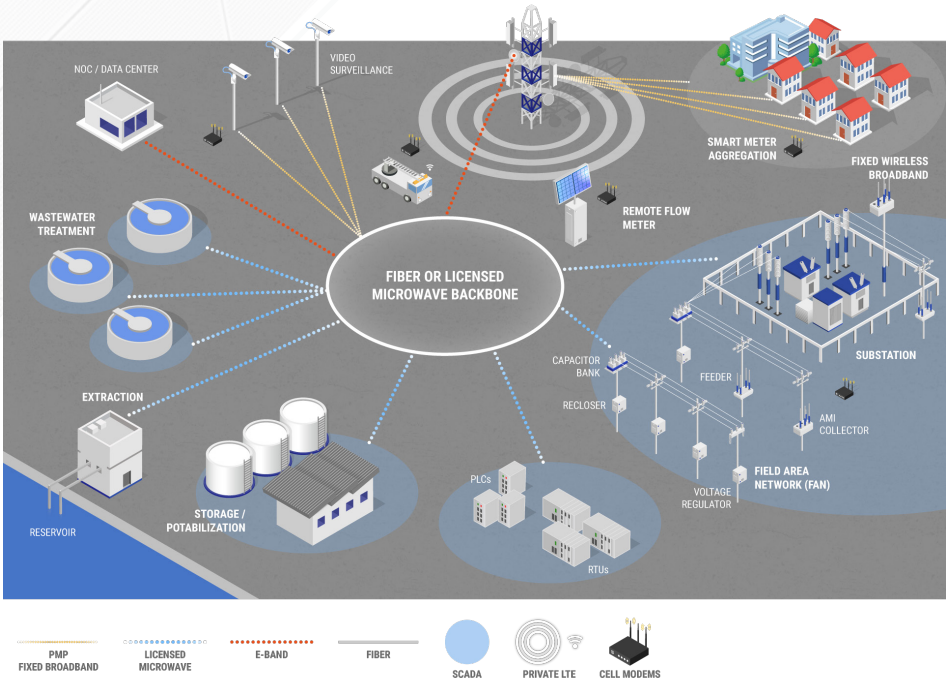
# Critical Infrastructure:

## Field Area & Wide Area Networks (FAN / WAN)



## PRODUCT SPOTLIGHT

### Cambium Networks PTP670 Unlicensed

- Superior Interference Mitigation Through Dynamic Spectrum Optimization
- Only Unlicensed Radio Approved for use with Schweitzer's Recloser Control and Protection Solutions

## SOLUTIONS

### Private LTE / 5G

- RAN - Band 48 (CBRS), Band 8, Licensed Band Solutions
- Core - Premise Based, Cloud, Hybrid

### Wide Area Networks (WAN)

- Fiber Networks
- Microwave Networks
- SD-WAN / MPLS Networks

### Field Area Networks (FAN)

- Narrow Band (200/400/900 MHz)
- Broadband (CBRS, Unlicensed - 2/4.9/5 GHz)
- Private LTE (Band 48 - CBRS, Band 8, Licensed)
- Public LTE / Cellular Solutions - Modems
- WI-Fi / MESH

### Nomadic / Mobile Communications

- End User Devices - Modems, Tablets, Handsets
- Fleet Solutions - Full solution sets
- Cell on Wheels (COWs), Disaster Recovery

**Cambium Networks**

- Narrow Band
- Unlicensed PTP/ PMP
- Licensed Microwave
- WIFI
- Switch/Router

**NOKIA**

- Private LTE
  - *RAN*
  - *Core*
- MPLS Solutions

**SIERRA WIRELESS**

- Cell Modems
- Private LTE - CBRS / Band 8
- Public Network Connectivity

**handheld**

- Rugged Handset
- Rugged Tablets
- Rugged Laptops

## USE CASES

- AMI Smart Meter
- SCADA
- Substation Backhaul
- Video Surveillance
- Mobile Communications
- Recloser Backhaul

# Service Provider:

## Fiber to the “X” + Fixed Wireless Access (FWA)

FEASIBILITY STUDY COMMUNITY ASSESSMENT

GRANT WRITING BROADBAND MASTER PLAN

NETWORK DESIGN CONCEPTUAL / DETAILED

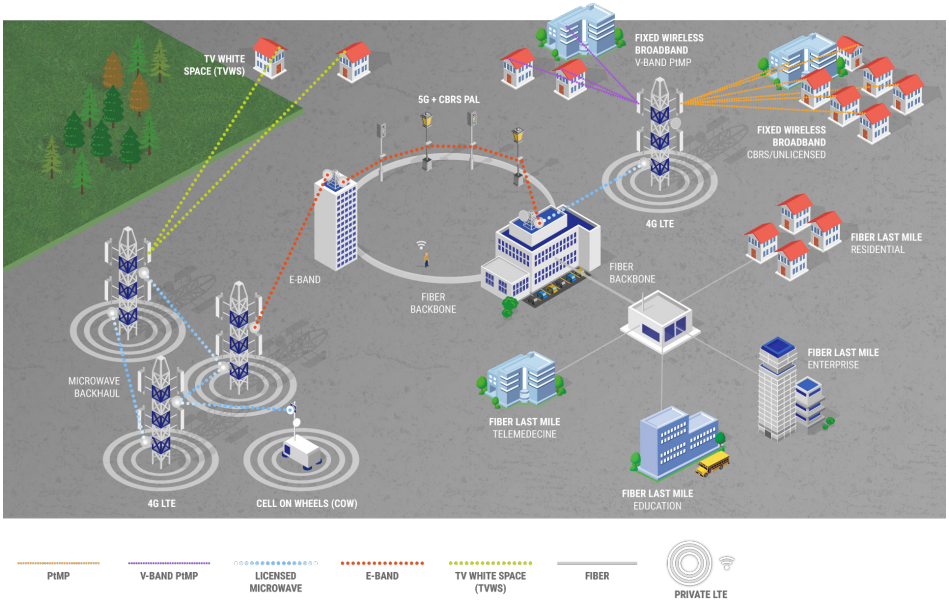
SITE DEVELOPMENT RAWLAND DEPLOYMENTS

SMART SUPPLY CHAIN MANAGEMENT

CONSTRUCTION

NETWORK INTEGRATION

OPERATION & MAINTENANCE TRAINING







## SOLUTIONS

- Fiber Network Solutions
- Licensed Microwave / E-Band / V-Band
- CBRS (Band 48) - RAN / CORE / SAS
- Fixed Wireless Access CBRS / 5 GHz
- SLA - O&M Support Contracts
- Hybrid FAN / Service Provider Solutions
- FWA Packaged Solutions

  *Tower, Power, Broadband*

### National Training Center

### Network Integration Center / Lab

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