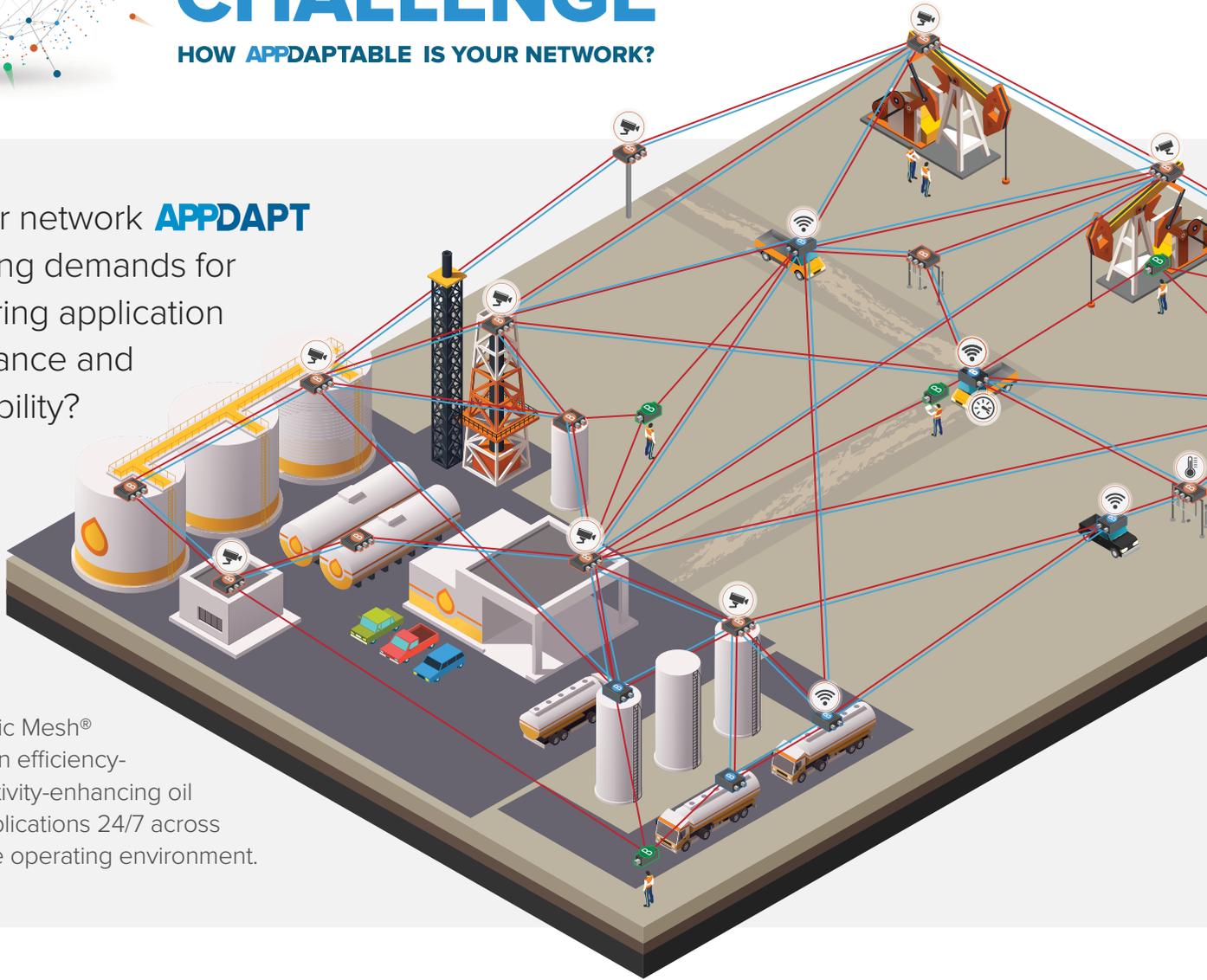


TAKE THE RAJANT
**APPLICATION
CHALLENGE**
HOW APPDAPTABLE IS YOUR NETWORK?

RAJANT

Can your network **APPDAPT**
to growing demands for
unwavering application
performance and
total mobility?

Rajant Kinetic Mesh®
networks run efficiency-
and productivity-enhancing oil
and gas applications 24/7 across
your diverse operating environment.



Applications Important to Streamlining Our Customers' Oil & Gas Operations:

- Process Control
- SCADA (Supervisory Control & Data Acquisition)
- Production Control
- Platform Communications
- Video Surveillance
- Vehicle Dispatch and Routing
- Employee and Contractor Communications
- Equipment Health Monitoring
- Wellhead Communications
- Vehicle Health Monitoring
- Precision Drilling
- Autonomous Vehicles
- Dust Monitoring
- Electrical Substation Breakers
- Explosive Weighing and Mixing
- Fuel Management
- Gas Well Monitoring
- Oil Well Monitoring
- Supervisor Email/Internet
- Time Collection
- TPMS (Tire Pressure & Temp Monitoring)
- Voice-over-IP
- Weather Station
- PLCs (Programmable Logic Controllers)

Many of the business-critical applications listed are supported in Rajant customer networks.

Maximize Network Adaptability with Easy-to-Deploy BreadCrumb® Wireless Nodes

Using Rajant's industrial-strength BreadCrumb wireless nodes powered by our patented InstaMesh® networking software, you can create a self-healing network able to dynamically adapt as people and assets move across your environment—all while keeping the network available, intact, and secure.

Each BreadCrumb can connect with multiple neighboring nodes via multiple links, providing fully redundant communications throughout the network. InstaMesh orchestrates this traffic and automatically optimizes communications based on physical surroundings and frequency availability.



BreadCrumb LX5



BreadCrumb ME4

Any BreadCrumb can be fixed or mobile, infrastructure or edge. The small-footprint, lightweight nodes are readily deployed on vehicles, towers, lampposts, buildings, and personnel.

Consider the following ways a Rajant Kinetic Mesh® network can help your oil and gas operations to both reduce expenses and enhance profitability.

REDUCE COSTS with Improved Operational Efficiency.

Minimize unplanned downtime.

Nonproductive drilling time equates to **1/3 of an operation's annual drilling budget**.¹

Connect command centers to real-time data on remote equipment operating status, empowering them to identify and address potential issues—before they cause costly downtime.

Move to a predictive maintenance model.

Implementing a predictive maintenance model can **reduce maintenance costs by 30%**.¹

Run equipment health monitoring applications that give you real-time insights on drill, wellhead, and platform functions—so that service efforts correlate to condition.

Protect personnel and prevent safety issues.

NIOSH identifies traveling between well sites as a **key area of safety concern** for extraction workers.

Real-time monitoring of techs in the field, enabled by Rajant's robust network mobility, can mitigate safety risks and speed safety response times across widely dispersed remote operations.

INCREASE REVENUES with Greater Productivity.

Increase equipment effectiveness.

Remote wellhead monitoring can increase well production by **as much as 20%**.²

Unlock new levels of productivity with sensor data from equipment—and the computing power and connectivity needed to interpret and act on that data.

Optimize production yields for significant gains.

Improving production efficiency by 10% can yield up to a **\$260M bottom-line impact** for a single brownfield asset.³

Run applications that perform advanced analytics to identify new ways to optimize everything from scheduling to machine movements, processing, and more—all driving greater production output.

Capitalize on the promises of a fully integrated 'digital oilfield'.

89% of oil and gas professionals believe **mobility will revolutionize their operating environments**.⁴

Rajant's fully mobile and mobile-enabled network provides continuous connectivity that lets you capture and deliver real-time data in the field, and analyze that field intelligence for rapid decision-making.

See the ROI for Yourself

Submit your application requirements—both current and desired—to Rajant's team at www.rajant.com/applicationchallenge to get started today!

1. <http://www.rajant.com/applications/oil-gas/>

2. <http://acceleratingscience.com/mining/electronic-flow-measurement-at-the-wellhead-ensures-productivity/>

3. <http://www.mckinsey.com/industries/oil-and-gas/our-insights/digitizing-oil-and-gas-production>

4. <http://www.oedigital.com/component/k2/item/11383-data-as-the-new-oily>

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