

INTELLIGENT END-TO-END COMMUNICATIONS AND CONNECTIVITY SOLUTIONS FOR OIL AND GAS
CONTINUOUS AND SAFE UPSTREAM OPERATION

OFFSHORE OPERATIONS CONTROL ROOM

Conventional and Trunking ASTRO@25 System

- Intrinsically Safe Hazloc Communication
- Noise Cancellation Accessories

OPERATIONS CENTER SOFTWARE COMMANDCENTRAL AWARE + ARTIFICIAL INTELLIGENCE

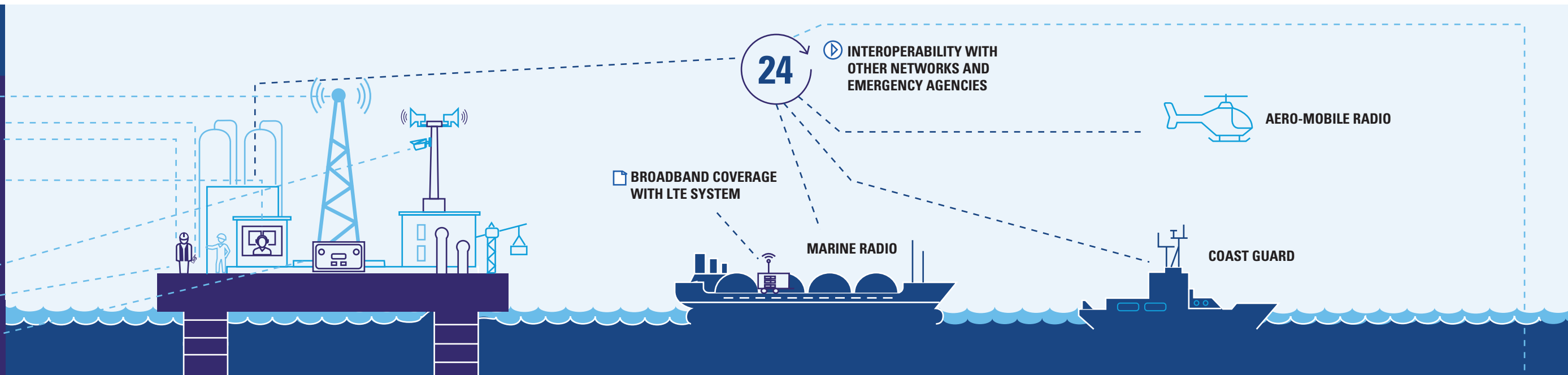
- Pressure, temperatures, corrosion and tides monitoring
- Paging, alarms and sirens systems interconnection
- Emergency shutdown
- Safe workers with lone worker functionalities
- Video and analytics applications integration

VIDEO SAFETY WITH HIGH-RESOLUTION CAMERAS

- Detection of improper use of masks, social distancing

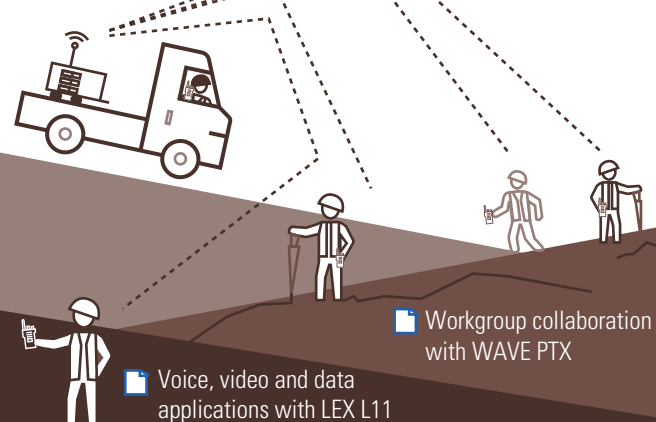
WORKERS ACCESS CONTROL

LOCAL PLATFORM COVERAGE WITH LTE BROADBAND



EXPLORATION

LOCAL COVERAGE WITH BROADBAND LTE IN BARREN ZONES



ONSHORE AND OFFSHORE OPERATIONS CONTROL ROOM

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- Pit head, engine coil temperature, pressure and vibration monitoring
- Non-conventional fields, with tele-supervised pits
- Machines maintenance proactive alert
- Emergency shutdown
- Paging, alarms and sirens systems interconnection
- Access to field information for improved decision-making

INTRINSICALLY HazLoc SAFE COMMUNICATION

- Worker safety with built-in man down and lone worker features; instant alert if an incident occurs.

VIDEO ANALYTICS WITH FACIAL RECOGNITION

- Artificial intelligence with analytics
- Appearance search

Information generated in field and transmitted to the control room using applications

