



NBYCOMP
NearbyComputing

Oil & Gas
Use Case

Nearby Computing SL

HQ: Barcelona, Spain.



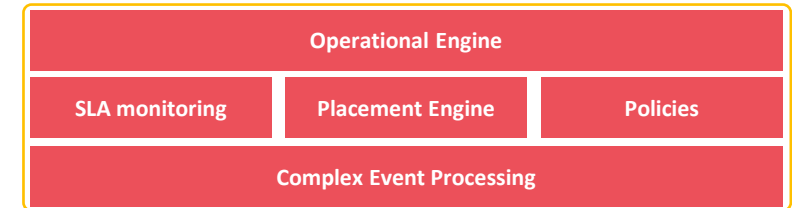
NBYCOMP
NearbyComputing

Incorporated in 2018 as a spin-off of the Barcelona Supercomputing Center, a leading research center in Europe.

NearbyOne is the product based on our own IP on macro and micro-orchestration methods, a software platform enabling multi-domain end-to-end orchestration advanced services, on top of industry-leader solutions.

We deploy our technology through selected vendors and system integrators, fully supporting them through all the implantation and maintenance processes, with a long-term perspective .

Multi-tenant Orchestration with NearbyOne



End-to-end Orchestration

Infrastructure
Network
VNFs/APPs

Lifecycle Management

SLA monitoring
Business Policies

Key Shareholders

Strategic



Research Institutions



Partners



Global Partner & Reseller



Intel® Network Builder



Partner

H2020 consortiums



The Need for the Edge



NBYCOMP
NearbyComputing

Challenges:

- Downtime
- Environmental
- Rising costs

Drivers:

- Reducing Costs
- Enhance Productivity
- Minimizing Downtime Risks
- Predictive Maintenance
- Data Localization
- Low Latency requirement

Benefits:

- Minimize Costs
- Improve Operational Efficiency
- Reduce Environmental Footprint

Edge Analytics



NBYCOMP
NearbyComputing

Edge computing can help achieve operational intelligence by connecting isolated environments like production wells, pipelines, offshore rigs, vessels, etc. with smart solutions.

Legacy assets like analog meters and gauges, motors, valves, gears, etc. can be digitized by sensors and low-latency networks for real-time data processing.

According to a [Cisco report](#), a typical offshore operation generates around 1-2 TB of data daily and it is estimated that with a satellite connection, it would take around 12 days to transfer just one day's data.

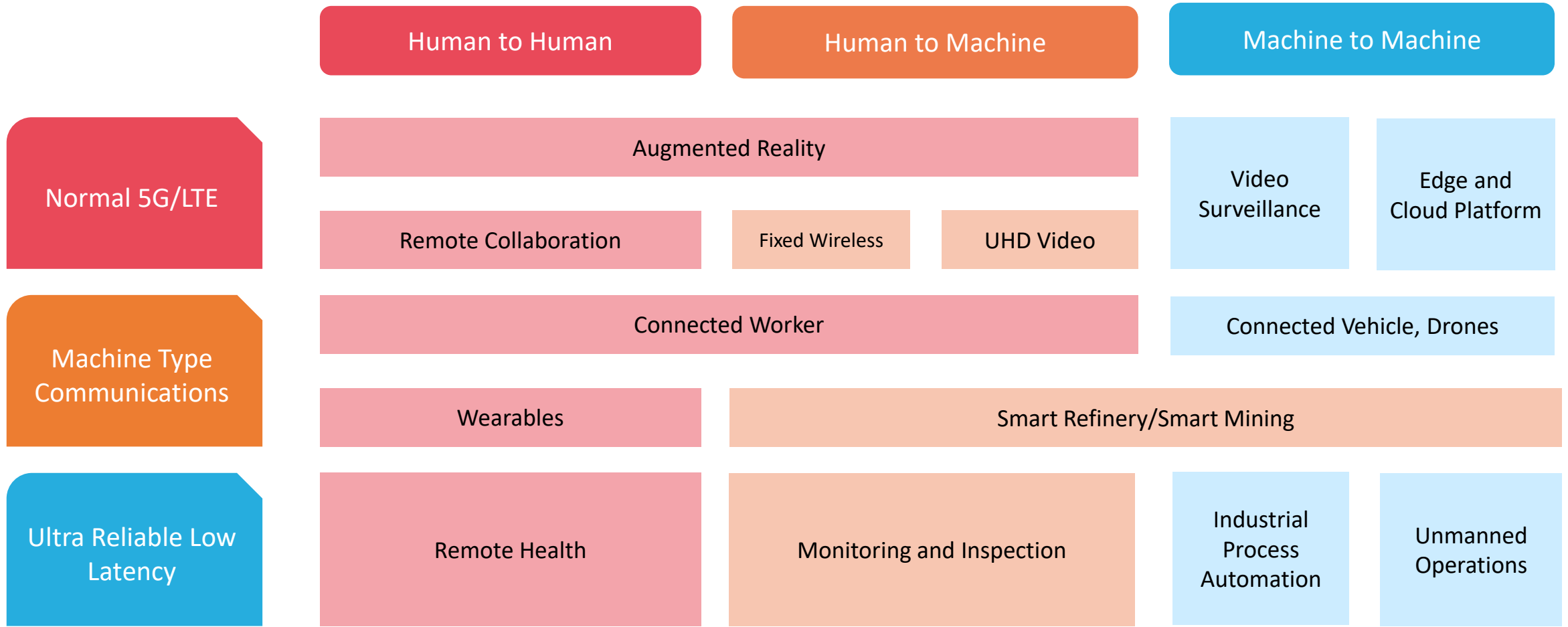
Effective use of the edge helps oil and gas analysts in yielding more in-depth insights across diverse products or portfolios.



Layout of Edge Applications



NBYCOMP
NearbyComputing



Use Cases in Oil & Gas



NBYCOMP
NearbyComputing

Wireless

Fixed Line

8 services consolidated on top of NearbyOne's Edge Fabric

Worker Assist:

- Remote guidance to field workers / AR

Operations Streamlining:

- Predictive analytics on health status of assets
- Vehicle Guidance

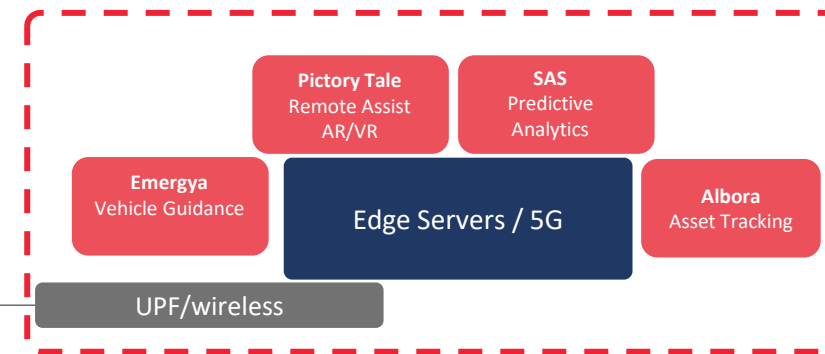
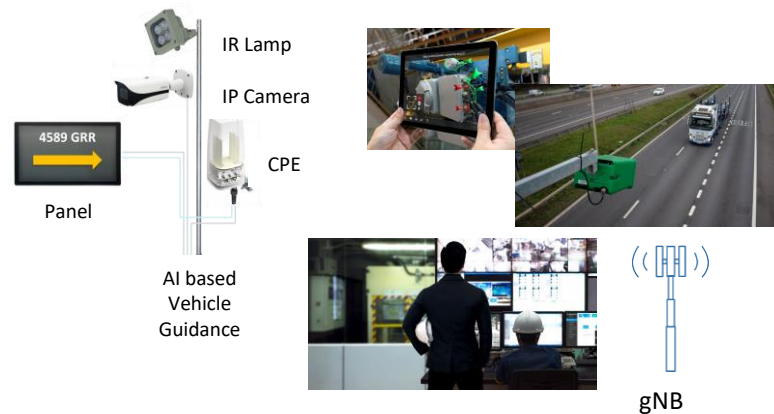
Asset Tracking:

- Real-time remote monitoring and control of assets
- In-vehicle monitoring system

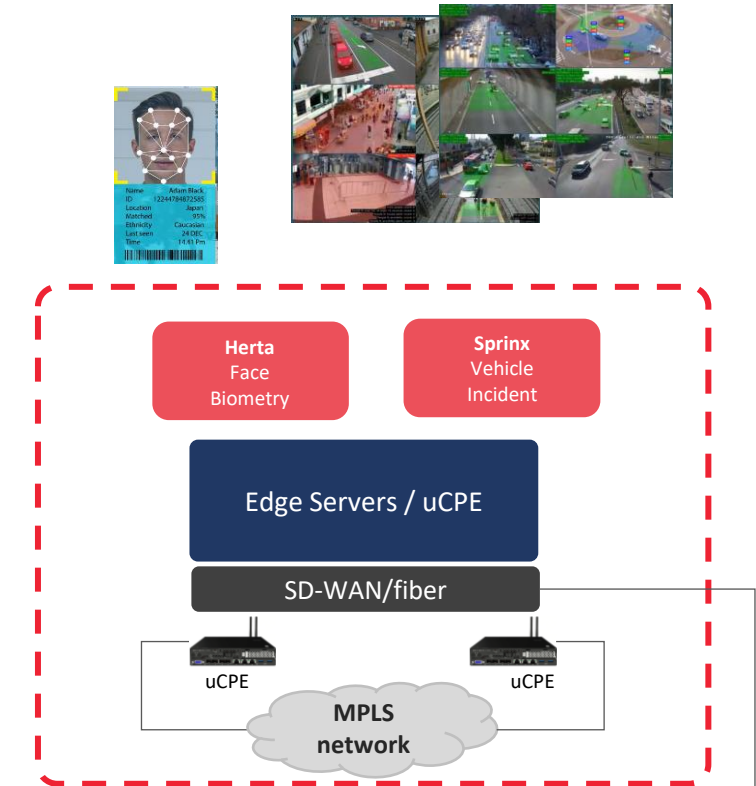
Perimetral Security:

- Person Detection
- Face biometry identification
- Vehicle incident detection

5G for Operation Streamlining



Safety As a Service





NBYCOMP
NearbyComputing

Partner with us

nearbycomputing.com | nbc@nearbycomputing.com | [@nbycomp](https://twitter.com/nbycomp) | [#nearbyoneorchestrator](https://twitter.com/nearbyoneorchestrator) | +34 936 55 00 50

