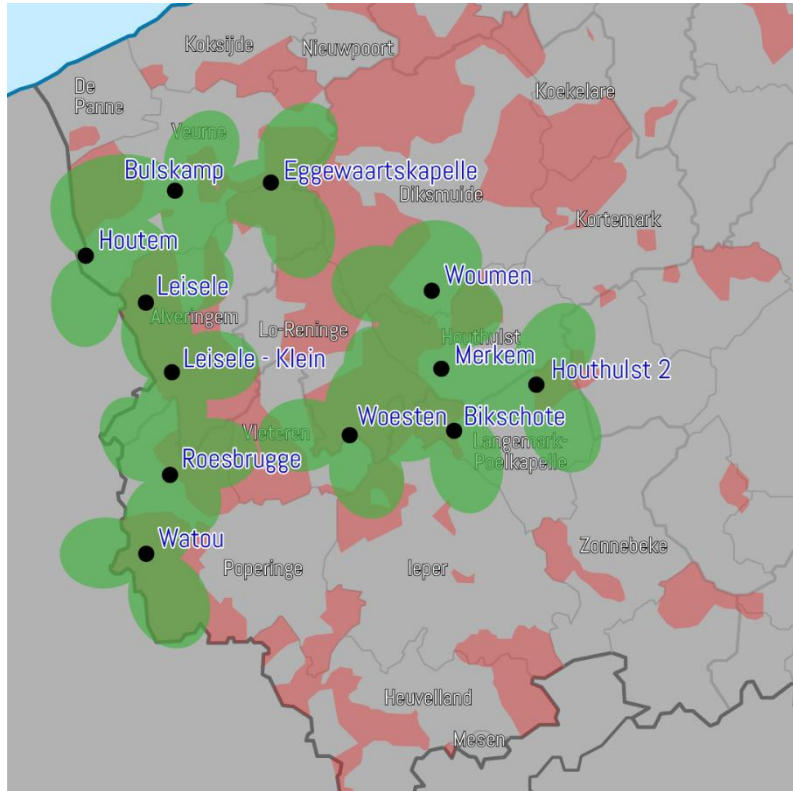


Digitally unlocking « Westhoek » by realizing 5G SA

New 5G SA Infrastructure is being installed



*Simulation of possible blind spot coverage with 12 sites
Final location and coverage is subject of the ongoing site surveys*

Flanders Smart Fields network :

- 12 sites to cover maximum of “blind spots”
- 5G Standalone Mobile Private Network
- Seamless roaming with public operators
- Deployment 2024 – 2025
- Field testing is very positive

Some technical details

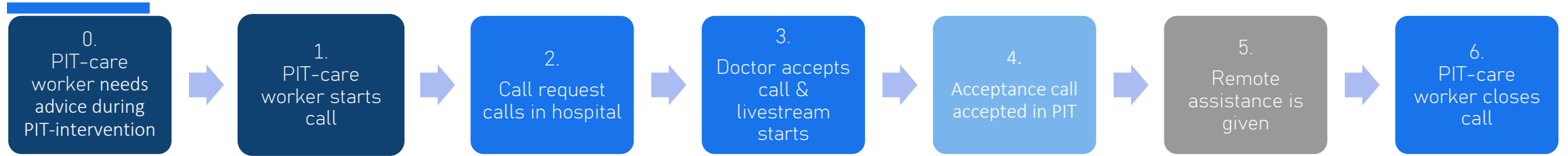
The 5G SA network infrastructure contains the following advanced characteristics (not available on 4G or wifi) :

- uRLLC ultra-reliability & Low Latency Communication
- eMBB enhanced Mobile BroadBand : high bandwidth for streaming video, HD Upload
- MCPTT : mission-critical push-to-talk; also for first responders & other emergency teams connected
- Network slicing (more details in the deck by Stefaan later)
- IoT-layer : support for Internet of Things connectivity (eg. a.o. headset; 360° view camera, lidar, radar, ...)

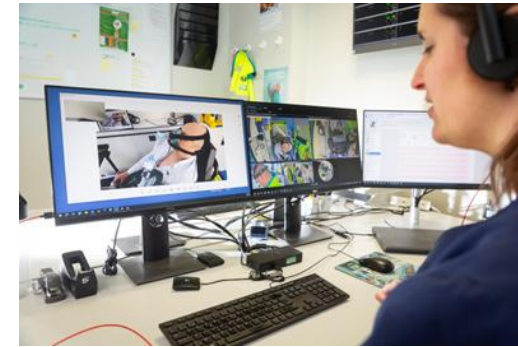
The goal :

- Development of reliable communication between the remote operator control center and the semi-autonomous / automated ship. The preciseness & stability of the communication channels are important, as the ship is managed and steered remotely, from a distance (> 100 km's away).
- Compare 4G/LTE with / versus 5G SA uRLLC-component (ultra-Reliable Low Latency Communication).
- Compare 4G operator / VHF / satellite communication (current set up before this project) en operability (costs, easiness, control, legal, ...) with technical capabilities (Availability, Latency & Cyber security) of 5G SA
- Proof that 5G SA connectivity can support all ways of network traffic (inclusive business critical); and become an enabler for deployment and adaptation of semi-autonomous transport over the water ways.

Full flow 'PIT'



- PIT care worker accepts via button on smartglasses



- Audiovisual connection between doctor & PIT care worker; advice is given



Full flow 'Improved Care : from injection, pick-up to analysis'

