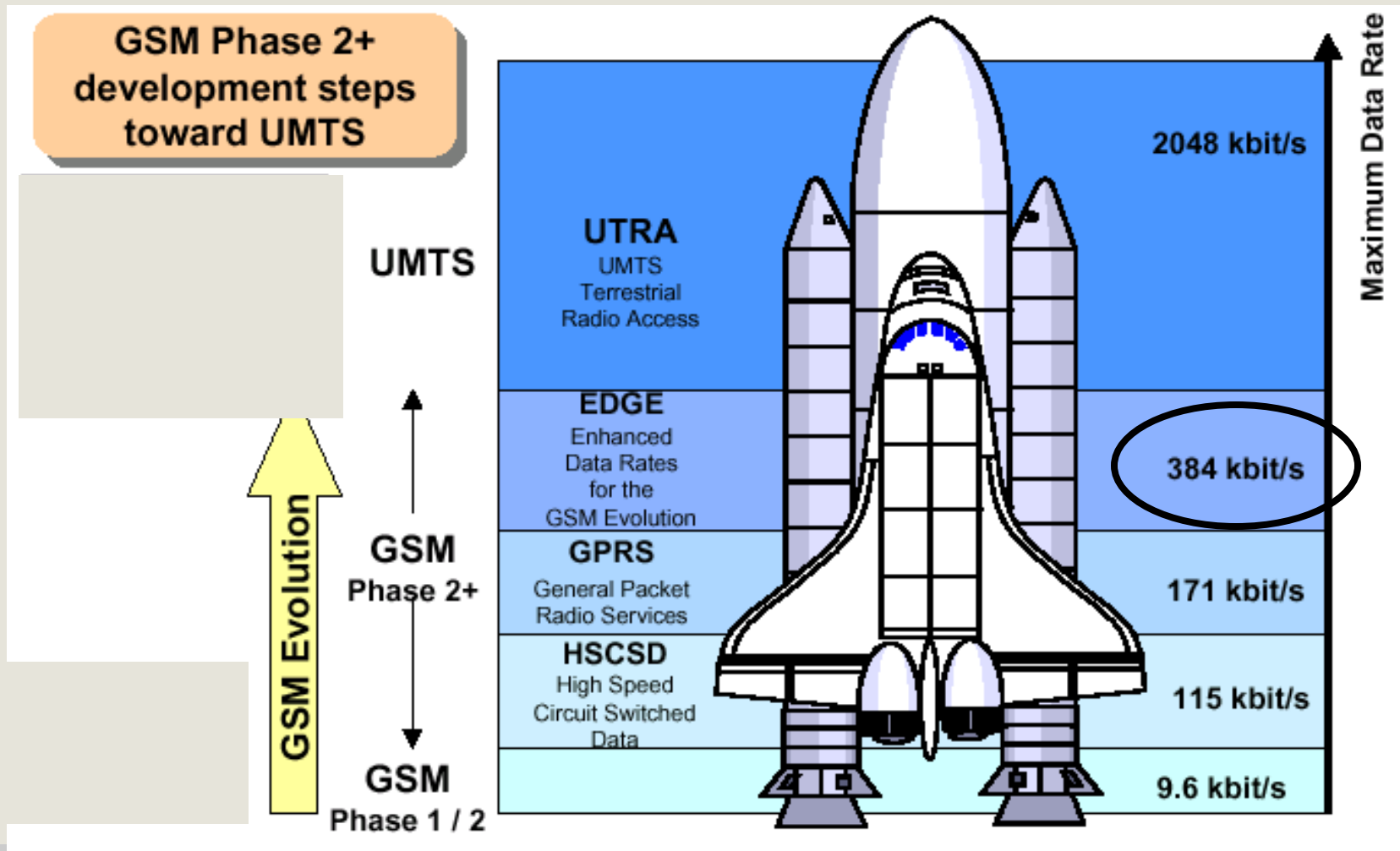


US and Swedish Industrial Support to Network Centric Warfare for US and Swedish Forces


October 9, 2003

**Frank McGhee
Vice President, Government and Space
Ericsson USA**

Evolution and capabilities



What can Ericsson do for the agencies and the users today?

- Wireless Networks: Large  Small
 - GSM
 - CDMA
 - WCDMA
 - Satellite
- Handsets (through partners)
- Applications

MiniGSM

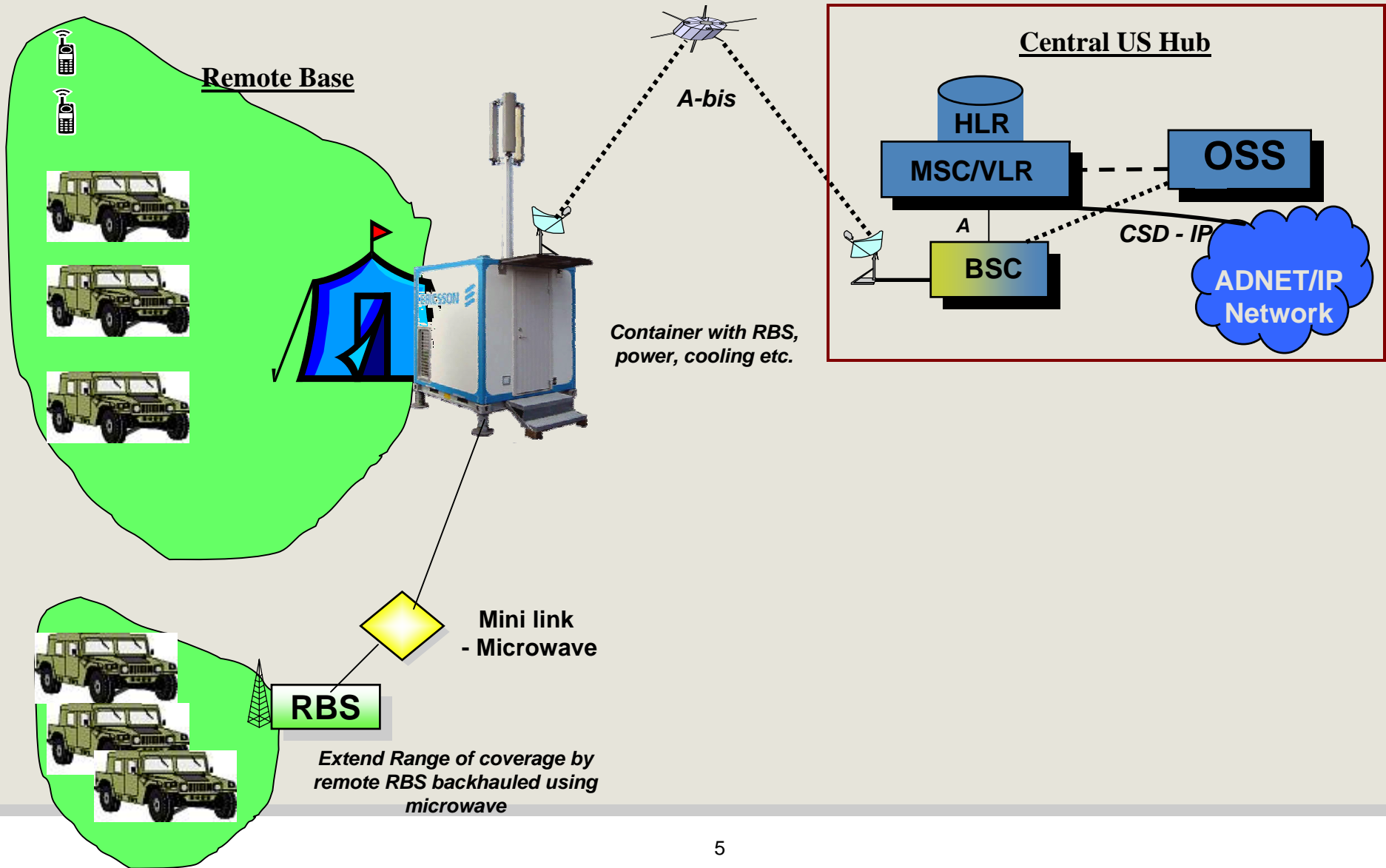
- Complete GSM system
- Ruggedized for Military use
- 4 way forkliftable
- Certified for Airlift (C130, C141,...)
- Helicopter slingable
- Weather, dust and sand-proof
- Optional Casters and wheels for easy towing
- Colors to suit military use (forest green, desert sand, etc).

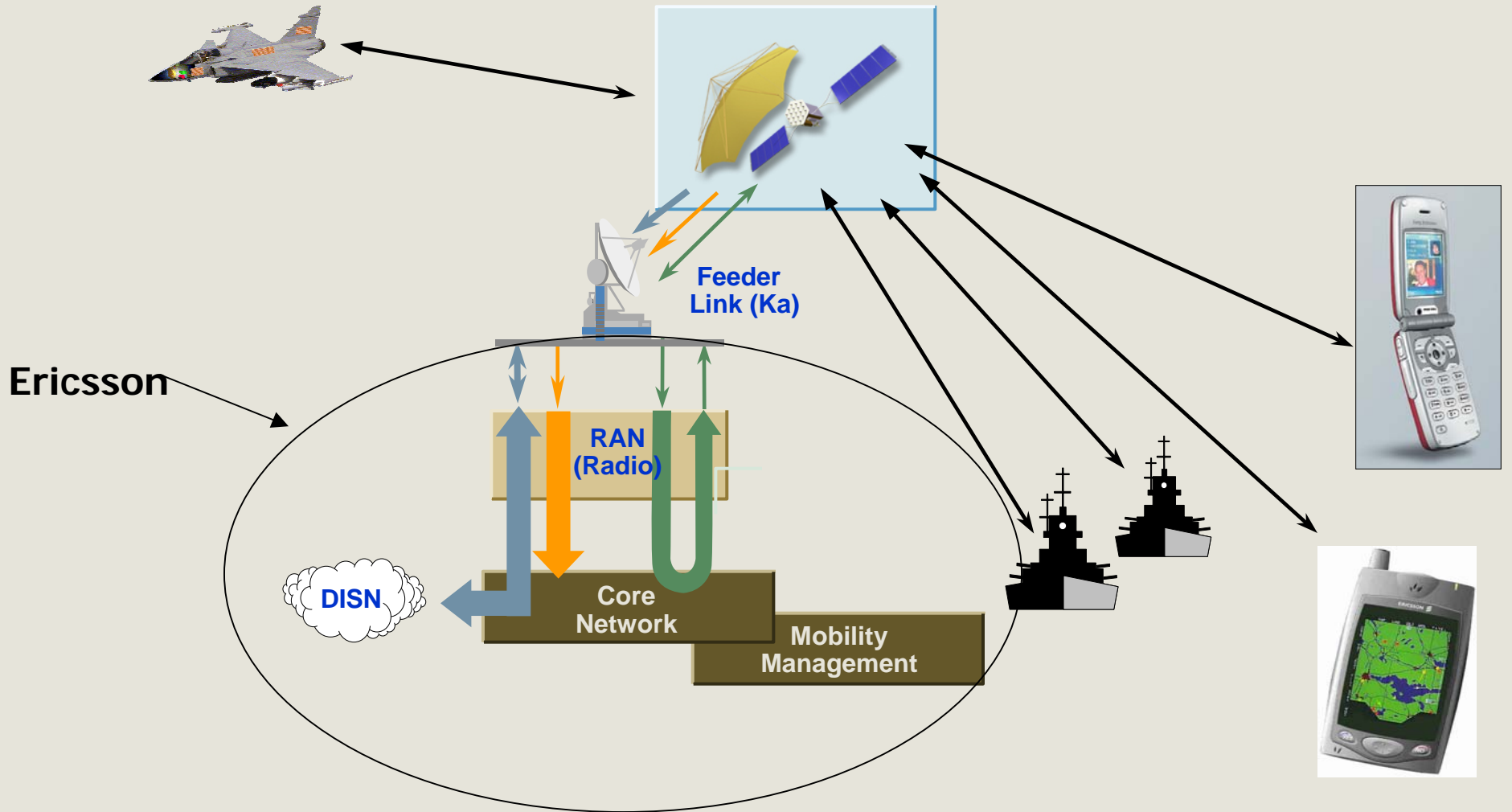


• 7' x 9' container



Example MiniGSM Deployment





Ericsson WCDMA Container System

What's Included:

- Completely tested, configured, WCDMA network
- Applications
- Terminals (10)
- Support (technical and general)
- Demo and test specifications
- Training paths proposal

WCDMA Trials



The 20 ft. trial container








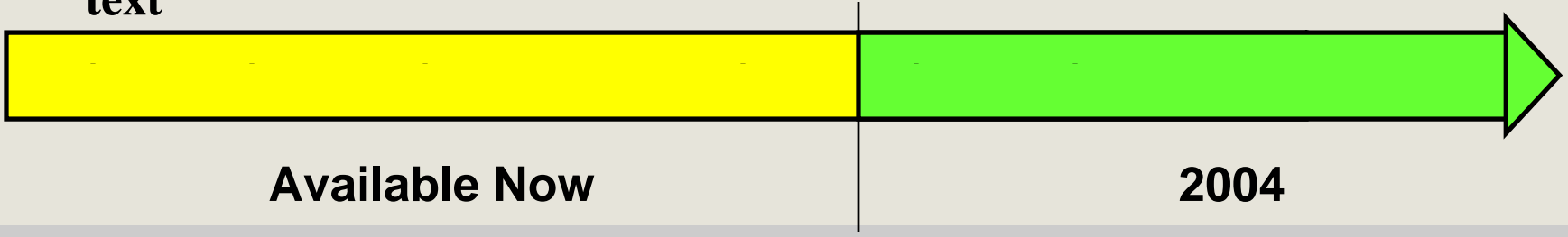
WCDMA Micro Base Stations

- **New RBSs for hot-spot, challenging sites and extreme capacity/coverage**
 - **Micro RBS**
 - Micro RBS 3303, 1 sector 5W
 - **First Main Remote Base Station**
 - RBS 3402 (Main for 3 x RRU) + 3401 (6W remote radio unit - RRU)
 - **Extreme capacity and coverage RBS 3101/3202**
 - 6 sector configurations



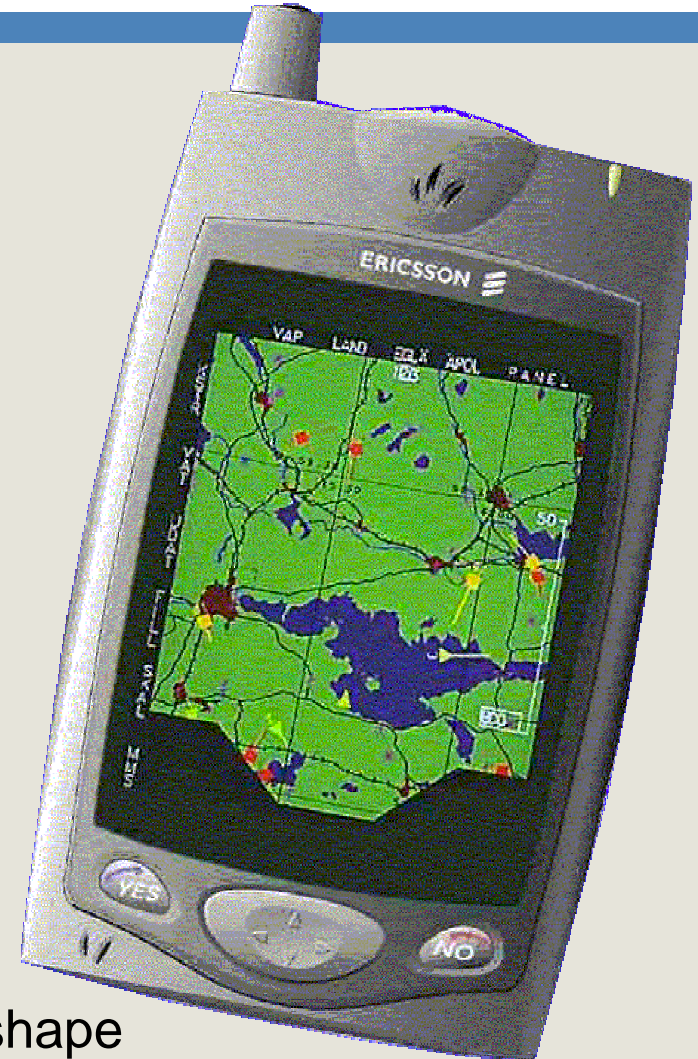
Evolution of applications - User perspective

<p>SMS</p>  <p>text</p>	<p>EMS</p>  <p>pictures</p>	<p>MMS</p>  <p>photos</p>	<p>Video Download</p>  <p>videoclip</p>	<p>Video Streaming</p>  <ul style="list-style-type: none">•interactivity•movies
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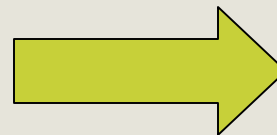
Situation awareness: 3G for wide area coverage

- Practical range around 5-10 km
- Network topology can be tailored depending on requirements
- Future additions to the standard:
 - HSDPA (8-10 Mb/s downlink)
 - Smart antennas
 - All IP
 - SIP for session set-up
 - Group calls
 - Enhanced security
- Affordable, yet advanced terminals in any shape
- Low cost base stations
- Robust waveform



Example 1, Team/individual level: Giving orders, share intent

- Virtual meeting over the network
- White-boarding and chat room



Example 1, Team/individual level: Search & Rescue - coordination of movements

- Units see each others' positions on the handheld device
- Critical locations plotted as they occur



Example 2, Logistics/telematics: A vehicle breaks down

- The vehicle automatically sends a trouble code to a mobile support center
- The center connects to the vehicle to perform remote diagnostics
- The center sets up a video call with the driver



Example 2, Logistics/telematics: The vehicle is repaired

- A part needs to be replaced in the vehicle
- The driver gets instructions how to replace the part
- The driver uses his mobile diagnostics tool to check after repair



Situation awareness: Bluetooth for personal area network

- Example: Local surveillance:
- Bluetooth-enabled camera-to-eye link

