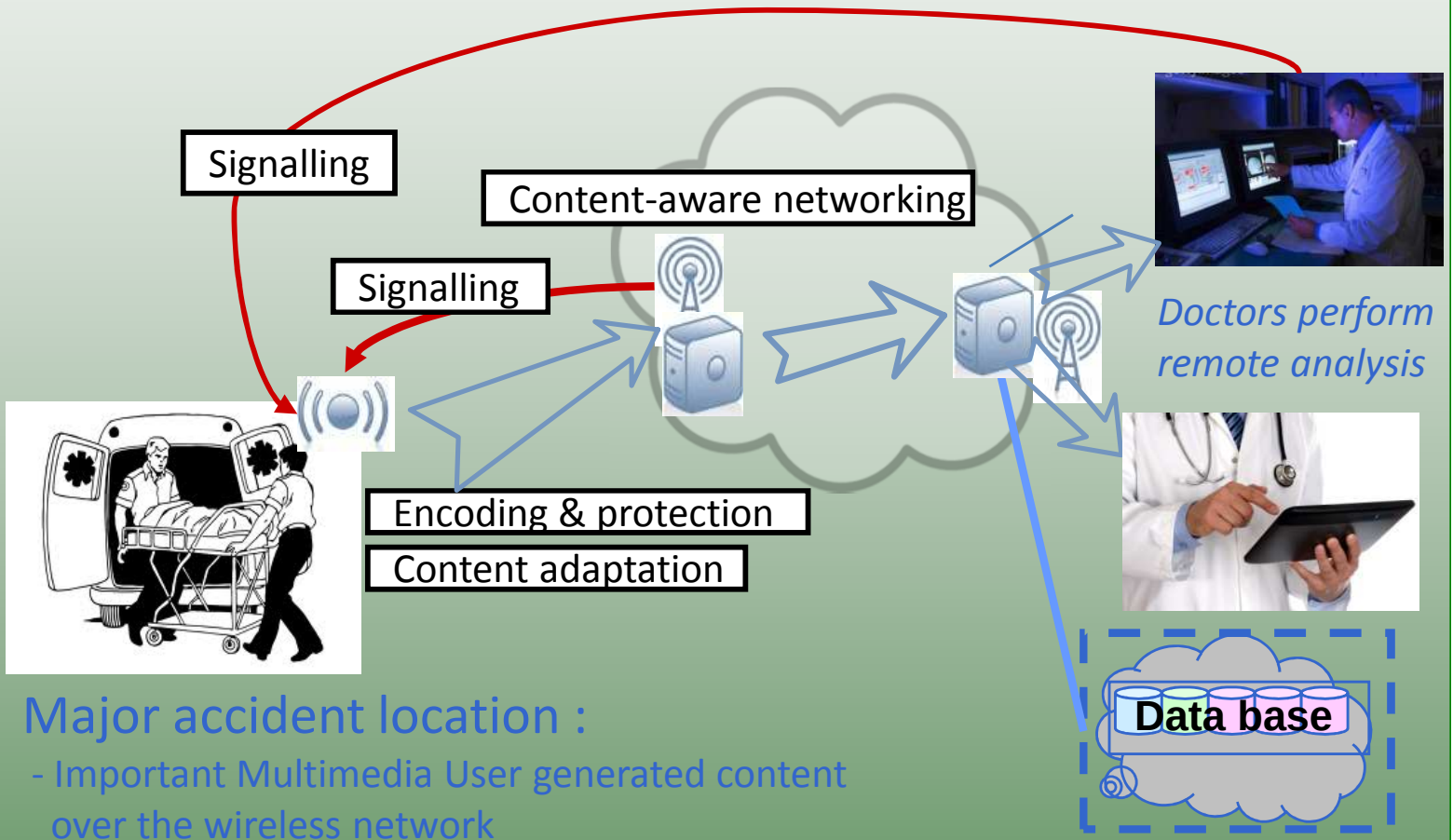
Concerto

Content and cOntext aware delivery for iNteraCtive multimedia healthcaRe applications



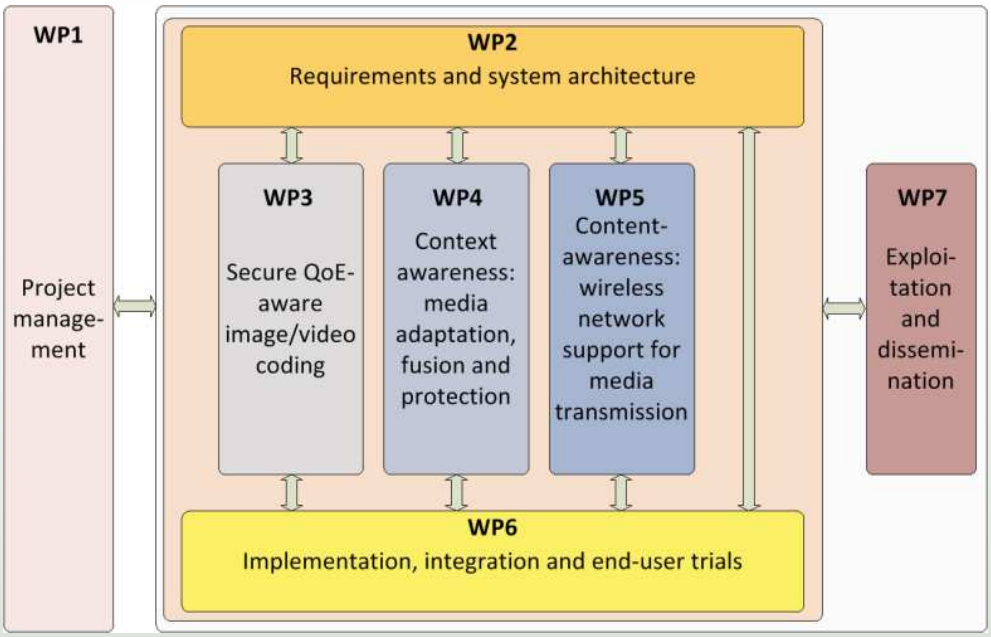
Major accident location :

- Important Multimedia User generated content over the wireless network

CONCERTO objectives

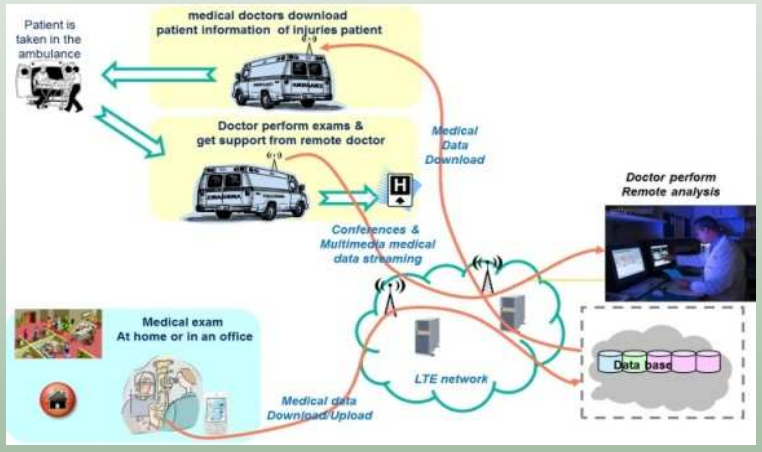
- Increase the efficiency and effectiveness of medical intervention through new multimedia applications
- Guarantee high Quality of Experience (QoE) for medical doctors also on the move and in emergency scenarios
- Foster telemedicine applications through development of new ICT solutions

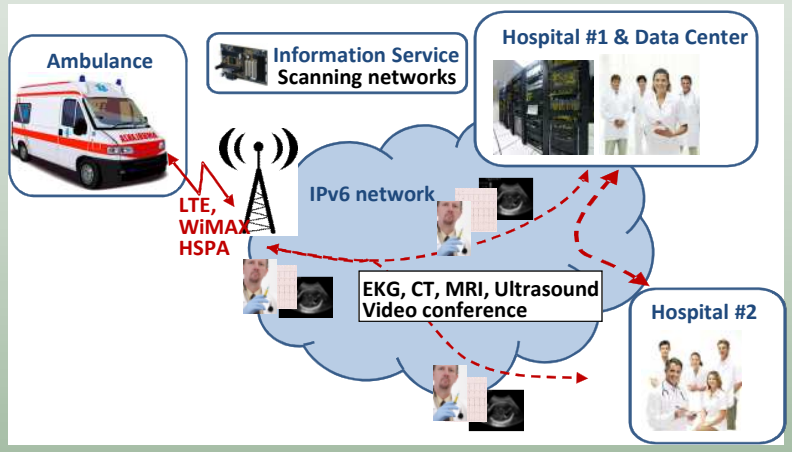
Work Breakdown Structure

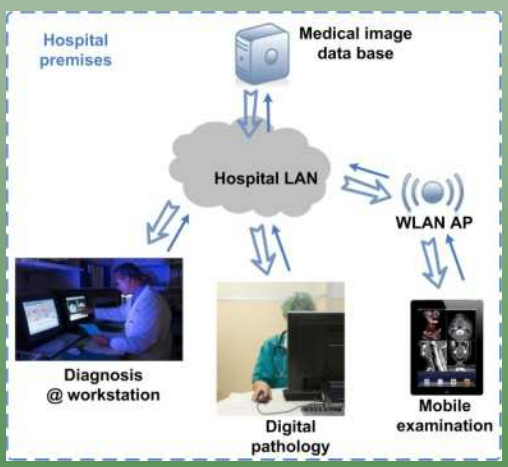


Key topics addressed

- Compression and protection of medical images and videos
- Cross-layer optimized adaptation and QoS provisioning
- Content-aware wireless delivery

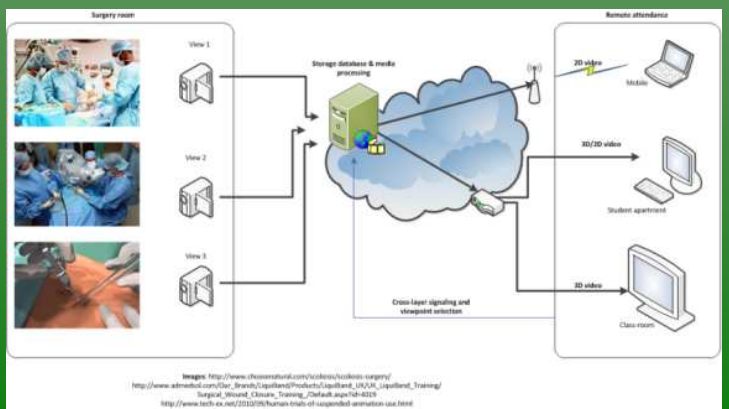


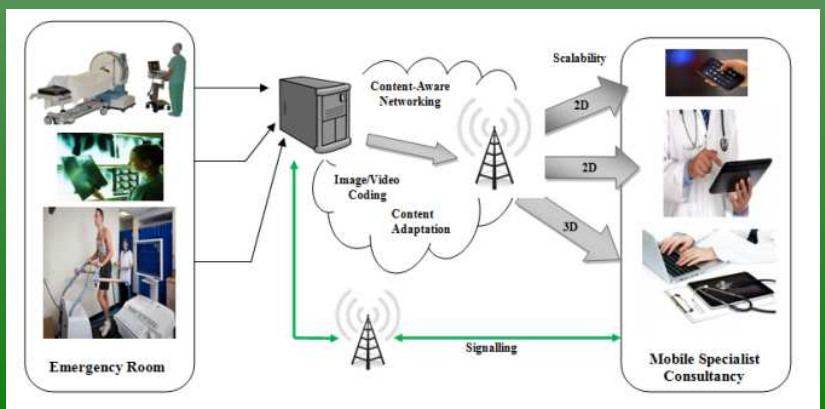




Use cases

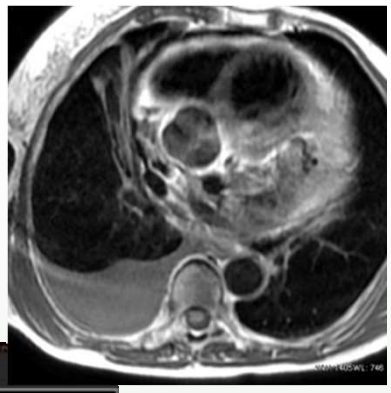
- Ambulance and emergency areas
- Emergency areas with multiple casualties
- Emergency rooms
- Ubiquitous tele-consultations
- Surgical assistance
- In-hospital scenarios
- Medical education



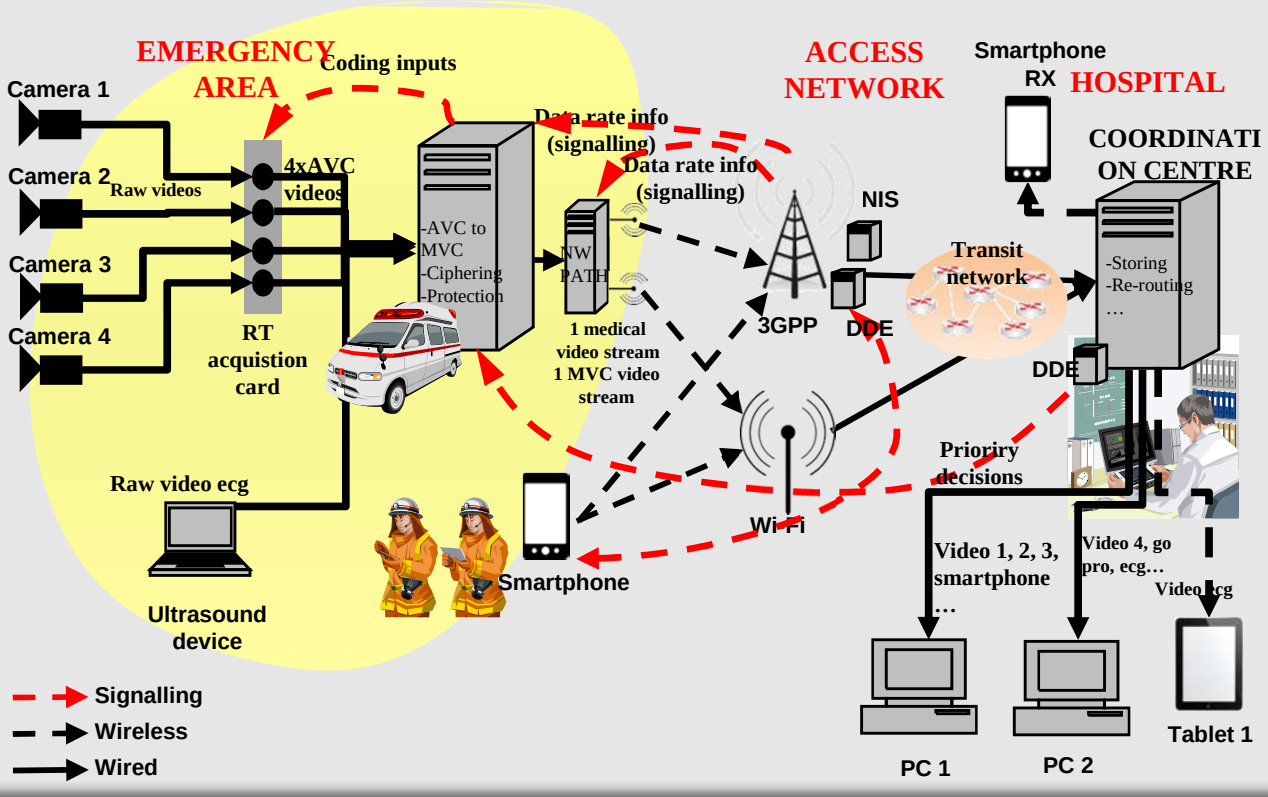


Main studies and results

- New QoE metrics for medical domain
- Image and video compression algorithms for both medical and standard contents
- Multi-view and multi-camera video acquisition campaign
- Dynamic adaptation strategies for multimedia encoding and transmission
- Fine-grained distributed and dynamic mobility management
- New selective encryption algorithms
- Content- and context- aware network solutions
- OMNET based system simulator
- Validation of project technical results by medical staff
- Collaboration with two hospitals
- Proof of concept demonstrator



The CONCERTO demonstration scenario



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This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration