





***Mobile Medical Emergency
Collaboration***

Experience in Mass Incident Scenario in Slovenia

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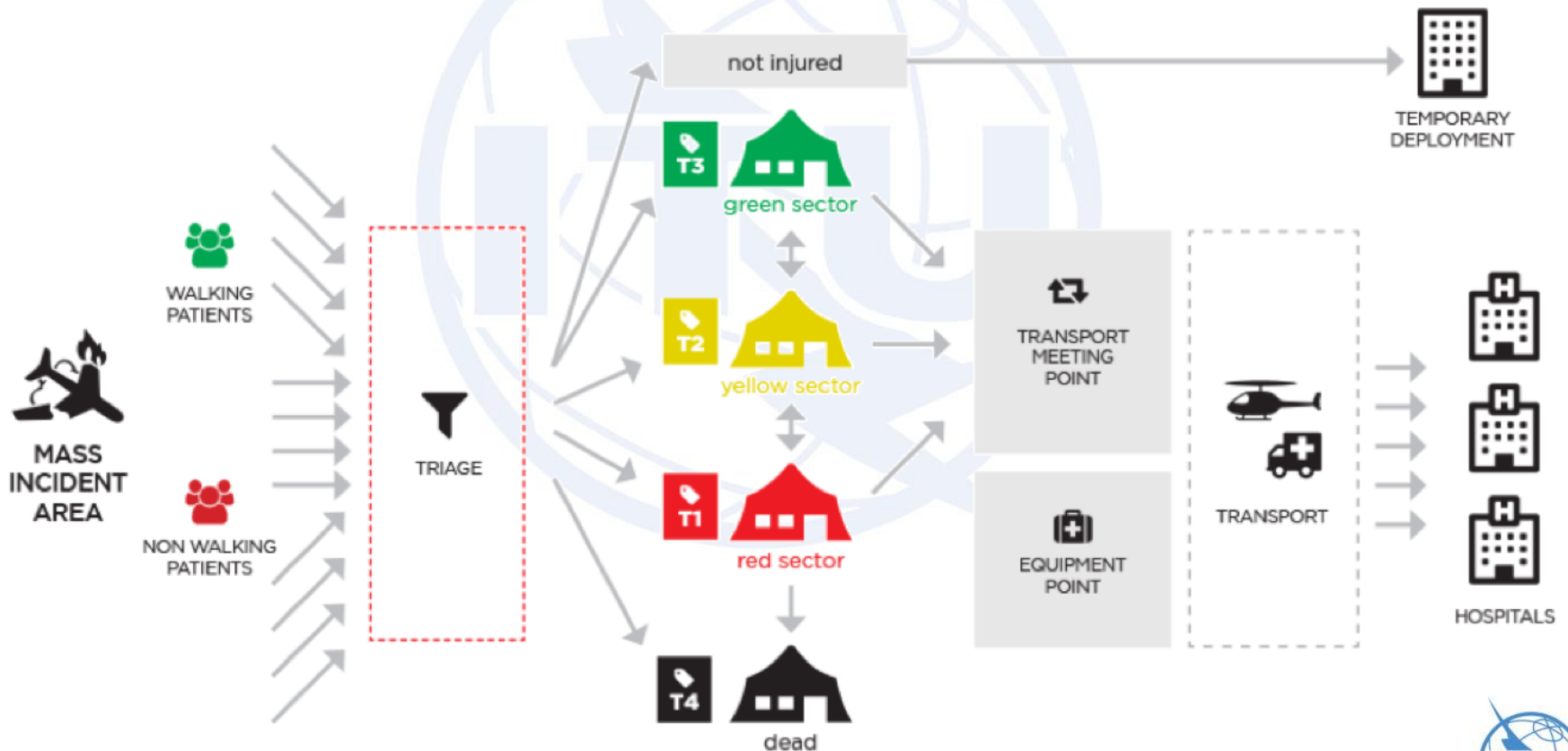
Key Challenges for Mass Incident Digital Collaboration – Save Lives

- Establish **immediate patient triage** information transfer to decision makers to optimize resource usage and save lives
- Provide multimedia support for operations and training
 - Consultation via video conference and whiteboard
 - Live streaming from situational cameras
 - Attach photo and video to medical records
 - Attach patient data
- Provide reliable and robust communications
 - Hybrid solution from 4G, 4GLocal, Wifi Mesh, Satellite, 5G in future, Bluetooth
 - Local server with optimized redundant operation
 - Optimize data transfer for messaging and multimedia
- User friendly and efficient UX/UI
- Extended tracking, analytics and learning –immersive learning



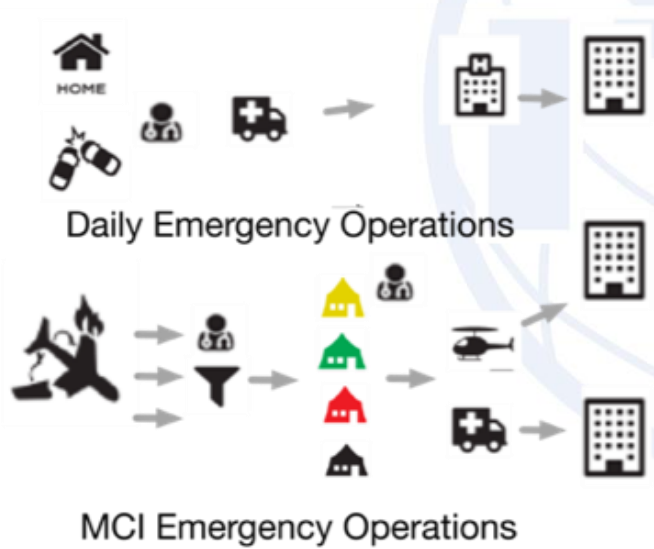
Mass Incident Medical Setup

(a lot of time spent to understand workflow)



Experience from Mass Incident Exercises in Slovenia

- Stožice Terrorist Attack
 - Largest 350 patients
 - Local WiFi/4G GW
- Tlake Train Accident
 - Live Streaming
- Brnik Airplane Crash
 - Improved Workflow
- Novo Mesto MRMI 2x
 - Comparative analysis
- Bled, Stan

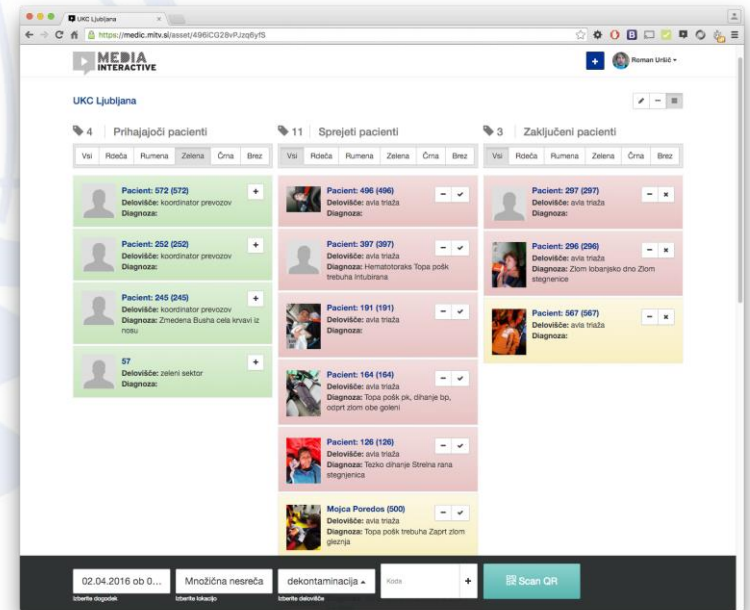
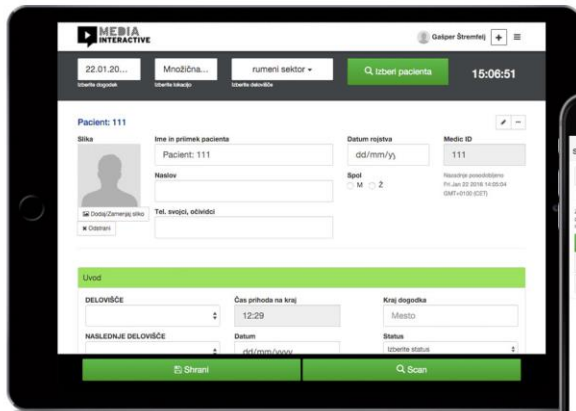


Transition from Paper and Walkie Talkie to Digital Collaboration Dramatic Operations Change

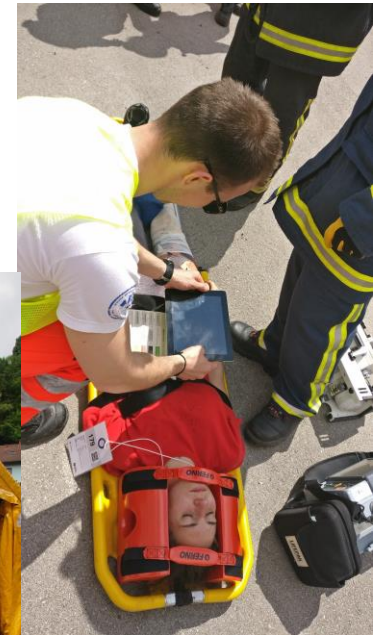
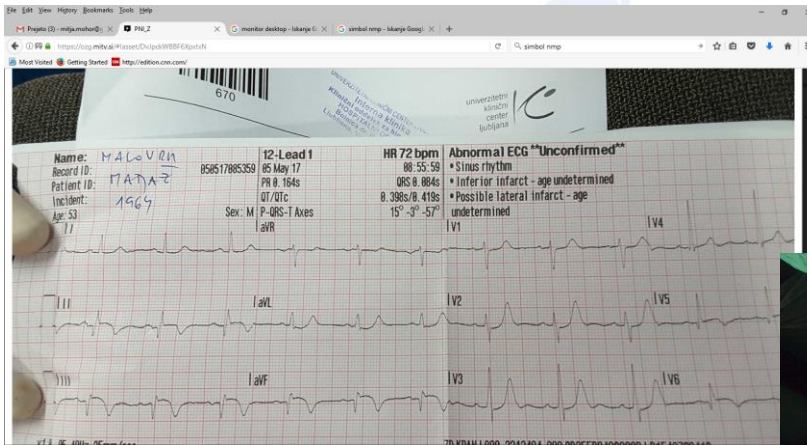


Wide Variety of User Experience

- Super simple triage on smartphone
- Local Coordination on Tablet
- Multi Screen in Center



From Live Action

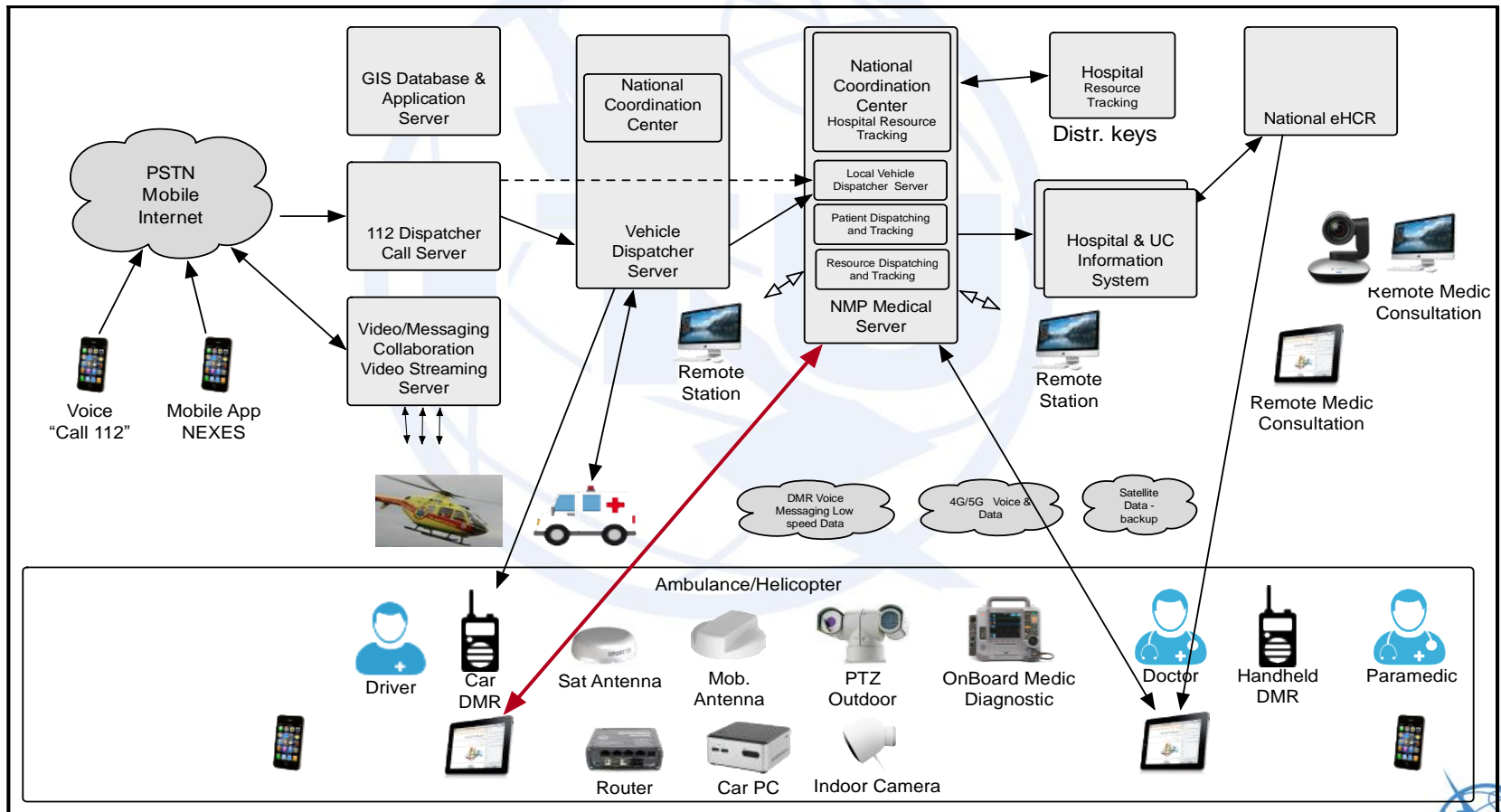


Improve Digital Skills by Introduction of Daily Intervention Support

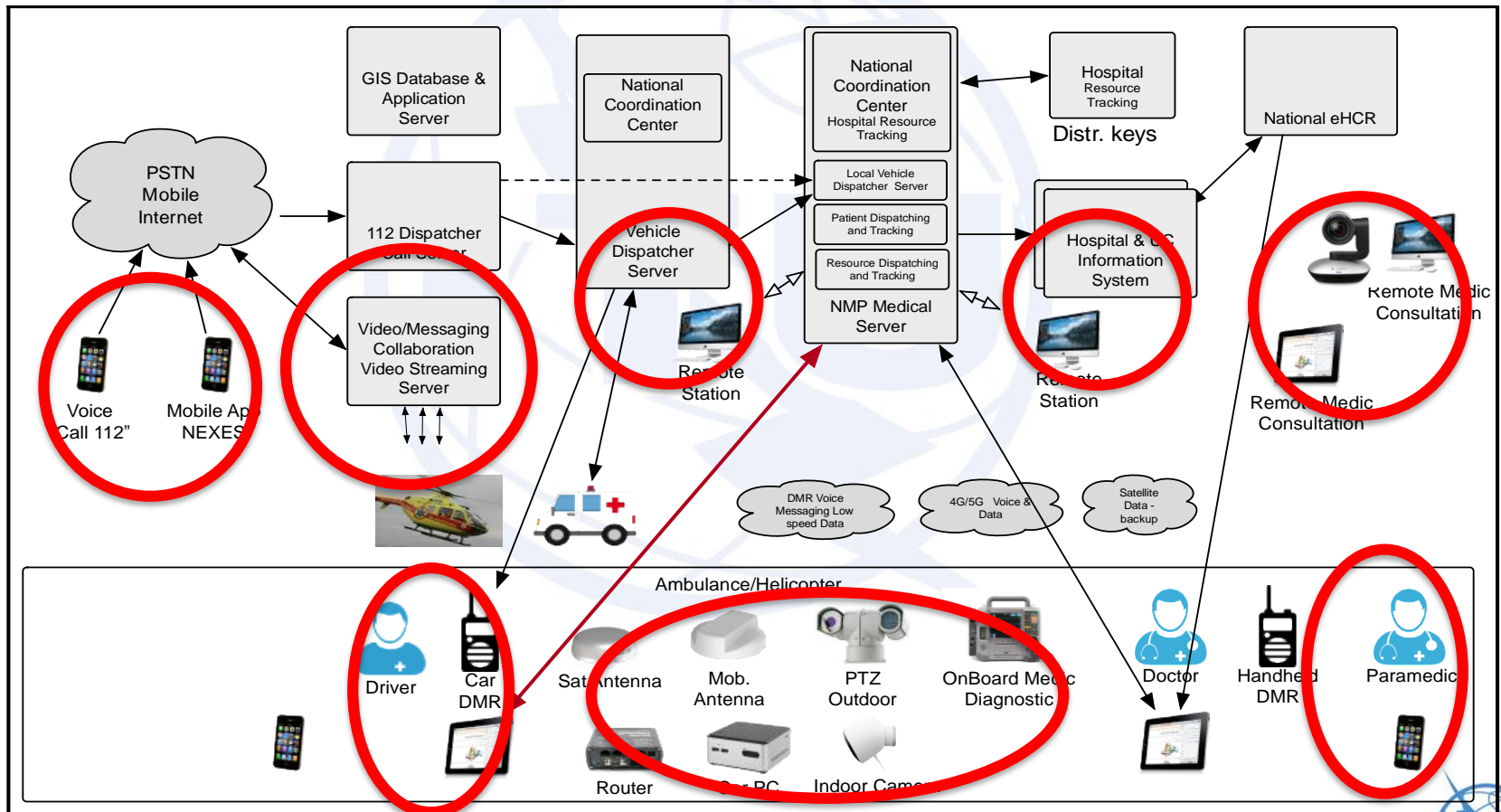


- In regular operation for 18 month in Gorenjska region with 100.000 people
- 7 Urgent Centers and 7 clinics in Ljubljana UKC
- Integration with HIS
- 20 Urgent and 40+ non urgent actions per day
- Outstanding user response
- Advanced learning center
- New projects in pipeline
- Palliative workflow and data

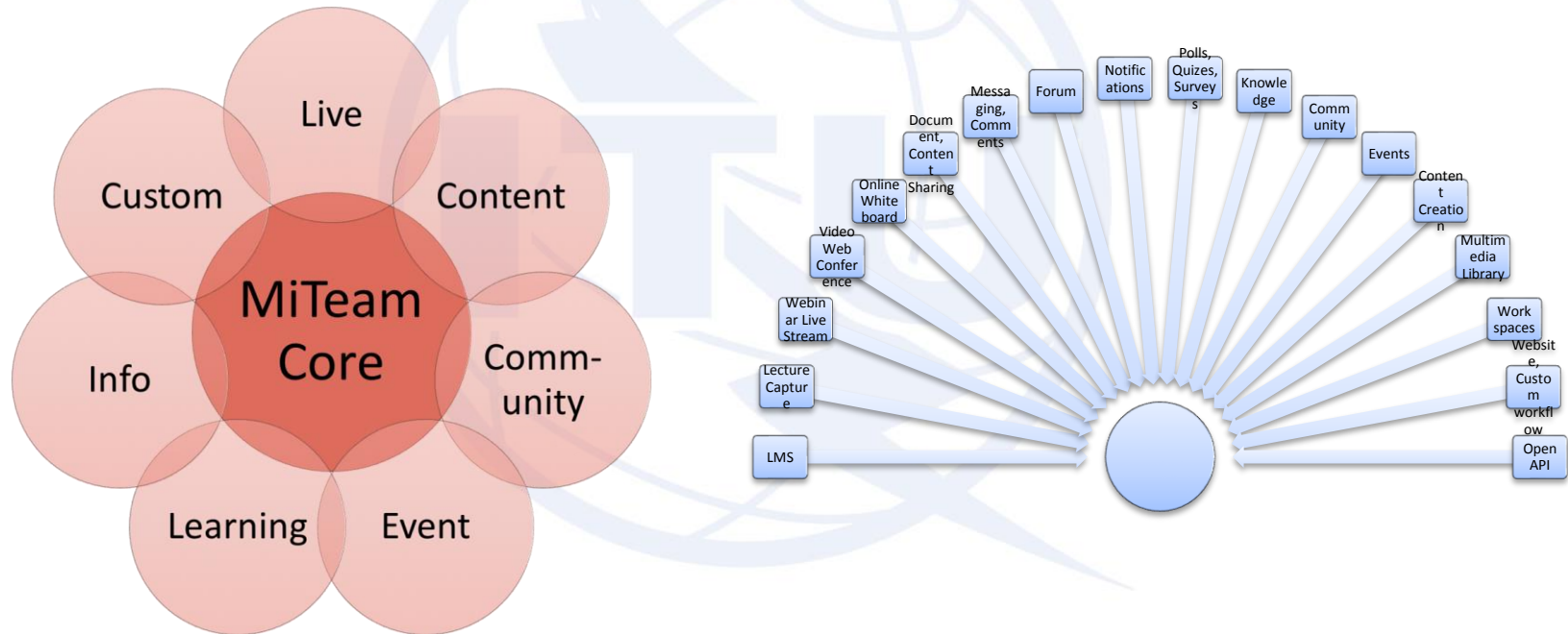
Functional Architecture for Emergency Collaboration in Slovenia



Functional Architecture for Emergency Collaboration in Slovenia

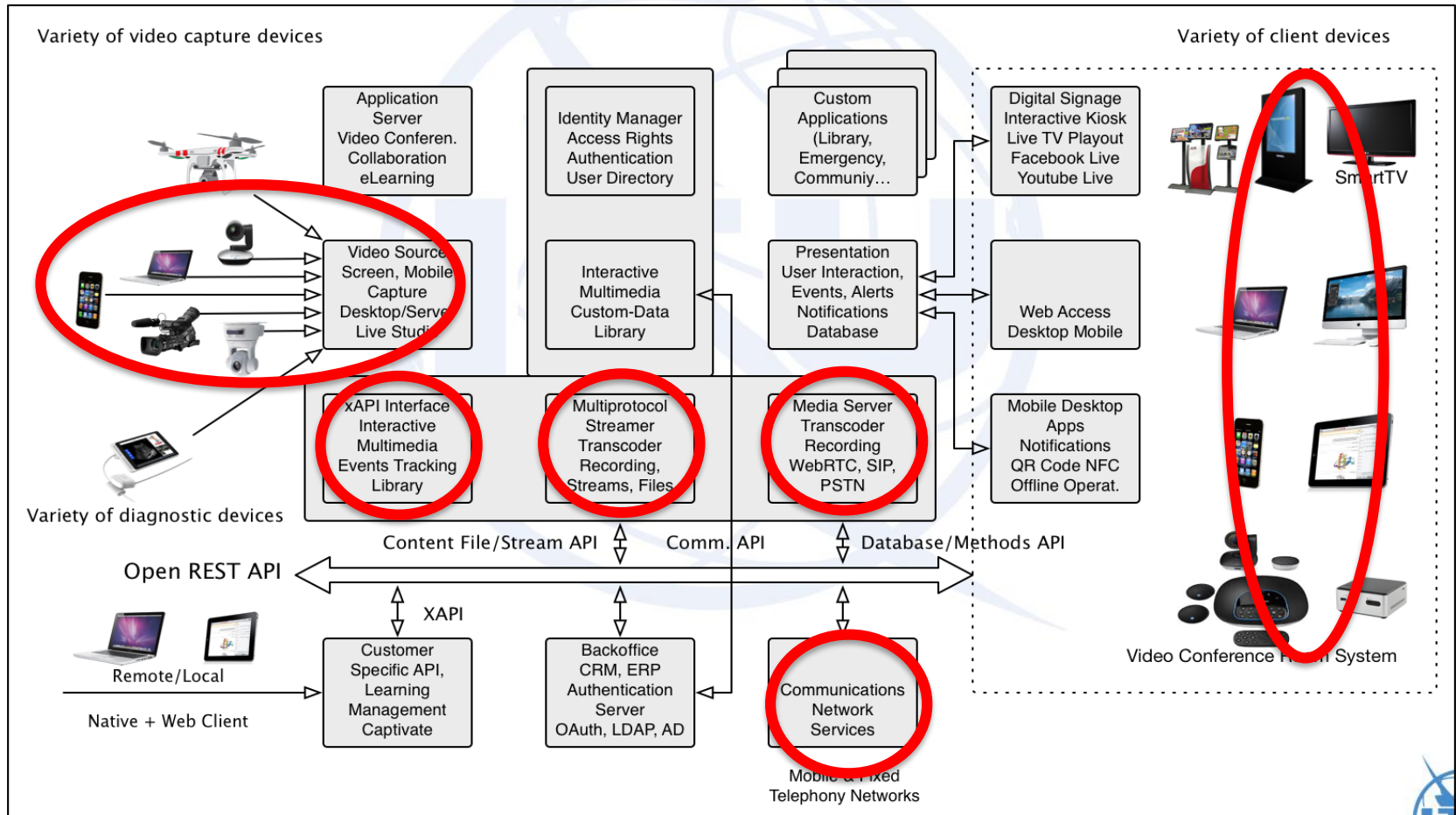


Unified User Experience on all Tools and Devices



Functional Architecture

Digital Collaboration Platform MiTeam



Key Technologies of Digital Collaboration Platform

HTML



WebRTC

EXPERIENCE
API™

- Mobile – interactive HTML5
- WebRTC evolved to production quality fully integrated into custom workflows and all devices
- WebRTC Sever and PSTN GW
- XAPI (TinCan API) & Learning Records Store
- Big Data: detailed 360 deg tracking, open analytics, instant reporting
- Advanced content and creation tools– HTML5, XAPI, Mobile, Augmented reality
- Open API and customized interfaces



Future Challenges for Mass Incident Digital Collaboration

- Improve situational awareness with advanced workflows and GUI
 - Operations Center Local Command Center Hospital
- Integrate IoT devices such as Bracelet and Portal Scanners
 - Minimize human monitoring
 - Constant observation and better precision, location
- Improve multimedia experience and support
 - Better video coding, WebRTC improvements
 - Addition of AR features
- Provide reliable and robust communications
 - Introduce local and independent 4G/5G data switch
 - Local server with optimized redundant operation
- Improve tracking, analytics, simulation and immersive learning
- Internationalize operations - H2020 SME Support

