FREQUENTIS – FOR A SAFER WORLD

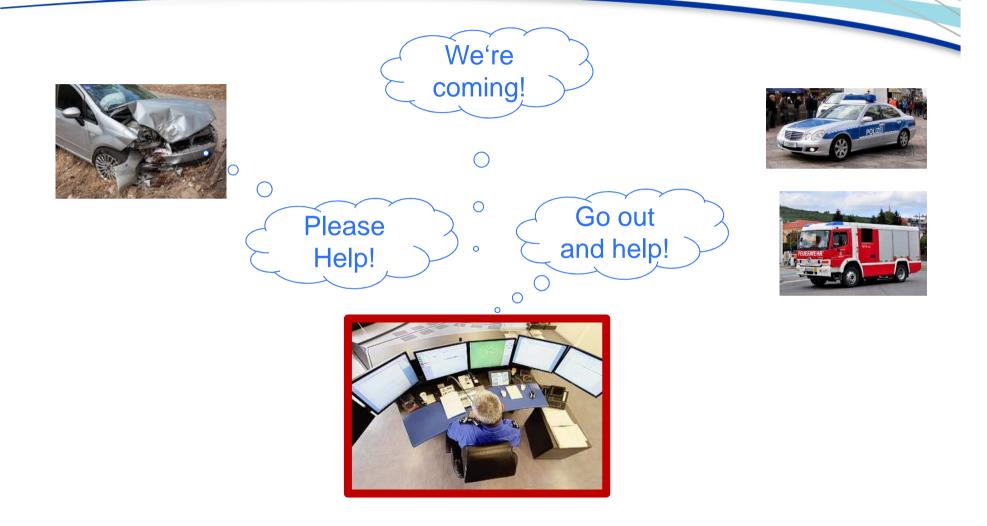
IIII

Harnessing the potential of external information sources in the Control Room

2014-05-21 Peter Haberl



→ Principal processes in a Control Room / PSAP





→ Principal processes in a Control Room



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→ Principal processes in a Control Room

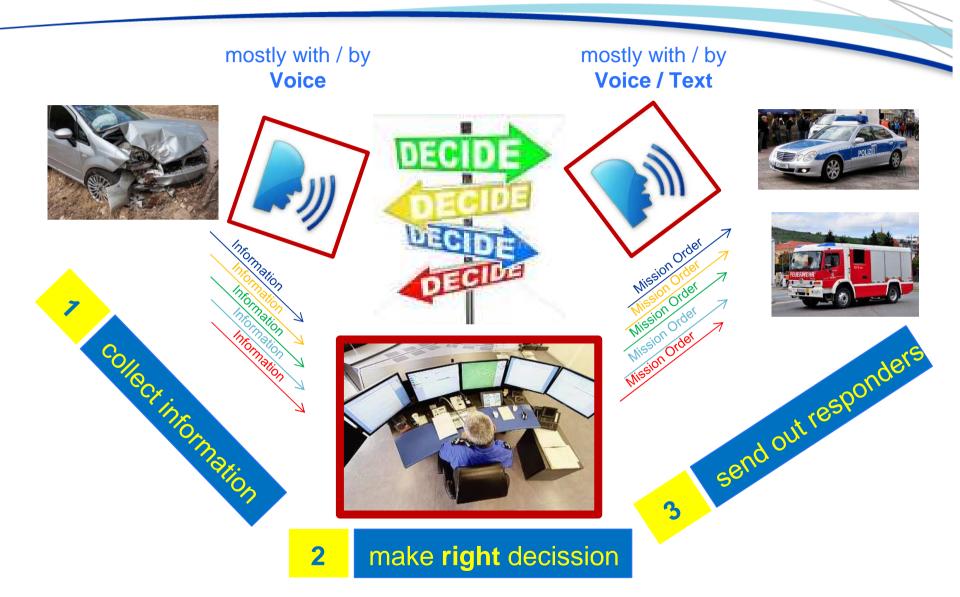




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\rightarrow More & more data in the Control Room



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→ More & more data in the Control Room



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→ Mobile Phone/Radio Evolution...

- → TECHNOLOGY changes fast
- → PROCESSES are very reluctant to changes





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→ Principal processes in a Control Room



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\rightarrow Challenges: The Public

- Contact PSAPs with today's and tomorrow's technologies
 - From any available **Device**
 - Smartphone,
 - Mobile phone,
 - PC/Laptop,
 - Tablet,...
 - Using any Media
 - Voice,
 - Text (SMS/Email/Realtime texting),
 - Pictures,
 - Video,...
 - Using any Service (Social Media)



Generation "Smartphone" ieee Spectrum, 09/2012, DAN SIEWIOREK



\rightarrow External data: here a video as an example



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\rightarrow Engaging the public

Less data:

Call them...



More data:

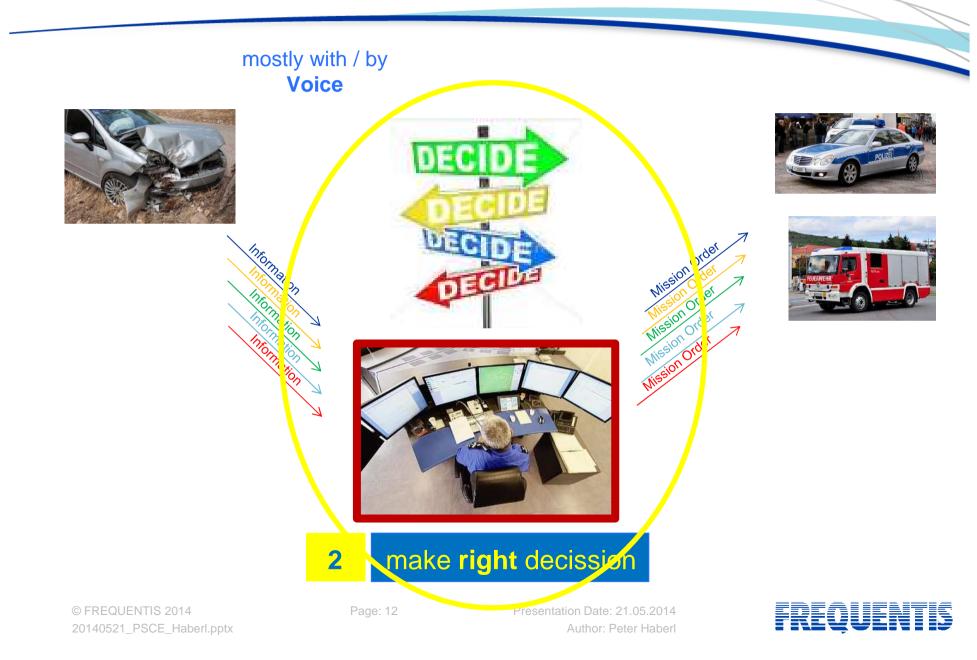
Any Media, Any Device, Any Service...



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→ More & more data in the Control Room



→ Challenge: Operator's Working Environment

- Until mid 1990s: Operator as Service-Integrator
 - Different Media for specific tasks
 - Paper & Pen
 - No Integration
- → Mid 1990s till now: Operator as Business-Service-Integrator
 - Silos: CAD, RMS, ICCS, GIS, AVLS etc.
 - None to Low Horizontal Business Process Integration
 - High Maintenance efforts for individual Databases
- → Now: Horizontal/Datacentric Integration
 - Seamless Integration different Systems
 - Reduction of Manual Tasks, Increase of Operator Performance
 - Mission centric!



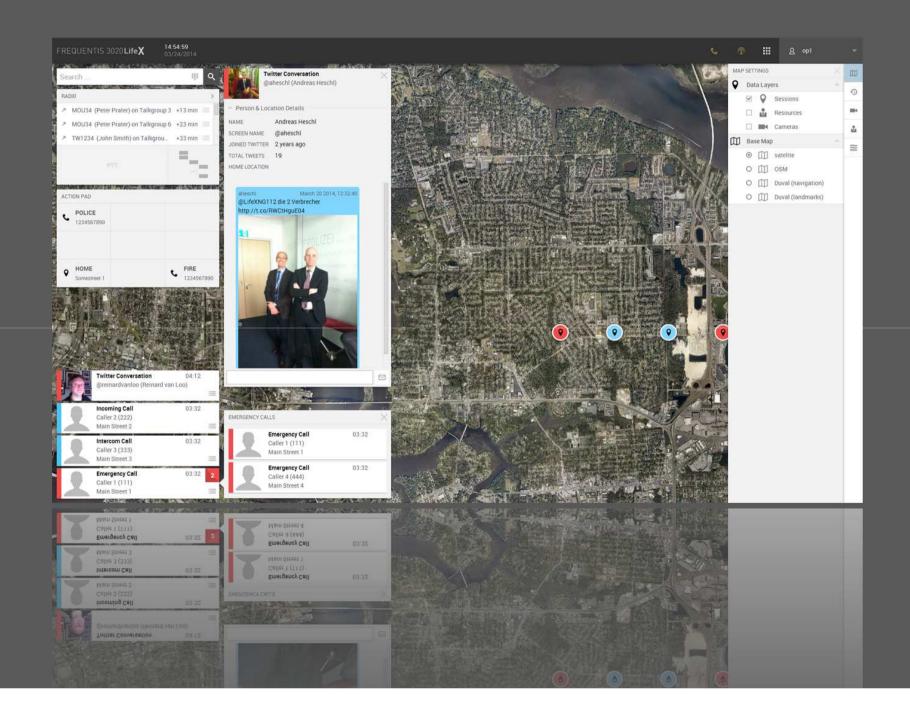




Presentation Date: 21.05.2014 Author: Peter Haberl

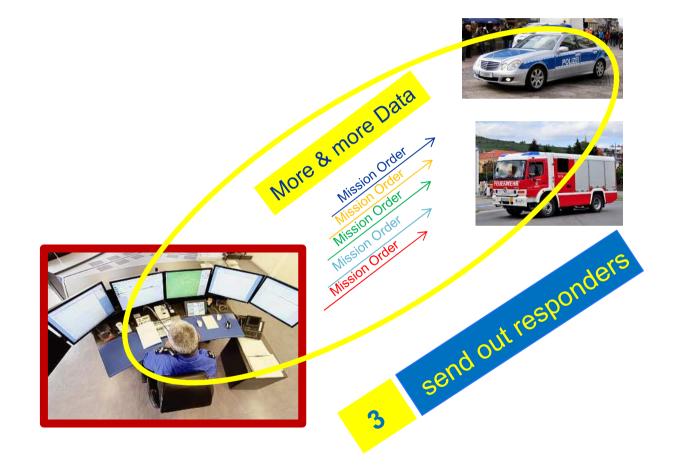


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→ Call the right resources (nearest, most adequate)





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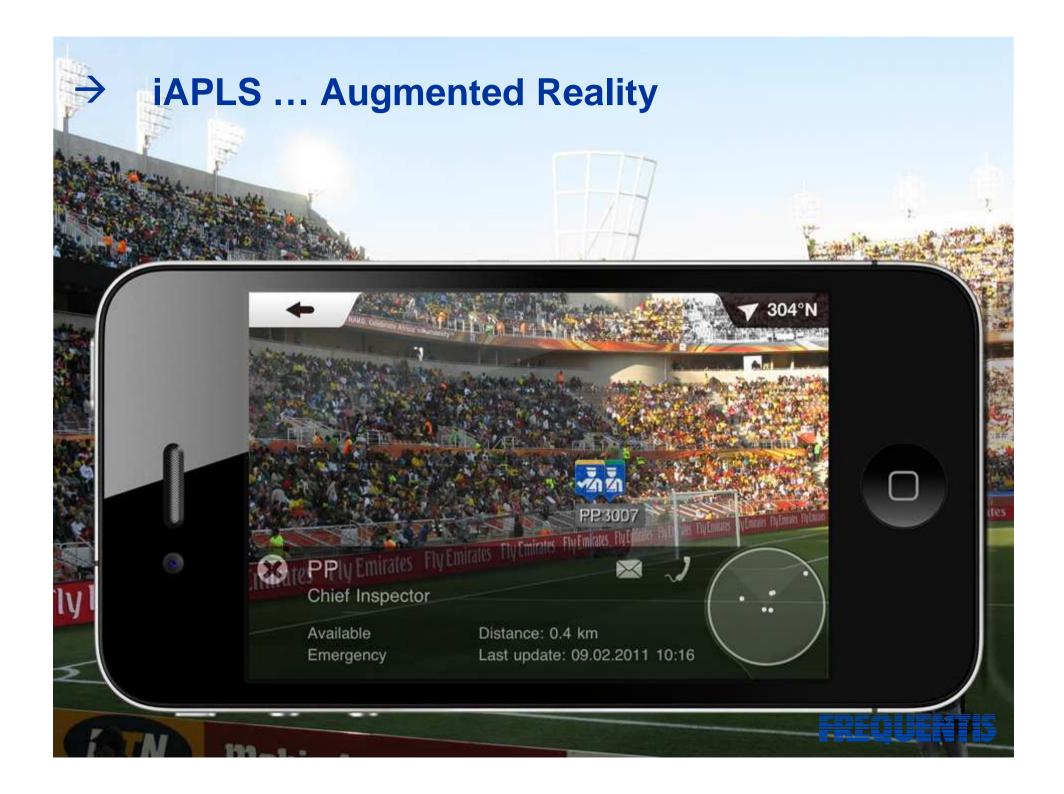


→ Expectations: Field Workers/Officers

- → "Information at Your Fingertips"
 - Relevant to Incident working on
 - Location Based
- Conduct and Conclude business at the Scene
 - Form Filling, Ticket Issuing, etc.
 - Integration with Back Office Systems
- → Rich Media
 - Pictures (e.g. Building plan)
 - Video (e.g. live CCTV, retrieved recording)
 - Workflow (e.g. Incident Management)
- Office based applications in the field
 the mobile office
- → Officers as "sensors"
- → Augmented Reality

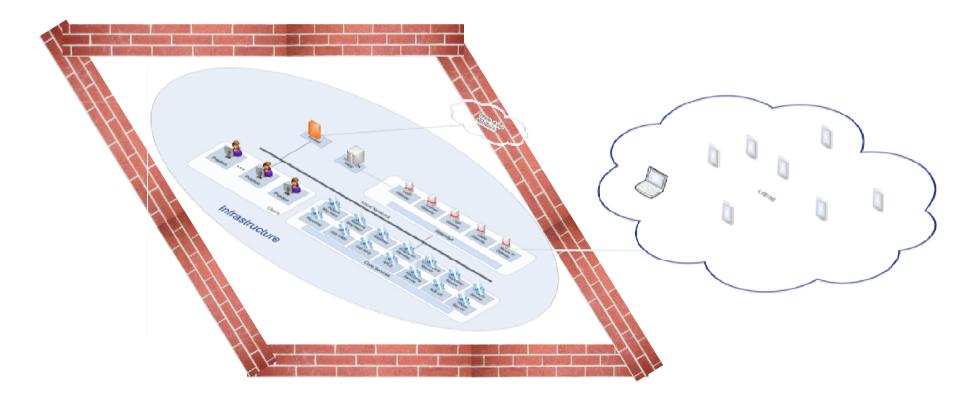






→ The Dissolving Borders of the Control Room

- → past: "Your Network ... not Everywhere"
- → today: "Your Network ... Everywhere"



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\rightarrow Dissolving the control room border



e.g. post-incident report writing....

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Pre



→ Enabling Technologies

→ Service Oriented Architectures

- Efficient integration, sharing of data and functionality
- Flexibility, Security, Agility & Scalability
- Evolutionary
- → Cloud(ish) Provisioning
 - Access to systems not bound to where they are located
 - New Ownership models
- → IP Networks
 - VPN
 - EENA ESI Net

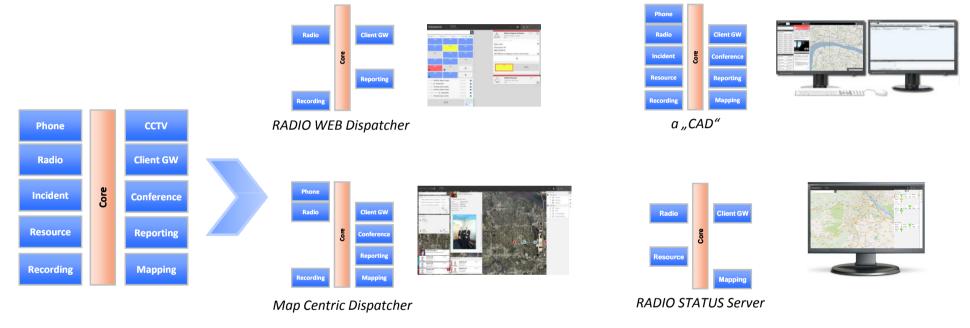






→ The envisioned 3020 LifeX packages as of today

A Modular Services approach in providing functionality:







Map Centric Calltaker

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Thank you!



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