MEDUSA
Medical Distributed Utilization of Services & Applications

PROJECT SUMMARY
Enhance the quality of diagnosis and decision making in acute and/or critical situations of a patient's condition; enabling
- Fast image exchange
- Dynamic ('on-the-fly') advanced image processing
- Collaboration between physically dispersed physicians

OBJECTIVES
- Advanced image analysis as a service
- Secure virtual workspaces as a service
- Medical diagnosis support as a service

UNIQUE SELLING POINTS / BUSINESS VALUE
- Improve workflow efficiency and effectiveness of medical treatments
- Reduce healthcare costs by sharing of images and expertise
- Compensate healthcare professional staffing shortage with dedicated virtual expert groups

EXPECTED RESULTS
- Validated design: secure cloud data integration for medical imaging
- 5 Demonstrators in 3 medical disciplines
- Business models for commercial exploitation

Project leader
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Project website
www.itea-medusa.eu
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PROJECT CONSORTIUM

START DATE JANUARY 2013

END DATE DECEMBER 2015

WORK PACKAGES OVERVIEW

MEDUSA PROJECT PARTNERS
- Large companies (4)
- SMEs (4)
- Universities (4)

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DEMONSTRATION PLANS FOR 5 USE CASES
1. Trauma care
2. Ischemic stroke
3. Acute oncology
4. Remote oncology
5. Radiation preparation

DESIGNS & REFERENCE IMPLEMENTATIONS
- Semantic-based image compression
- Image processing and modeling
- Image processing functionality as a service
- Cloud management of resource usage
- Processing speed optimization
- Information integration
- Secure, dependable data transfer
- Collaboration framework
- Video conferencing
- Imaging client
- Decision support
- Session handling

VALIDATED ARCHITECTURE AND INITIAL INTEGRATION