



BONEBANK – Data Management
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SOVENTEC – THE COMPANY

- soventec GmbH is part of the BONEBANK consortium
- software engineering company and IT service provider
- specialised in medical applications
- certified according to ISO 13485 since 2010
- several national and international projects meeting the high quality demands of the medical device regulations (ISO 13485, ISO 14971, ISO 62304)

How we work

- Software development team uses agile methodologies and tools to continuously incorporate customer feedback, quality assurance and any other change of requirements
- Good experiences in working agile **and** according to strict regulations

PROJECTS – CUSTOMERS

- Laboratory automation projects – development of software components for devices, device integration, web applications



- Software for medical devices



- Software Frontend for complex active implantable devices



- Data management with our own software **Lab OS**® (like BONEBANK)

THE BONEBANK CHALLENGE



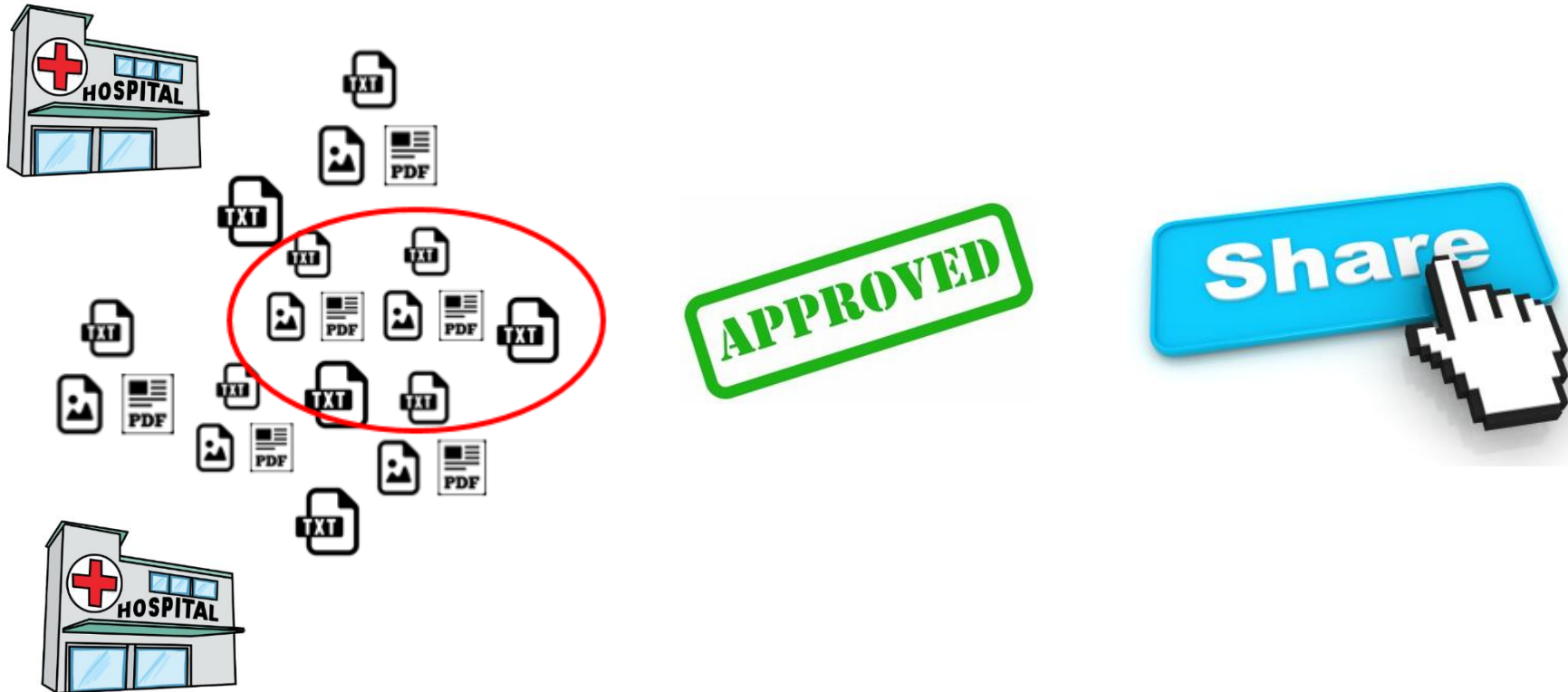
sample data in local IT
system, highly regulated



sample data in local IT
system, highly regulated

- synchronizing SOPs
- treating the samples identically
- giving the crossborder partner access to data of fresh and cryopreserved material
- data management has to meet hospital regulations, ethical regulations, national laws

DATAMANAGEMENT – Working with shared sensitive data



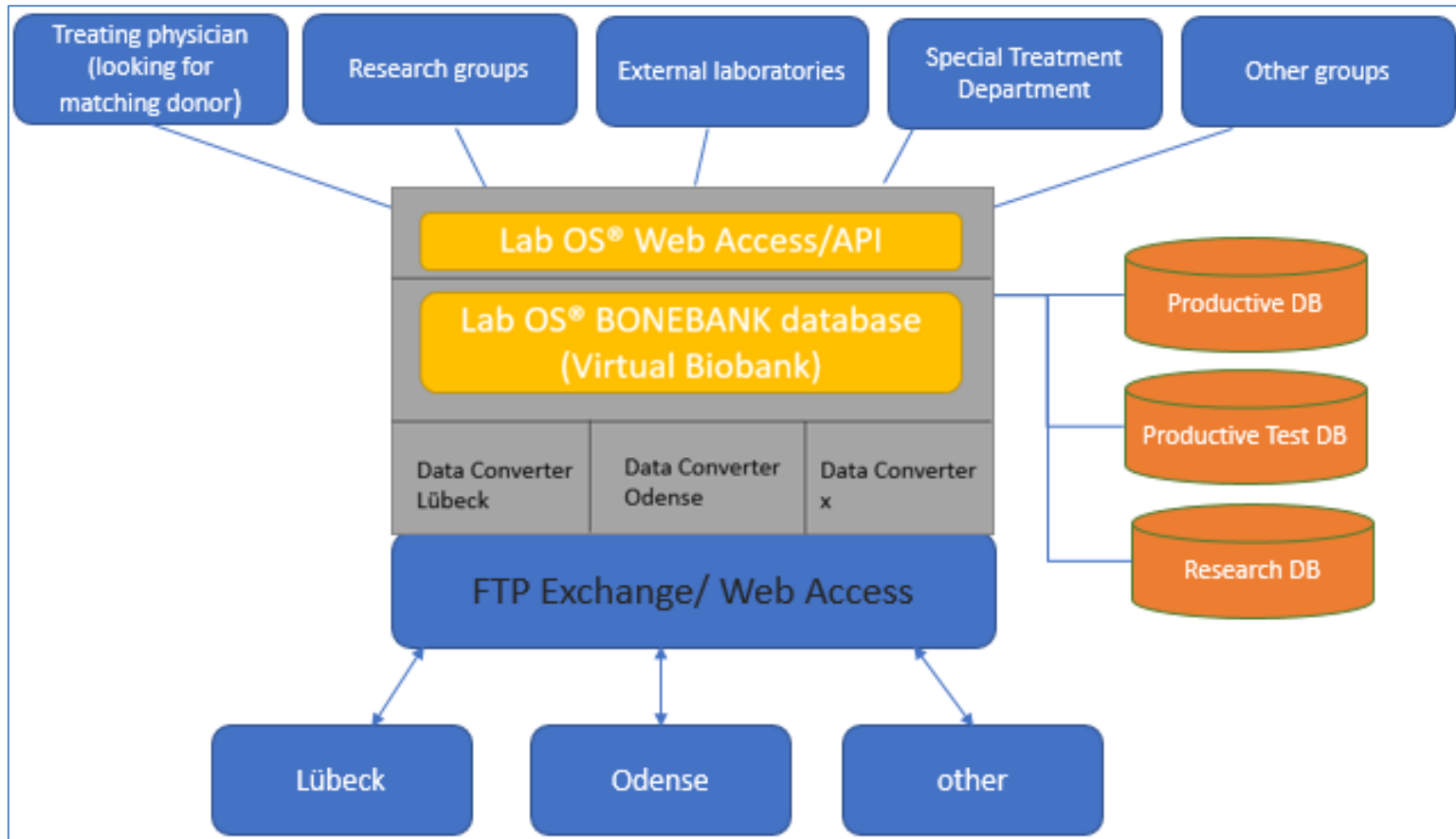
DATAMANAGEMENT – Working with shared sensitive data



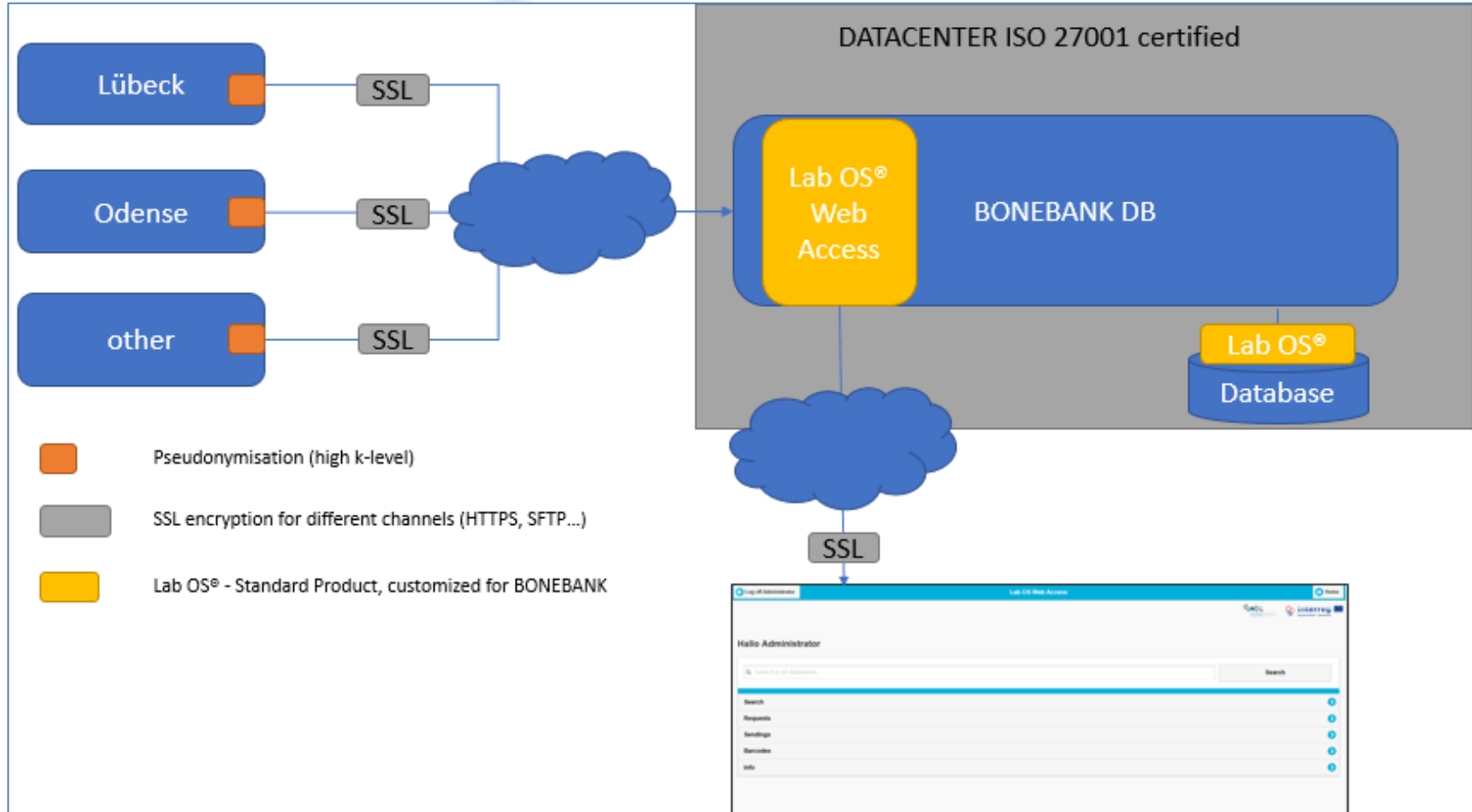
Technical solution

- soventec uses its software **Lab OS**[®] as potent IT backbone
- **Lab OS**[®] is a software platform to administer samples and sample related information
- suitable for customer specific applications due to its high modularity and scalability
- client server database software solution with safety and security features
- powerful user access management with configurable access layer
- provides web services for sample querying, requests and management of shared data

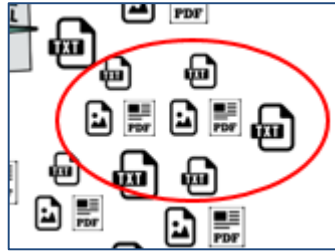
Technical solution



Technical solution

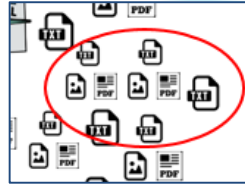


Content discussion



- Hospitals have a lot of data concerning sample material and patients
- What information **can** be shared?
- What information is **needed** to characterise samples adequately?
- Who will search for samples? What are the characteristics they need?
- In BONEBANK it was a long process to define this
- All partners agreed on a **common data set**
- soventec generated a data template that can be added to all shared samples

Common parameter set



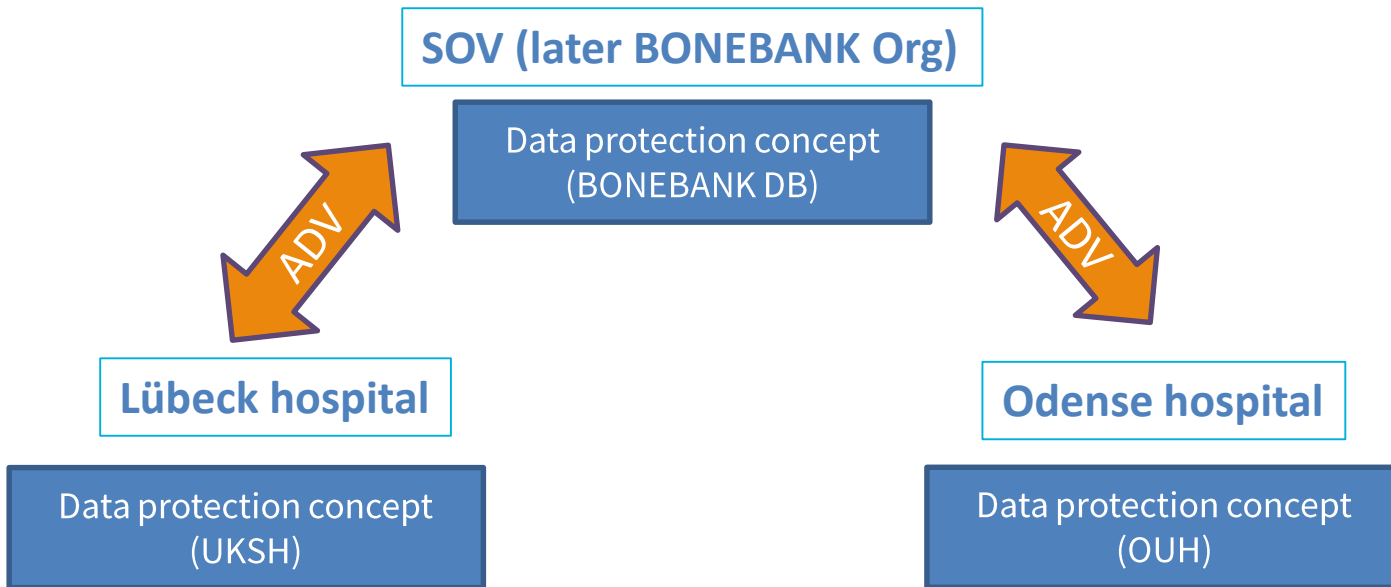
Patient	
Age Range	
Gender:	
Hb, when samples was taken (g/dl OR mmol) :	
Leucocytes (cells/microliter) :	
Operation	
Place Sample Withdrawal:	
Diagnosis (ICD 10):	
Treatment SKS:	
Treatment OPS:	
Harvested Material	
Sample	
Sample type	
Storage Temperature	
Storage Temperature / °C	
Sample Location	
Hospital:	
Biobank:	
Contact:	

Different treatment coding systems in Denmark/Germany
(OPS Codes in Lübeck/Germany ↔ SKS Codes in Denmark)

Ethical/ Legal aspects

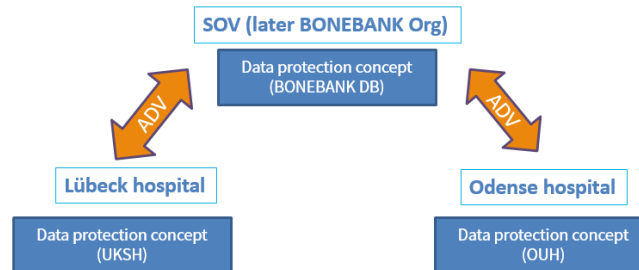
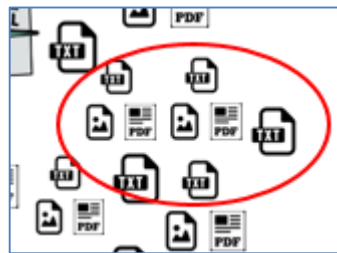


- ethic approval needed
- Data security and responsibility have to be guaranteed
- Contracts have to be concluded

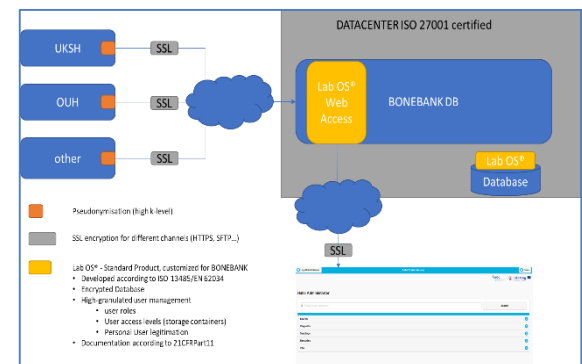


ADV: Auftragsdatenverarbeitungsvertrag
(data processing agreement)

Data Management – Working with shared data



Patient	
Age Range:	
Gender:	
HB, when samples was taken (grid OR memo):	
Leucocytes (pdf/kin/col/lin):	
Specimen	
Flora Sample Withdrawal:	
Diagnosis (ICD 10):	
Treatment SKS:	
Treatment OPS:	
Harvested Material:	
Sample	
Sample type:	
Storage Temperature:	
Storage Temperature / °C:	
Sample Location	
Hospital:	
Biobank:	
Contact:	



Find further information
www.soventec.com
<http://labos.soventec.de>

Thank you!

