

Institute of Medical Biometry and Informatics Dep. of Medical Informatics

#### UniversityHospital Heidelberg

# Archetype-based Information Systems for Integrating Clinical Care and Research Data

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#### Introduction



• Clinical trials are of high importance for medical research and progress.

Problem:

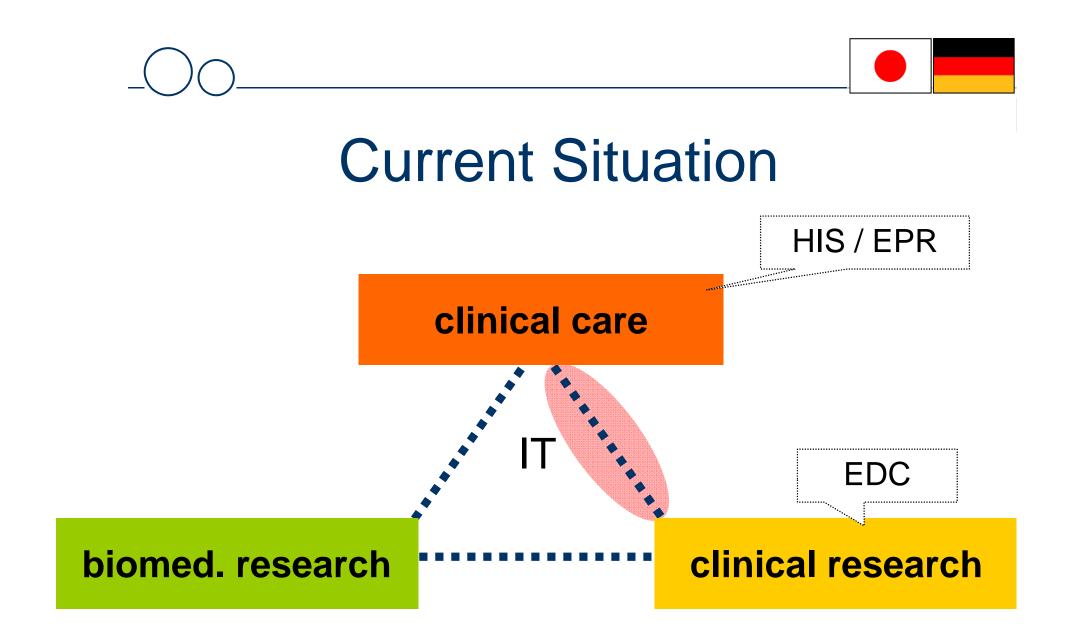
• Data collection in trials is a time consuming and expensive task.



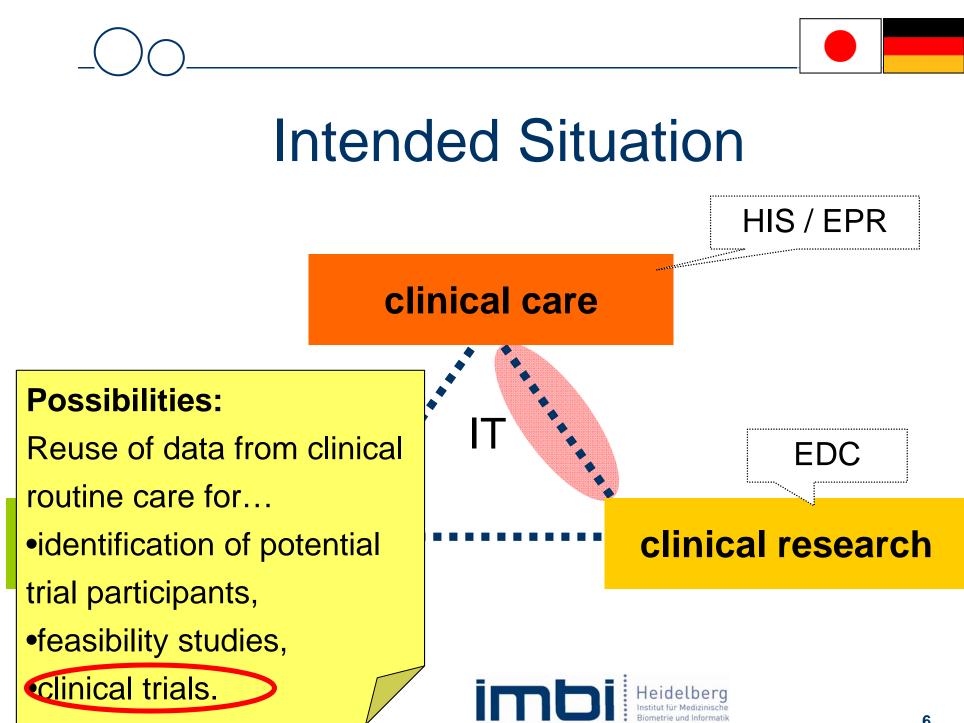


#### Introduction



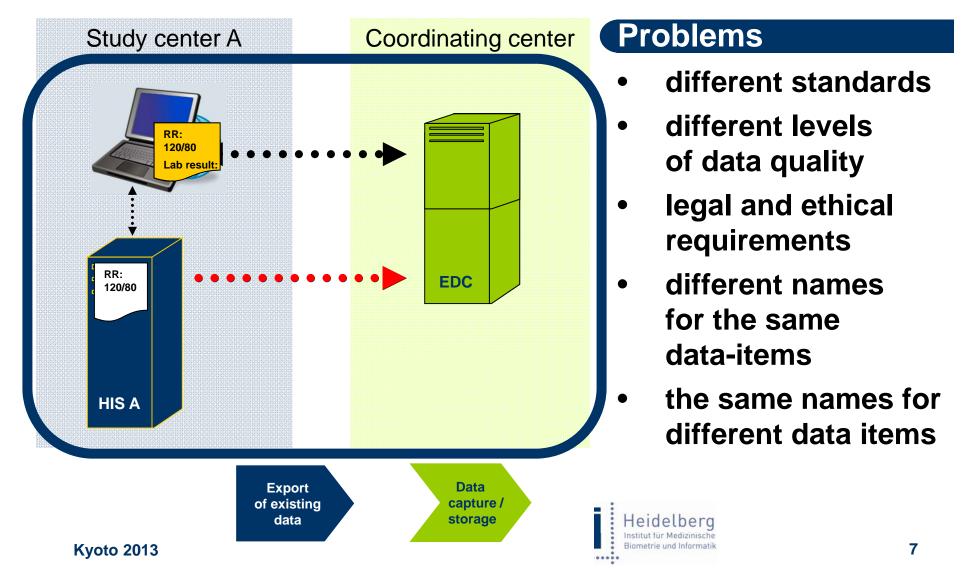






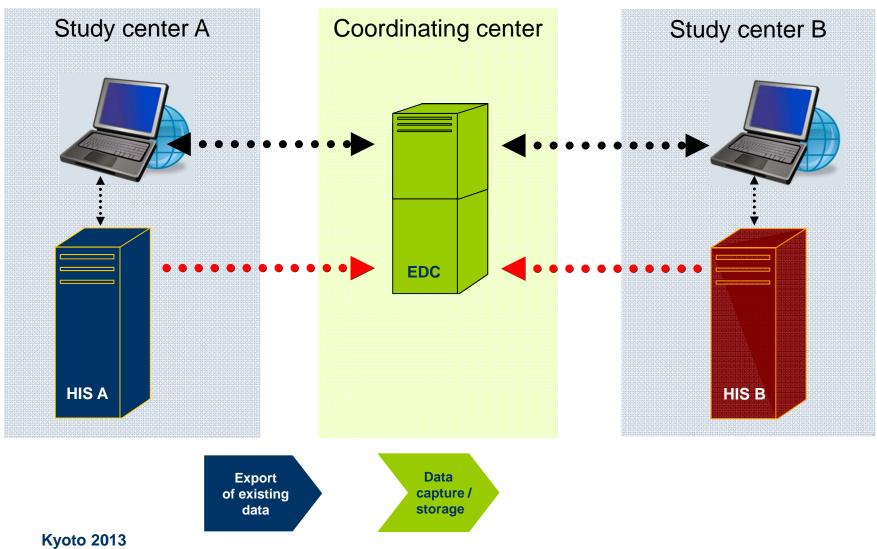


#### **Intended Situation**



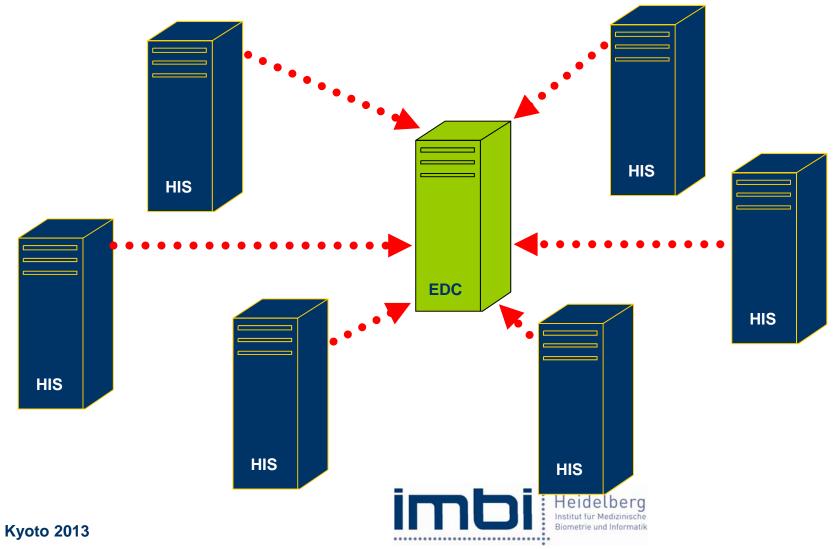


### **Challenge: Multicenter Trials**





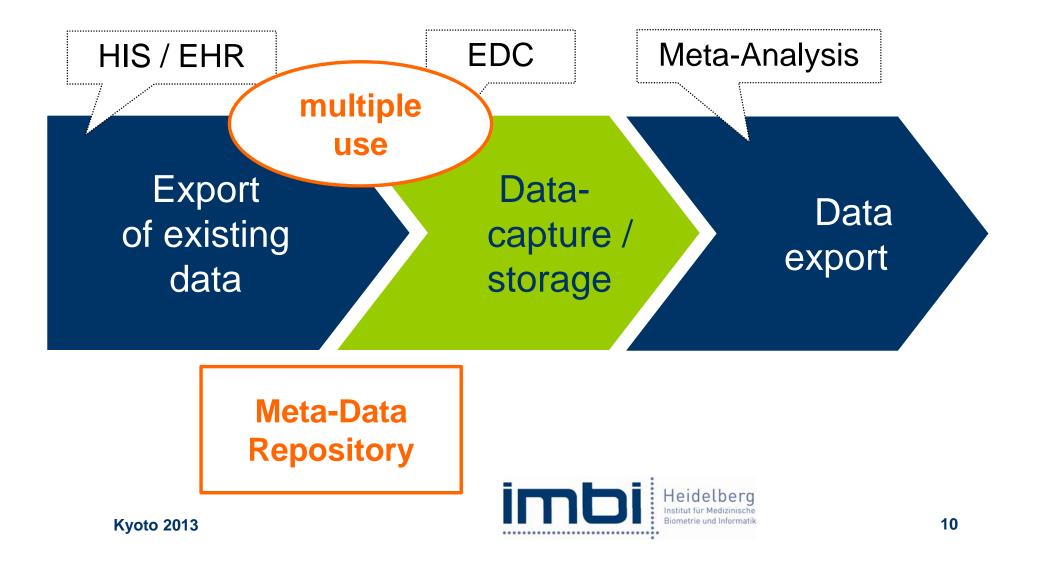
#### **Challenge: Multicenter Trials**





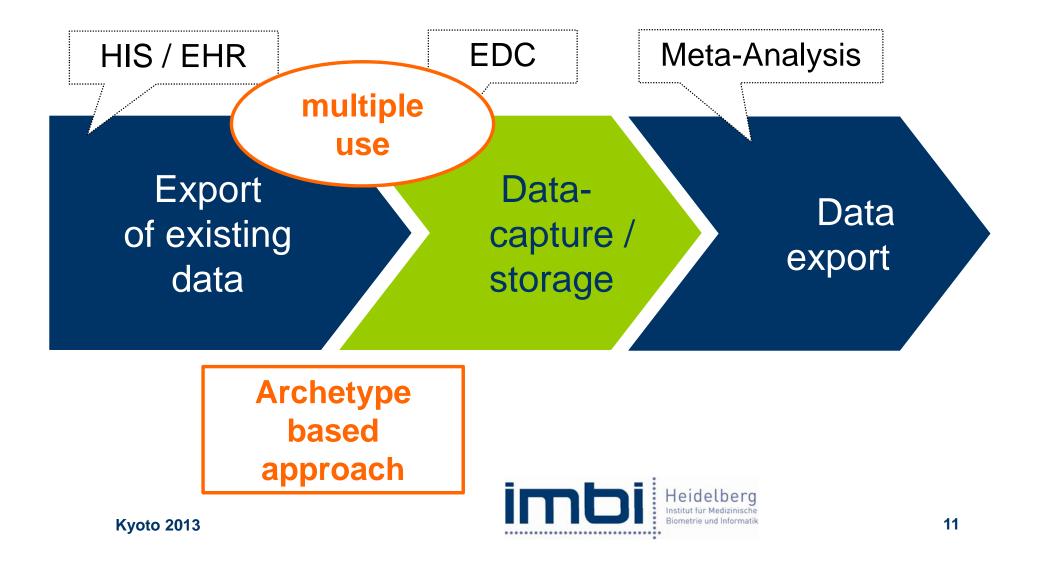


## Possible Solution (1)





### Possible Solution (2)

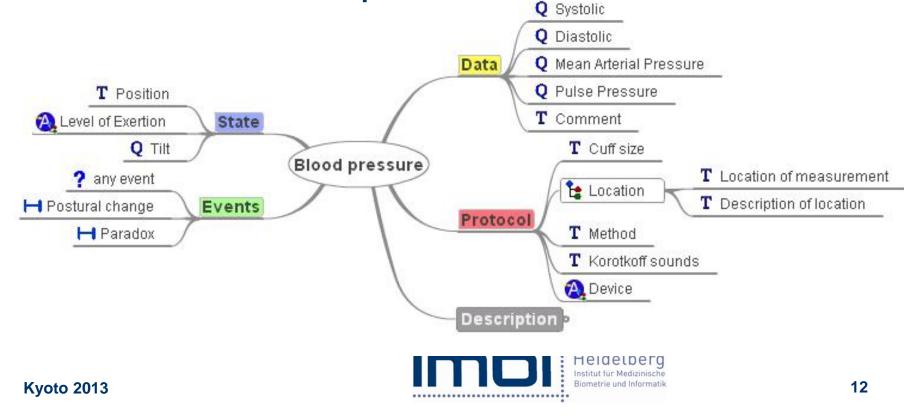






**Methods** 

 Reusable information models of clinical concepts.







openEHR Archetypes

 Reusable information models of clinical concepts.

syntactic and semantic

#### interoperability

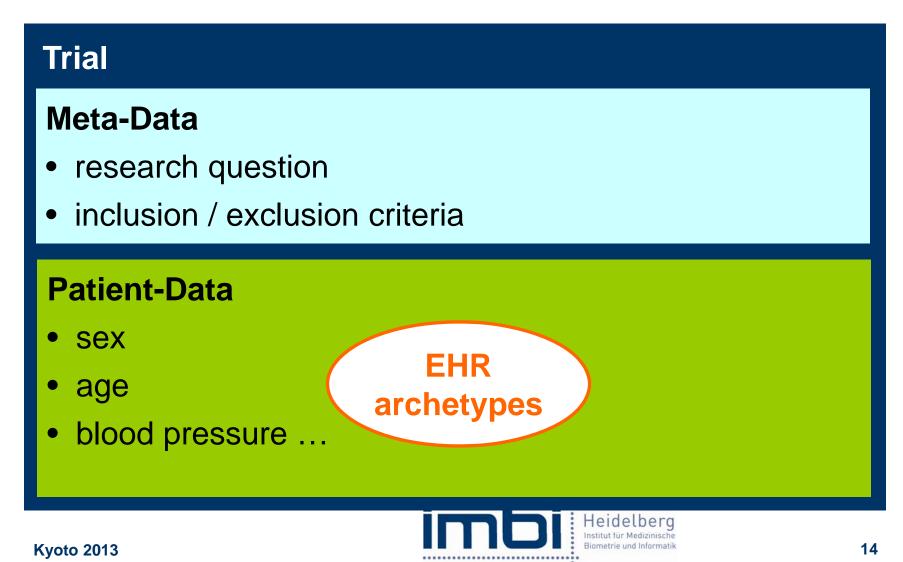


Q Diastolic



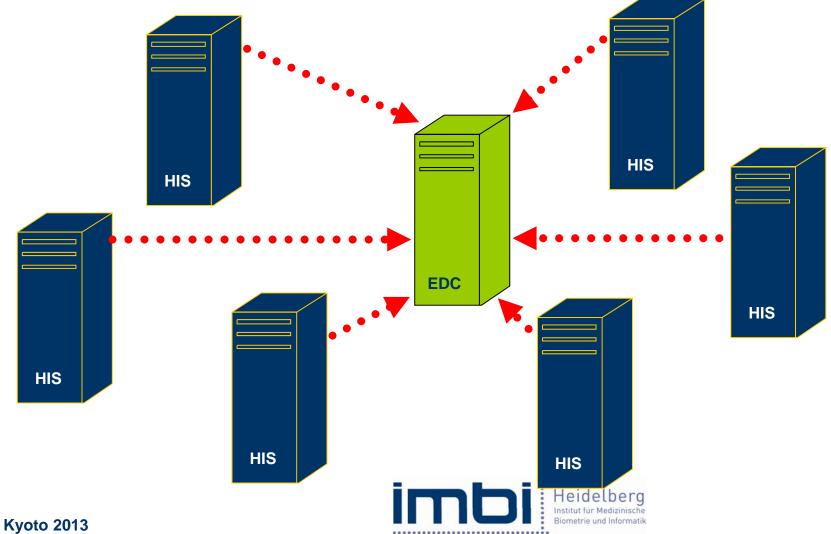


#### **Trial Data Set**



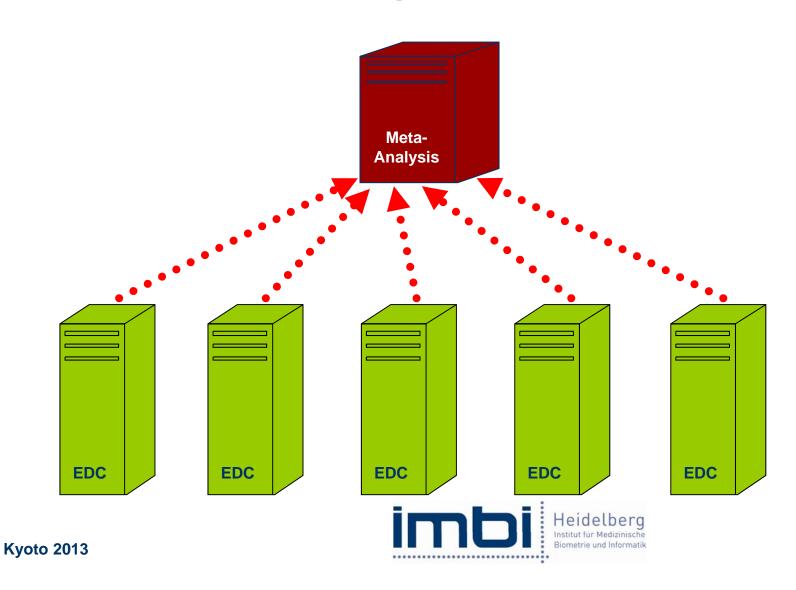


#### **Conclusion and Perspective**





#### Perspective

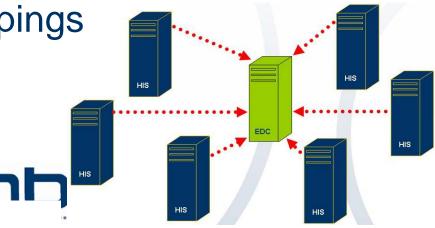


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#### Conclusion

- Benefits of using archetypes in EDC systems for clinical trials...
  - integration of existing data sets
    (archetype based and non archetype-based)
  - ... multiple use of mappings
  - ...meta analysis.







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