



CDISC STANDARDS USE IN CLINICAL STUDIES: DANONE'S RETURN-ON- EXPERIENCE

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Date:

08/12/2014



AGENDA

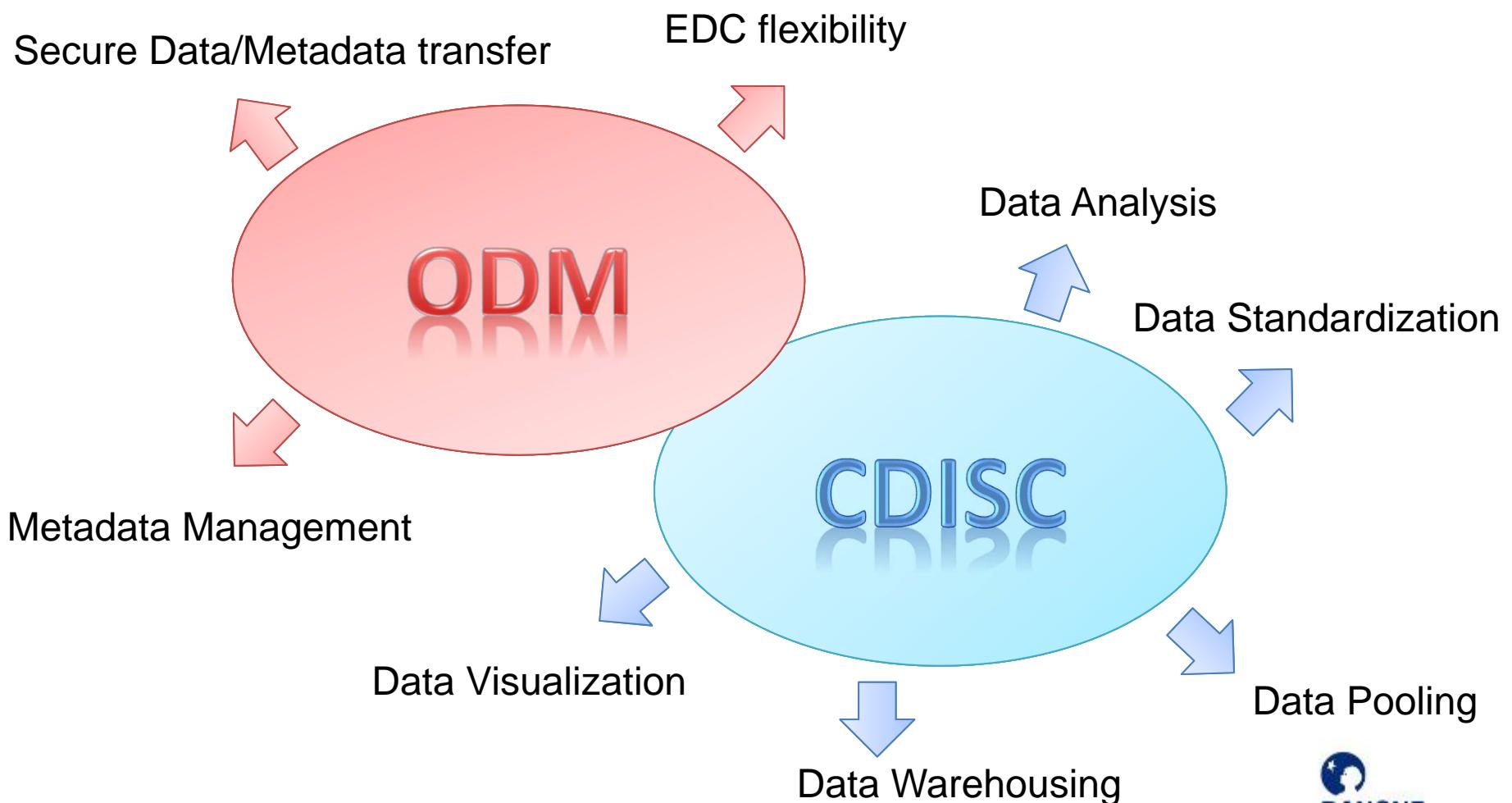
- 1) State of the art**
- 2) eClinical Tools and ODM/CDISC combination**
- 3) Data Flow Overview**
- 4) Feedback on our experience**
- 5) Impact**
- 6) ePRO integration on same workflow**
- 7) Benefits and next steps**

STATE OF THE ART

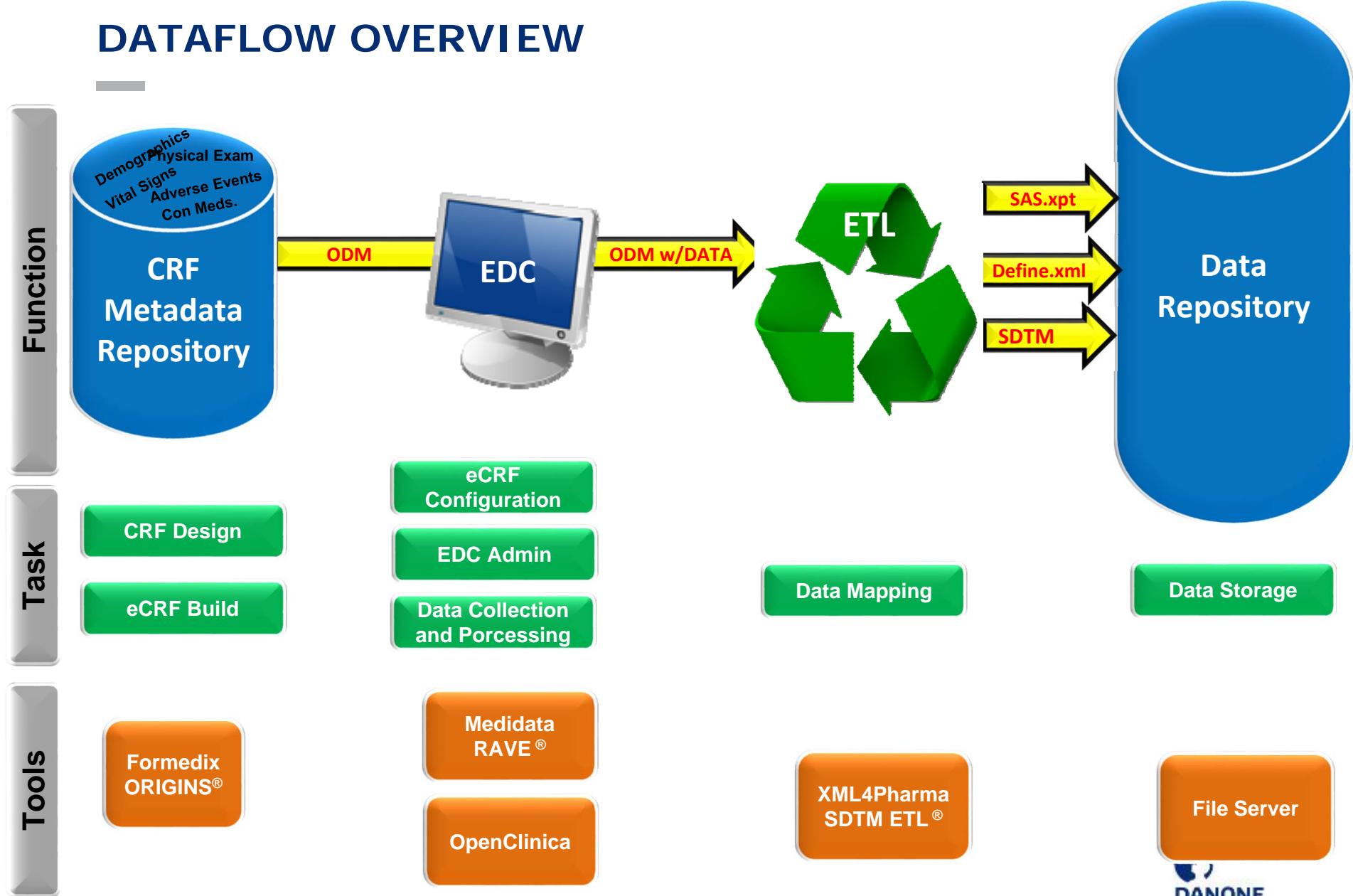
- Improve the data Governance and Standards
 - Metadata Repository library and Study Metadata Modeler implementation
- Improve security, control and visibility on data
 - Internalize some tasks in-house
 - Replace Paper-based by an EDC system
 - 4 Danone divisions => large range of study sizes and needs
 - Adopt a flexible data management process based on several EDC
- Improve the quality, speed and cost ratio for a study
 - No impact on FTE, decrease the cost of process and timelines
- Facilitate and prepare data for Exploitation
 - Ease the data mapping process
 - Create a Data Warehouse with CDISC (SEND/SDTM/CDASH) implementation will improve Data Pooling, Analysis and Visualizations



ODM/CDISC APPROACH BENEFITS



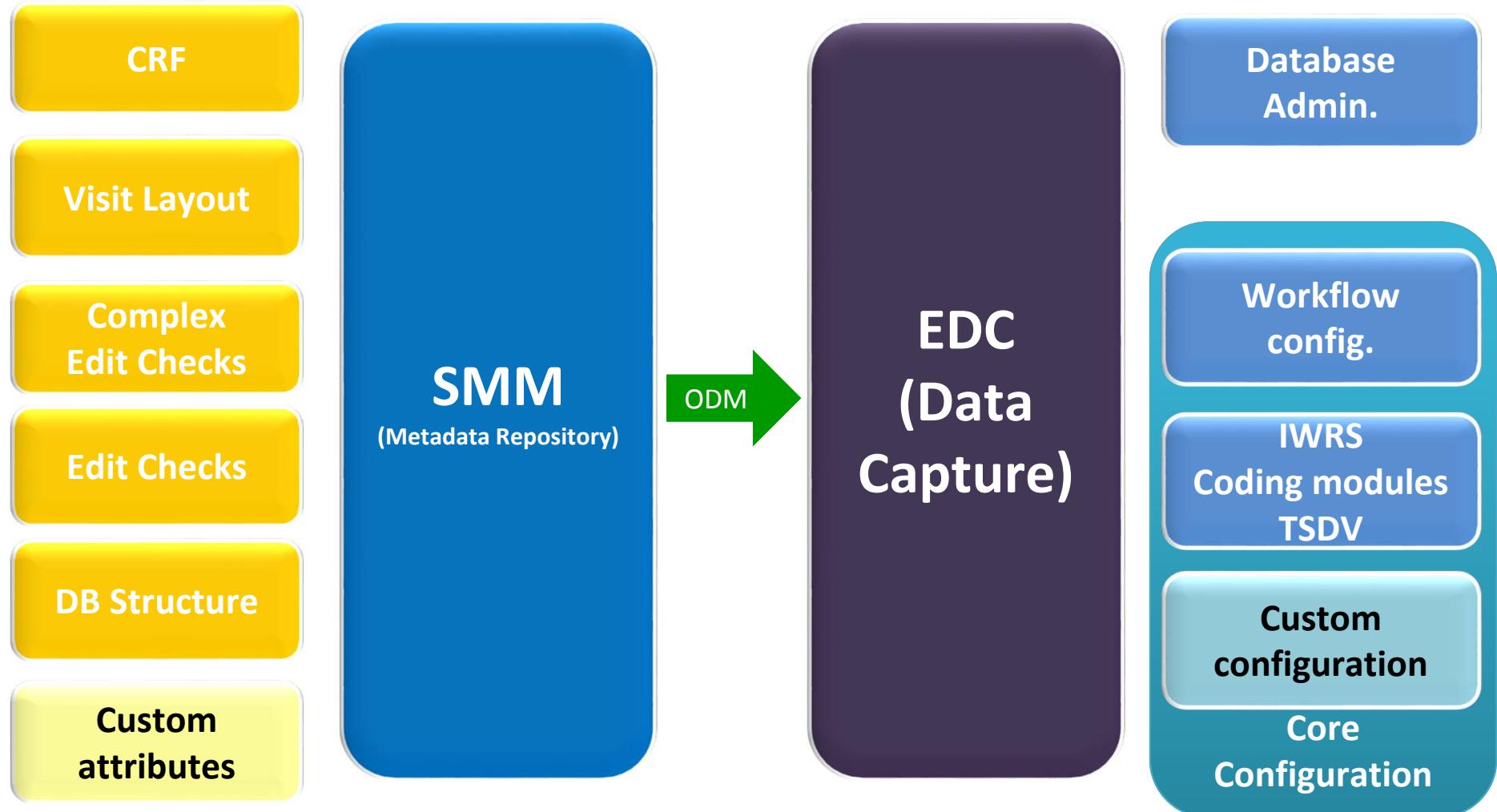
DATAFLOW OVERVIEW



SMM APPLICATIONS

- Metadata Repository creation and management
 - Standard modules including form, ItemGroups, Items, codelists and measurement units
 - Simple and complex Edit checks
 - Custom attributes : CRF completion guidelines, Form design
- Configure an EDC and provide study documents at the same time
 - Case Report Form annotated
 - Database Structure
 - CRF completion guidelines
 - Data Validation Plan ?
 - ODM EDC study configuration file
 - Previsualize eCRF without EDC system

SMM-EDC INTERACTION



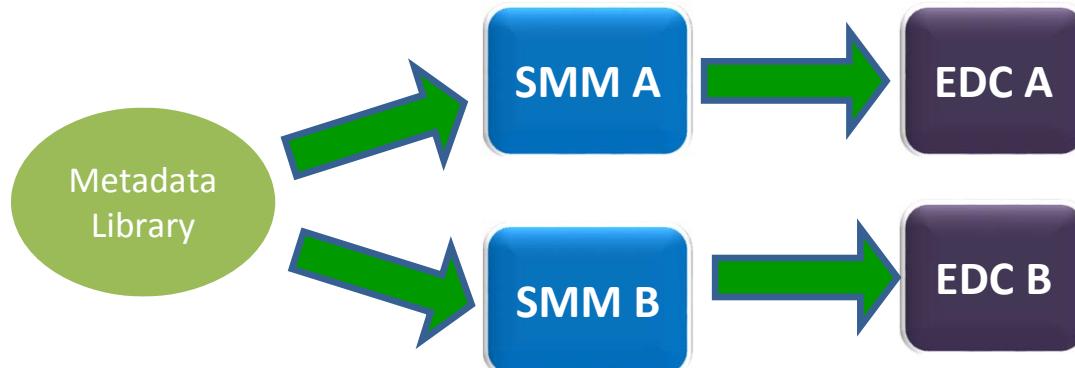
APPLICATIONS

➤ Data Management Strategy benefits

- Ensure a smooth transition between EDC (longitudinal evolution) in avoiding to recreate a Global Library



- Different Data Management Units can use the same Global Library and use different EDC (parallel evolution)



FEEDBACK

➤ Set up of a new WoW

- Creation of standards metadata => Working Group involvement
- Use several EDC => Adapt metadata structure
- SMM implementation done in 3 months
- Discussion with EDC/SMM/Data mapper providers
- Computerized Systems Validation management

➤ Data Mapping

- Different ODM structure from EDC=> Mapping library per EDC
- Adopt CDISC structure homogenization
- Drag and drop environment can be used at 90%
- Need xsl language knowledges for last 10%
- ODM extracted from EDC missing coding term => SAS and EDC discussion

IMPACT ON FTE/BUDGET

➤ FTE



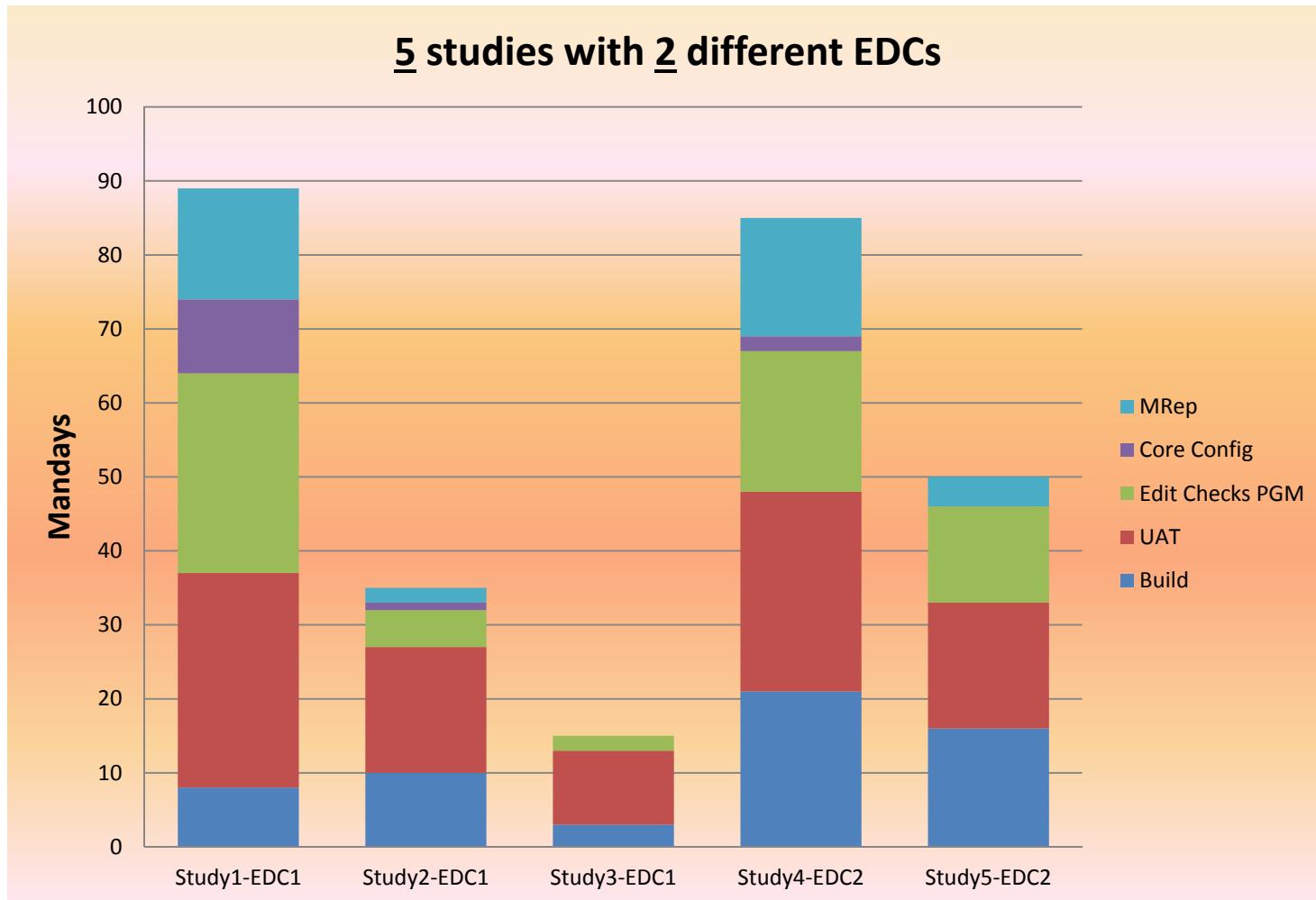
- **≈50% decrease** in study set-up time (Protocol to EDC Go-Live)
- ODM study configuration file imported in EDC
- Automatic study documents generation in human readable format
- **60-95% study build** done in SMM

➤ Budget

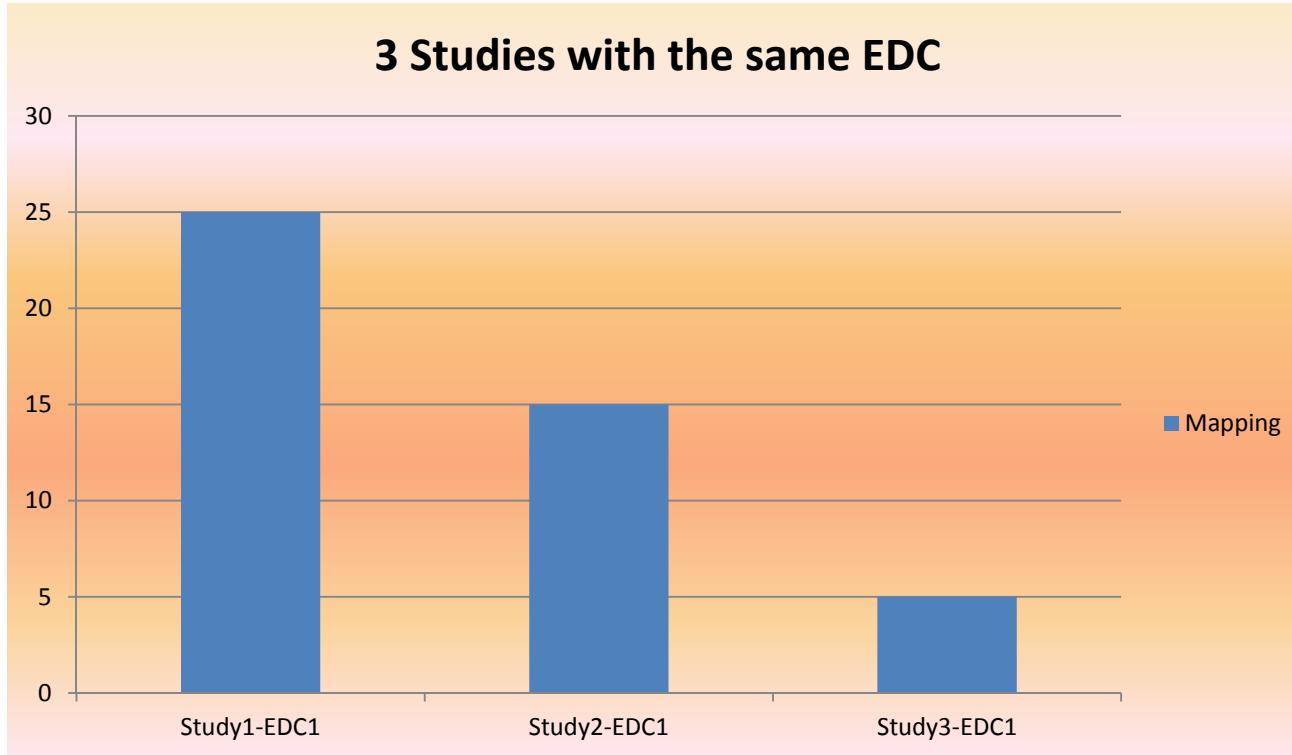


- **≈ 20% increase** in overall DM study budget (vs. Paper-based)
- Adapt the EDC selection depending on study specification
- Internalize study build activities in-house **without FTE increase**
- EDC previsualization plug-in in Study Metadata Modeler allows to **decrease the EDC rent duration** during study build-up phase
- Application Services Provider (**Cloud Computing**) : No IS, no hardware maintenance, no hotline for end-users, flexibility in term of duration, best fit cost/number of studies.

STUDY CASES (IMPACT ON STUDY BUILD)



STUDY CASES (IMPACT ON MAPPING)



- Global Library for standards mapping scripts
- Standard form ⇔ Standard mapping script

EPRO INTEGRATION

- ePRO fits seamlessly with our WoW
 - Same benefits
 - Global reduction on mandays
 - Cost saving vs standalone solution (**50%-230%**)
 - Same Mrep for ePRO and CRF forms
- ePRO CRO vs ePRO (Do it Yourself method)
 - No external CRO team to manage
 - 2 systems – 2 teams vs 1 system – 1 team
 - ePRO and eCRF design with the same designer
- Device management
 - ePRO based on iOS and Android environment
 - Bring Your Own Device (BYOD)
 - Device costs included in subject compensation
 - Device preconfiguration
 - Site/Subject training

BENEFITS AND NEXT STEPS

- Benefits
 - Ease data pooling
 - Facilitate the creation of standard analyses
 - ADAM implementation now possible
- Finalized ePRO implementation based on same workflow
 - Create standard scripts for ePRO forms
- Data Visualization implementation
 - JMP Clinical based (CDISC compliant)
 - Create standard visualizations
 - Data Review Meeting
- SEND implementation on preclinical studies
- Danone => CDISC Platinum members
 - Improve CDISC Nutrition standards

