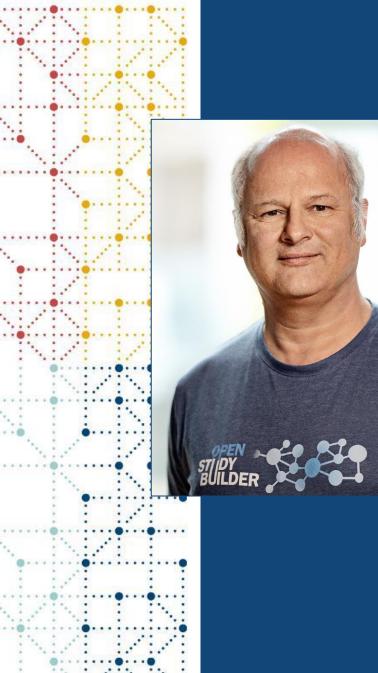


OpenStudyBuilder – an open-source DDF and COSMoS compatible solution

Mikkel Traun, Principal System Developer, Novo Nordisk A/S



Meet the Speakers

Mikkel Traun

Title: Principal System Developer Organization: Novo Nordisk A/S

Mikkel is one of the product owners for the next generation study builder and data standards repository solution at Novo Nordisk. Mikkel is also an active member of the TransCelerate and CDISC Digital Dataflow project, and previously the CDISC 360 project. He has worked as a principal system developer supporting the clinical data warehouse solution and the CDISC implementation at Novo Nordisk. Previously he has worked on several projects in pre-clinical, clinical and outcome research.

What is the OpenStudyBuilder?...

A NEW APPROACH TO STUDY SPECIFICATION

- Compliance with external and internal standards
- Facilitates automation and content reuse
- Ensures a higher degree of end-to-end consistency

3 ELEMENTS OF OpenStudyBuilder

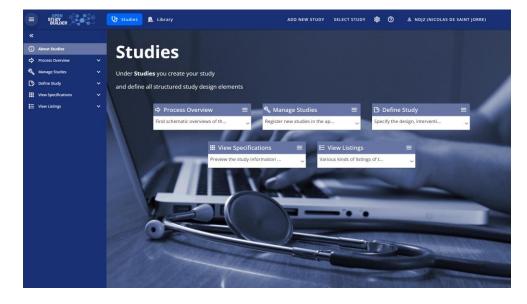
- Clinical Metadata Repository (clinical MDR) (central repository for all study specification data)
- OpenStudyBuilder application / Web UI
- API layer

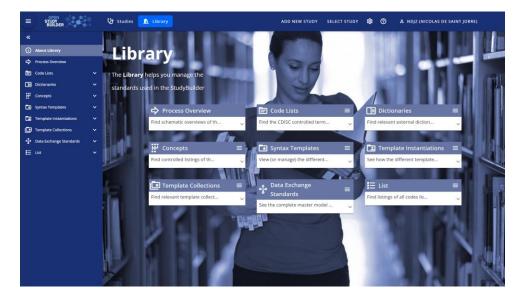
(allowing interoperability with other applications) (DDF API Adaptor – enabling DDF SDR Compatibility)



^a OpenStudyBuilder Components

STUDIES												
TITLE	CRITERIA											
REGISTRY IDENTIFERS	INTERVENTIONS											
STRUCTURE	PURPOSE											
POPULATION	ACTVITIES											



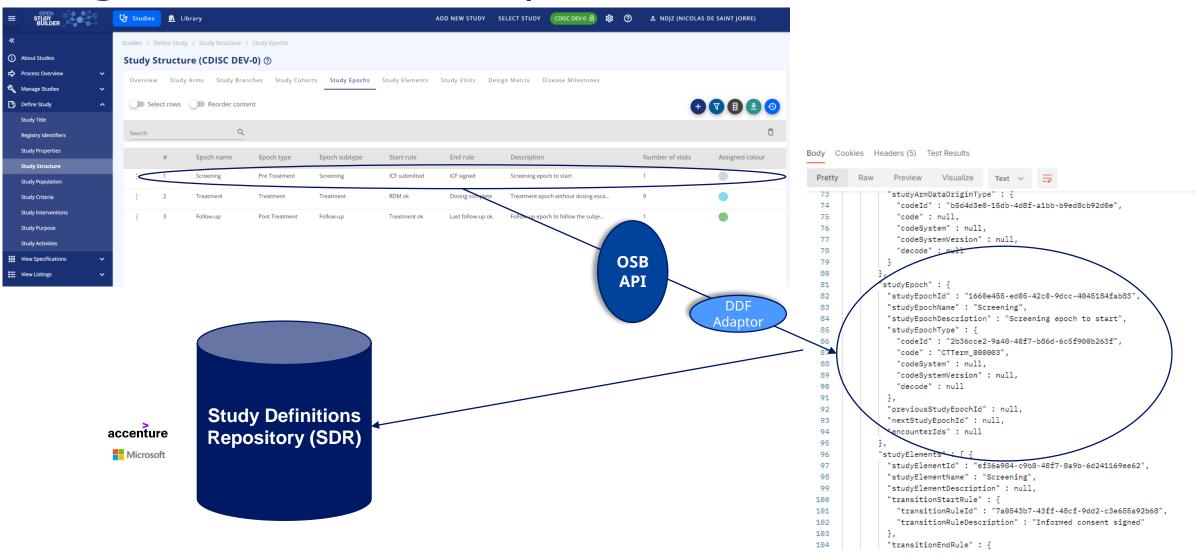


LIBRARY												
CONTROLLED TERMINOLOGY	MEDICAL DICTIONARIES (e.g., MedDRA)											
CONCEPTS (ACTIVITIES, UNITS, CRFs, COMPOUNDS)	SYNTAX TEMPLATES											
DATA EXCHANGE STANDARDS												

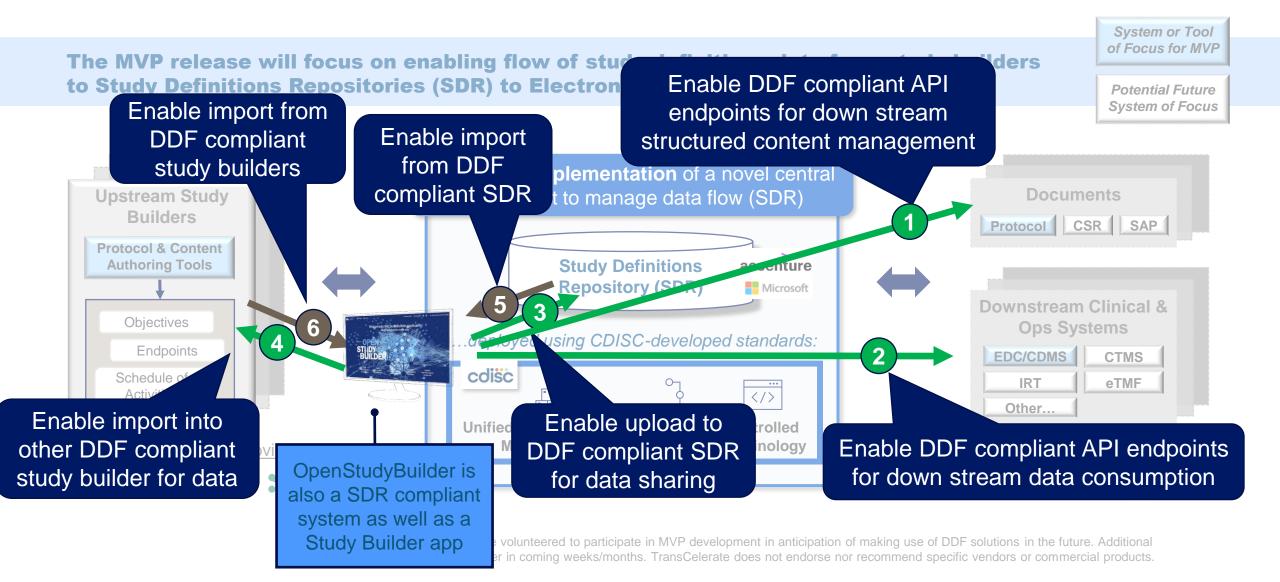
Digital Data Flow Adaptor (1/2)

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Digital Data Flow Adaptor (2/2)



Minimum Viable Product development underway



What is a CDISC COSMoS compatible solution

- Conceptual and Operational Standards Metadata Services (COSMoS)
 - Biomedical Concepts (BCs) in a two-layered definition:
 - Conceptual/abstract layer that provides standards-agnostic, unambiguous semantic definition largely based on NCIt concepts.
 - Implementation layer based on valid CDISC dataset specializations that provide value level metadata definitions that facilitate metadatadriven automation.



What is the key elements of OpenStudyBuilder

- Library holding BCs
 - Named as Activity Concepts in OSB
- Study Module supporting Study Design and SoA
- SoA is key component in supporting the Digital Data Flow (DDF) vision
- In OSB we seek to achieve this by defining the SoA at different levels for dedicated parts of the Digital Data Flow



Novo Nordisk

Concepts: Activities and Activity Instances

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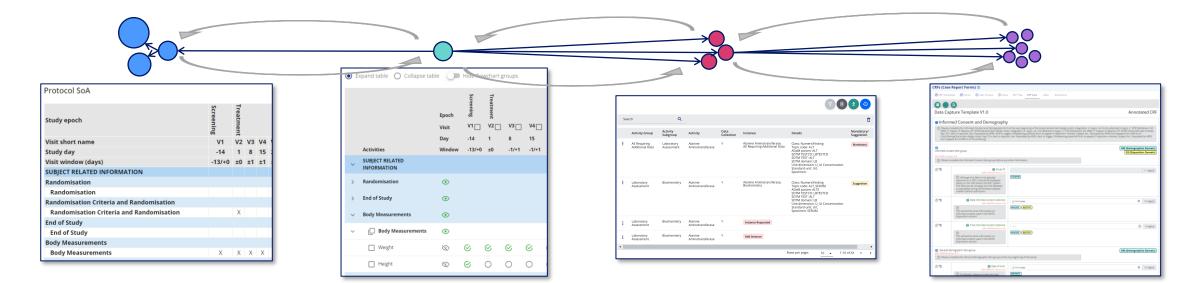
(COSMoS project from CDISC)

Novo Nordisk[®]

NeoDash reports to view Activity to SDTM Variables

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Schedule of Activities (SoA) at multiple levels



Protocol SoA

- For the high level SoA in protocol section 1.2
- Main purpose is for the investigator and site staff to get an overview of the operational schedule

Detailed SoA

- Specifying the semantic data observations to be collected in the study – but not specific to representation in ADaM, SDTM or data collection
- Will be part of protocol section 8 and appendixes or other supplementary documents

Operational SoA

- The data specification to support data collection specification
- Correspond to our existing legacy BCs (Topic Codes)
- Will also related to specific ADaM PARAM/PARAMCD

Data Capture / Collection Specification

- How data is to be collected in the study and when
- What is pre-set, what is collected and how

Selection process of Activities for SoA

For Protocol Outline / Protocol

- Select Activities in relevant grouping
- When selecting an Activity within a specific grouping, then this will drive ActivityInstance – this should be visible for Protocol Writers (like a COL)
 - Some ActivityInstances can be mark as default for an Activity, and will then be pre-selected
 - Some ActivityInstances can be marked as mandatory – and cannot be un-selected
- Select what to display or hide in highlevel Protocol SoA

For Operational Data Specification

- Confirm or Select Activity Instances for each selected Activity
- If the correct ActivityInstance will change Grouping – this will require a change to the Protocol SoA – this will then

For Data Collection Specification

- The data collection specification
 - Lab specs
 - CRF
 - Other eSources
 - What is pre-set

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OpenStudyBuilder next steps

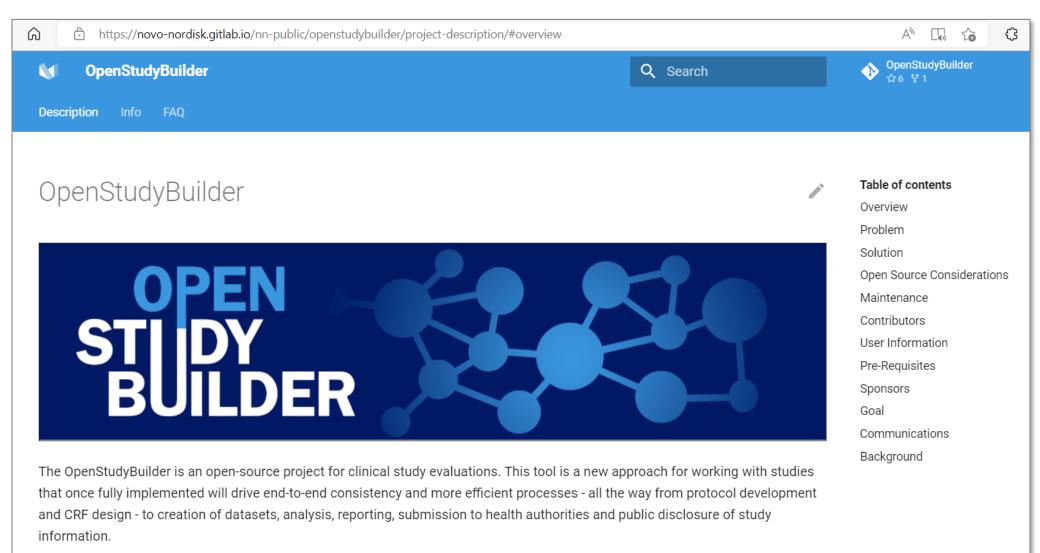
- Non-GCP MVP released internally at Novo Nordisk in September 2022 for pilots
- Business go-live November 2023 for phase 2-4 studies with protocol outline kick-off
- Share as open-source project under COSA
 - <u>https://cosa.cdisc.org/directory/openStudyBuilder</u>
 - <u>https://novo-nordisk.gitlab.io/nn-</u> public/openstudybuilder/project-description/

Currently only containing a project description

• Seek to actively collaborate with CDISC, TransCelerate DDF, peers and vendors

How do I get started on OpenStudyBuilder?

21



https://novo-nordisk.gitlab.io/nn-public/openstudybuilder/project-description/



Thanks! Questions?

