

Hands-On Experience

COSA OpenStudyBuilder Workshop: CDISC 360i – Design and Build with OpenStudyBuilder

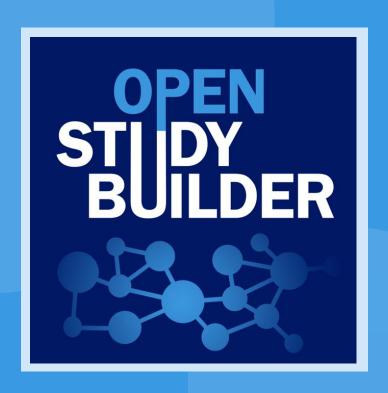
WIFI

- > IHG One
- ➢ GVACP





Agenda



- > Introduction
- > Hands-On
- Insights & Experiences
- End-2-End & Digital Data Flow
- > Hands-On
- Exchange & Summary



Introduction

Today with you



Mikkel Traun Solution Architect



Charles Shadle

CDISC 360i (CDISC)



Nicolas de Jaint Jorre

Lead Product Architect (Novo Nordisk)



Community Manager (independent)



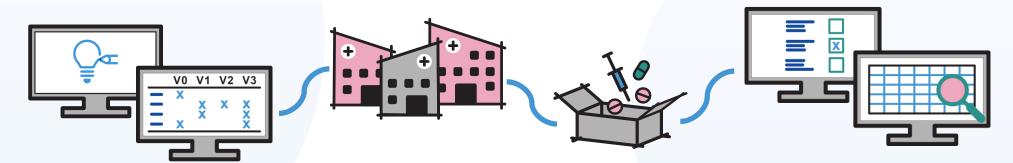
Schedule



09:00	Introduction & Hands-On
11:00	Morning Break
11:30	Hands-On, Insights & Discussion
13:00	Lunch
14:00	Hands-On, Discussion & Closeout
15:00	Coffee Break

Process Automation





An efficient and scalable study journey connected by one digital data flow and simplified by one common data model.



Way to Connected Data Landscape



A Metadata Data Repository and a Study Definition Repository

End-to-end automation from structured protocol to submission deliverables using concept-based standards

Core Elements

- Clinical Metadata and Study Definition Repository
- API layer
- OpenStudyBuilder application / Web UI



Open Source



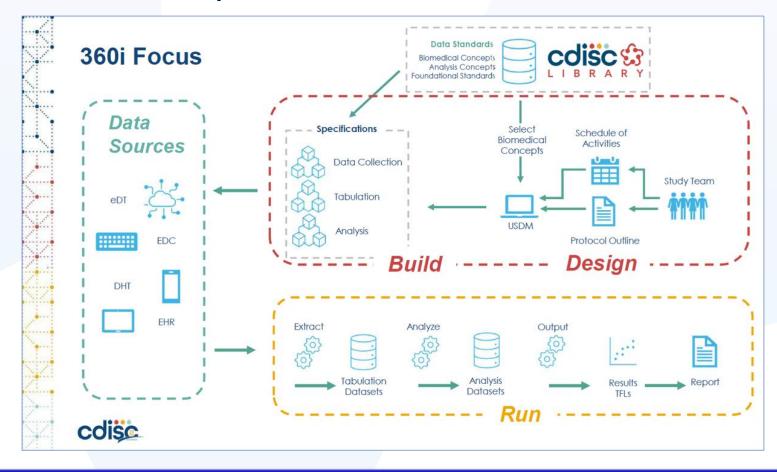
Open Source



Standards alone are not sufficient
Challenges are too complex
Isolated solutions are inadequate



From Vision to Implementation







Pre-Requisite

- Laptop + Sandbox account
- Note, mails might be exposed due to audit-trail

Modified	Modified by
May 6, 2025, 1:29 PM	katja.glass@glacon.eu
May 6, 2025, 1:29 PM	katja.glass@glacon.eu

> Exercises at https://openstudybuilder.com/workshop 2025



CDISC Pilot Study

- Protocol (<u>here</u>)
- USDM (here)
- SoA modified for workshop

Туре	- '	re ment		Т	Post Treatment			
Epoch		Screening	Treatment 1			Treatment 2	Treatment 3	Follow-up
Visit (V)	V1	V2	V3	V4	V5	V6	V7	V8
Timing of Visit (Weeks)	-2	-0,3	0	4	8	20	24	26
Visit Window (Days)	0/+7	-1/0	±7	±7	±7	±7	±7	±7
Subject Related Information								
Informed Consent Obtained	Х	-	-	-	-	-	-	-
Sex	Х							
Race	Х							
Ethnicity	Х							
Date of Birth	Х							
Systolic Blood Pressure (Vital Signs)	Х							
Medical History/Concomitant Illness	Х	-	-	-	-	-	-	-
Alcohol Habits	Х	-	-	-	-	-	-	-
MMSE	Х	-	-	-	-	-	-	-
X-Ray	Х	-	-	-	-	-	-	-



- ➤ Build teams (1-3 people)
- > Access exercise https://openstudybuilder.com/workshop 2025
- ➤ Log into sandbox https://openstudybuilder.northeurope.cloudapp.azure.com/
- ➤ Make notes

- Create a new Study
- > Setup epochs, visits, activities
- > Optional new activity, create data specification
- > Optional additional study details

WIFI

- > IHG One
- > GVACP





Insights & Experiences

Insights



- Copy from Study
- > Copy activities from a template study
- > Reorder activities
- > Bulk edit activities
- > Sub-studies
- > Special visits



Feedback





Success

- Overview
- Examples



Issues

- data specifications tricky
- test data
- reduce to fewer visits & activities



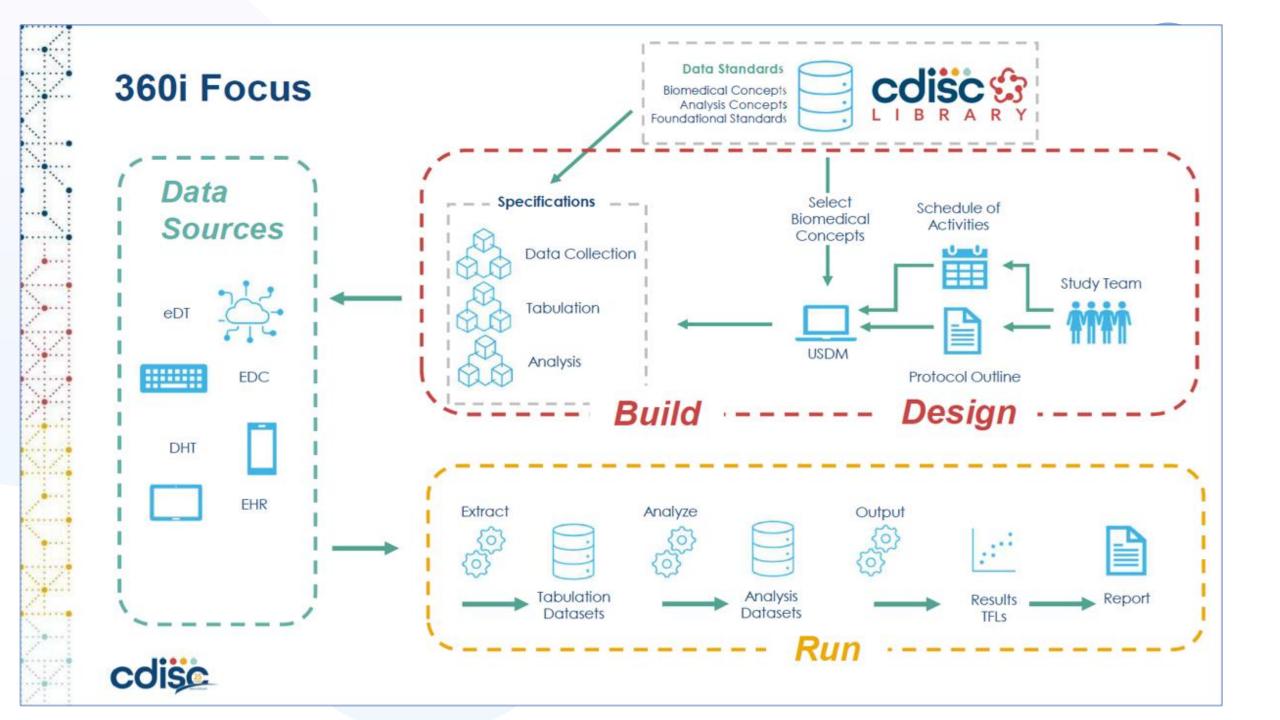
Opportunities

- Videos stopping and not too fast
- explain data specification relationship
- Explain how to maintain items
- Community maintenance of items
- Additional explanations, e.g. links to detailed documentation (rough explanation direct, deeper linking)
- More introduction
- Link to CDISC / Interaction





End-2-End & Digital Data Flow



OpenStudyBuilder



Name date

1:10 PM

1:10 PM

1:10 PM

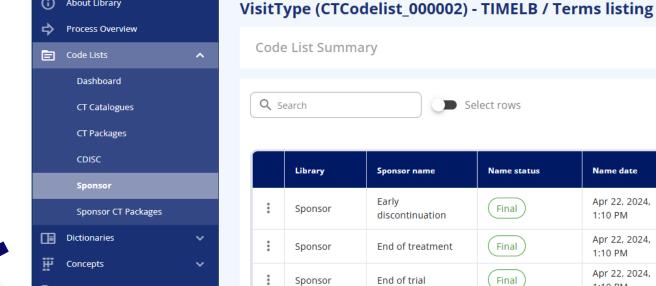
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Options by Controlled Terminology (CDISC or Sponsor Terms)





About Library

Syntax Templates

Library / Code Lists / Sponsor / All / CTCodelist_000002 / Terms

OpenStudyBuilder



To compare the effect of Compound relative to Comparator on ActivityInstance

Protocol Content with Semantics

Proportion of subjects with ActivityInstance Operator NumericValue Unit

Disease control rate of Compound + Compound cohort

Overall response rate of Compound + Compound cohort

OpenStudyBuilder



Connecting bits & pieces
- Biomedical Concepts

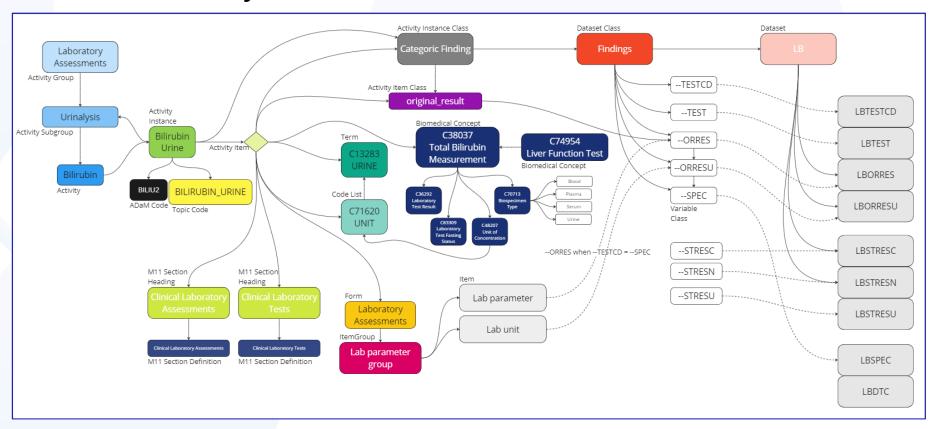
Activity groupings	Activity group			Activity su	Activity subgroup					
	Laboratory Assessments				Glucose M	Glucose Metabolism				
	Laboratory Assessments	i		24 Hour U	24 Hour Urine Collection					
	AE Requiring Additional	Data		Laborator	Laboratory Assessment					
	Laboratory Assessments	i		Urinalysis	Urinalysis					
Activity instances	Name	Definition	Version	Status	Activity instance class	Topic code	ADaM parameter code			
	BG Super GL Analyzer		1.0	Final	NumericFinding	BG_SUPER_GL_ANALYZER	BGSUPGLA			
	BG Super GL Analyzer		0.1	Draft	NumericFinding	BG_SUPER_GL_ANALYZER	BGSUPGLA			
	Blood Glucose		1.0	Final	NumericFinding	GLUCOSE_BLOOD	GLUCB			
	Blood Glucose		0.1	Draft	NumericFinding	GLUCOSE_BLOOD	GLUCB			
	<u>Fasting Plasma</u> <u>Glucose</u>		1.0	Final	NumericFinding	FPG_PLASMA	FPG			
	<u>Fasting Plasma</u> <u>Glucose</u>		0.1	Draft	NumericFinding	FPG_PLASMA	FPG			
	<u>Fasting Serum</u> <u>Glucose</u>		1.0	Final	NumericFinding	FSG_SERUM	FSG			
	<u>Fasting Serum</u> <u>Glucose</u>		0.1	Draft	NumericFinding	FSG_SERUM	FSG			
	Glucose		1.0	Final	NumericFinding	GLUCOSE	GLUC05			

Biomedical Concepts drive Digital Data Flow



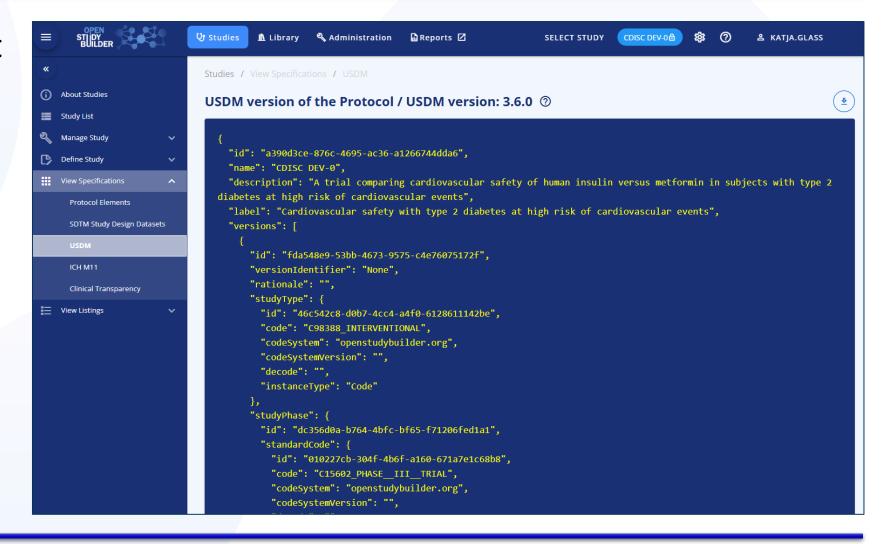
Connect to Flow - define once & use many

- Protocol definition
- CRF utilization
- EDC specification
- SDTM definition
- ADAM definition



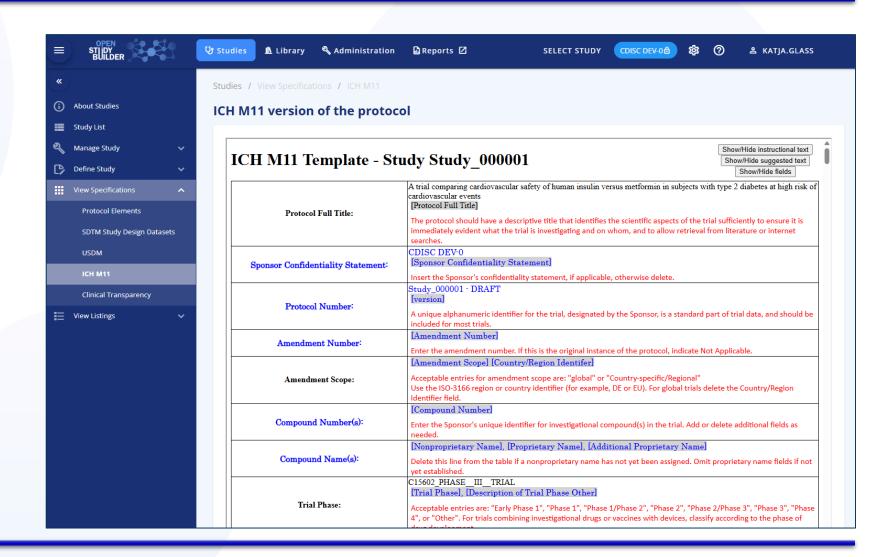


➤ USDM Export



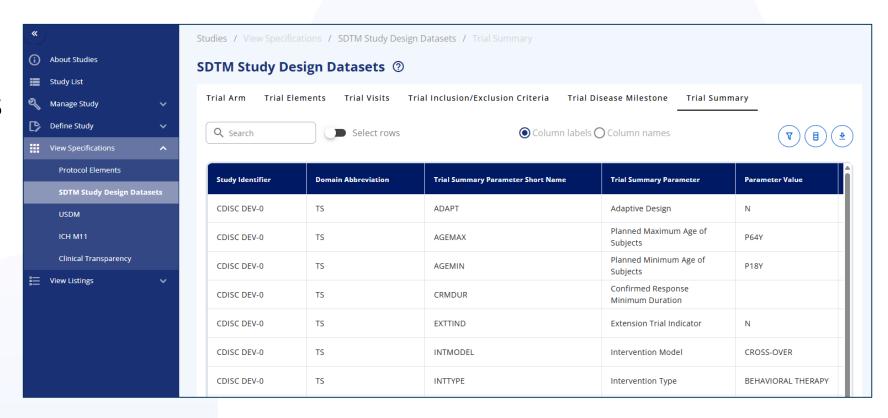


- > USDM Export
- ➤ M11 Display





- ➤ USDM Export
- > M11 Display
- Design Datasets



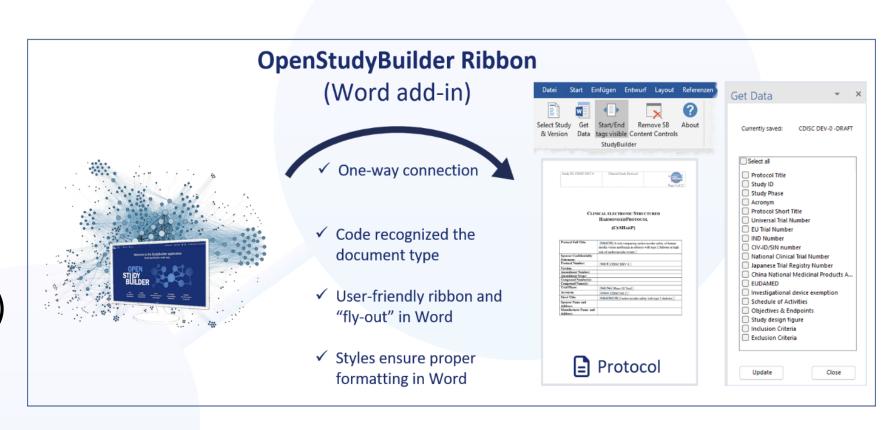


- ➤ USDM Export
- ➤ M11 Display
- Design Datasets
- > Transparency Export
- Define.xml (in development)

VS Using so	ltmig_ı	mastermodel_3.2_N	N15									L
Variable	Cdisc	Label/Description	Туре	Length	Displ	Codel	Term	Core	Origin	Role	Comment	Ord
CDMS_SUB_EVT.	false	CDMS Repeat Sequence N	integer	8				Perm		RecordQualifier		10
SRC_FIND_COLL.	false	CDW SRC Finding Collection	text [C]	80				Perm		RecordQualifier		20
TOPIC_CD	false	CDW Topic Code	text [C]	80				Perm		Topic		30
STUDYID	true	Study Identifier	text [C]	40				Req	Protoco	Identifier	Unique identifier for a stud	40
DOMAIN	true	Domain Abbreviation	text [C]	8			VS	Req	Assigne	Identifier	Two-character abbreviation	50
USUBJID	true	Unique Subject Identifier	text [C]	60				Req	Assigne	Identifier	Identifier used to uniquely i	60
SPDEVID	false	Sponsor Device Identifier	text [C]	40				Perm	Assigne	Identifier	Sponsor-defined identifier	70
VSSEQ	true	Sequence Number	integer	8				Req	Derived	Identifier	Sequence Number given to	80
VSGRPID	true	Group ID	text [C]	60				Perm		Identifier	Used to tie together a block	90
VSREFID	false	Reference ID	text [C]	40				Perm		Identifier		100



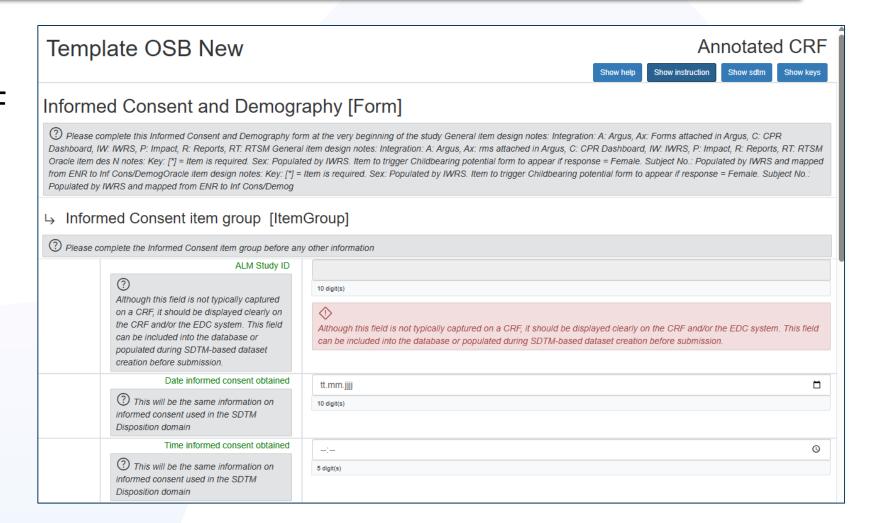
- > USDM Export
- ➤ M11 Display
- Design Datasets
- Transparency Export
- Define.xml (in development)
- > Word Add-In



Downstream in development



- > CRF Library
- > Study CRF & aCRF
- > EDC Automation





Checkout Features



CDISC-0

- > USDM Export
- ➤ M11 Display
- Design Datasets
- > Transparency Export
- Define.xml (in development)
- > Word Add-In

- ➤ Browse Library
 - Activity & Activity Instances

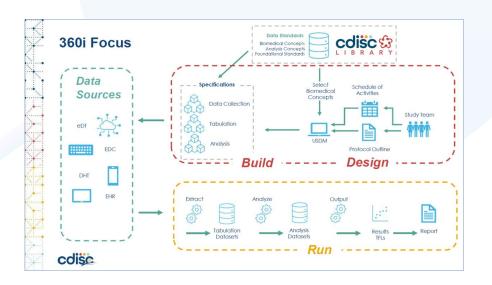


Questions

CDISC 360i



Standards alone are not sufficient Challenges are too complex Isolated solutions are inadequate



Interchange Program



- ➤ Wednesday 13:30 15:30 Digital Data Flow
- ➤ Wednesday 16:00 17:30 CDISC 360i
- ➤ Thursday 13:30 15:30 Highway to Automation
- > Friday CDISC 360i Workshop

OpenStudyBuilder Links



Getting Started

Checkout available resources!

Project website: https://openstudybuilder.org

· Newsletter: LinkedIn

Demonstration Video: YouTube

· Demonstration Flow: Homepage

Repository (Solution, Description): GitLab

Slack: Join

• Email: openstudybuilder@gmail.com

Request sandbox access: Sandbox



https://openstudybuilder.com/status/

Exchange & Summary



Success

XXX



XXX



 graphical overview – what we are looking for – endpoint in view (scope & context, vision)





Thanks!



OpenStudyBuilder Links



- ➤ Project Homepage: https://openstudybuilder.com/
- ➤ Newsletter: https://www.linkedin.com/newsletters/openstudybuilder-6990328054849916928/
- > YouTube Demonstration (30'): https://youtu.be/dL5CY0BwfEs
- > Demonstration Flow: https://openstudybuilder.com/info demo/
- GitLab (Solution, Description):
 https://gitlab.com/Novo-Nordisk/nn-public/openstudybuilder
- ➤ Slack:
 https://join.slack.com/t/openstudybuilder/shared invite/zt-19mtauzic-Jvrhtmy7hGstgyilvB1Wsw
- > E-Mail: openstudybuilder@gmail.com
- ➤ Sandbox: Mail <u>openstudybuilder@neotechnology.com</u> Subject "Request Sandbox access"