

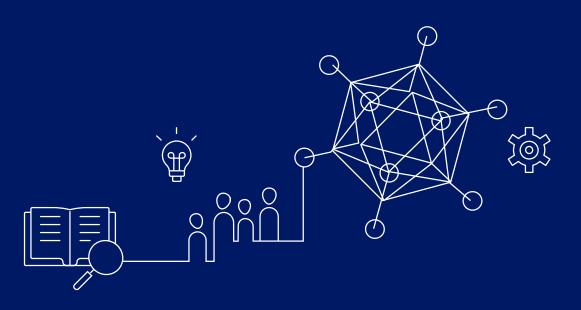
Digitalizing the study setup process from Protocol to Data Collection Specifications using

OpenStudyBuilder



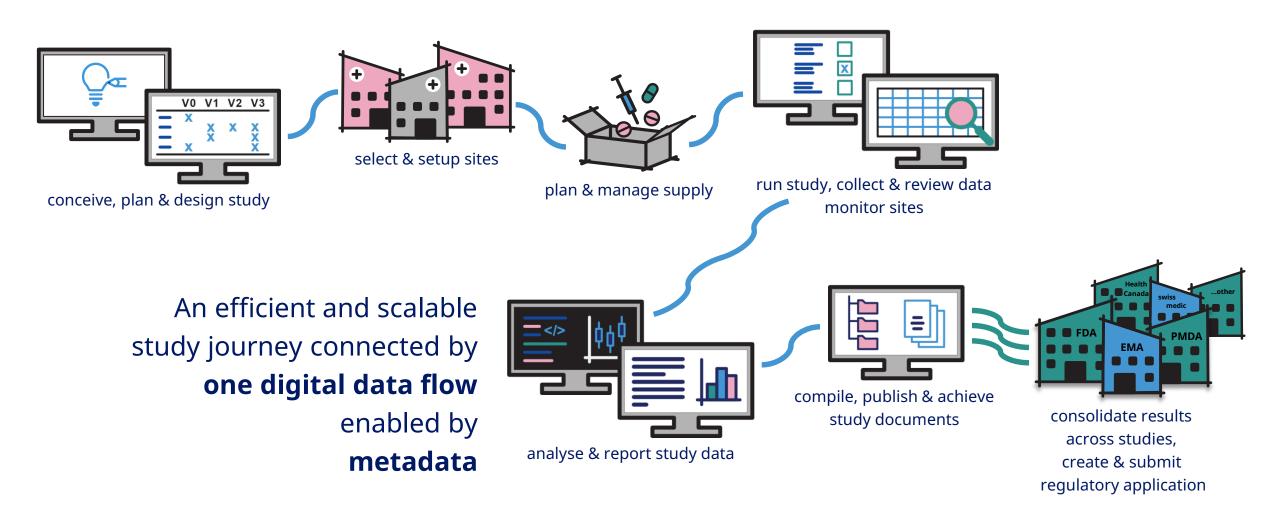
Camilla Kehler, Product Owner, Novo Nordisk **Ana Calduch Argues**, Product Owner, Novo Nordisk

04th March, 2025



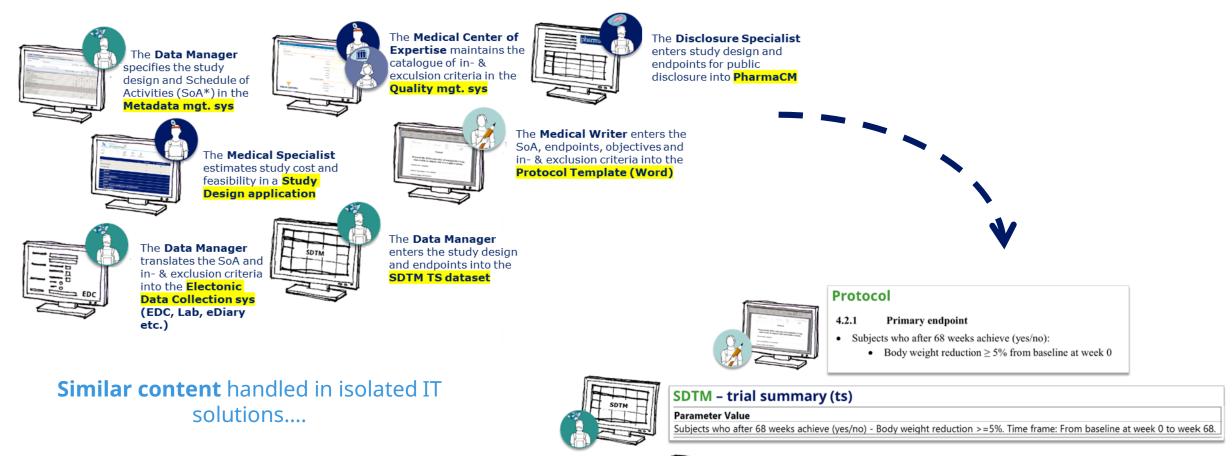


ONE study journey



Why OpenStudyBuilder?





.... leads to **re-creation of content** resulting in double work, heavy need for QC and lack of alignment



PharmaCM (for upload to CT.gov)

• Subjects who achieve 5 or more percent body weight reduction (yes/no) [Time Frame: Week 68]

Number of subjects.

Primary Outcome Measures:



What is OpenStudyBuilder?

- A new and digital approach to study specifications
- An **OpenSource** project
- Aligned with **TransCelerate**'s Digital Data Flow initiative
- Based on the **CDISC** standards
- Allowing for governance of internal and external standards
- Facilitating **automation**



OpenSource project

How OpenStudyBuilder enables a Digital Data Flow..... **Schedule** of Activites (SoA) Study Study Outcome Design Lab spec Study 'ADaM Study Interventions tide on functional capacity in pat betes and peripheral arterial disea Criteria EDC spec_eCOA spec SDTM ***** One source of truth !!!! **********

OpenStudyBuilder Components



STU	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											

REPORTS

DASHBOARDS OF ACTIVITIES/ASSESSMENTS

STUDY COMPARE REPORT

OVERVIEW OF STUDY CRITERIA, ENDPOINTS & OBJECTIVES







The integration from OpenStudyBuilder to protocol...



* Any updates to the study specification should ALWAYS be done in OpenStudyBuilder, to ensure it served as the source of truth



OpenStudyBuilder – Schedule of Activities (SoA)

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le	Procedure	Screening			r	Dose Escal	ation								Mainte	nance						Follo	w-up
	Visit short name	V1	V2	P3	V4	V5	V6	V7	V8	V9	P10	V11	P12	V13	P14	V15	P16	V17	P18	V19	V20	P21	V22
Identifiers	Study week	-3	0	2	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	71	74
operties	Visit window (days)	0/+5	0	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3
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ctivities	Pregnancy Test																						
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	Discontinuation Criteria																						
	Risk Factors																						
	Risk Factors for Breast Neoplasm																						
	Risk Factors for Skin Cancer																						
	Contraceptive Counselling																						
	Contraceptive																						
	Physical Examination																						
	Physical Examination																						
	Vital Signs																						
	Vital Signs																						
	ECG																						
	12 Lead ECG, Single Recording																						
	Laboratory Assessments																						
	Biochemistry																						
	Urinalysis																						
	AE Requiring Additional Data																						

^b Demography consists of date of birth, sex, ethnicity, and race (according to local regulation). Race and ethnicity must be self-reported by the participant.

Only for female participants

^d Only for women of childbearing potential. The pregnancy test at V1 is a serum pregnancy test, all other pregnancy tests. The participants will be provided with urine pregnancy tests for remote testing. The participants should be instructed by site staff in correct use of the tests. In addition to the planned assessments, urine pregnancy test should be performed at any time during the study if a menstrual period is missed, or if pregnancy is otherwise suspected.

Schedule of Activities (SoA) at multiple levels

Protocol SoA					
Study epoch	Screening	Treatment			
Visit short name	V1	V2	V3	V4	
Study day	-14	1	8	15	
Visit window (days)	-13/+0	±0	±1	±1	
SUBJECT RELATED INFORMATION					
Randomisation					
Randomisation					
Randomisation Criteria and Randomisation					
Randomisation Criteria and Randomisation		Х			
End of Study					
End of Study					
Body Measurements					
Body Measurements	Х	Х	Х	Х	

Protocol SoA

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

Expand table Collapse table Hide flowchart groups Epoch vig vig vig vig Epoch vig vig

Specifying the semantic

data observations to be

collected in the study –

representation in ADaM,

SDTM or data collection

This information will be

included in different parts

but not specific to

of the protocol

Detailed SoA

r.						۹	irch	Sea
Mandatory/ Suggestion	Details	Detail	Instance	Data Collection	Activity	Activity Subgroup	Activity Group	
Mandatory	Class: NumericFinding Topic code: ALT ADM param ALT SDTM TESTCD: BETESTCD SDTM TEST: ALT Ust dismark: IB Ust dismark: UJU Concentration Specimer:	il Data Topic - ADAM SDTM SDTM SDTM Unit d Standa	Alanine Aminotransfera AE Requiring Additional	Y	Alanine Aminotransferase	Laboratory Assessment	AE Requiring Additional Data	1
Suggestion	Class: NumericFinding Topic code: ALT_SERUM ADM param: ALTS SDTM TESTCD: BETESTCD SDTM TEST: ALT SDTM tomain: UB Unit dimension: U_UI Concentration Standard unit: UA. Spericimes: SRMM	Topic ADaM SDTM SDTM SDTM Unit d Stands	Alanine Aminotransferae Biochemistry	Y	Alanine Aminotransferase	Biochemistry	Laboratory Assessment	1
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			Add Instance	٧	Nanine Aminotransferase	Biochemistry	Laboratory Assessment	
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Operational SoA

- The data specification to support external data transfers
- Correspond to NN
 existing legacy BCs
- Will also relate 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

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Study Properties		Activities and the	V7 -		v							
Study Structure	gro	ouping for the st	tudy	V1 🗌	V2	V3	V4	V5 🗌	V6 🗌	V7	V8	v
Study Population	Study day Window			-14	1 ±0	8 ±1	15 ±1	22 ±1	29 ±1	36 ±1	43 ±1	5 ±
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Footnotes

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Visit short name	V1	V2	V3	V4	V5	<u>⊢</u> V6	V 7	V8	V9	V10	V11	Objectives & Endpoin Inclusion Criteria	ts
Study day	-14	1	8	15	22	29	36	43	57	183	213	Exclusion Criteria	
Visit window (days)	-13/+0	±0	±1	±1	±1	±1	±1	±1	±1	±1	+0/+35		
Randomisation													
Randomisation		x											
End of Study													
End of Study											X		
Body Measurements												Update	Cli
Body Measurements	X	X	x	x	X	X	X	X	x	X	X		
Eligibility Criteria													
Eligibility Criteria	X												
Laboratory Assessments													
Glucose Metabolism	Х	x	X	x	X	X	Х	Х	x	Х			
Lipids	Х	х			X			Х		Х			
Biochemistry	X	Х			X			X		X			
AE Requiring Additional Data											•		

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			> BIC	OMARKERS														

Selection is made to specific Activity Instance level

Operational SoA supporting laboratory data specification



Data file specification for laboratory findings

LAB data description: Laboratory data such as haematology, biochemistry, urinalysis and laboratory biomarkers

All columns listed in the table below should be present in the data file and their order should not be changed.

• For columns that are not applicable, the column header should remain, and the content in the column should be set to NULL (i.e. left blank) in each record in the file

The data file header line with the pipe-delimited column headers is shown for your reference below.

The instructions in 'Mandatory/optional' specify if it is mandatory to populate a column. [Exceptions from this can, in rare cases, be agreed with the supplier while preparing the
data specification.]

data specification.j

[Addition of study-specific data file columns to the specification should be discussed in an Implementation Group meeting. If additional data file columns are required, e.g. QNAMs, please add the additional columns as new rows at the end of this table and ensure to add the extra columns to the relevant tables in DMW for the study. If an added column should be compliant with a codelist, please add the data file column to the content sheet so that relevant codelist submission values can be communicated to the supplier.

In Phase I studies, it can be relevant to add SEX for the subject's gender and DOB for the date of birth, which can be partial depending on the country. These columns can be used for checks in CDMS and will not be mapped to SDTM.]

For codelist-controlled columns, supplier values should be mapped to the corresponding CDISC codelist values or to Novo Nordisk-defined additions to the codelists that are extensible.
 See the relevant codelist values as well as study-specific file content in the 'LAB, content' sheet.

• The data types specified in the table below are the Oracle database data types that the data will be loaded into. VARCHAR2 stores alphanumeric strings. The maximum length is specified for each column. Data type NUMBER stores numeric data.

Data file header line:

STUDYID | DOMAIN | SITE | SUBJID | FSUBJID | VISIT | LBREFID | TOPICCD | SUPTEST | LBORRES | UNITCOLL | LBORNRLO | LBORNRHI | LBNRIND | LBSTAT | LBREASND | LBNAM | LBLOINC | LOINCVER | LBSPEC | LBSPECND | LBMETHC

Column position in	Column header in data	Data type	Max length of	Content description
data file 🛛 💌	file 🔽	-	character values 💿 💌	
1	STUDYID	VARCHAR2	40	Study ID.
				Default to 'XX9999-9999'.
2	DOMAIN	VARCHAR2	8	SDTM domain.
				Default to 'LB'.
3	SITE	VARCHAR2	20	Site identifier, e.g. '101'.
4	SUBJID	VARCHAR2	20	Subject identifier, e.g. '101201'.
5	FSUBJID	VARCHAR2	20	Scrambled subject ID.
				[If scrambling is not needed:] Default to NULL.
6	VISIT	VARCHAR2	64	Visit name, see 'Visits' sheet.
7	LBREFID	VARCHAR2	80	Unique sample identifier:
				Sample ID, requisition number or barcode, e.g. 'AB124578'.
8	TOPICCD	VARCHAR2	80	Topic code, see 'Lab, content' sheet.
9	SUPTEST	VARCHAR2	100	Supplier assessment name.
10	LBORRES	VARCHAR2	200	Result.
				LBORRES should be NULL if a result is not obtained.
				If the result is categorical, the LBORRES value should be
				compliant with CDISC CT codelist LBSTRESC (e.g. 'NEGATIVE')

External Data File Specifications

instructions Dynamic text replacement Visit / Time points LAB Structure LAB Content LAB Range PK Structure PK Content AB Structure AB Content Parameter:

Data file specification for laboratory findings

- LAB data description: Laboratory data such as haematology, biochemistry, urinalysis and laboratory biomarkers,
- All columns listed in the table below should be present in the data file and their order should not be changed.
- . For columns that are not applicable, the column header should remain, and the content in the column should be set to NULL (i.e. left blank) in each record in the
- The data file header line with the pipe-delimited column headers is shown for your reference below
- The instructions in "Mandatoryloptional" specify if it is mandatory to populate a column. [Exceptions from this can, in rare cases, be agreed with the supplier while preparing the data specification.] (Addition of study-specific data file columns to the specification should be discussed in an Implementation Group meeting. If additional data file columns are required, e.g. QNAMs, please add the additional columns are wrows at the end of this stubic and ensure to add the extra columns to the relevant tables? If an added column should be compliant with a codelist, please add the data file columns to the content sheet so that relevant tables?
- For codelist-controlled columns, supplier values should be mapped to the corresponding CDISC codelist values or to Novo Nordisk-defined additions to the codelists that are extensible. See the relevant codelist values as well as study-specific file content in the "LAB. content" she
- The data types specified in the table below are the Oracle database data types that the data will be loaded into. VARCHAR2 stores alphanumeric strings.

The maximum length is specified for each column. Data type NUMBER stores numeric data.

Data file header line: STUDYIDJDOMAIN(SITE[SUBJID]FSUBJID]FSUBJID]FSUBJID[FSUBJID]FSUBJID[FSUBJID]FSUBJID]FSUBJID[FSUBJID]FSUBJID]FSUBJID]FSUBJID]FSUBJID[FSUBJID]FSUB

"Traditional" Excel based data transfer specifications

LAB, structure

Mandatory

Position	Column Header	Data type	Max Length	Content Description	Mandatory	Examples
	STUDYID	VARCHAR2	40	Study ID. Default to 'XX9999-9999'.	Req	NN8640-4467
2	DOMAIN	VARCHAR2	8	SDTM domain. Default to 'LB'.	Req	
3	SITE	VARCHAR2	20	Site identifier, e.g. '101'.		
4	SUBJID	VARCHAR2	20	Subject identifier, e.g. '101201'.	Req	
5	FSUBJID	VARCHAR2	20	Scrambled subject ID. [If scrambling is not needed.] Default to NULL.		
6	VISIT	VARCHAR2	64	Visit name, see "Visits" sheet.	Perm	V1,V2,V3,V4,V5,V6,V7,V9,V11,V13,V15,V15,
7	LBREFID	VARCHAR2	80	Unique sample identifier: Sample ID, requisition number or barcode, e.g. 'AB124578'.		
8	TOPICCD	VARCHAR2	80	Topic code, see "Lab, content" sheet.		
9	SUPTEST	VARCHAR2	100	Supplier assessment name.		
10	LBORRES	VARCHAR2	200	Result. LBORRES should be NULL if a result is not obtained. If the result is categorical, the LBORRES value should be compliant with CDISC CT codelist LBSTRESC (e.g. 'NEGATIVE') or sponsor-defined extensions.	Exp	
11	UNITCOLL	VARCHAR2	40	Collected unit. UNITCOLL should be compliant with CDISC CT codelist UNIT (e.g. 'mmol/L') or sponsor-defined extensions. Supplier should not perform unit-based conversion of results. UNITCOLL should be NULL for unitless data, e.g.		
12	LBORNRLO	VARCHAR2	40	Lower limit of supplier reference range applicable to the subject in same unit as the result. LBORNRLO should be NULL if there is not a lower limit.	Exp	
13	LBORNRHI	VARCHAR2	40	Upper limit of supplier reference range applicable to the subject in same unit as the result. LBORNRHI should be NULL if there is not an upper limit.	Exp	
14	LBNRIND	VARCHAR2	20	Reference range indicator. Indicates where the result falls with respect to reference range defined by LBORNRLO and LBORNRHI: - "LOW" - 'NORMAL' - "HIGH"	Exp	
15	LBSTAT	VARCHAR2	40	Completion status. Populate with 'NOT DONE' if LBORRES is NULL, otherwise NULL.	Perm	
16	LBREASND	VARCHAR2	200	Reason why result could not be obtained.	Perm	
17	LBNAM	VARCHAR2	40	Short name of the laboratory that performed the assessment. Default to 'LAB X'. [Short name as specified in 'List of MFT suppliers'. Note that if the supplier is delivering results from assessments performed by other labs, the red text a	t Perm	
18	LBLOINC	VARCHAR2	200	LOINC code.	Perm	
19	LOINCVER	VARCHAR2	20	LOINC code version.		
20	LBSPEC	VARCHAR2	80	Specimen type, LBSPEC should be compliant with CDISC CT codelist SPECTYPE (e.g. 'PLASMA', 'SERUM', 'URINE') or sponsor-defined extensions.	Perm	
21	LBSPCCND	VARCHAR2	40	Specimen condition. Used in cases where a result is obtained, but the sample is less than optimal. LBSPCCND should be compliant with CDISC CT codelist SPECCOND (e.g. 'HEMOLYZED') or sponsor-defined extensions.	Perm	
22	LBMETHOD	VARCHAR2	80	Method of assessment or examination. LBMETHOD should be compliant with CDISC CT codelist METHOD (e.g. 'ELISA') or sponsor-defined extensions.	Perm	
23	LBANMETH	VARCHAR2	80	Analysis method. Describes the method of secondary processing applied to a complex observation result, e.g. 'CREATININE 2021 CKD-EPI FORMULA'.	Perm	
24	LBFAST	VARCHAR2	2	Fasting status If subject was fasting: '\' - If subject was not fasting: '\' - If not relevant: NULL	Perm	
25	LBDTC	VARCHAR2	64	Datetime of specimen collection in ISO 8601 format: YYYY-MM-DDTHH:MM:SS, e.g. 2020-10-12T14:30:15.	Exp	
26	LBTPT	VARCHAR2	80	Planned time point name, e.g. '10 MIN AFTER', see 'Time points' sheet.	Perm	
27	SUBEVNUM	NUMBER		Subevent number, which is used to distinguish unplanned resampling. Resampling is done when the original sample cannot be used If no resampling: SUBEVNUM should be 0 If resampling is done for the same VISIT, SUBJID and T	p	
28	COMMENTALL	VARCHAR2	200	Comments that do not fit into other columns.		

Digitalized data transfer specifications automatically created from OpenStudyBuilder SoA L3

8

L4 SoA (work in progress) - Concept: CRFs

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~	: 6 Informed Consent			Draft	0.2	+ пема					
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Ŷ	: 6 General Demography			Draft	0.1	About Library	CRFs (Case	Report Forms) ③	/		
	1 Date of birth		5	Draft	0.1	Process Overview	CRF Templa	ates 🕑 Forms 🌀 Item Groups 🕕 Item	as CRF Tree CRF View	Alias Extensions	
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			or CSV)					(DE-LSTUDIE). Version-8-11 O Although this field is not typically captured on a CFR is should be displayed clearly on the CFR and/or the EDC system. This field can be included into the database or populated during SDTM-based dataset creation before submission.	STUDYID		
							∂ %	Date informed consent obtained [000+IBFICDAT. Version=8.2] This will be the same information on informed consent used in the SDTM Disposition domain	jj/mm/aaaa (RFICDTC) (DSSTDTC)		10 digit(

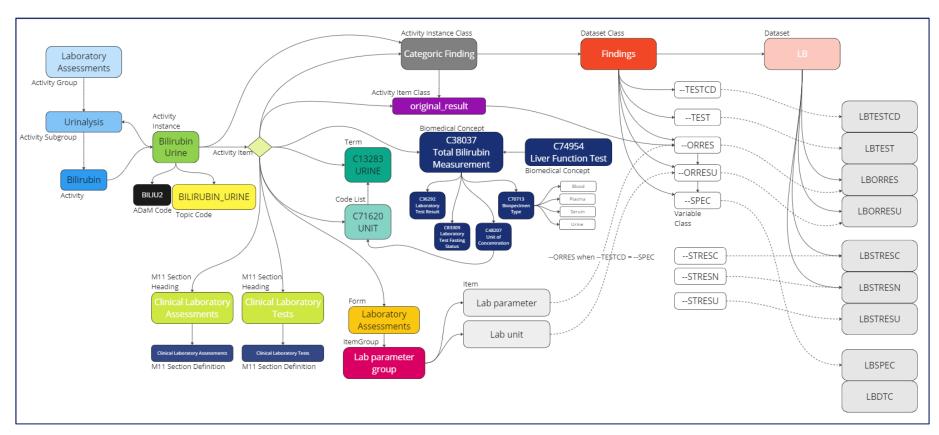




Biomedical Concepts drive Digital Data Flow

Connect to **Flow** - define once & use many

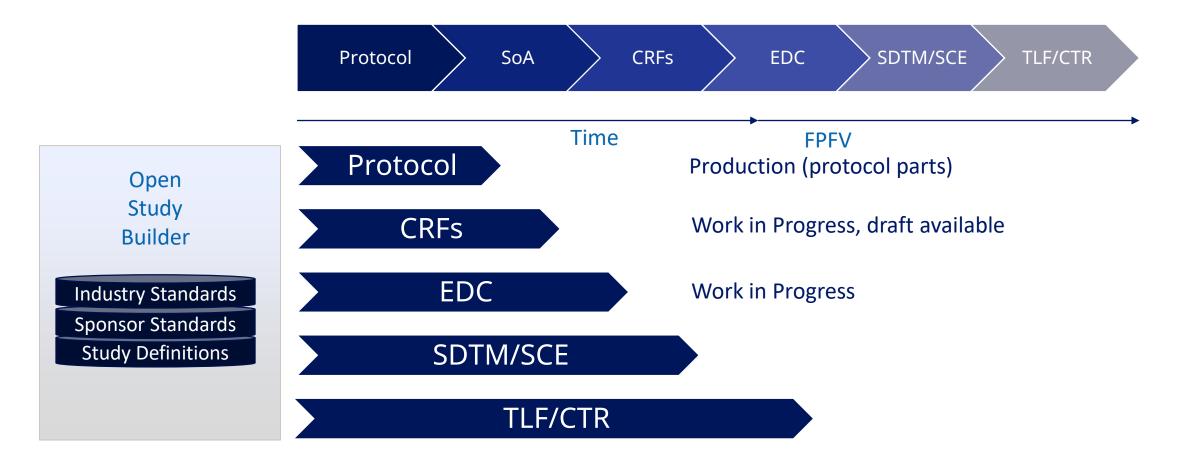
- Protocol definition
- CRF utilization
- EDC specification
- SDTM definition
- ADAM definition





Transitioning from a sequential to a parallel work flow

• Digitized Processes Over Manual Processes



OpenStudyBuilder

- Project Homepage: <u>https://openstudybuilder.com/</u>
- Newsletter: <u>https://www.linkedin.com/newsletters/openstudyb</u> <u>uilder-6990328054849916928/</u>
- YouTube Demonstration (30'): <u>https://youtu.be/dL5CY0BwfEs</u>
- GitLab (Solution, Description): <u>https://gitlab.com/Novo-Nordisk/nn-public/openstudybuilder</u>
- Slack: <u>https://join.slack.com/t/openstudybuilder/shared_invite/zt-</u> <u>19mtauzic-Jvrhtmy7hGstgyiIvB1Wsw</u>
- E-Mail: openstudybuilder@gmail.com

Sandbox:

- Mail <u>openstudybuilder@neotechnology.com</u> Subject "Request Sandbox access"
- Note: when add/modify/delete, you mail might be exposed in the version history



