

User friendly / do-it-yourself / all-in-one

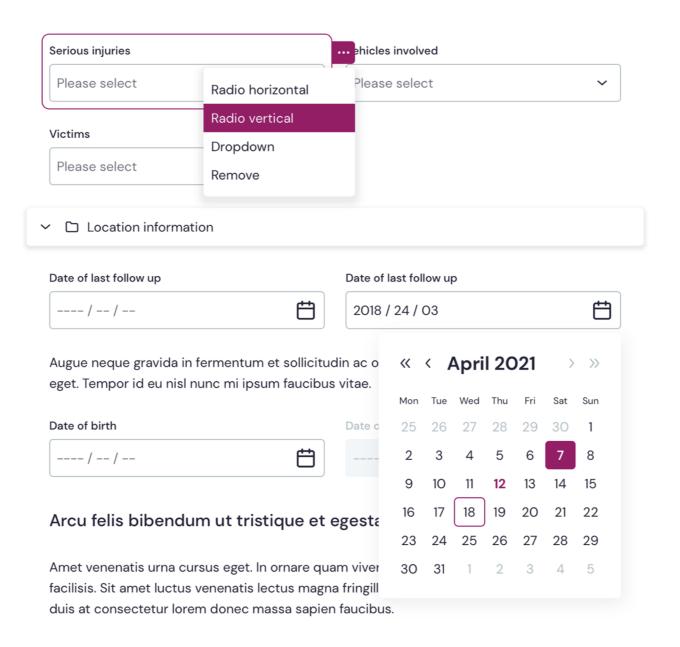
Compliance with GDPR and national standards

Time and cost efficient

Collaboration

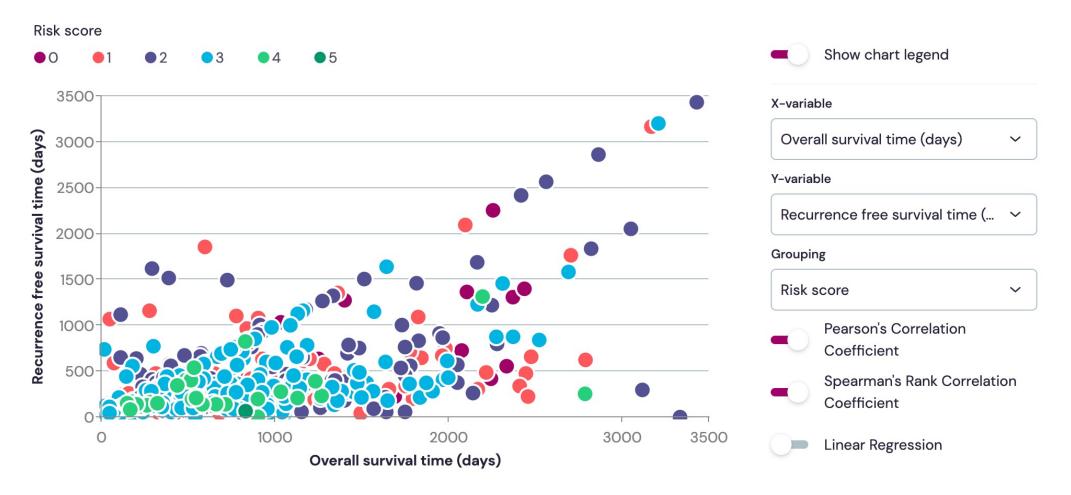
The research workflow...





Correlations and linear regression























Most solutions are too advanced & difficult to use Multiple solutions needed to support the workflow



























Registry / database



Statistics

Graphs

Presentation / report



REDCap

























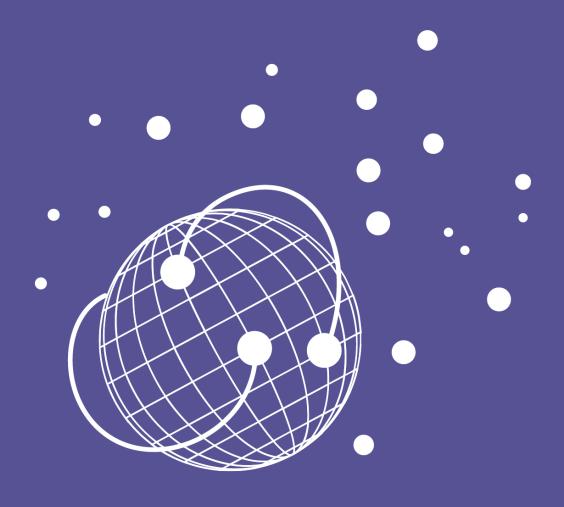






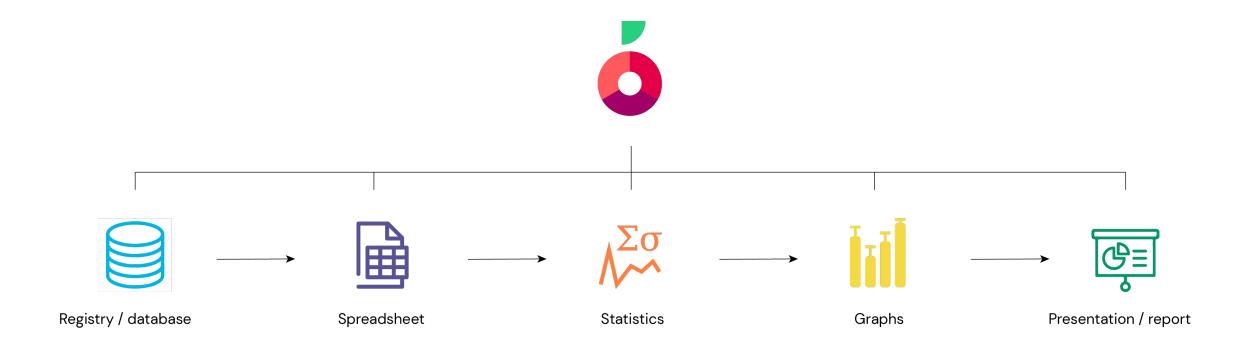






International research collaborations with Privacy Preserving Data Analysis





Cloud - GDPR - Schrems II







Confidential Computing

- data protection throughout the complete lifecycle



Data at rest



Data in transit



Data in use

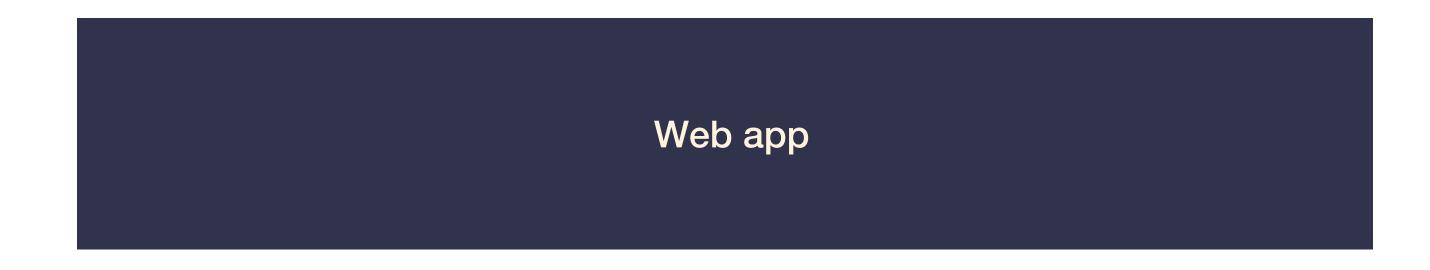




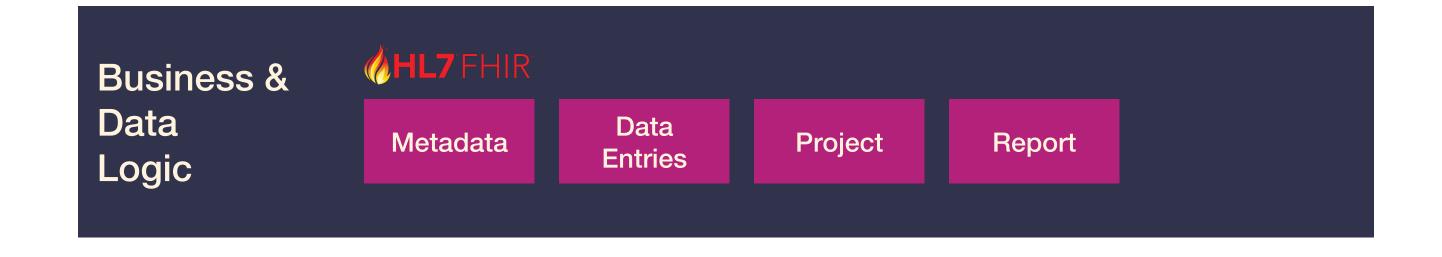
Standards in Ledidi Core

FHIR, SNOMED etc











Ledidi Core concepts

Variables

Variables



Add variables to your project

Variables are the essential part of the project, let's start by adding them manually or import your variable from a database file

Create new variable

or Import data and variables

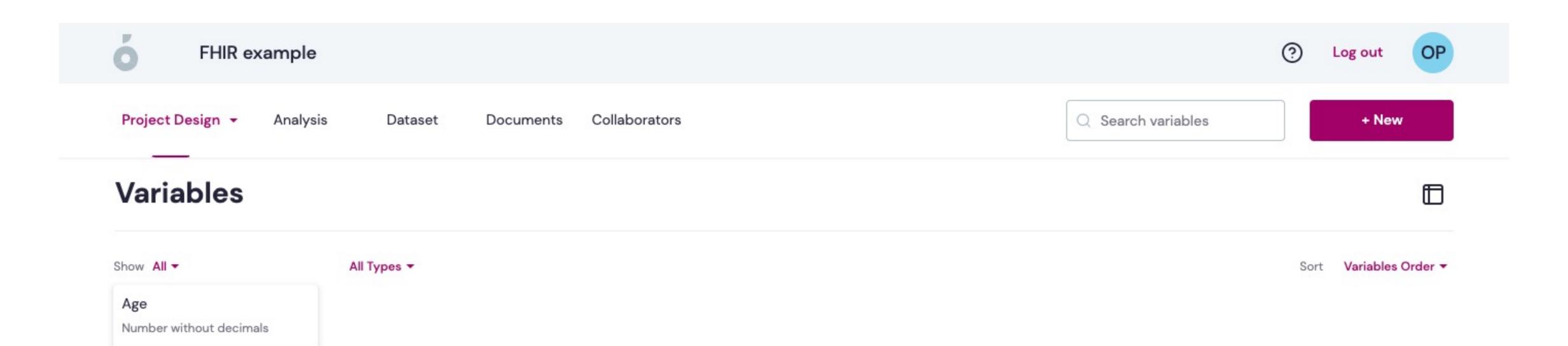
New variable

General Details Calculation rules

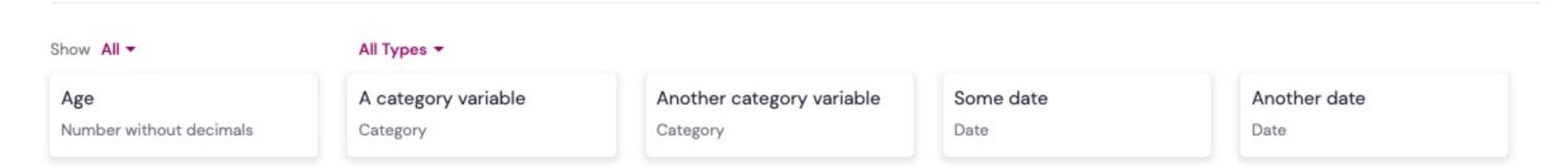
/ariable name Age		Description		
		No Description		
Restricted Hide variable from users withou	ıt access to	view restricted data.		
/ariable type		Data type		
Entry	~	Number without decimals	~	
Mandatory Must be given a value when crea	ating and up	odating an entry in the dataset.		
Validation range				

Cancel

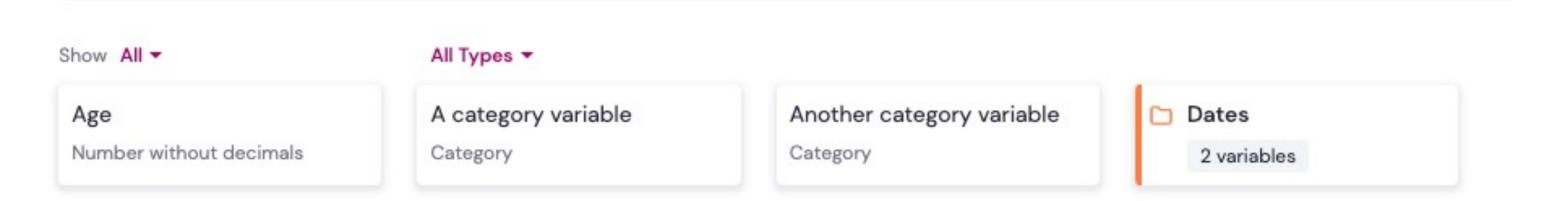
Create variable



Variables



Variables



Age	
A category variable	
No choices available + Add New Value	
Another category variable	
No choices available + Add New Value	
□ Dates	
Some date	
//	
Another date	
/	

Dataset



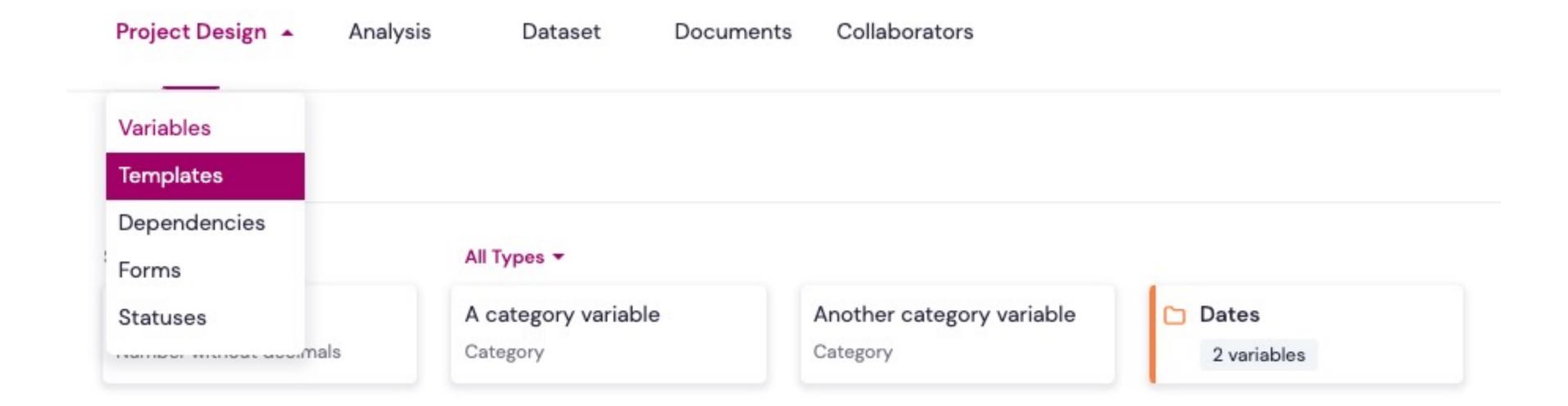


|--|

			Dates					
Age	A category variable	Another category variable	Some date	Another date	Last modified by	Owned by	Created date	Last modified
54	aaaa	bbbb	2021-12-10	2021-12-29	oddchristianpreprod	oddchristianpreprod	2021-12-01	2021-12-01
65	bbb	bbbb	2021-12-06	2021-12-17	oddchristianpreprod	oddchristianpreprod	2021-12-01	2021-12-01

Ledidi Core concepts

Templates



Other templates

My templates

Templates

∨ □ Dates

Variables and Groups

•••

Age
 A category variable
 Another category variable

Templates

^	Diagnosis template	15 variables •••
	Dropzone Description	
	→ Drag and drop variables or groups of variables here.	
~	STATE AT LAST FOLLOWUP	
~	SURVIVAL FROM SURGERY DAYS	
~	DATE OF LAST FOLLOWUPORDEATH 2	
~	STATE AT LAST FOLLOWUP 2	
~	DIAGNOSE 2	Û
~	SURVIVAL FROM SURGERY DAYS 2	

•••

Other templates

My templates

Templates

Variables and Groups

Templates

✓ Age
 ✓ A category variable
 ✓ Another category variable
 ✓ Dates

↑ Diagnosis template		15 variables •••
	Dropzone Description	Update Share >
	→ Drag and drop variables or groups of variables here.	Import Remove
✓ STATE AT LAST FOLLOWUP		
→ SURVIVAL FROM SURGERY	DAYS	
→ DATE OF LAST FOLLOWUP	ORDEATH 2	
✓ STATE AT LAST FOLLOWUP	2	
→ DIAGNOSE 2		
→ SURVIVAL FROM SURGERY	DAYS 2	

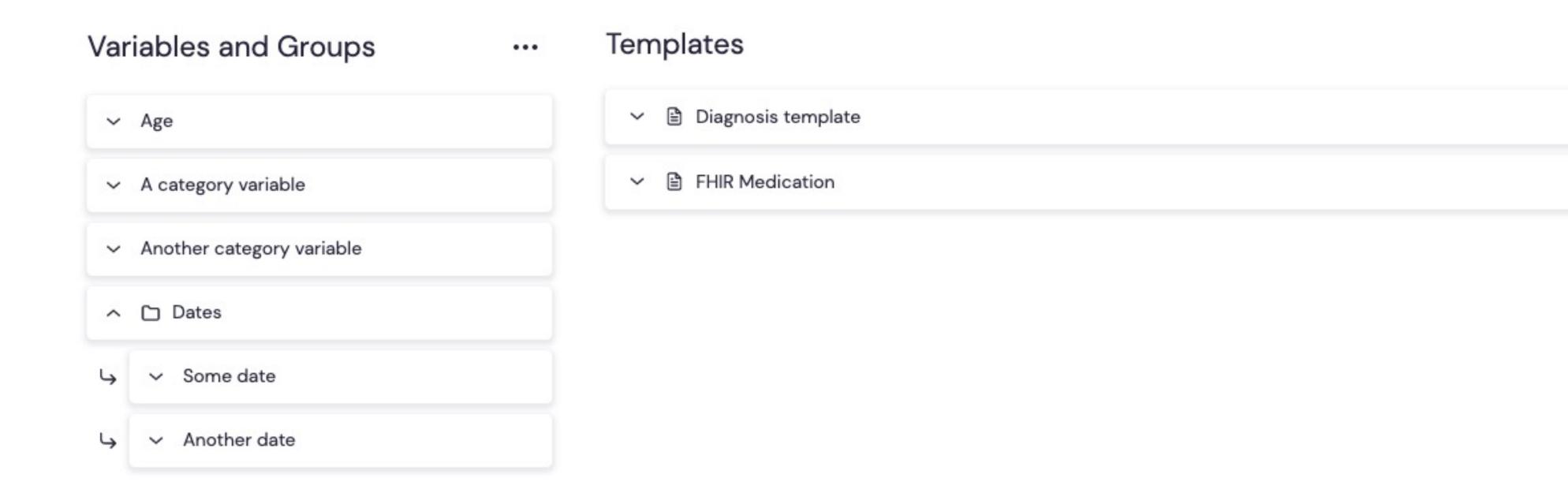
Standards as variable templates

FHIR example



15 variables

4 variables



•••

Templates

My templates Other templates

Variables and Groups

√ Age

A category variable

Another category variable

Some date

Another date

Templates

^	FHIR Medication				4 variables •
			Dropzone	Description	
		→←	Drag and drop varia	bles or groups of variables here.	
^					
^ →	☐ Medication✓ manufacturer				
→					
	✓ manufacturer				

•••

Other templates

My templates

Templates

Variables and Groups

A category variable

Another category variable

△ □ Dates

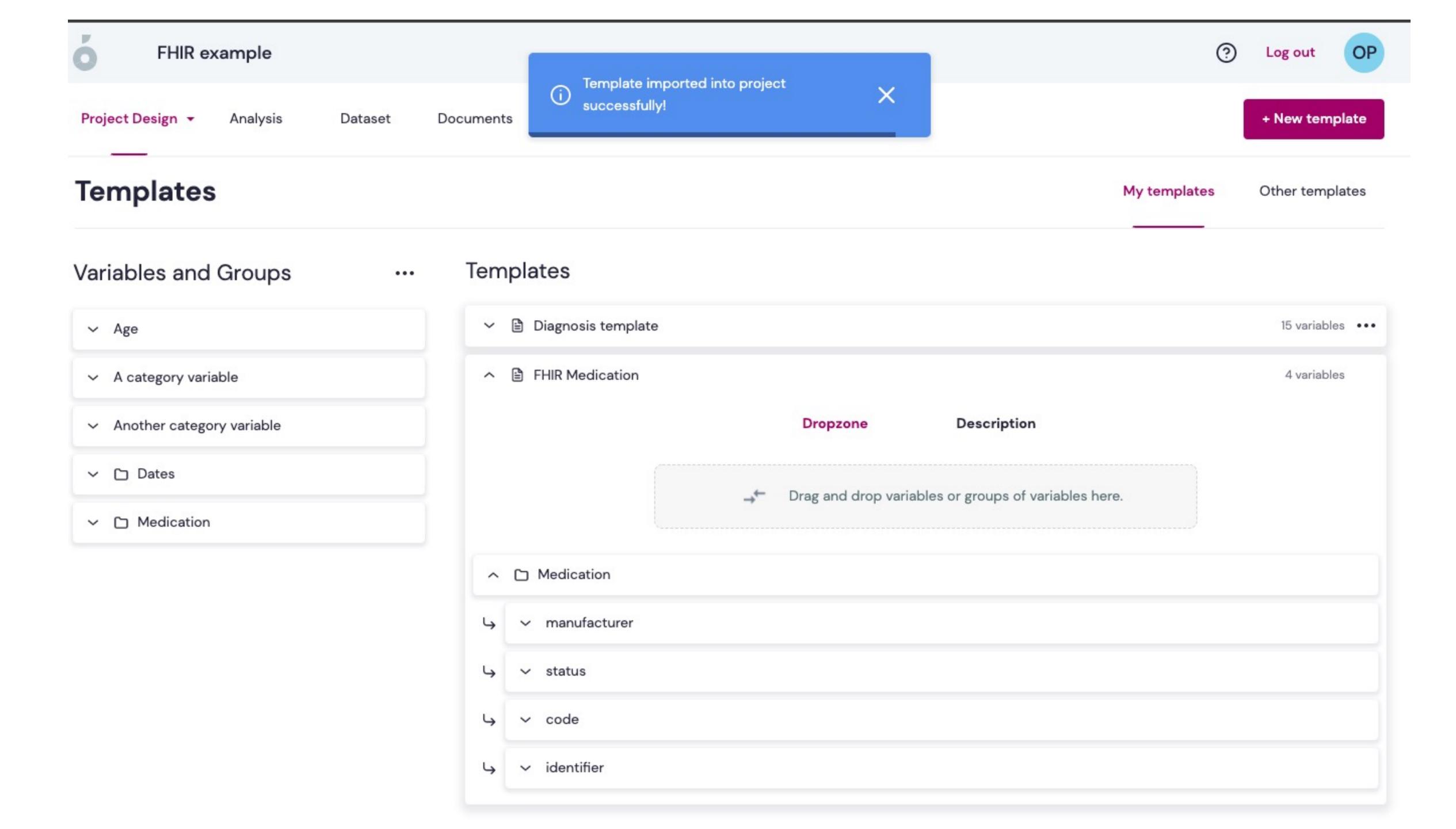
√ Age

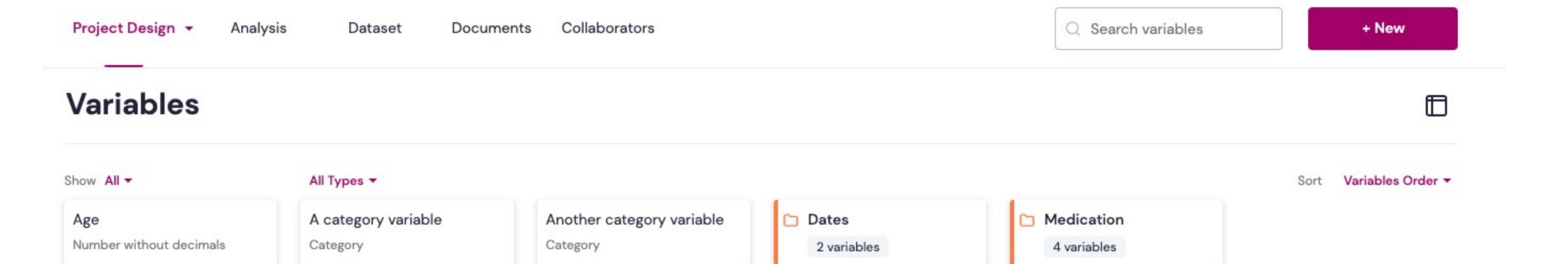
→ Some date

→ Another date

Templates

^	FHIR Medication					4 variables • •
			Dropzone	Description	Update Share	>
					Import	
		→← □	rag and drop varia	bles or groups of variables here.	Remove	
^						
^	☐ Medication✓ manufacturer					
→						
>	✓ manufacturer					

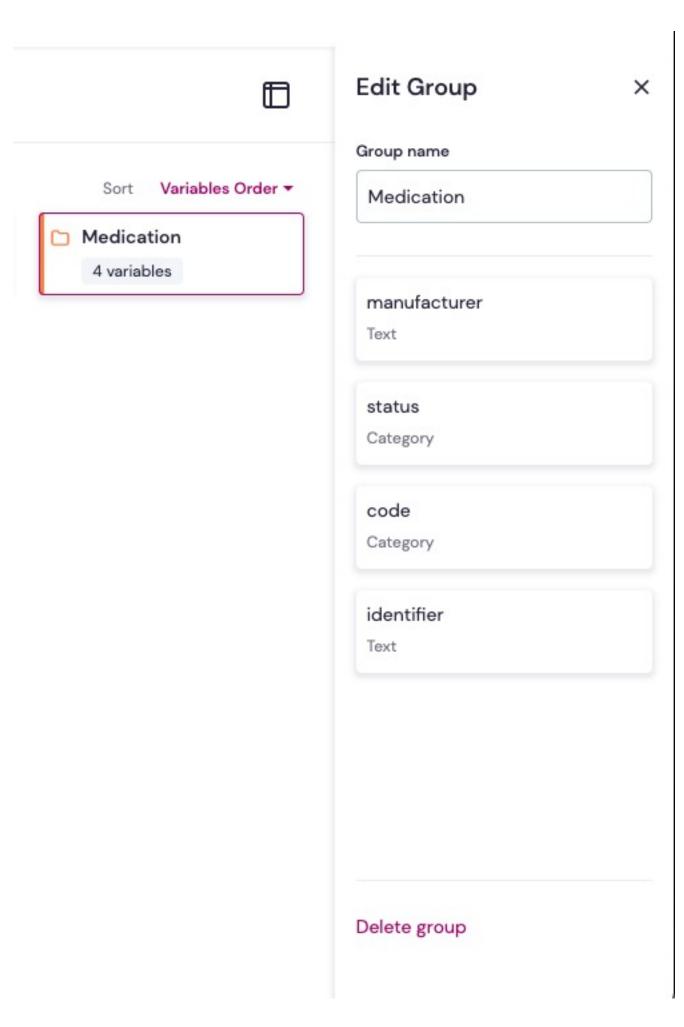




	Edit Group ×
Sort Variables Order ▼	Group name Medication
Medication 4 variables	manufacturer Text status Category code Category identifier Text
	Delete group

Edit Variable

General Details Calculation rules Variable name Description SNOMED CT Medication Code code Restricted Hide variable from users without access to view restricted data. Variable type Data type Entry Category \sim Mandatory Must be given a value when creating and updating an entry in the dataset. Fixed values Selectable values for this variable is limited to the values specified below. When off, new values can be added in the entry page. 261000 × 336001 × 363000 × 519005 × 585007 × Use enter to add Show as dropdown When this one is checked, the categories are selectable in a dropdown, instead of radio buttons. Update Variable Delete variable Cancel



Edit Variable

General Details Calculation rules Description Variable name No Description status Restricted Hide variable from users without access to view restricted data. Variable type Data type Entry Category ~ Mandatory Must be given a value when creating and updating an entry in the dataset. Fixed values Selectable values for this variable is limited to the values specified below. When off, new values can be added in the entry page. active X inactive X entered-in-error X Use enter to add Show as dropdown When this one is checked, the categories are selectable in a dropdown, instead of radio buttons.

Cancel

Delete variable

Update Variable

```
"observationData":
   "age":78,
   "acategoryvariable":"bbb",
   "anothercategoryvariable": "bbbb",
   "somedate":"2021-12-09",
   "anotherdate": "2021-12-05",
   "medication": {
     "manufacturer": "ABCDEFabcdef",
     "status": "active",
     "code":"336001",
     "identifier":" 24wg42534t234"
```

Roadmap - 2022

- Separate set of templates offered by Ledidi standards
 - FHIR variable set template
 - SNOMED category variable templates
- API customization
- Standards-based templates also within API customisation
 - Automatically taking advantage of adaptions through profiles, extensions etc
- Maybe
 - Wizards for using the right part of the standard in the right way