

SoilPulse - Aims

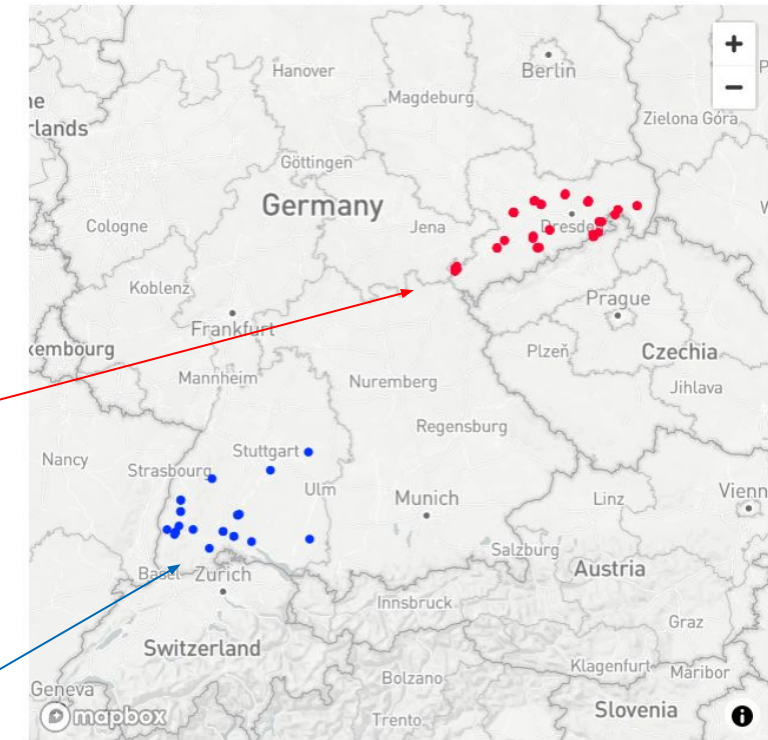
- Data harmonization assisted by a tool for metadata generation/enrichment and recognition of data set structure information (DSI).
- Allow for semi-automatic analysis through (meta-)data and DSI querying.

Make (existing) data sets easier reusable!

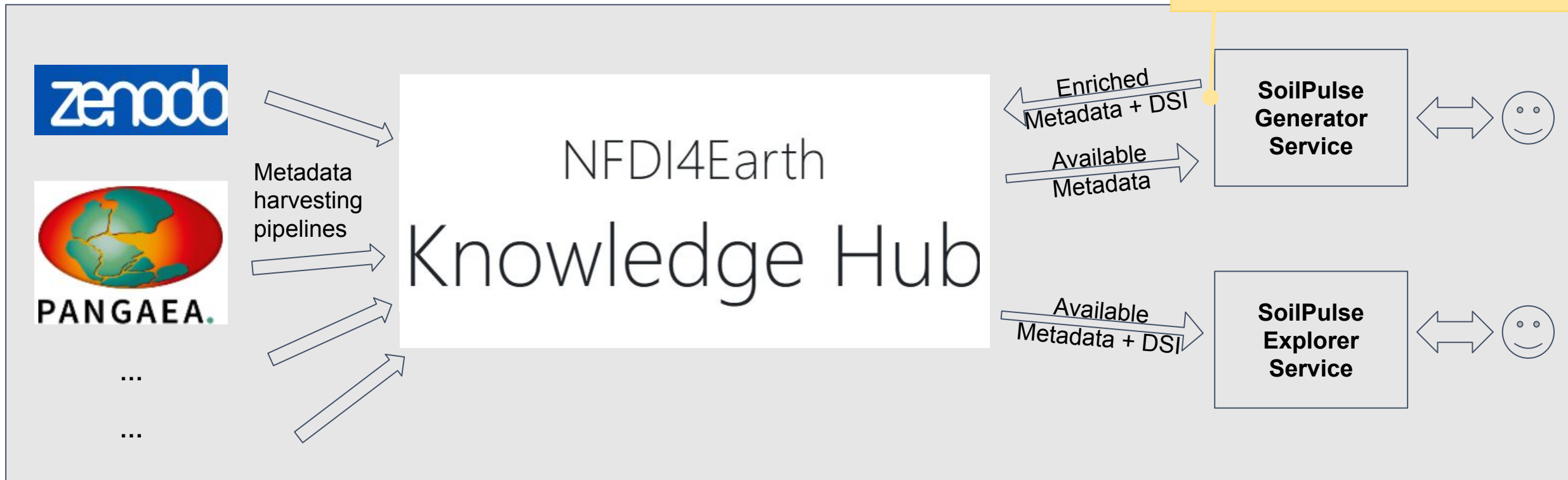
The image shows a file explorer window with a list of files including '4_soil_images', '.DS_Store', '0_README.txt', '1_site_data.txt', '2_event_data.txt', '3_experiment_time', 'lenz2022', 'comp_infls', 'database', 'database2', 'export', 'para_opti', '_output.yml', and '01-intro.Rmd'. Overlaid on this are two Excel spreadsheets. The first spreadsheet, titled 'Extreme_rainfall_experiment_data_06122019', has columns: plot, place, coordinates, date, and plotten. The second spreadsheet, titled '1_site_data', has columns: Site_name, Coordinates, Elevation, and Slope. Red and blue boxes highlight the 'coordinates' column in the first spreadsheet and the 'Coordinates' column in the second spreadsheet. Arrows from these boxes point to a map of Central Europe showing data points in Germany and Switzerland.

plot	place	coordinates	date	plotten
M1.1	1 Lippersdorf	13.2481 50.74392	01.09.1992	
M1.2	1 Lippersdorf	13.2481 50.74392	01.09.1992	
M1.3	1 Lippersdorf	13.2481 50.74392	01.09.1992	
M2.1	2 Lippersdorf	13.2311 50.7441	02.09.1992	
M2.2	2 Lippersdorf	13.2311 50.7441	03.09.1992	
M3.1	3 Lippersdorf	13.21965 50.73973	03.09.1992	
M3.2	3 Lippersdorf	13.21965 50.73973	04.09.1992	

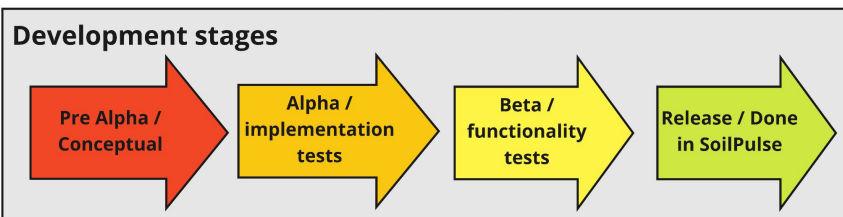
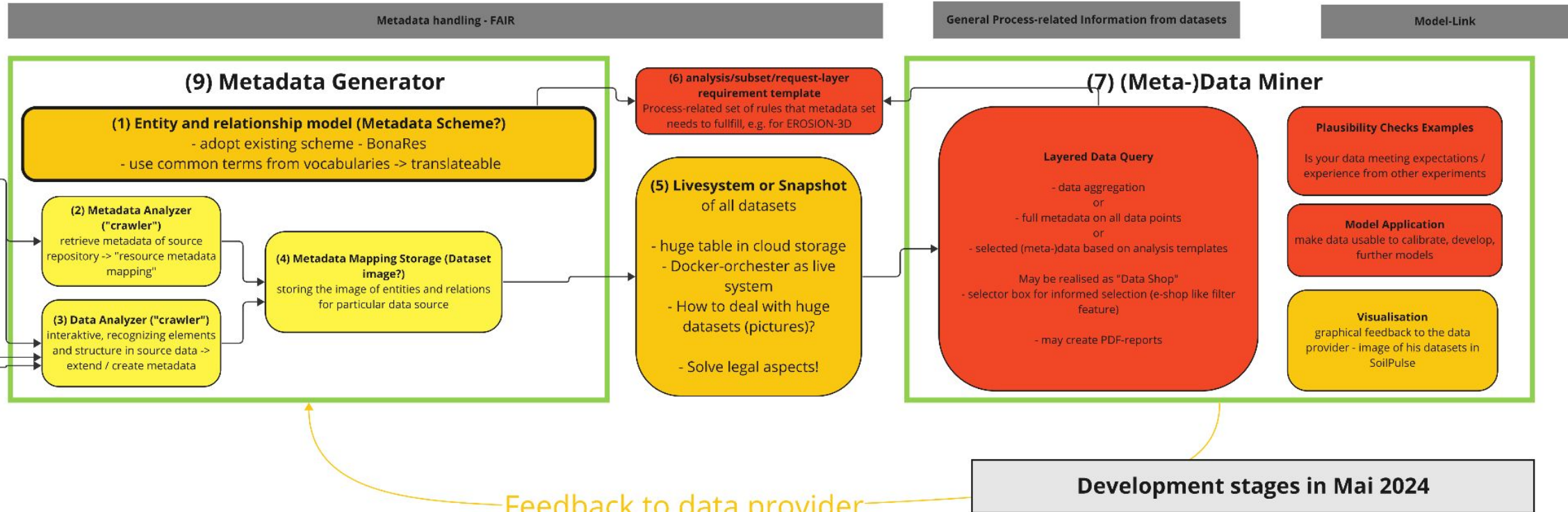
Site_name	Coordinates	Elevation	Slope
1 Schoenberg	N 47.953115 E 7.819822	371	
2 Wildtal	N 48.037743 E 7.885157	278	
3 Freiburg	N 47.976959 E 7.835794	303	
4 Freiburg	N 47.976460 E 7.835404	299	
5 Freiamt	N 48.182077 E 7.910890	431	
6 Freiamt	N 48.181774 E 7.910264	430	
7 Onfingen	N 48.002016 E 7.708751	228	



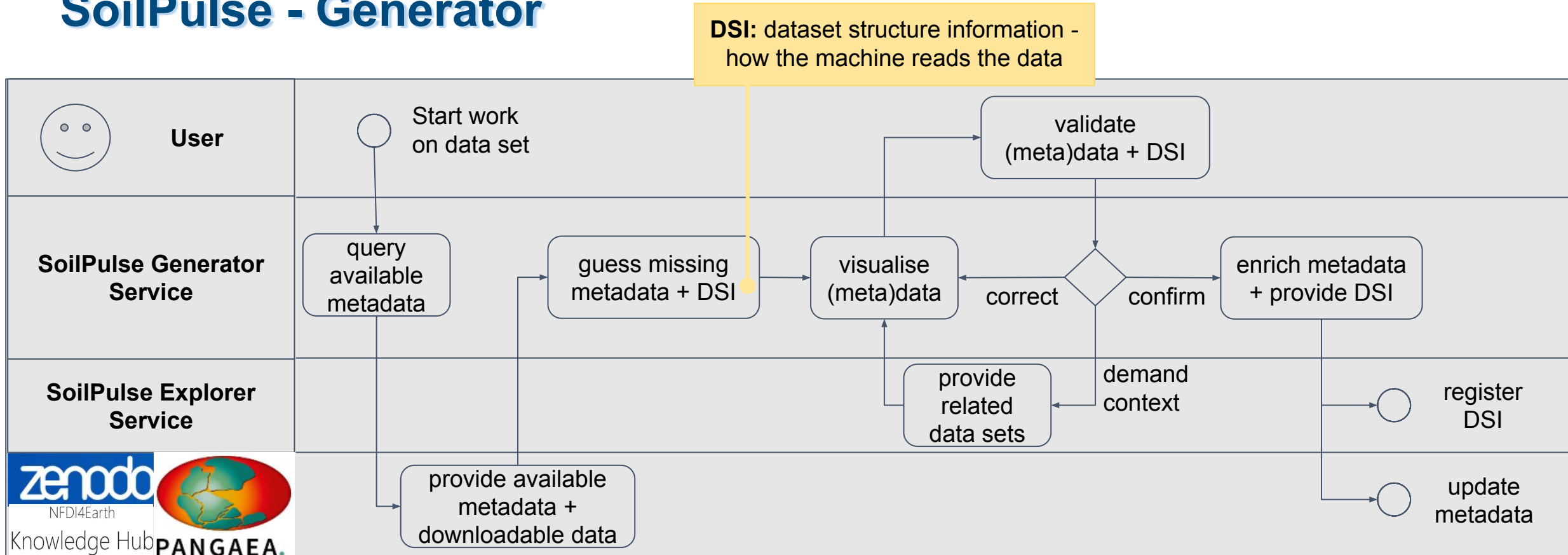
SoilPulse - Proposed integration in NFDI4Earth



SoilPulse - Development state



SoilPulse - Generator



SoilPulse - Explorer

