

Use Cases

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The Contextual Design Method

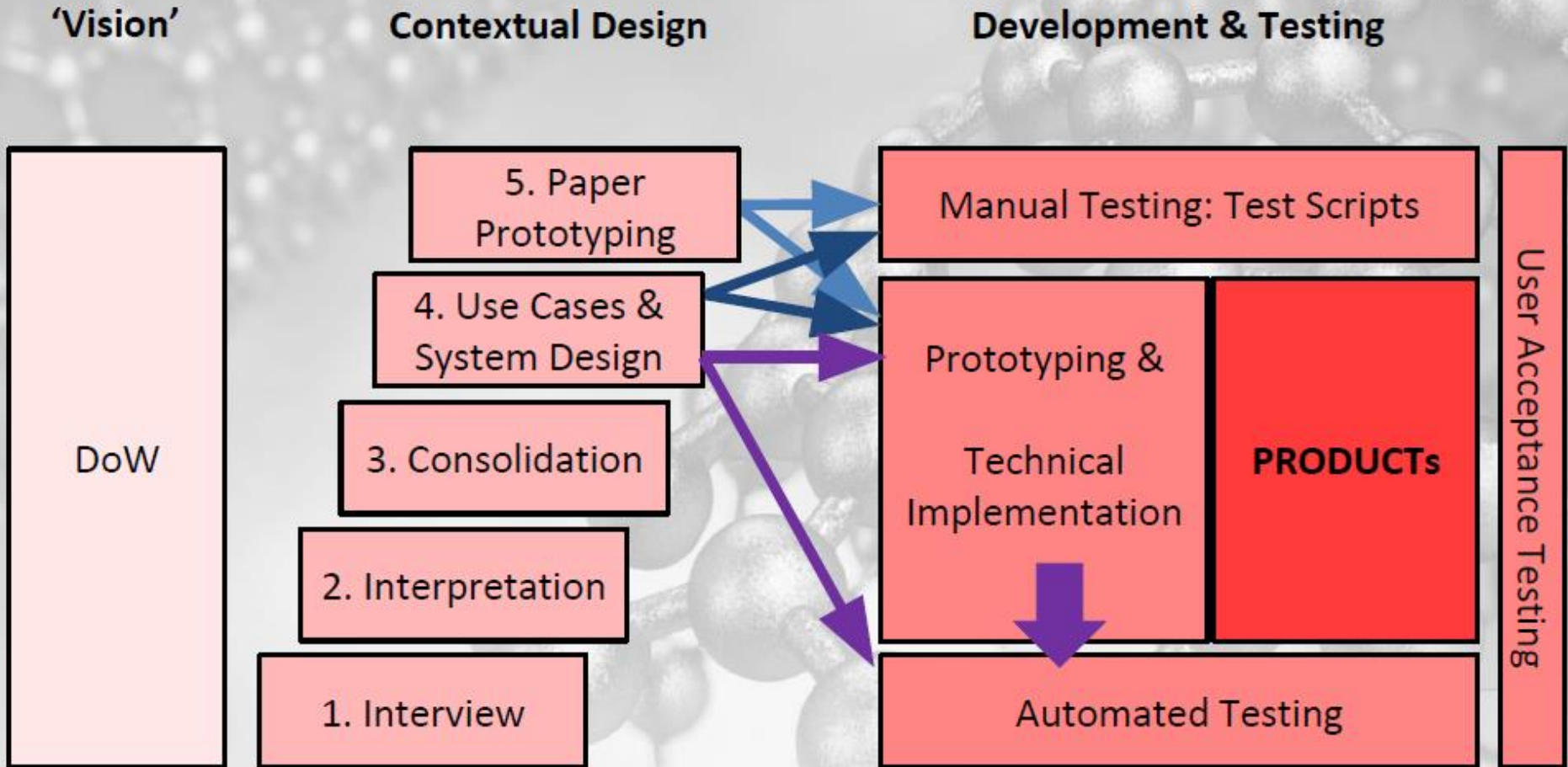


Figure by Markus Hegi, DouglasConnect.

Use cases

1. Write protocol
2. Design protocol
3. Rank paper
4. Upload protocol
5. Upload dataset
6. **Design study**
7. Search protocol
8. Search dataset
9. Download protocol
10. Download dataset
11. **Extract data from paper**
12. **Prepare data for modeling**
13. ISA-TAB creation
14. Build QSAR
15. Validate ISA-TAB
16. Validate protocol
17. Validate model
18. Find ISA-TAB template
19. Create template ISA-TAB
20. Create template (xls etc)
21. Map asset to pathway
22. Search for perturbed gene
23. **Search for all knowledge of nano material X**
24. Search for all knowledge of impurities
25. Calculate precaution for X
26. Copy open facts to generate it
27. Find/ link related data sources
28. Find data with similar patterns
29. Save my data in format X
30. Publish my data with my paper
31. Find people with similar X
32. Who else with protocol X
33. What URI to use for X
34. Give me all names for ontology term A
35. Create NSL dictionary
36. Harmonize Terminology
37. Win Nobel prize / Automatic Knowledge discovery tool
38. Find ontological contradiction
39. Comp aided ENM design
40. **Define safe-by design**
41. **Integrate data for risk assessment**
42. **Verify data against regular requirements**
43. Convert from one template to another, e.g from Modclust to OECD
44. Find producer of eNM C
45. Find QC data of eNM C
46. User alert for new info on D (gene, nano tag)
47. Find nano particles used in product
48. Format data to be used by C
49. **Map nano material found in DB 'A' to an entry in DB 'B'**
50. Find all DB's with data of Paper X
51. Write up tutorials on use cases
52. Register and get access (public)
53. Map existing used schemas to ontology IDs (e.g. OECD harmonized templates)
54. **Annotation of data with ontology IDs (e.g. experimental data in ISA-Tab)**
55. Experimental design

Use cases D1.2

Use cases	eNM	SAB member			Legend
		1	2	3	
05. Upload dataset	5	23	5	5	we totally agree, this is important
08. Search ENM	5	8.1.	55	54	we agree, this is important
33. What URI to use for X	5	13	6	29	SAB thinks, this is important - we should rethink about them
38. Find ontological contradiction	5	45	29	13	SAB thinks, this is not important
39. Comp aided ENM design	5	21	54	7	
54. Annotation of data with ontology IDs (e.g. experimental data in ISA-Tab)	5	49	8.1	20	
07. Search protocol	4.7	10	7	8.1.	
10. Download dataset	4.7	6	39	27	
50. Find all DB's with data of Paper X	4.5	55	23	23	
14. Build QSAR	4.5	49	27	8.2.	
04. Upload protocol	4.3	20	13	21	
13. ISA-TAB creation	4.3	8.2.	14	55	
27. Find/ link related data sources	4.3	39	17	2	
08. Search dataset	4.25	36	2	10	
21. Map nanomaterial to biological pathway	4	29	20	4	
23. Search for all knowledge of nanomaterial X	4		36	34	
29. Save my data in format X	4		53	14	
36. Harmonize Terminology	4		34	39	
52. Register and get access (public)	4		8.2	17	
17. Validate model	3.75		10	6	
06. Design study	3.5		21	33	
42. Verify data against regular requirements	3.5		38	53	
49. Map nano material found in DB 'A' to an entry in DB 'B'	3.5		45	36	
55. Experimental design	3.5		49	49	
20. Create template (xls etc)	3.3		44	38	
44. Find producer of eNM C	3.3		50	45	
45. Find QC data of eNM C	3.3		4	44	
53. Map existing used schemas to ontology IDs (e.g. OECD harmonized templates)	3		33	50	
02. Design protocol	2		52	52	
34. Give me all names for ontology term A	2				

members
 of eNM and SAB
 Prioritized use cases