

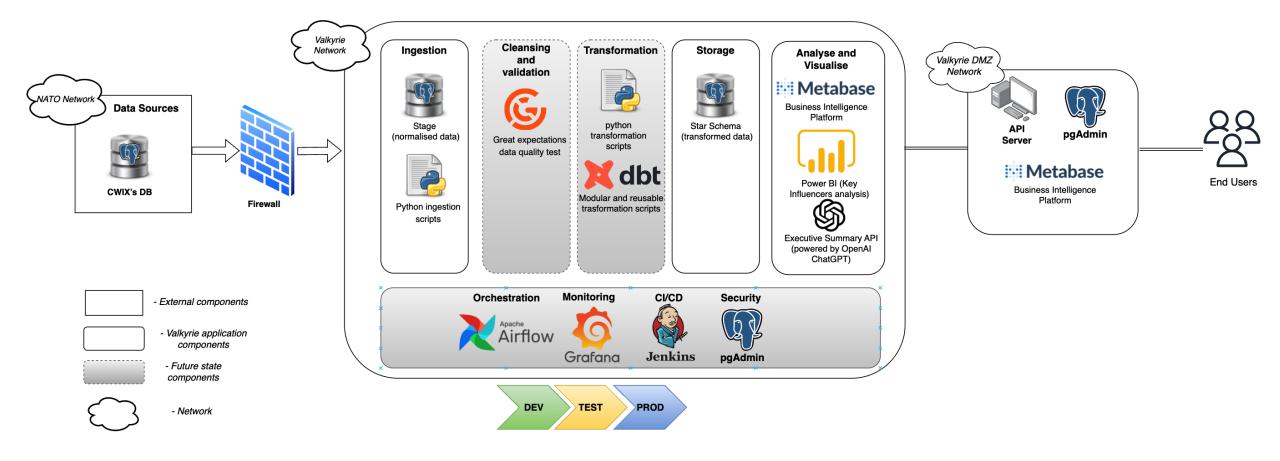




Architecture and Process



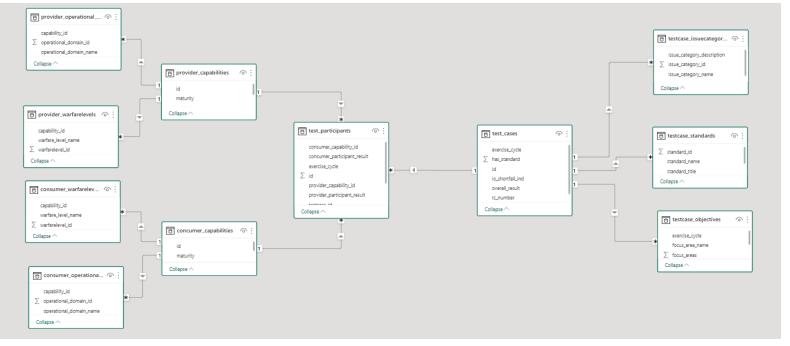
System Architecture Overview

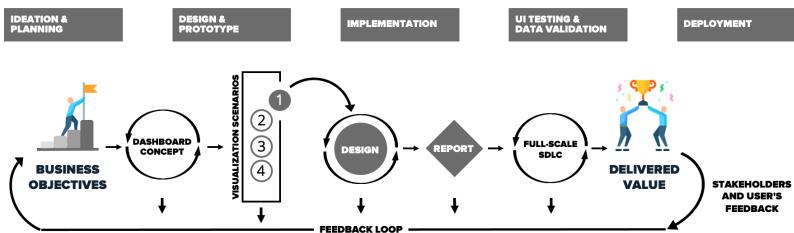






Data Warehouse Schema





BI Implementation Approach

SUCCESS FORMULA TO GET ACTIONABLE INSIGHTS
DATA PLATFORM (DATA MODEL) + REPORTING (UI+UX) + CULTURE + GOVERNANCE + MANAGEMENT

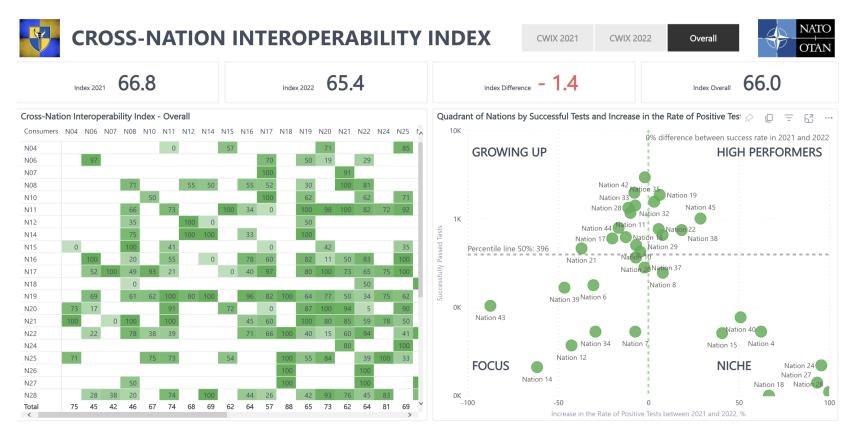




Key Performance Indicators



Cross-Nation Interoperability Index

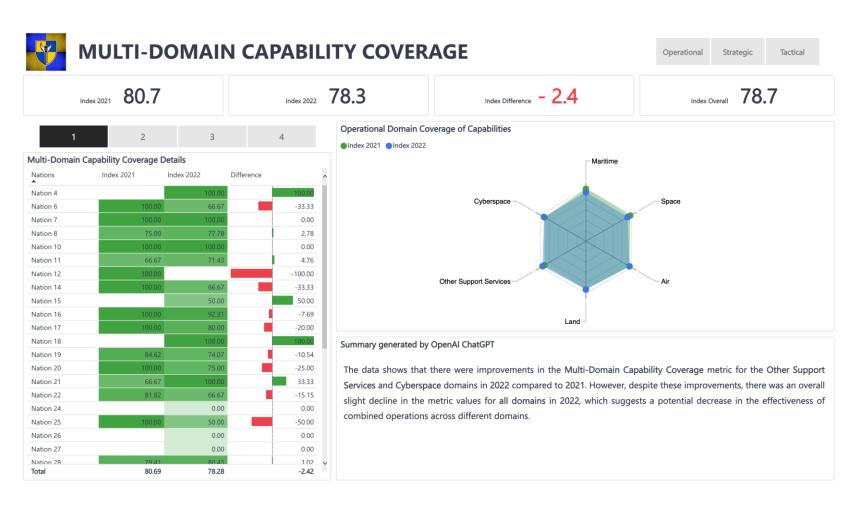


The Cross-Nation Interoperability Index is a way to measure **how well countries can work together** when they do tests. It considers how good the results are when one country does the tests, and another uses them. This can help us determine how to improve testing and make it easier for countries to work together.





Multi-Domain Capability Coverage



Capability Multi-Domain Coverage is a metric that shows the **percentage of testing in which capabilities are used in multiple operational domains**. It helps assess the ability of different countries to work together in diverse situations and identify areas for improvement.





NDPP Capability Utilization Index



The NDPP Capability Utilization Index measures how effectively nations **use NATO-recommended capabilities** during CWIX events, identifying areas for improvement, and maximizing available resources.

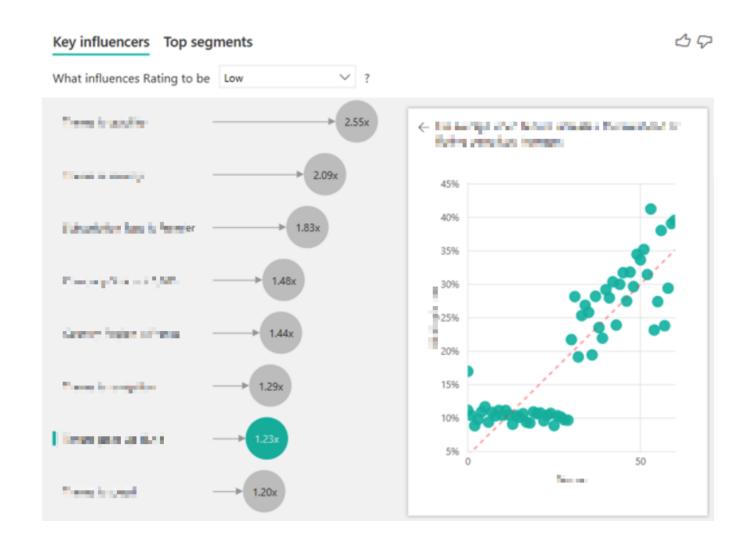




Improving Future CWIX Events



Key Influencers Report



The Key Influencers report provides insights on the Cross-Nation Interpretability Index, Multi-Domain Capability Coverage, and NDPP Capability Utilization Index, helping identify areas for improvement.





Nation Pairing Recommendation Report



NATIONAL PAIRING RECOMMENDATION INDEX

Overall Air Cyberspace > OTAI

National Pairing Recommendation Index □ = 62 N06 N07 28.6 62.8 58.4 45.5 50.0 66.6 45.5 48.3 48.3 69.5 59.7 0.0 18.5 51.7 58.8 47.7 0.0 62.3 61.8 75.0 0.0 49.6 31.6 64.2 69.1 91.2 60.8 68.2 67.9 72.1 50.0 61.0 59.6 70.0 69.7 63.9 0.0 49.2 38.4 62.2 62.6 37.9 53.9 28.8 51.0 52.9 72.4 64.7 41.4 56.2 51.3 29.7 66.7 33.9 65.0 N10 66.0 100.0 52.2 0.0 2.0 0.0 18.1 27.8 7.7 51.1 50.9 75.6 2.3 16.7 0.0 53.0 95. N11 N12 69.8 66.7 63.5 50.0 0.0 57.7 60.3 67.1 54.2 57.5 48.5 50.8 100.0 68.8 66.6 0.0 50.5 58.3 60.3 N14 N15 59,7 0.0 68,0 80,0 62,8 45,5 59,2 100,0 68,7 21,9 40,0 49,1 18,5 88,9 50,0 17,4 51,4 0.0 50,6 52,0 38,0 52,6 59,5 31,4 20,0 15,3 N16 N17 78.6 56.7 70.5 100.0 60.3 2.9 48.1 20.0 0.0 27.4 34.9 25.0 0.0 54.8 53.9 48.1 19.7 40.0 23.1 0.0 14.1 70.0 86.4 75.0 72.1 65 52.5 48.7 54.7 67.8 53.5 59.0 33.5 62.3 56.2 51.0 50.0 44.1 52.3 0.0 0.0 66.8 57.2 60.2 43.2 0.0 50.0 62.8 53.5 59.6 70.4 N18 4.3 17.6 0.0 35.6 22.6 50.0 65.5 25.0 37.9 48.7 49.9 56.3 37.1 25.0 11.7 0.0 18.4 41.7 53.3 12.5 N19 N20 54.9 39.7 49.6 0.0 20.0 15.0 40.7 22.2 50.0 54.1 53.6 4.3 20.0 63.4 21.3 49.0 0.0 16.7 0.0 33.3 69.6 N21 21.7 62.3 60.6 56.3 64.8 66.2 29.4 33.6 0.0 59.7 85.3 40.5 5.9 49.4 58.7 0.0 33.3 62.1 35.7 62.8 23.8 0.0 33.1 91.1 40.2 30.4 N22 60.6 62.7 50.1 62.6 57.7 20.0 64.9 48.1 0.0 47.1 46.5 0.0 60.6 62.8 0.0 0.0 56.3 65.3 59.0 60.7 71.6 54.6 N24 0.0 44.9 16.1 55.2 61.4 0.0 66.7 47.0 45.8 67.5 58.2 58.3 48.7 0.0 13.3 37.8 26.2 56.4 66.5 54.3 0.0 65.0 54.5 55.4 0.0 44.7 56.8 37.1 0.0 70.6 60.6 59.9 47.1 42.4 0.0 62.5 56.1 63.9 75.7 48.7 N26 0.0 64.9 57.4 58.9 0.0 52.1 56.9 0.0 42.9 71.1 61.2 60.7 49.9 44.7 0.0 64.6 56.3 60.5 76.3 N27 55.4 72.4 62.5 80.2 61.2 25.7 56.8 0.0 62.5 56.1 73.6 46.7 58.4 6.7 24.1 55.0 16.7 59.1 33.3 0.0 51.2 34.5 52.5 20.3 28.6 65.0 33.3 13.3 63.0 38.1 42.1 77.0 100.0 64.5 62.5 25.0 49.9 51.4 52.8 28.6 33.3 0.0 59.6 52.0 51.8 43.8 18.4 35.7 37.3 52.0 17.8 65.6 72.3 0.0 46.9 13.3 N29 N32 19.5 60.3 30.8 24.1 0.0 58.4 52.2 52.9 14.6 33.8 36.4 8.1 0.0 0.0 33.3 1.2 0.0 N33

The Nation Pairing Recommendation Report suggests which **countries should conduct testing together** for better coverage and efficiency while avoiding repeated testing.





Failed Test Cases Analysis Report



FAILED TEST CASES ANALYSIS

d	Number	Title	Exercise Cycle	Has Standard	Overall Result	Test Participants	
1197	TC-00929	******	CWIX 2021	1	Interoperability Issue	5	
6405	TC-04199	******	CWIX 2021	1	Interoperability Issue	5	
12106	TC-07032	******	CWIX 2021	0	Interoperability Issue	5	
12654	TC-20006	******	CWIX 2022	1	Interoperability Issue	5	
13535	TC-20391	******	CWIX 2022	0	Interoperability Issue	5	
13737	TC-20594	******	CWIX 2022	0	Interoperability Issue	5	
1271	TC-01018	******	CWIX 2021	0	Interoperability Issue	4	
1272	TC-01020	******	CWIX 2021	0	Interoperability Issue	4	
1274	TC-01022	******	CWIX 2021	0	Interoperability Issue	4	
13539	TC-20395	***********	CWIX 2022	0	Interoperability Issue	4	
24324	TC-13237	******	CWIX 2021	1	Interoperability Issue	3	
24332	TC-13245	***********	CWIX 2021	0	Interoperability Issue	3	
30892	TC-62863	******	CWIX 2022	0	Interoperability Issue	3	
46	TC-00058	***********	CWIX 2021	0	Interoperability Issue	2	
1680	TC-00871	******	CWIX 2022	1	Interoperability Issue	2	
1910	TC-01118	******	CWIX 2022	1	Interoperability Issue	2	
1972	TC-01197	*******	CWIX 2022	0	Interoperability Issue	2	
5160	TC-03311	******	CWIX 2021	0	Limited Success	2	
6020	TC-03712	******	CWIX 2021	0	Interoperability Issue	2	
6897	TC-03803	******	CWIX 2022	0	Interoperability Issue	2	
7585	TC-04052	******	CWIX 2022	0	Interoperability Issue	2	
7591	TC-04058	******	CWIX 2022	1	Interoperability Issue	2	
2161	TC 0/050	******	CW/IV 2021	0	Intereperability Issue	571	

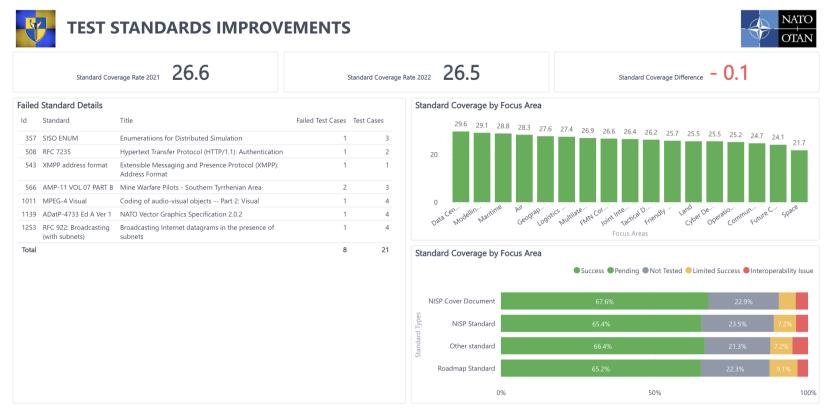


The Failed Test Cases Analysis Report evaluates test cases that have consistently failed over time, identifying which cases should be reconsidered or recreated to improve overall testing effectiveness.





Test Standards Improvement Report



The Test Standards Improvement Report identifies which **standards caused issues during testing and need improvement**. It helps to ensure that tests are more effective and efficient, leading to better overall results.





Publicly Available Dashboard





http://metabase.valkyrie.org.ua/public/dashboard/47a3ce1b-752f-40ef-b40c-ba3fd6fc6fa7





Any Questions?





