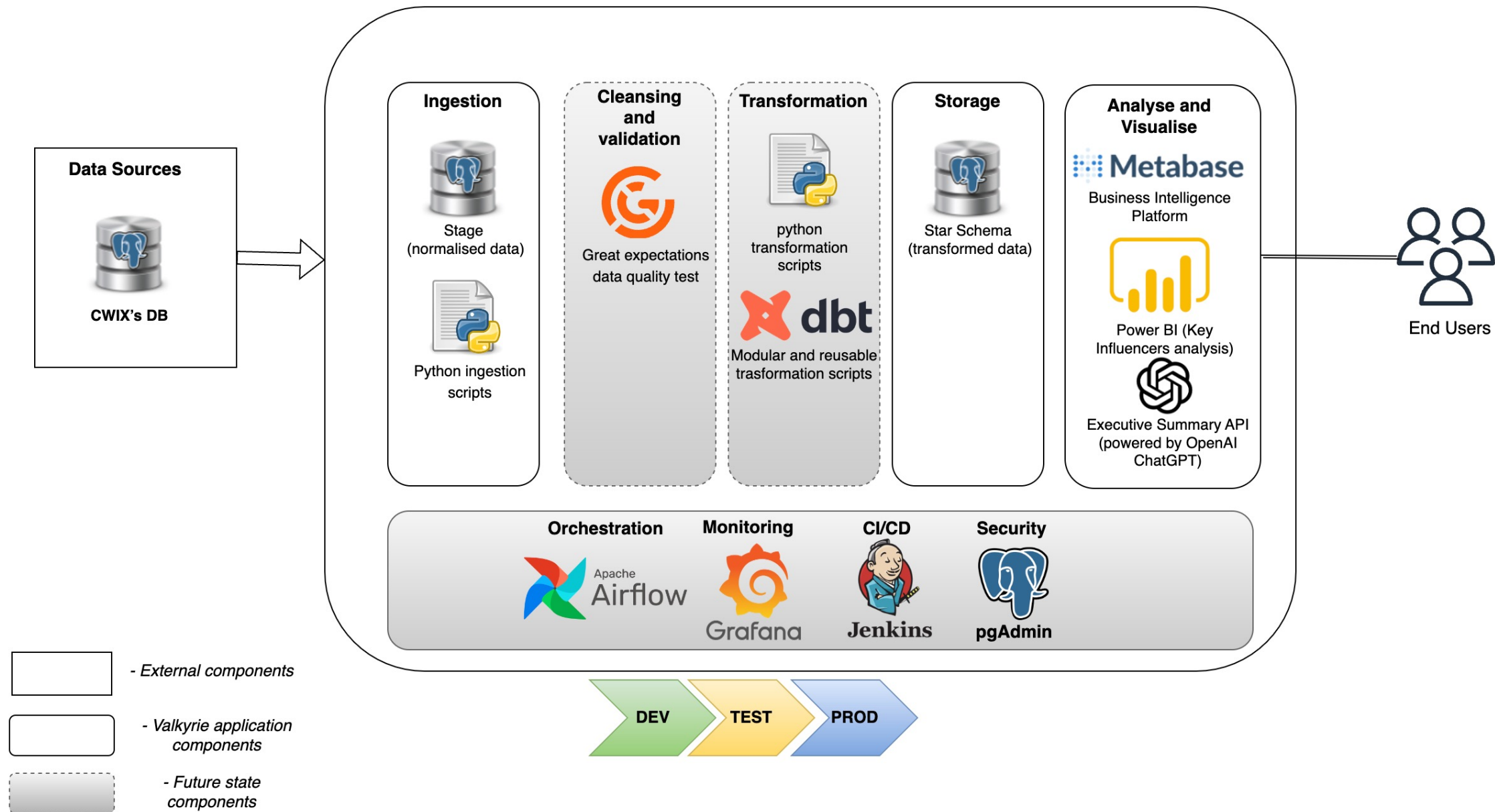# Architecture and process

System Architecture Overview

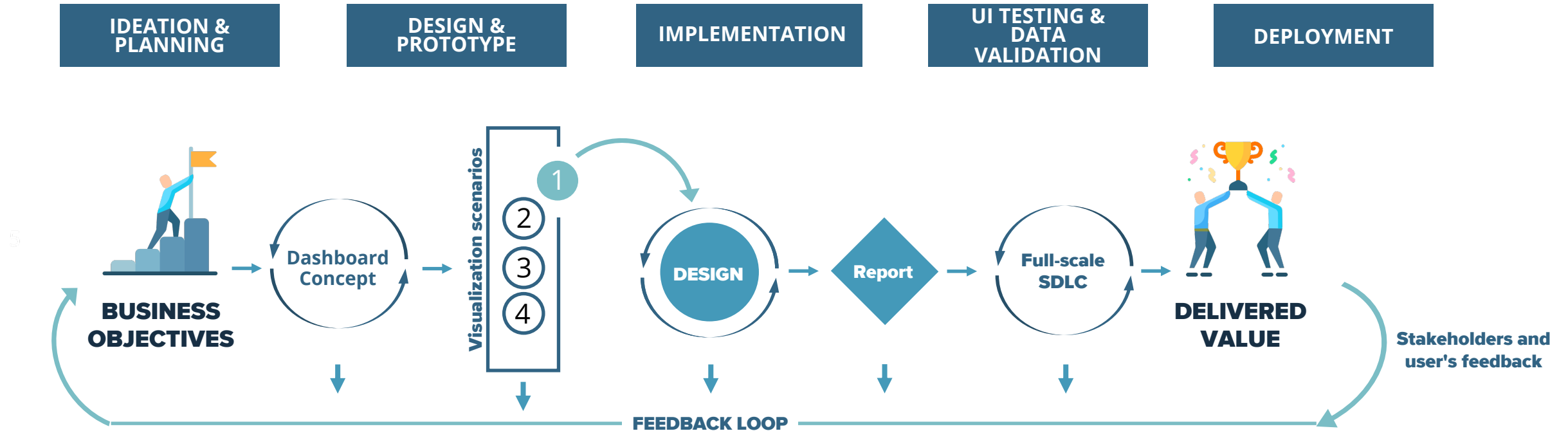# Data Warehouse Schema
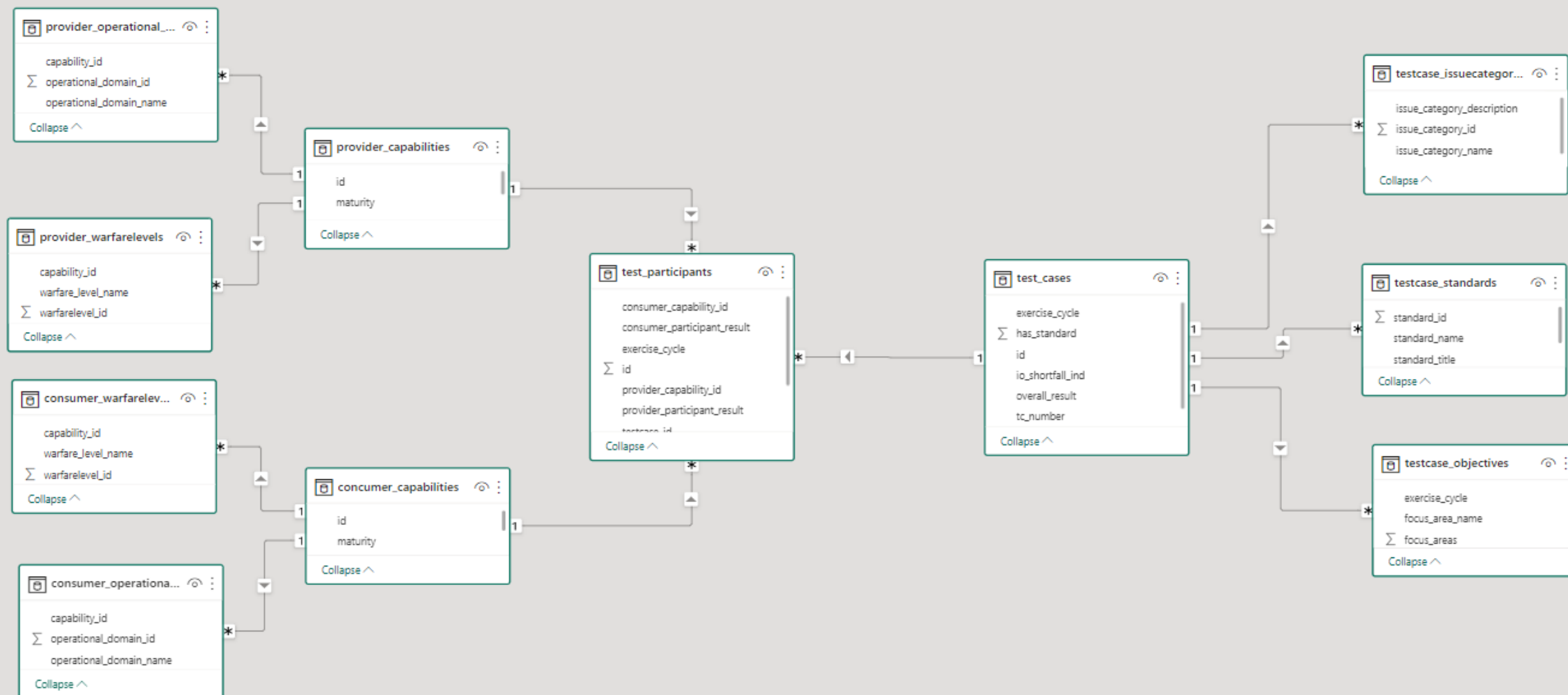
BI IMPLEMENTATION APPROACH

IDEATION & PLANNING

DESIGN & PROTOTYPE

IMPLEMENTATION

UI TESTING & DATA VALIDATION

DEPLOYMENT

Visualization scenarios

1
2
3
4

BUSINESS OBJECTIVES

Dashboard Concept

DESIGN

Report

Full-scale SDLC

DELIVERED VALUE
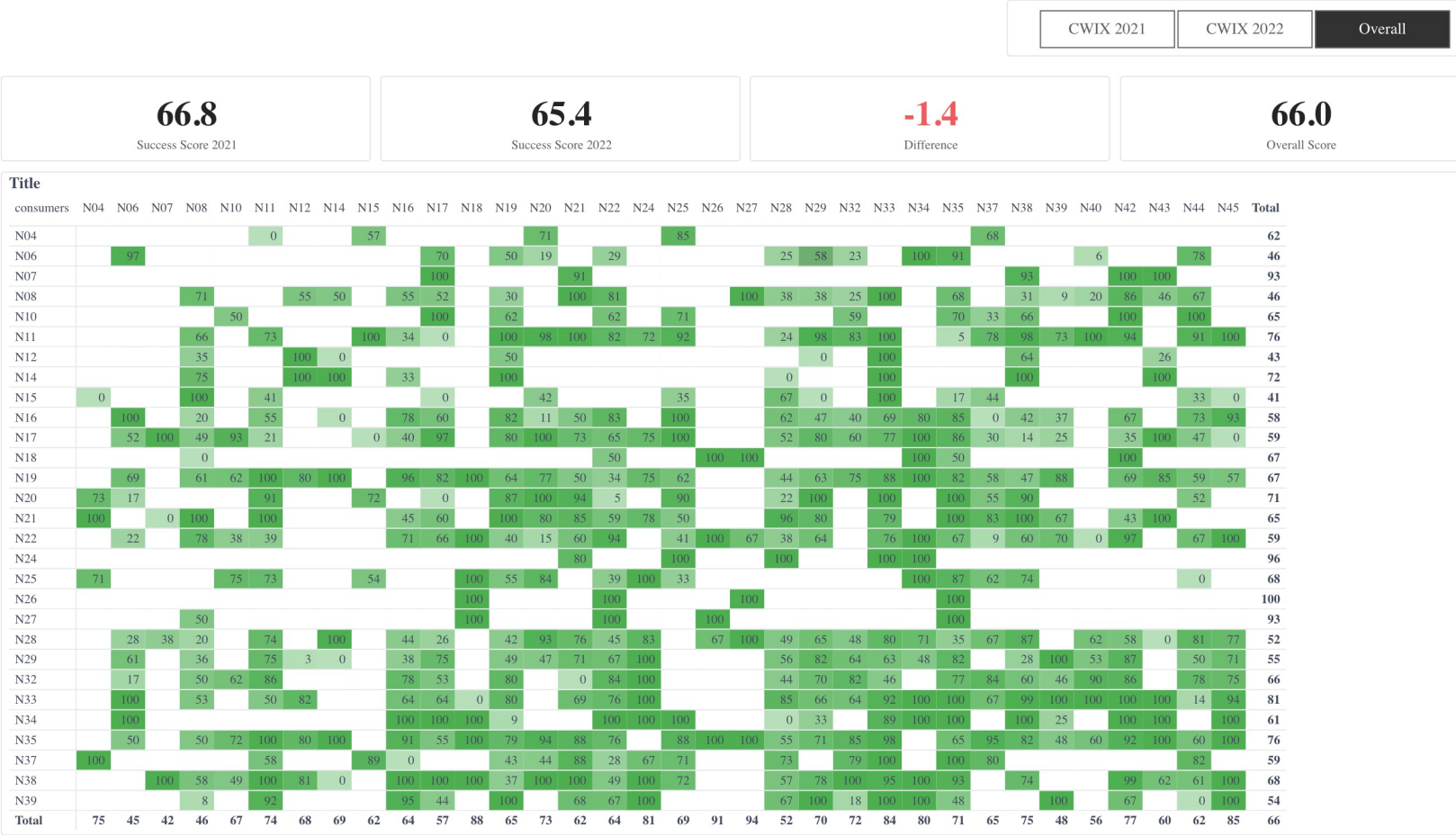
Stakeholders and user's feedback

FEEDBACK LOOP

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

Key Performance Indicators

Cross-Nation Interpretability Index

CWIX 2021 | CWIX 2022 | **Overall**

66.8	**65.4**	**-1.4**	**66.0**
Success Score 2021	Success Score 2022	Difference	Overall Score

Title

consumers	N04	N06	N07	N08	N10	N11	N12	N14	N15	N16	N17	N18	N19	N20	N21	N22	N24	N25	N26	N27	N28	N29	N32	N33	N34	N35	N37	N38	N39	N40	N42	N43	N44	N45	Total
N04						0			57					71				85							68										62
N06		97					70		50	19		29				25	58	23		100	91					6				100	100		78		46
N07										100			91								93														93
N08		71		55	50		55	52		30		100	81			100	38	38	25	100		68		31	9	20	86	46	67						46
N10			50				100		62			62		71				59				70	33	66			100		100						65
N11			66		73			100	34	0		100	98	100	82	72	92			24	98	83	100		5	78	98	73	100	94		91	100		76
N12		35		100	0					50						0		100			64				26										43
N14		75		100	100		33		100							0		100				100				100									72
N15	0		100	41				0		42			35			67	0	100		17	44					100			33	0			41
N16		100	20	55	0		78	60		82	11	50	83		100		62	47	40	69	80	85	0	42	37		67		73	93		58
N17		52	100	49	93	21		0	40	97		80	100	73	65	75	100		52	80	60	77	100	86	30	14	25		35	100	47	0		59
N18			0									50						100	100				100	50			100					67
N19		69		61	62	100	80	100		96	82	100	64	77	50	34	75	62		44	63	75	88	100	82	58	47	88		69	85	59	57	67
N20	73	17			91				72		0		87	100	94	5		90		22	100		100	55	90			52		71
N21	100		0	100		100				45	60		100	80	85	59	78	50		96	80		79		100	83	100	67		43	100				65
N22		22		78	38	39			71	66	100	40	15	60	94		41	100	67	38	64		76	100	67	9	60	70	0	97		67	100	59
N24													80			100			100		100	100							96
N25	71			75	73				54			100	55	84		39	100	33			100	87	62	74			0			68
N26												100			100			100			100								100
N27			50									100			100		100				100								93
N28		28	38	20		74		100		44	26		42	93	76	45	83		67	100	49	65	48	80	71	35	67	87		62	58	0	81	77	52
N29		61		36		75	3	0		38	75		49	47	71	67	100		56	82	64	63	48	82		28	100	53	87		50	71	55
N32		17		50	62	86			78	53		80	0	84	100		44	70	82	46		77	84	60	46	90	86		78	75	66
N33		100		53		50	82		64	64	0	80		69	76	100		85	66	64	92	100	100	67	99	100	100	100	100	14	94	81
N34		100					100	100	100	9		100	100	100		0	33		89	100	100		100	25		100	100			100	61
N35		50		50	72	100	80	100		91	55	100	79	94	88	76		88	100	100	55	71	85	98		65	95	82	48	60	92	100	60	100	76
N37	100			58			89		0		43	44	88	28	67	71		73		79	100		100	80			82			59
N38		100	58	49	100	81	0		100	100	100	37	100	100	49	100	72		57	78	100	95	100	93		74		99	62	61	100	68
N39		8		92				95	44		100		68	67	100		67	100	18	100	100	48		100		67		0	100	54
Total	75	45	42	46	67	74	68	69	62	64	57	88	65	73	62	64	81	69	91	94	52	70	72	84	80	71	65	75	48	56	77	60	62	85	66

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

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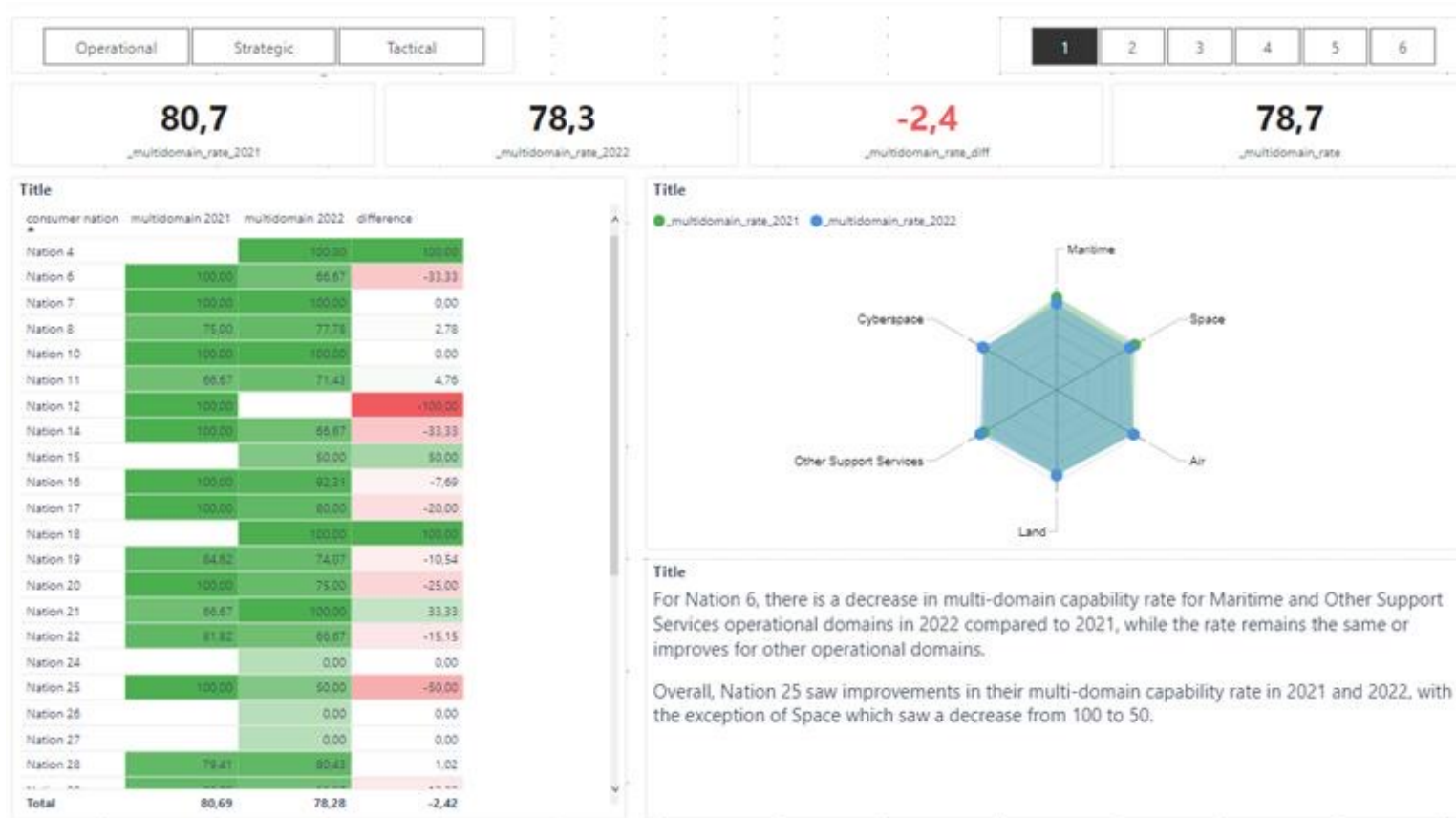
Capability Multi-Domain Coverage is a metric that shows the **percentage of testing in which capabilities are used in multiple operational domains**. It helps to assess the ability of different countries to work together in diverse situations and identify areas for improvement.

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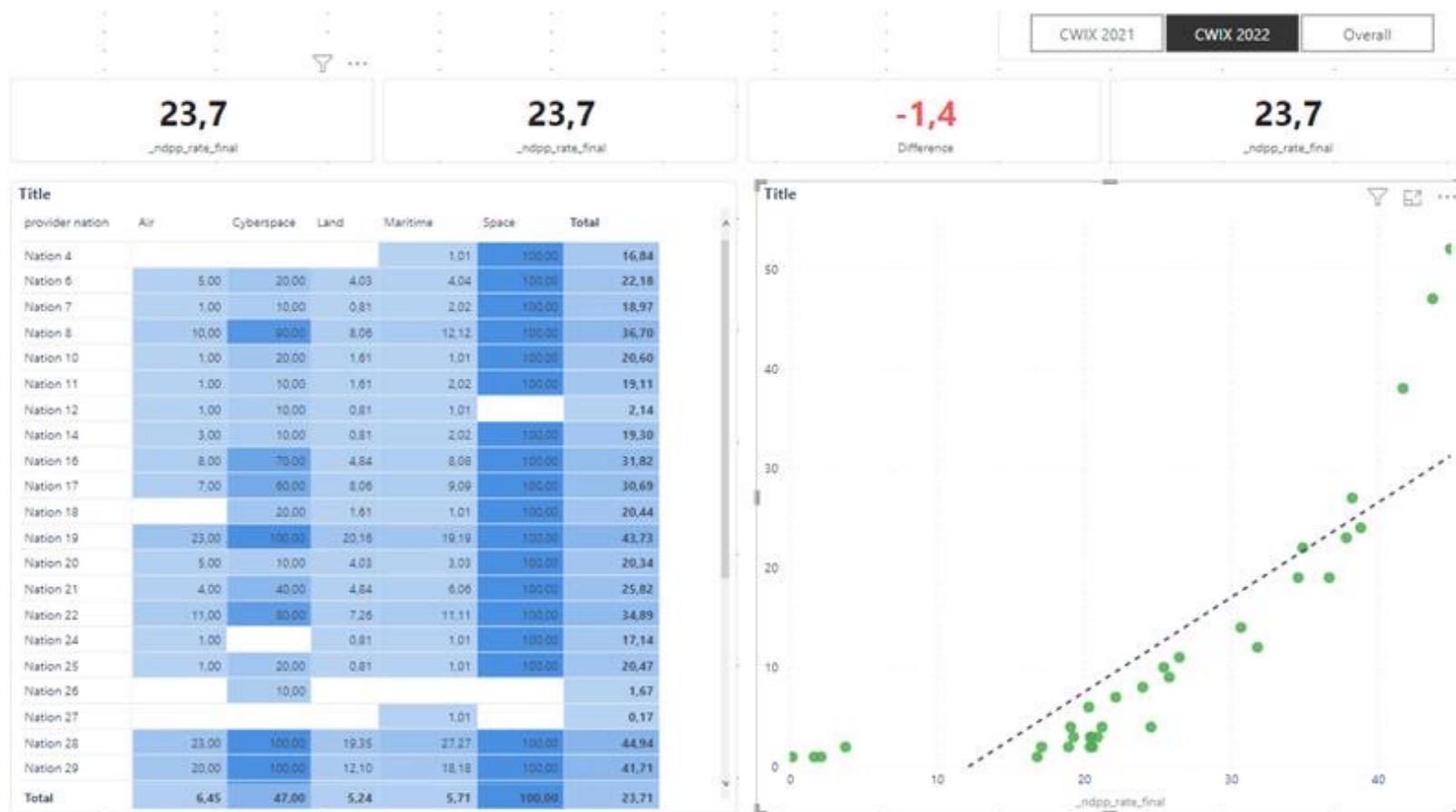
The NDPP Capability Utilization Index measures how effectively nations **use NATO-recommended capabilities** during CWIX events, identifying areas for improvement and maximizing available resources.

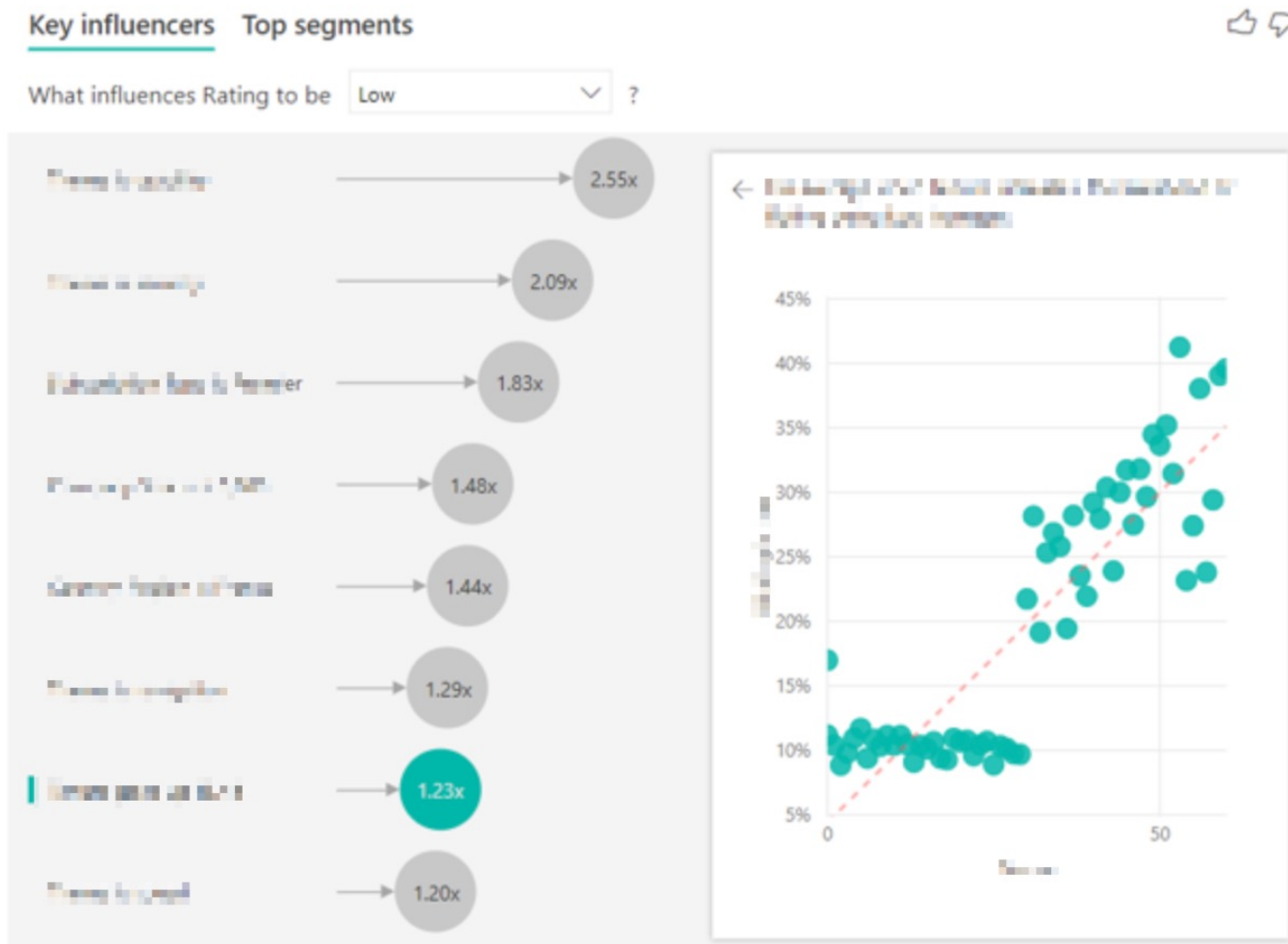# Improving Future CWIX Events

Nation Page (Details)

[TBD]

The report provides a visual overview of each nation's capabilities, test cases, and test partners in CWIX events. This allows for **easy analysis and decision-making on the overall success** of participation in CWIX, viewable per-nation basis.

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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.**

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Test Standards Improvement Report

[TBD]

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.

Failed Test Cases Analysis Report

[TBD]

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.

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Nation Pairing Recommendation Report

[TBD]

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

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PUBLICLY AVAILABLE DASHBOARD

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

Q&A