



RIIO-T3

Investment Planner

A digital transformation of a manual process that allows users to manage their day-to-day tasks more efficiently.

Role: UX/UI Designer



asset
intelligence

| nationalgrid

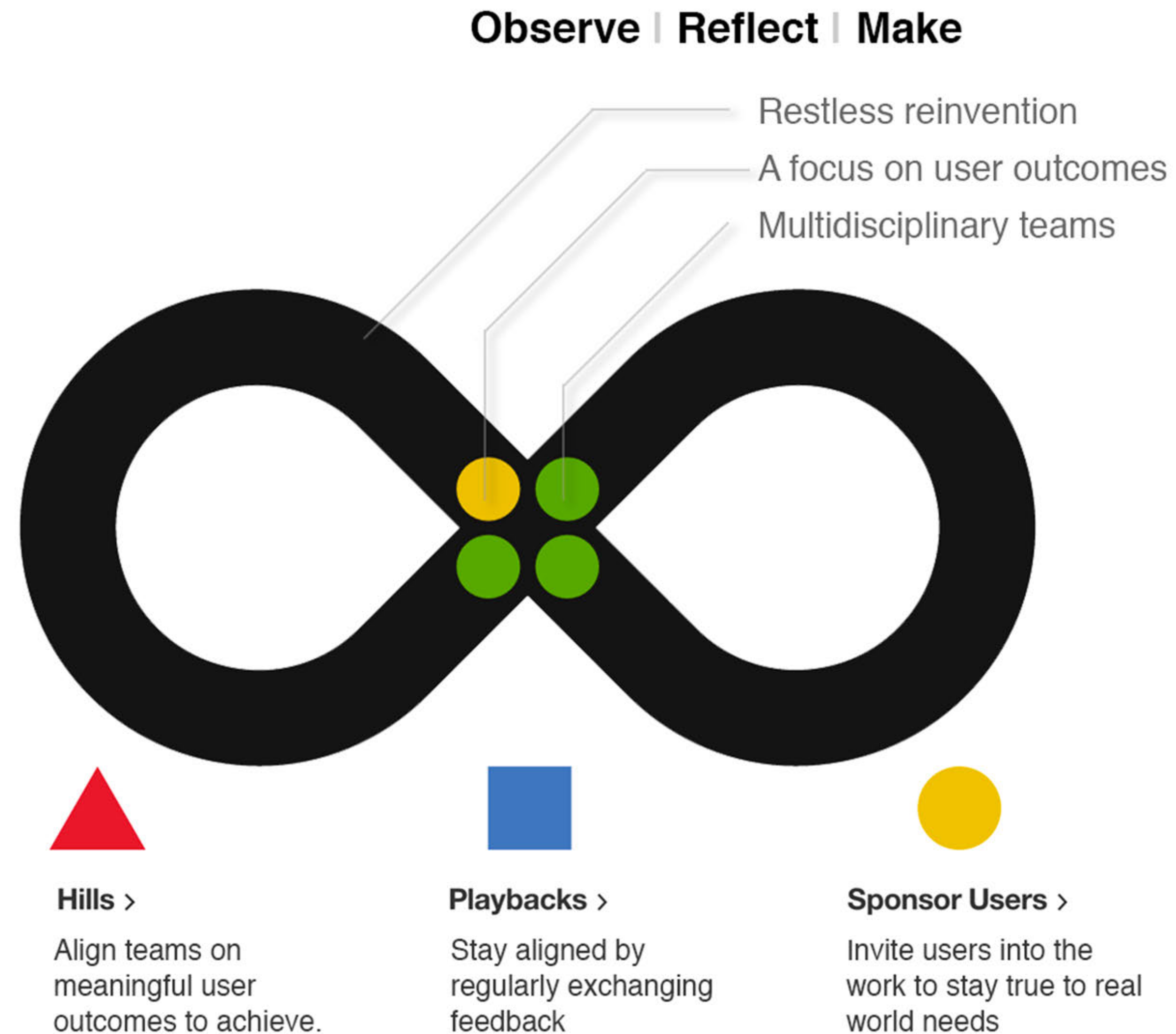
Overview

- A manual process that is digitally transformed for helping employees to effectively do their daily duties.
- National Grid users can find and understand the health of assets helping to make the right decision for the network, creating and managing Portfolios.
- One platform for aggregating all Plan and proposal related details, managing them, and having a provision to compare one against each other to reach an informed decision on which proposal to carry forward for the plan.
- An overview of projected estimates and analysis based on site/circuit to create the best possible plan.
- The site/circuit-specific analysis and forecasted estimations are considered to create the most practical plan.



Design Process

IBM Design Thinking is the framework that allows to apply design thinking to understand consumers and build empathy with the speed and scale that industry demands.



Observations

Ability to compare Investment on different attributes and parameters. This will help inform the investment decision making process as to which Investments should go into the investment proposals.

The stakeholders to see a wholistic picture of the proposed Network changes and identify items such as duplication across Delivery Vehicles / Schemes etc.


Interviews


- Discuss the unique needs and pain points with Stakeholders, managers.
- Investigate the root causes of the identified product issues.


Primary Research


To fully understand user behaviours, procedures, and difficulties observe and engage with users in their natural environments.

Pain Points

- **Limited Visualisation**

Spreadsheets are primarily designed for data and numerical information, making it challenging to visually represent the product. This limitation can hinder the ability to convey complex design concepts or user experiences effectively.
- **Lack of Collaboration**

Spreadsheets may not be the best platform for collaborative design work. Design is a multidisciplinary effort involving various stakeholders, and relying solely on spreadsheets can make it difficult for team members to contribute and share their insights in a real-time, interactive manner.
- **Inefficient Iteration**

Design often involves multiple iterations and changes based on feedback. Making frequent updates to a spreadsheet may become cumbersome and time-consuming, slowing down the design iteration process and potentially leading to errors.
- **Challenges in Scaling**

As the complexity of the design project increases, managing and organizing information in a spreadsheet becomes more challenging. The lack of specialized design tools may impede the scalability of the design process.

The task of manually maintaining, updating, and examining the spreadsheets was challenging for National Grid users, and this process was designed to provide a digital product. Since the manual method has taken more time and most times it was tough to accomplish on time.

← Site Strategies

Select Filters

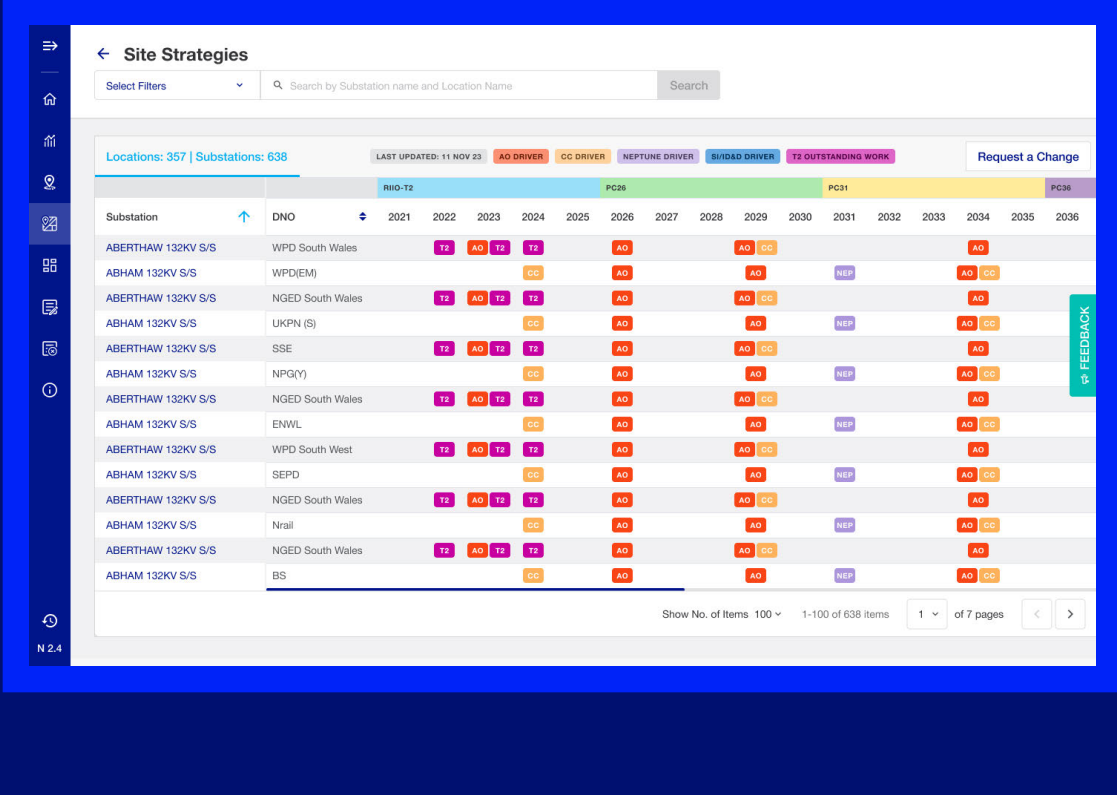
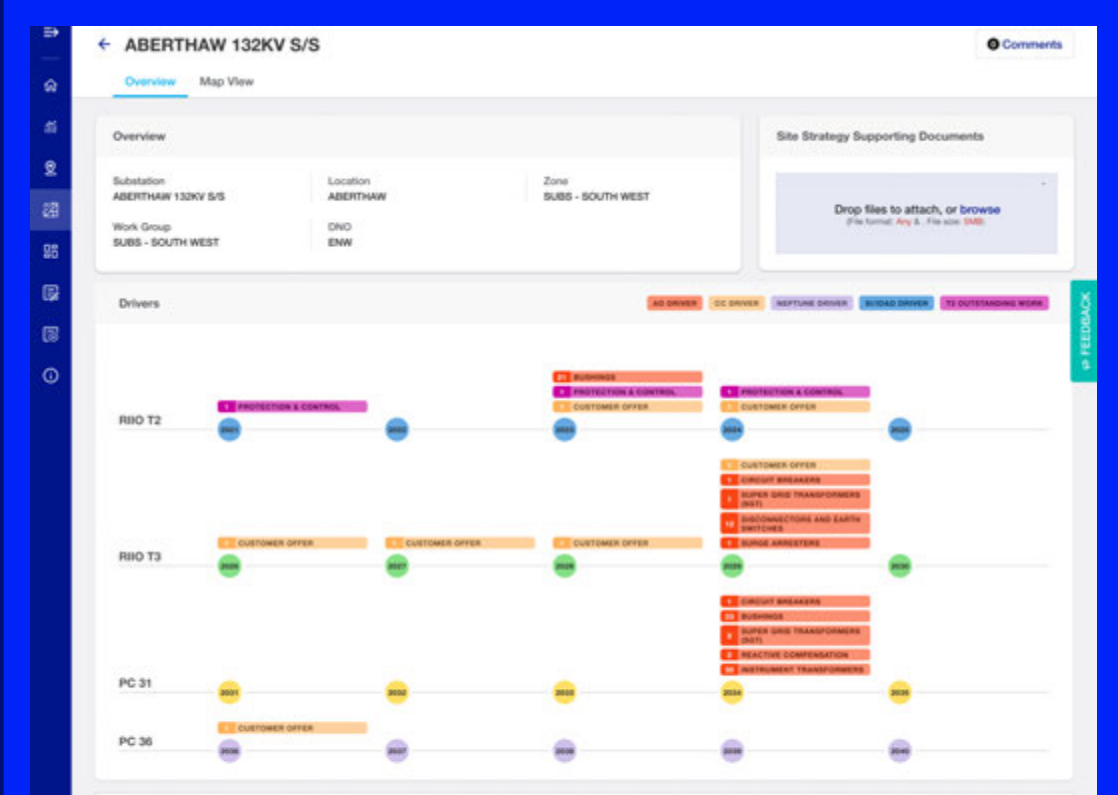
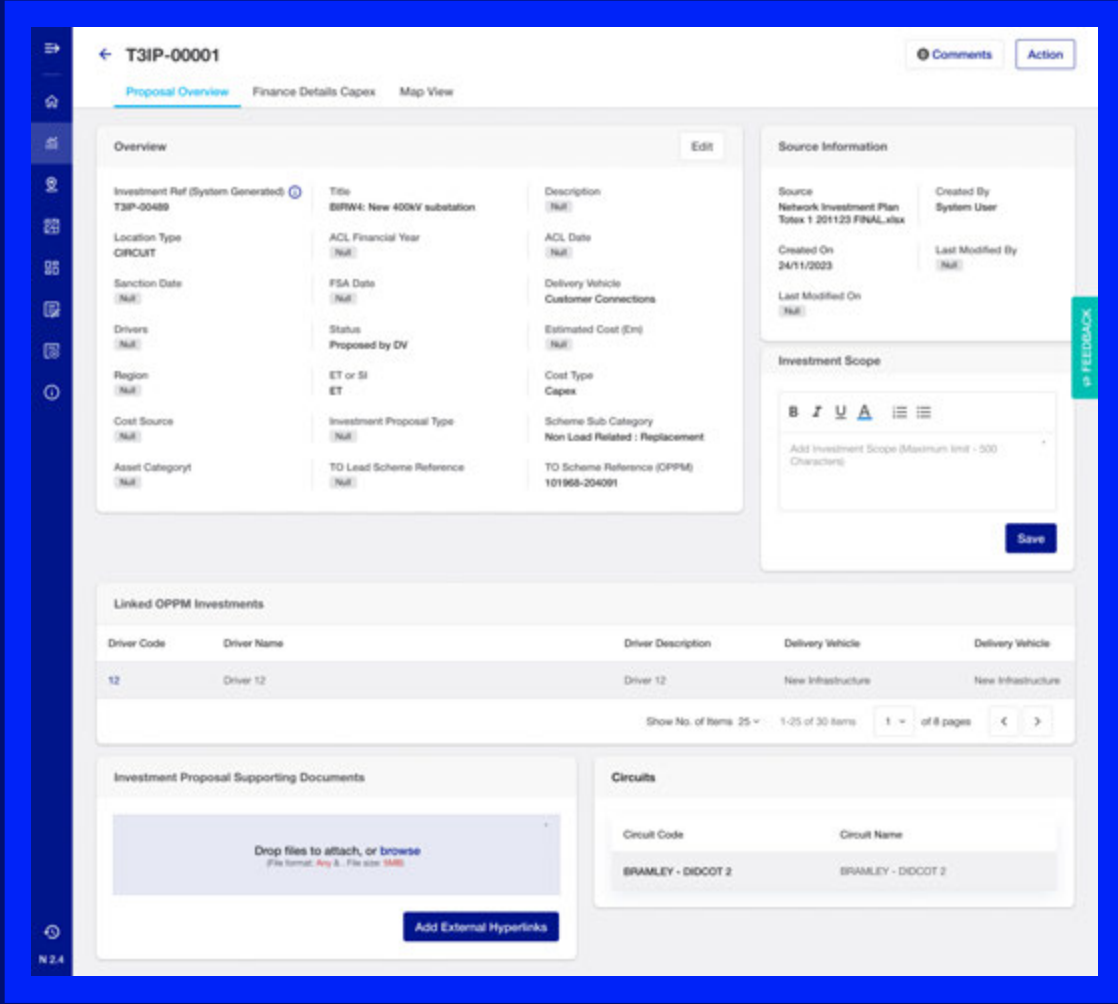
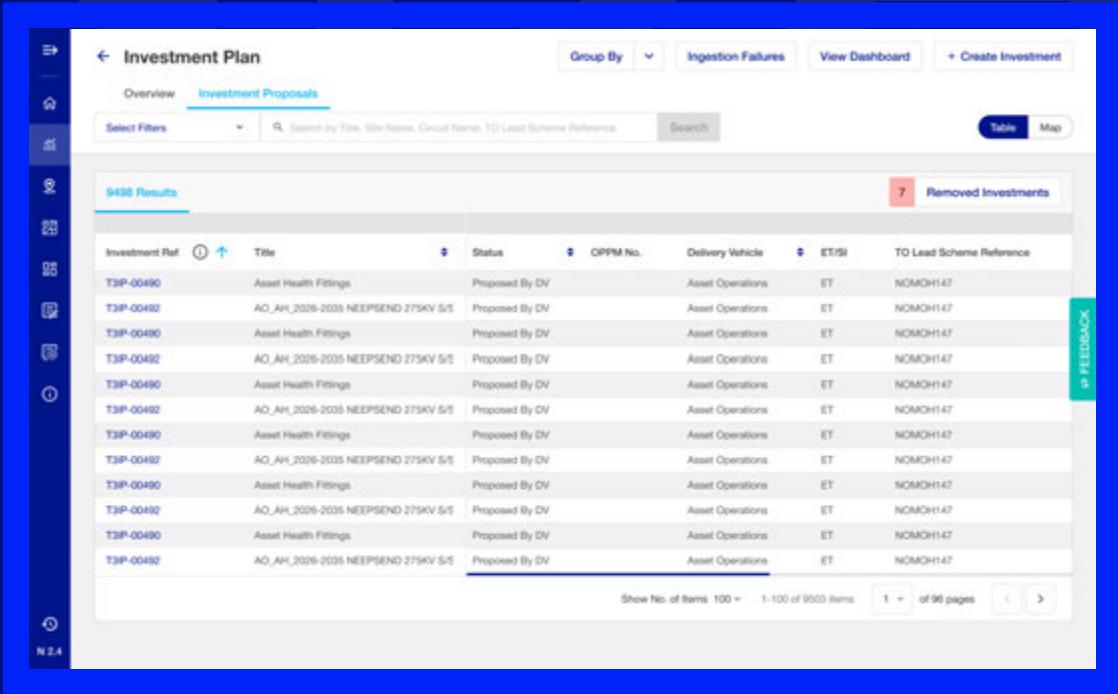
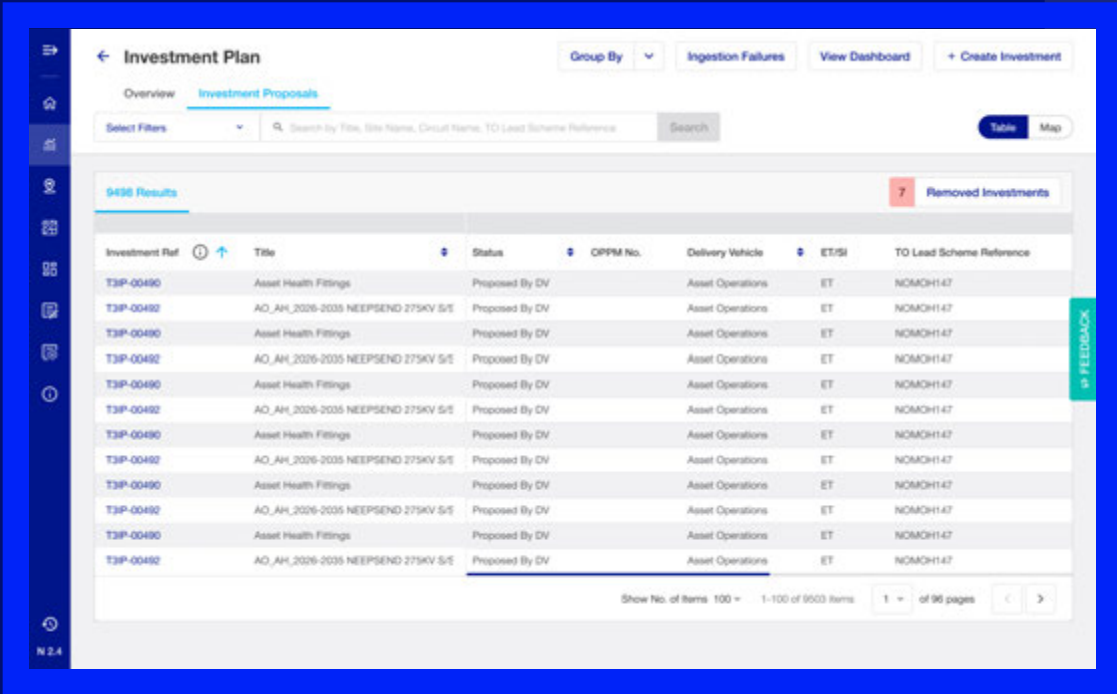
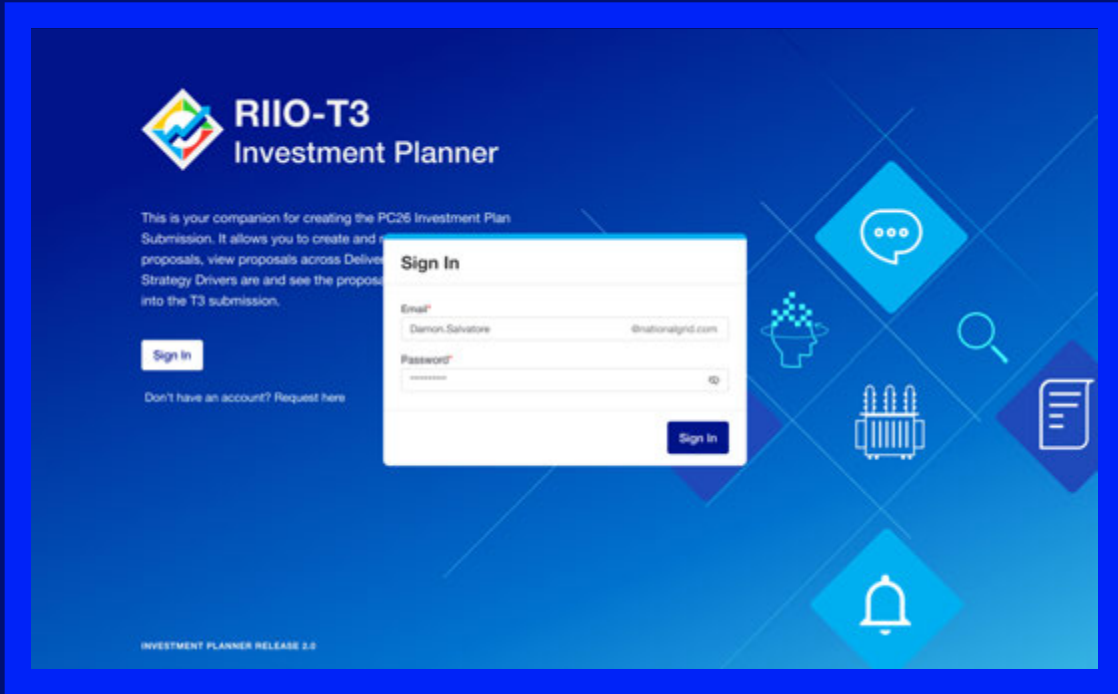
🔍 Search by Substation name and Location Name

Search

This tool allows employees to create and manage investment proposals, view site strategy drivers, review proposals across delivery vehicles, and see the plans that are carried over into the RIIO-T3 submission.

Locations: 357 Substations: 638		LAST UPDATED: 11 NOV 23		AO DRIVER		CC DRIVER		NEPTUNE DRIVER		SI/ID&D DRIVER		T2 OUTSTANDING WORK		Reques			
		RIIO-T2						PC26						PC31			
Substation	DNO	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
ABERTHAW 132KV S/S	WPD South Wales		T2	AO	T2	T2	AO			AO	CC				AO		
ABHAM 132KV S/S	WPD(EM)				CC		AO			AO		NEP			AO	CC	
ABERTHAW 132KV S/S	NGED South Wales		T2	AO	T2	T2	AO			AO	CC				AO		
ABHAM 132KV S/S	UKPN (S)				CC		AO			AO		NEP			AO	CC	
ABERTHAW 132KV S/S	SSE		T2	AO	T2	T2	AO			AO	CC				AO		
ABHAM 132KV S/S	NPG(Y)				CC		AO			AO		NEP			AO	CC	
ABERTHAW 132KV S/S	NGED South Wales		T2	AO	T2	T2	AO			AO	CC				AO		
ABHAM 132KV S/S	ENWI				CC		AO			AO		NEP			AO	CC	

Final Designs



The figure displays a series of 10 charts, each illustrating a different data visualization technique or interaction. The charts are organized into three main sections: Defects Costs, Maintenance Costs, and Defects to Maintenance Ratio.

Defects Costs

Header Title

Legend: Auxiliary (Blue), Buildings & Civils (Orange), Cable Systems (Green), Site Care (Yellow), Site Protection (Red), HV Plant (Purple).

2014

Grand Total Costs: £20000

Costs (£K): £40K, £30K, £20K, £10K, £0K

Year: 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023

Maintenance Costs

Header Title

Grand Total Costs: £150000K

Costs (£K): £40K, £30K, £20K, £10K, £0K

Year: 2013, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023

Defects to Maintenance Ratio

Header Title

Grand Total Ratio: 0.48

Ratio: £40K, £30K, £20K, £10K, £0K

Year: 2013, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023

Delivery Vehicle

Header Title

Primary

Costs (£M): £12,000,000, £10,000,000, £8,000,000, £6,000,000, £4,000,000, £2,000,000, £0

Investment Count: 8000, 6000, 4000, 2000, 0

Delivery Vehicle: Estimated Costs (£m), Total Count, Ratio, Legend 7, Legend 8, Legend 9

Drivers

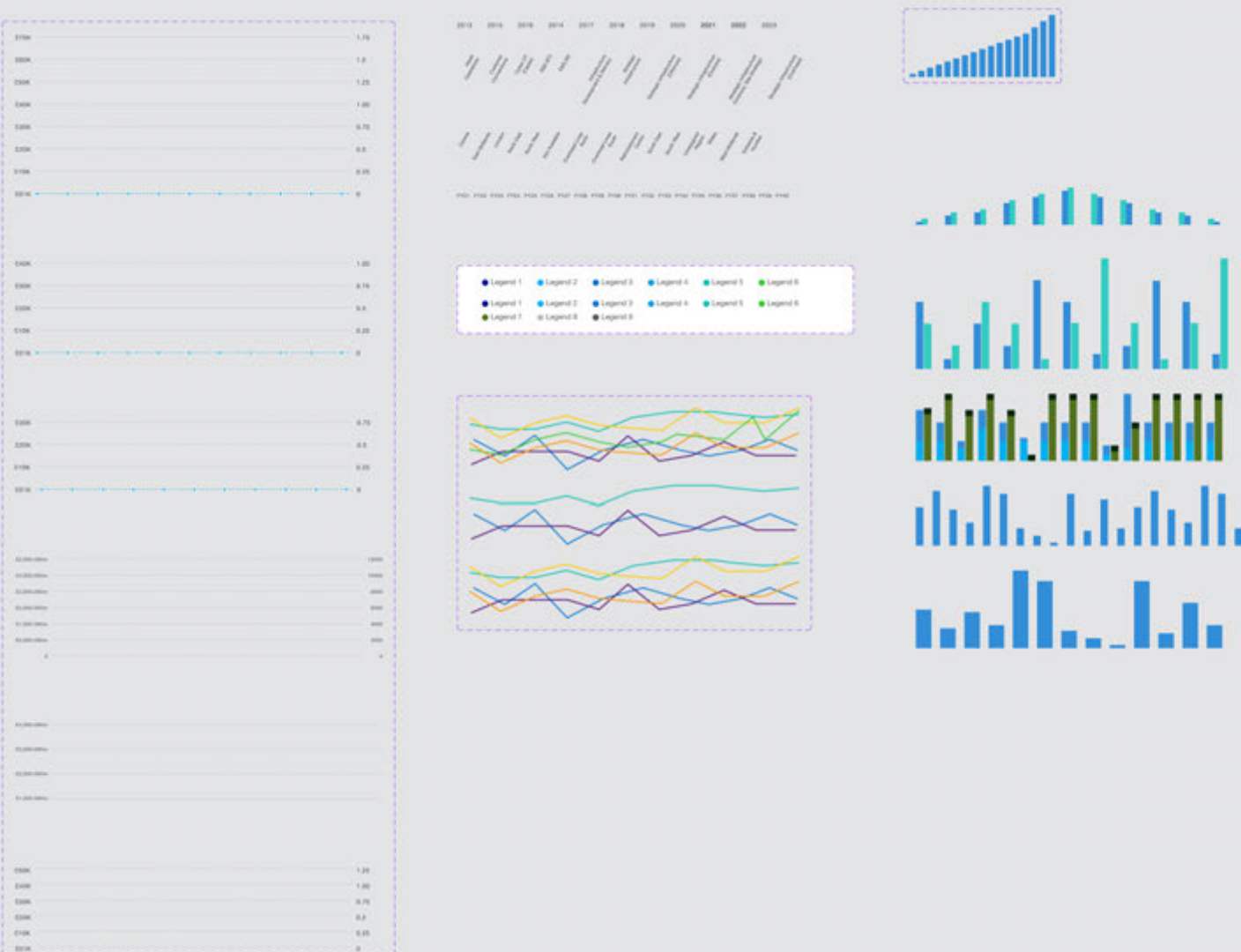
Header Title

Primary

Costs (£M): £40,000,000, £30,000,000, £20,000,000, £10,000,000, £0

Investment Count: 10000, 8000, 6000, 4000, 2000, 0

Drivers: Estimated Costs (£m), Total Count, Ratio, Legend 7, Legend 8, Legend 9



Filter	Inactive	Inactive	Inactive	Inactive	Inactive	
Filter by Asset Class Name		Filter by Asset Class Initial				
<input type="text" value="Enter part of Asset Class Name"/>		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z				
A Air Based Circuit Breaker <input type="checkbox"/> Air Compressor <input type="checkbox"/> Air Distribution Panel <input type="checkbox"/> Air Dryer <input type="checkbox"/> Air Recovers <input checked="" type="checkbox"/> AIR/EMERGENCY Transformers B Base Bays <input type="checkbox"/> Buildings <input type="checkbox"/> Buttlars		<input type="checkbox"/> Buttlars <input type="checkbox"/> Buildings C Cable Sealing End <input type="checkbox"/> Capacitor <input type="checkbox"/> Capacitor Bank <input type="checkbox"/> Capacitor Bank or Misc. <input type="checkbox"/> Capacitor Bank Misc <input type="checkbox"/> Compressed Air Energy Storage <input type="checkbox"/> Current Transformer		D DC Bushings <input type="checkbox"/> DC Cable <input type="checkbox"/> DC Current Transformer <input type="checkbox"/> DC Disconnecter <input type="checkbox"/> DC Earth Switch <input type="checkbox"/> DC Primary Misconnection <input type="checkbox"/> DC Reactor <input type="checkbox"/> DC Surge Arrester <input type="checkbox"/> DC Voltage Divider		<input type="checkbox"/> Demineralizer System <input type="checkbox"/> Desal Point Motors <input type="checkbox"/> Diesel Generators E Earthing Transformer <input type="checkbox"/> Environmental Protection <input type="checkbox"/> Exchange Station <input type="checkbox"/> Earth Switch F Filter <input type="checkbox"/> Filter

[Clear Category Selection](#) [Apply & Search](#)

Category
Category
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Category
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Category

Filter by Asset Class Name

Filter by Asset Class Initial

A Air Blast Circuit Breaker
☐

B Base Boys
☐

C Base Boys
☐

D Base Boys
☐

☐ Air Compressor

☐ Buildings

☐ Buildings

☐ Buildings

☐ Air Distribution Panel

☐ Buildings

☐ Buildings

☐ Buildings

☐ Air Dryer

☐ Buildings

☐ Buildings

☐ Buildings

☐ Air Recyclers

☐ Buildings

☐ Buildings

☐ Buildings

TP500 Plans

Filter by TP500 Stage Name

Filter by TP500 Stage Initial

4

4.0 Create Drivers

☐ 4.1 Create Initial Business Plan
 ☐ 4.2 Select Option
 ☐ 4.3 Develop & Sanction
 ☐ 4.4 Execute Projects

6

Base Boys

☐ Buildings
 ☐ Builders

4

4.0 Create Drivers

☐ 4.1 Create Initial Business Plan
 ☐ 4.2 Select Option
 ☐ 4.3 Develop & Sanction
 ☐ 4.4 Execute Projects

B

Base Boys

☐ Buildings
 ☐ Builders

4

4.0 Create Drivers

☐ 4.1 Create Initial Business Plan
 ☐ 4.2 Select Option
 ☐ 4.3 Develop & Sanction
 ☐ 4.4 Execute Projects

B

Base Boys

☐ Buildings
 ☐ Builders

9503 Results

00

Button text

Button

Investment Ref	Title	Status	OPPM No.	Delivery Vehicle	ET/SI	TO Lead Scheme Reference
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00490	Asset Health Fittings	Proposed By DV		Asset Operations	ET	NOMQH147
T3P-00492	AQ_AH_2026-2035 NEEPSND 275KV S/E	Proposed By DV		Asset Operations	ET	NOMQH147

Show No. of Items 100 - 1-100 of 9503 Items

1 - of 96 pages

Investments							00	Button text	Button
Investment Ref	Status	Title	OPPM No.	Delivery Vehicle	ET/SL	TO Lead Scheme Reference			
No data available									

Locations: 357 | Substations: 638

LAST UPDATED: 11 NOV 23

AD DRIVER

CC DRIVER

NEPTUNE DRIVER

SUBSID DRIVER

TS OUTSTANDING WORK

Request a Change

Substation	Location	Zone	Work Group	DNO	Agreed DV	U
ABERTHAW 132KV S/S	ABERTHAW	REFURBISHMENT CENTRE - RFB	SUBS - SOUTH WEST - SOUTH WALES EAST	WPD South Wales	Customer Connection-South	MAT
ABHAM 132KV S/S	ABHAM	SUBS - CENTRAL - TCN	SUBS - SOUTH WEST - SOUTH WALES WEST	WPD(EM)	Customer Connection-South	MAT
ABERTHAW 132KV S/S	ABERTHAW	SUBS - LONDON - TLN	SUBS - SOUTH WEST - TAMAR	NGED South Wales	Asset Operations	JOHN
ABHAM 132KV S/S	ABHAM	SUBS - NORTH EAST - TNE	SUBS - SOUTH EAST - SUSSEX & ROMNEY	UP&N (S)	Asset Operations	JOHN
ABERTHAW 132KV S/S	ABERTHAW	SUBS - NORTH WEST - TNW	SUBS - SOUTH WEST - SEVERN	SSE	Asset Operations	JOHN
ABHAM 132KV S/S	ABHAM	SUBS - SOUTH EAST - TSE	SUBS - NORTH WEST - MANCHESTER SOUTH	NPG(Y)	Asset Operations	MAT
ABERTHAW 132KV S/S	ABERTHAW	SUBS - SOUTH WEST - TSW	SUBS - NORTH EAST - NORTH HUMBER	NGED South Wales	Asset Operations	MAT
ABHAM 132KV S/S	ABHAM	UNASSIGNED ZONE - UNZ	SUBS - LONDON - LONDON NORTH WEST	ENWL	Asset Operations	JOHN
ABERTHAW 132KV S/S	ABERTHAW	REFURBISHMENT CENTRE - RFB	SUBS - NORTH EAST - WEARSIDE	WPD South West	Asset Operations	BING
ABHAM 132KV S/S	ABHAM	SUBS - CENTRAL - TCN	SUBS - NORTH WEST - LANCASHIRE	SEPD	Asset Operations	BING
ABERTHAW 132KV S/S	ABERTHAW	SUBS - LONDON - TLN	SUBS - CENTRAL - STAFFORDSHIRE	NGED South Wales	Customer Connection-South	DAN
ABHAM 132KV S/S	ABHAM	SUBS - NORTH EAST - TNE	SUBS - LONDON - LONDON CENTRAL	Nrail	Customer Connection-South	MAT
ABERTHAW 132KV S/S	ABERTHAW	SUBS - NORTH WEST - TNW	SUBS - NORTH EAST - SHEFFIELD	NGED South Wales	Asset Operations	DAN
ABHAM 132KV S/S	ABHAM	SUBS - SOUTH EAST - TSE	SUBS - LONDON - CABLES	BS	Customer Connection-South	MAT

Show No. of Items: 1001 - 100 of 638 Items

1 of 7 pages

Drivers		AG DRIVER	CC DRIVER	NEPTUNE DRIVER	BUDGET DRIVER	ET OUTSTANDING WORK
RIIO T1	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL
	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL
	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL
	4 LABEL	4 LABEL	4 LABEL	4 LABEL	4 LABEL	4 LABEL
	5 LABEL	5 LABEL	5 LABEL	5 LABEL	5 LABEL	5 LABEL
RIIO T2	2020	2020	2020	2020	2020	2020
	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text
	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL
	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL
	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL
RIIO T3	2020	2020	2020	2020	2020	2020
	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text
	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL
	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL
	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL
PC 31	2020	2020	2020	2020	2020	2020
	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text	Loren Ipsum to Simply Dummy Text
	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL
	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL
	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL
PC 36	2020	2020	2020	2020	2020	2020
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	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL	1 LABEL
	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL	2 LABEL
	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL	3 LABEL

Conclusion

- This product can create and manage Portfolios in Asset Intelligence and find out the health of your assets to assist you make the best decision for the network.
- Create, maintain, share, add intervention decisions, and more. There are two kinds of sharing: sharing with me and sharing with others.
- This is companion for all the needs around managing ET network investments.
- Investigate the network, develop investment drivers, make investment ideas, and work on putting together the overall investment plan for the upcoming submission.