
Arrow Platform

Ring Plans



Create a new plan and select 'Ring Plan' in plan type dropdown

Creating and Saving a New Plan

1. **Create New Plan** – Click “Create a New Plan”
2. **Save** – Click “Save Plan as” to make the analysis permanent, and accessible in the future. Popup screen will appear
3. **Plan Name** – Give plan a name
4. **Ring Plan** – Select “Ring Plan” from the dropdown
5. **Create** – Click “Create Plan” to begin analysis

Tip: Best practice is to save names without spaces; instead use underscores (“_”)

Select data layers to include in the analysis

Data Selection

1. **Data Selection** – Navigate to “Data Selection” tab in the accordion
2. **Pick Data Layers** – use the dropdown menu next to each data type to view available data sources and select desired ones. Select only the sources that are needed for the analysis
3. **Commit** – When done, hit “Commit” to save your selection

Data Type	Selected Source	Checkbox	Dropdown
Locations	C3 DE TC	<input checked="" type="checkbox"/>	+
Graph Edges	uk_roads_all	<input type="checkbox"/>	+
Equipment	ALL BT exchanges	<input type="checkbox"/>	+
Fiber	None Selected	<input type="checkbox"/>	+
Construction locations	None Selected	<input type="checkbox"/>	+
Service Layer	Westminster Constituencies	<input checked="" type="checkbox"/>	+
Cable file system	None Selected	<input type="checkbox"/>	+
Cable construction area	None Selected	<input type="checkbox"/>	+

Resource Selection
Project Configuration

Select Resource Managers to use in the analysis

Resource Selection

- Resource Selection** – While still inside “Plan Settings Mode”, open “Resource Selection” tab in the accordion
- Select Resource Managers** – Select your desired Resource Managers (click the relevant drop down to view available resources and select desired one)
- Commit** – When done, hit “Commit” to save your selection

Tip: Not all Resource Managers are needed for each analysis. Select the ones you need, and leave the Default otherwise

Data Selection	
Resource Selection	
Planning Constraints Manager	Default: Planning Constraints M
Price Book	Default: Price Book
ARPU Manager	Default: ARPU Manager
Risk Manager	Default: Risk Manager
Rate Reach Manager	Rate Reach Roads
Impedance Manager	Default: Impedance Manager
Telecom Spend Matrix System	Default: Telecom Spend Matrix S
Competition System	Default: Competition System
Fusion Manager	Default: Fusion Manager
Network Architecture Manager	Default: Network Architecture M

Turn on location layers to be used in simulations, and to view on the map

Locations

- Open Modal** – Click “Locations” button to open pane
- Enable** – Select the checkbox corresponding to the desired location type(s)
Your selections here determine what type of locations will be targeted in the optimization run
- Heatmap** – Toggle “Location Heatmap On” to see the individual locations

Tip: you will not see locations unless they are selected in the data sources

Specify ring endpoints, optimization settings, and run the analysis

Optimization Inputs

- Analysis Mode** – Go to “Analysis Mode” on the Analysis Panel
- Define Rings** – Use the “Add Ring” button begin ring creation. Click on the CO/Exchange on a map where you want the ring begin, followed by CO/Exchange where it should end. You can continue on to create longer chains
- Run** – Click “Run” to begin the optimization. Small plans should finish in < 1 min.

Tip: To define ring endpoints existing COs/Exchanges have to be visible on a map

Drag and adjust polygon corners to shape the area

Ring Edit

Run

Input

Add Ring

Rings

676

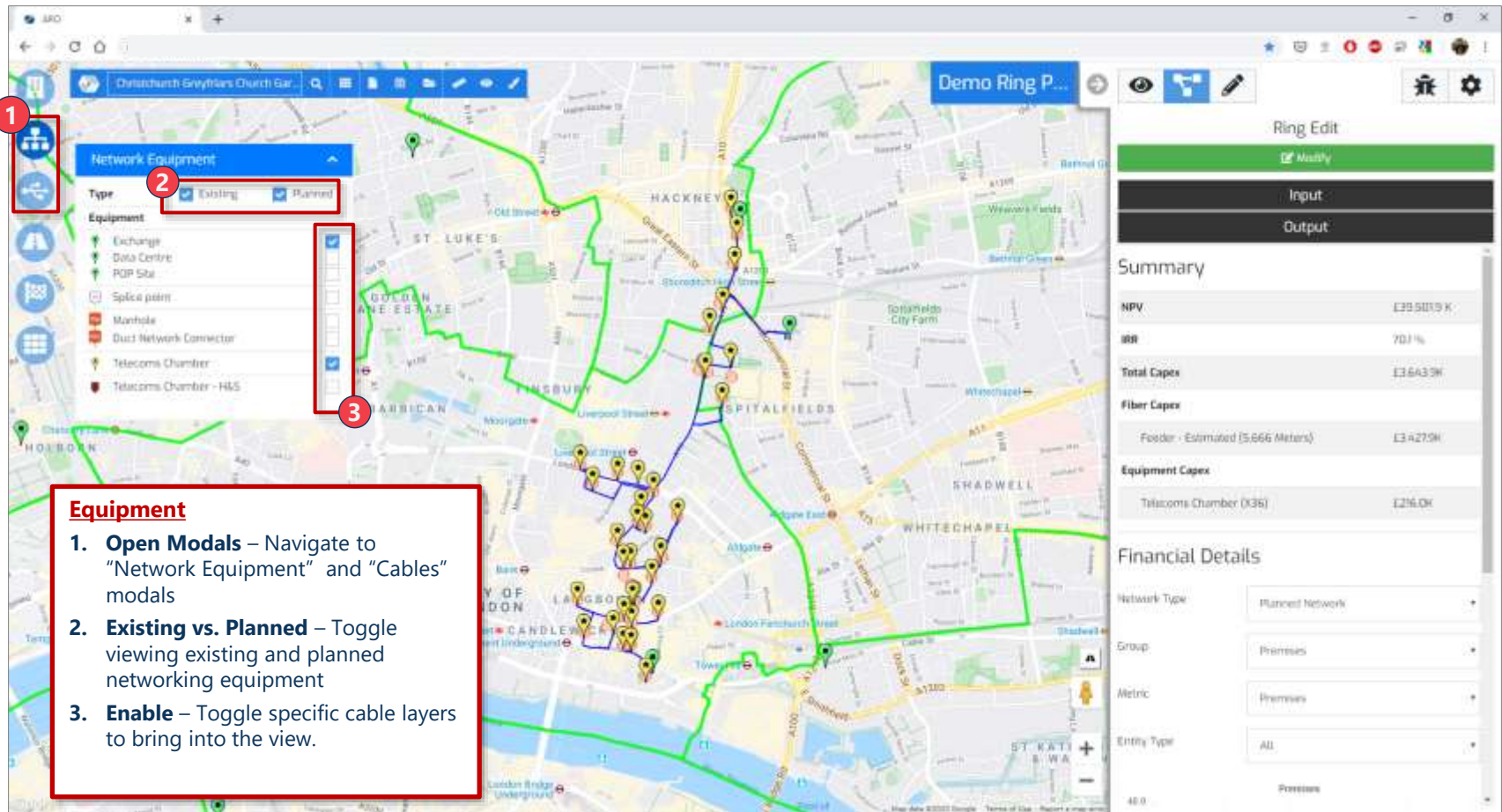
MONUMENT T E

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SHOREDITCH T E

Output

Turn on equipment and cable layers to view on the map



Equipment

- Open Modals** – Navigate to “Network Equipment” and “Cables” modals
- Existing vs. Planned** – Toggle viewing existing and planned networking equipment
- Enable** – Toggle specific cable layers to bring into the view.

Summary	
NPV	£39,501.5 K
IRR	70.1%
Total Capex	£3,643.3M
Fiber Capex	
Foster - Estimated (5,666 Meters)	£3,427.5M
Equipment Capex	
Telecoms Chamber (X36)	£216.0K

Financial Details	
Network Type	Planned Network
Group	Premises
Metric	Premises
Entity Type	ALL

After running a plan, a number of outputs can be extracted from Arrow, including financial projections and new fiber routes

Optimization Output

- 1. Summary** – High level plan summary is displayed in the Output section of the Analysis panel
- 2. Financial Detail** – Additional detail, such as YoY financial projection, subscriber counts etc. can be accessed by clicking “Expand Results”. A popup window will open
- 3. Reports** – Plan data can also be downloaded in a form of csv reports. More on the reports in their own section

Metric	Value
NPV	£29,501.9 K
IRR	70.1%
Total Capex	£3,643.0 K
Fiber Capex	£3,427.9 K
Equipment Capex	£216.0 K