CAPTAIN TOOL MAIN PRINCIPLE

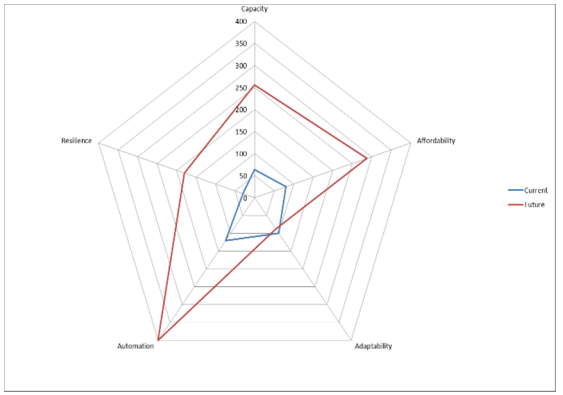
(CAPacity Trade-offs Assessment model of railway INfrastructure)

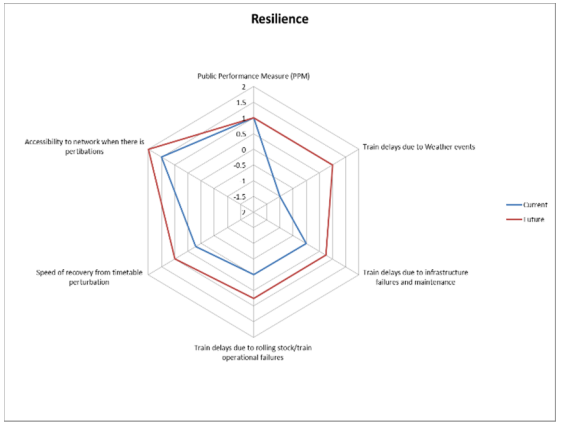
User

Description of some part of railway infrastructure and its innovation

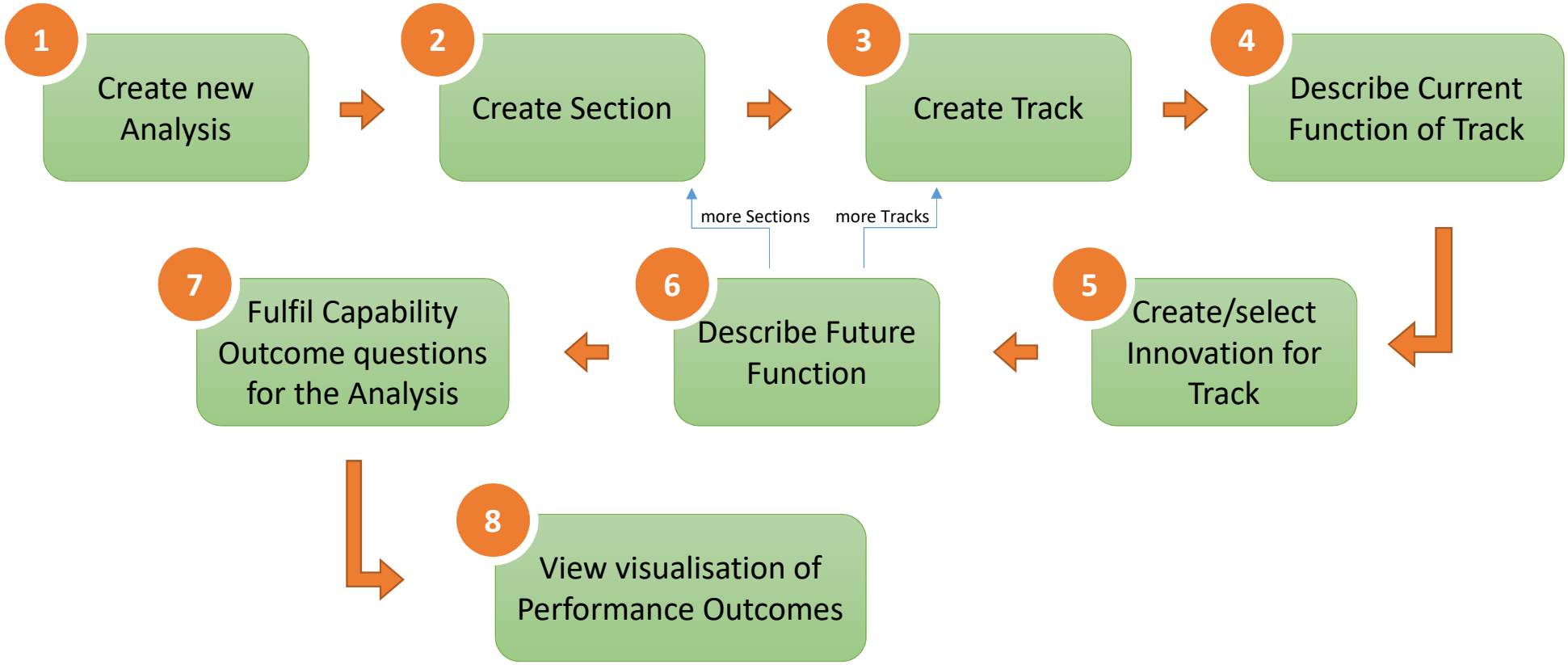
BLACK BOX

Visualisation of performance outcomes for current and future railway



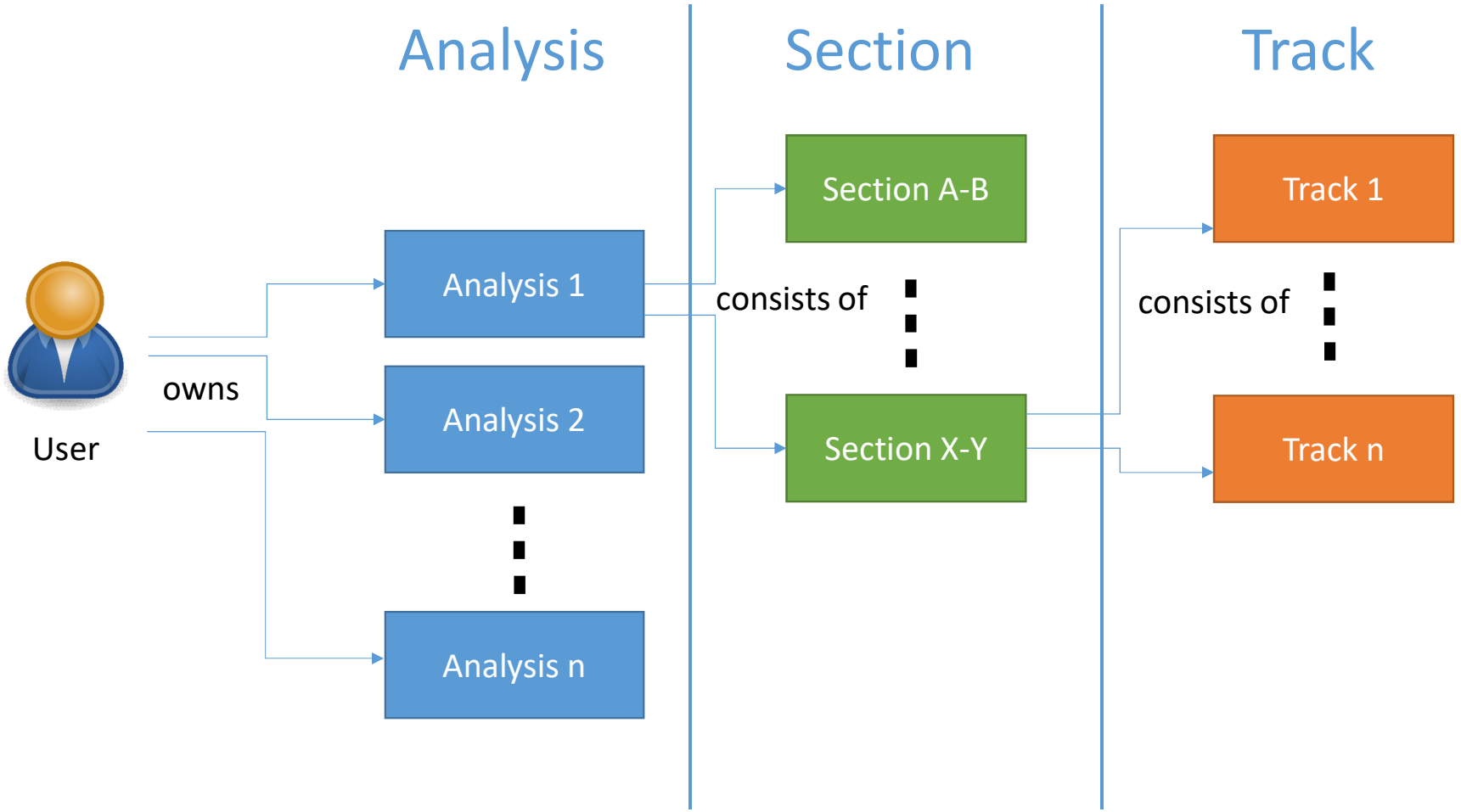


CAPTAIN TOOL TYPICAL WORKFLOW



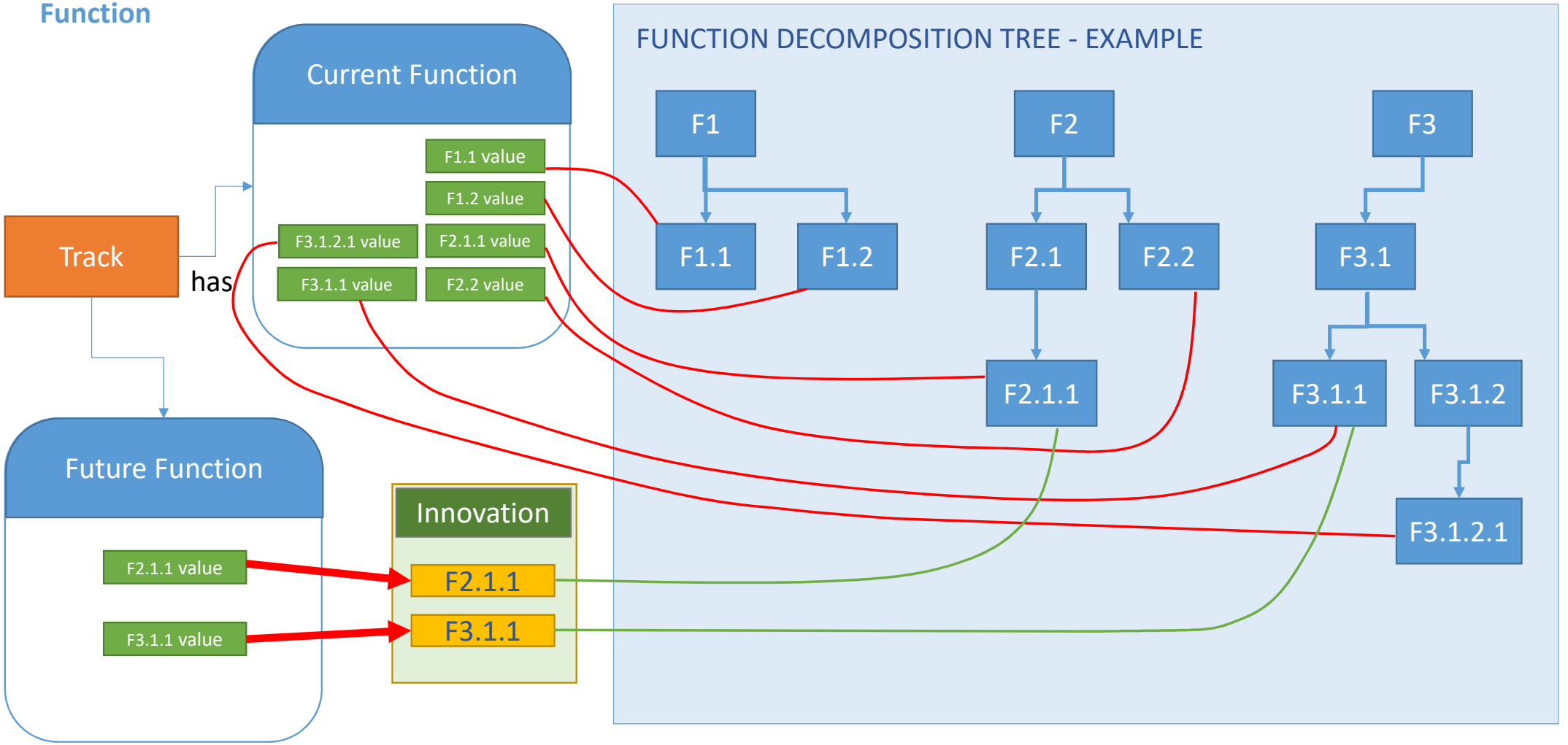
DATA STRUCTURES

Main Entities



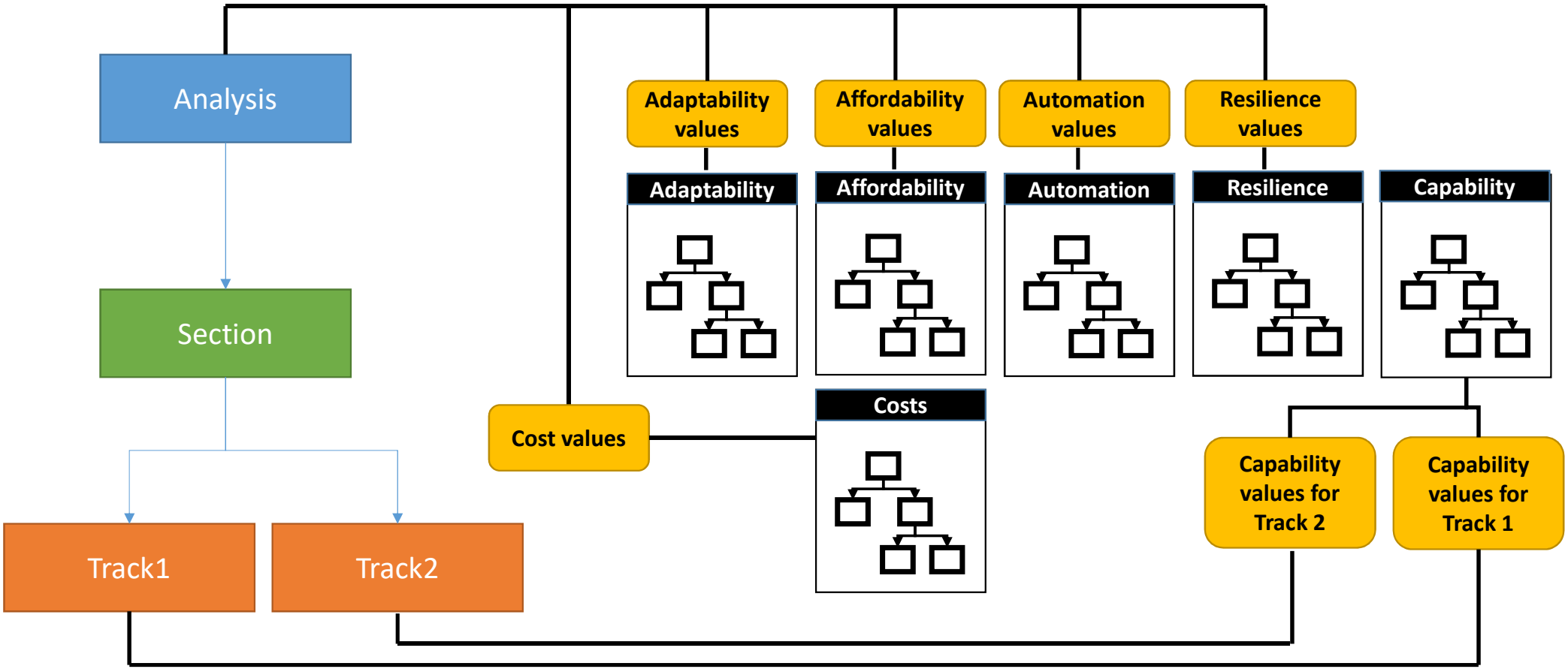
DATA STRUCTURES

Function

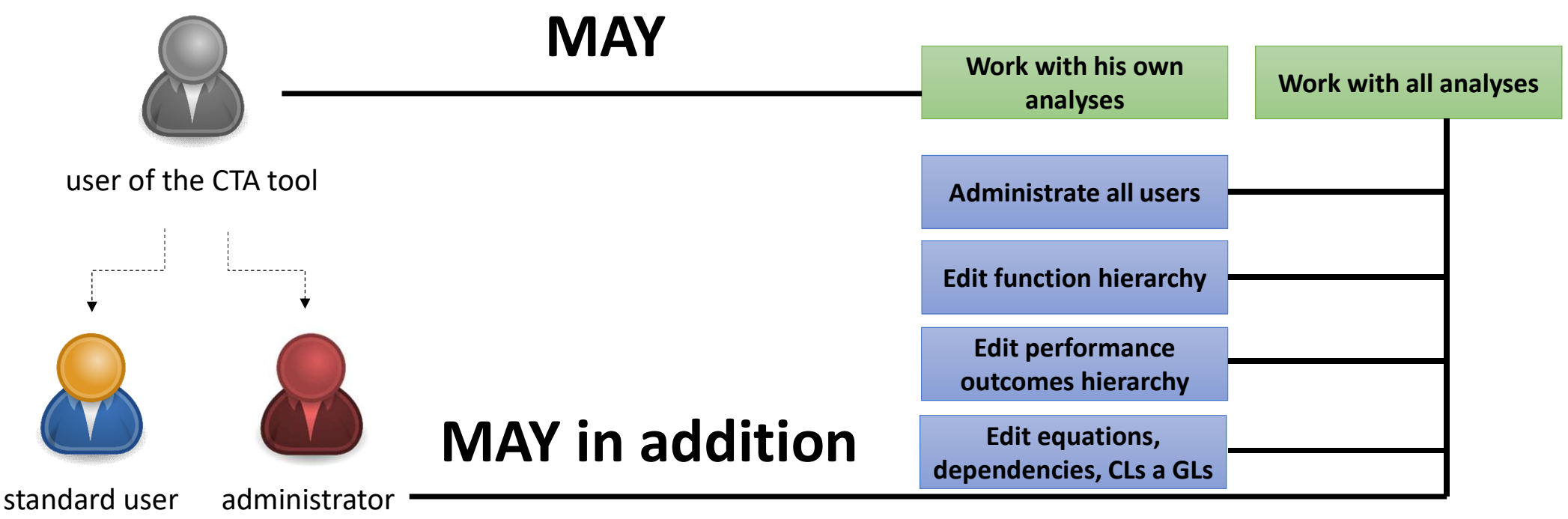


DATA STRUCTURES

Capability Performance Outcomes

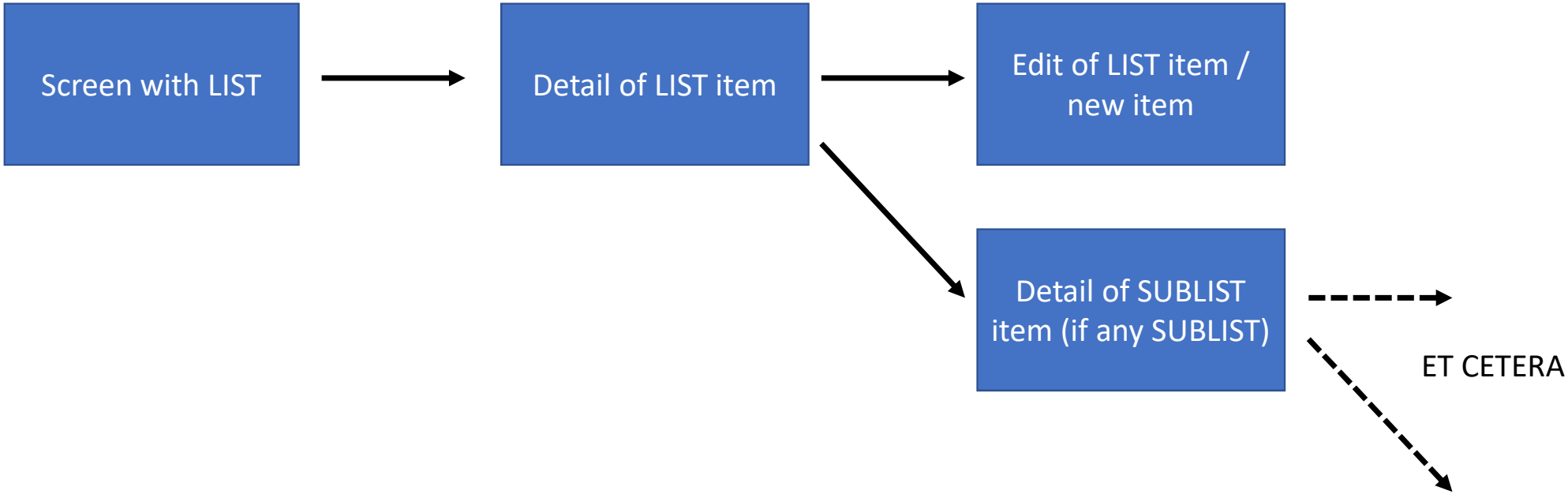


USER ROLES


MAY
Work with his own analyses
Work with all analyses
user of the CTA tool
Administrate all users
Edit function hierarchy
Edit performance outcomes hierarchy
Edit equations, dependencies, CLs a GLs
MAY in addition
standard user
administrator

USER INTERFACE

Main Navigation Principle



USER INTERFACE

Sign in screen

USER INTERFACE

Home Page

Home | Technology | All users | Aaron Barrett – signed in | Sign out | Help

Home

Welcome Aaron

You can add a new Analysis or work with one of the previous analyses:

Name	Country	Network	Route	Description	Targeted capacity increase	Created by	Date created	Public
First analysis	United Kingdom	London North Eastern	ECML	Increasing spare capacity on the East Coast Mainline (UK)	10%	Aaron Barrett	13/04/2017	Yes
View detail Copy Delete								
Second analysis	United Kingdom	London North Eastern	ECML	Increasing spare capacity on the East Coast Mainline (UK)	20%	Aaron Barrett	13/04/2017	Yes
View detail Copy Delete								
Third analysis	United Kingdom	London North Eastern	ECML	Increasing spare capacity on the East Coast Mainline (UK)	30%	Aaron Barrett	13/04/2017	Yes
View detail Copy Delete								

Analysis ‘First Analysis’ detail

Username:	Aaron Barrett	**Name:**	First Analysis
Organisation:	TRL	**Country:**	United Kingdom
Date Created:	13/04/2017	**Network:**	London North Eastern
		Route:	ECML

Description:

Increasing spare capacity on the East Coast Mainline (UK)

Targeted capacity: Up to 10%

Chart | Capability home | Edit | OK

Sections

Add new Section

Name	Status	Tracks
A-B	Incomplete	2
View detail Copy Delete		
B-C	Complete	4
View detail Copy Delete		

Innovations

Add new Innovation

Name	Used
Innovation One	Yes
View detail Copy Delete	
Innovation Two	No
View detail Copy Delete	

Analysis edit

Username:	Aaron Barrett	**Name:**	First Analysis
Organisation:	TRL	**Country:**	United Kingdom
Date Created:	13/04/2017	**Network:**	London North Eastern
		Route:	ECML

Description:

Increasing spare capacity on the East Coast Mainline (UK)

What is the target for capacity increase on the route? Up to 10%

Cancel OK

‘First Analysis’ Section ‘A-B’ detail

Name: A-B

Status: Incomplete

Edit OK

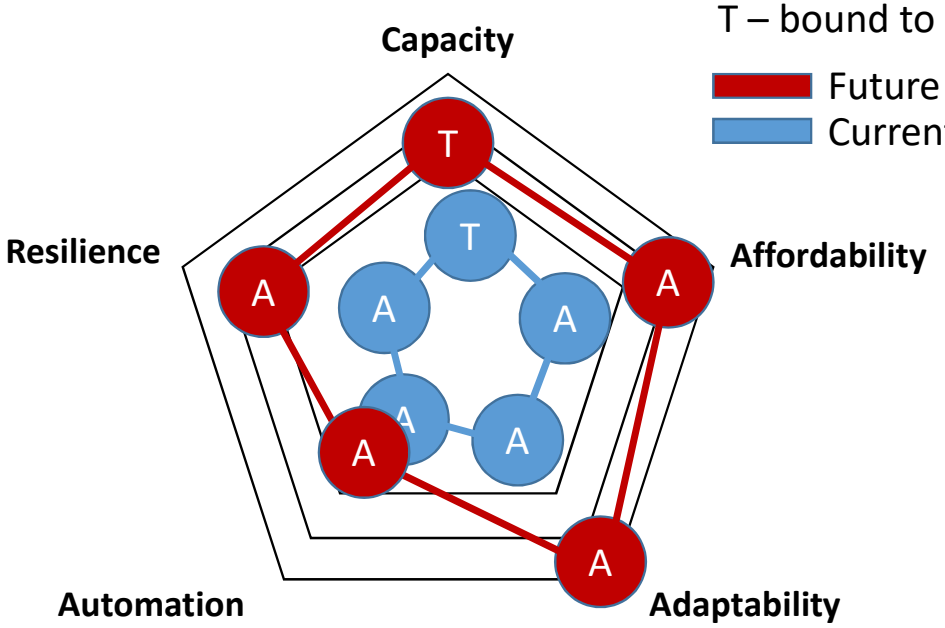
Tracks

Add new Track

Name	Status	Current Function	Innovation	Future Function
1	With Current Function	Done	Innovation One	Done
View detail Copy Delete				
2	With Current Function	Done	Innovation Two	…
View detail Copy Delete				

VISUALISATION

Spider Diagram



A – bound to Analysis
T – bound to some of Track of the Analysis

Future
Current

Spider Diagram can be used as well as for subgoals

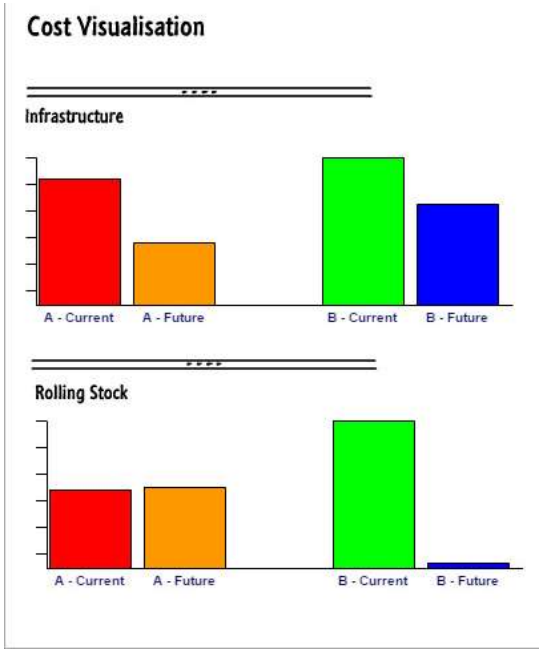



Diagram for Cost