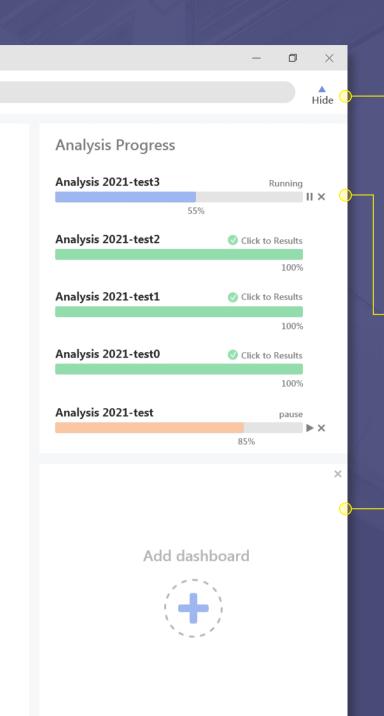
HOME PAGE ~~ (F) 5 Undo Ū Ŵ Шİ 企 ... A Macomi Maintenance Q Search Delete Share Comment Dashboard Designer **Recent Analysis** Analysis 2021-test2 Analysis 2021-test1 Analysis 2021-test0 25/05/2020 14:00:00 02/06/2020 14:00:00 25/05/2020 14:00:00 🛞 Sum 🔗 Sum 🛞 Sum Description Description This planning is made for test. This planning is made for test-first This planning is made for test-first round round. Show clear structure of the tool and the users can easily switch between various pages to conduct different **D** Input Analysis ш Results \square Notification Ŵ Trash New Analysis Input data List by: Time 👻 Rename the new Analysis + Add to Analysis 😚 Share 🗄 Create f Input folder 25 Dependencies 2020 Project requests 2020 Input data Project requests Dependencies Scenarios 2020 Conflicts Location data Passenger streams Input data for 2020-1 Passenger travel information Good stream Contractor cost percentages Input folder 08/05 08/05/2020 14:00:00 Visualisation data Project requests 1.0 Conflicts 1.0 Conflicts 1.0 ANALYSIS INPUT Results Results 01. Jun. 202 20. May, 20 10. May. 202 RESULTS

Navigation bar

operations

Sum Yuet Leung Committee Macomi Maintenance: A user-centric data-analytic plat-Lyè Goto form for railway maintenance planning optimisation 14th, Aug., 2020 Company MSc Design for Interaction

Faculty of Industrial Design Engineering



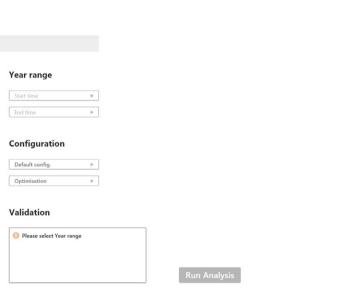
Toolbar

Users can hide the toolbar to keep a clean and 'minimalist' work space and use context menu(right click) to activate functions

Progress and shortcuts Support quick access to the analysis planning and check the progress of the analysis

Customisable dashboard Different users might have different working

habits and care about different information due to different responsibility. The Home page supports customising dashboard and the users can put the most relevant information for them on the homepage



Jacky Bourgeois Marina Gerace Macomi B.V.

This thesis project investigated how user-centred design(UCD) contributes to the railway maintenance planning optimisation. A new UX concept and digital prototype were designed to provide intuitive interaction and clear structure to support the planners confidently and independently optimise railway maintenance planning on a digital platform.

The final design Macomi Maintenance was generated based on the usercentric design(UCD)research and insights from concept iteration tests.

It consists of four main functional pages: Homepage, Input, Analysis and Result, which support the main scenarios for the railway maintenance planning optimisation.

Macomi Maintenance A user-centric data-analytic platform for railway maintenance planning optimisation

