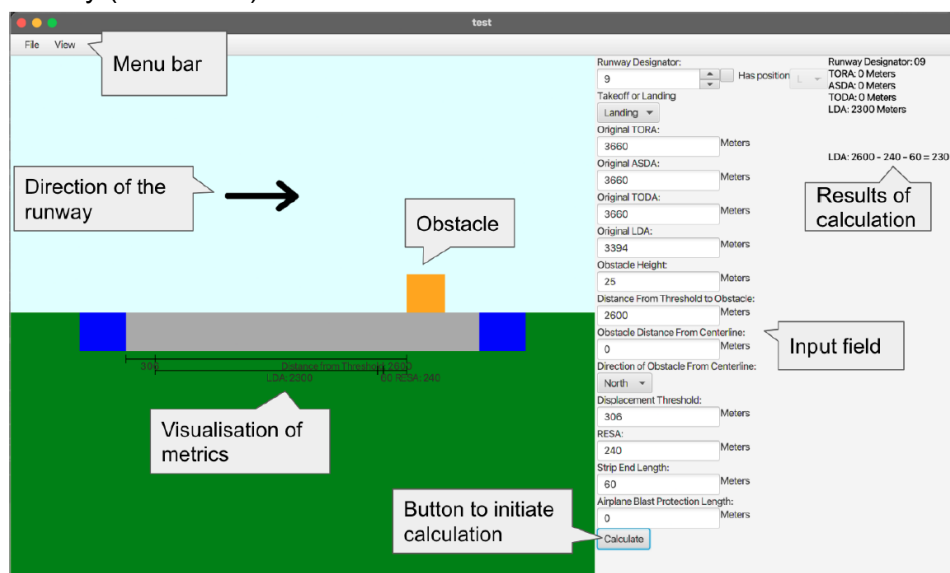# Runway Re-declaration Tool - A Simple User Guide

1. General Overview

This user guide will present the main functionalities of the application, and will explain how to use it. We will start with the screen loaded when the application is launched, then we will explore how to navigate through the different screens and menus.
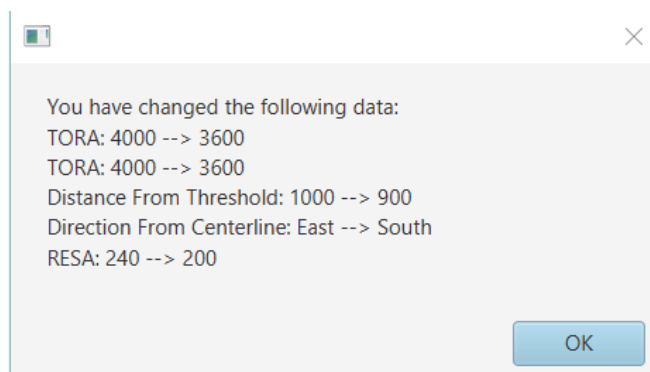
2. Opening Screen

When the user launches the application they are greeted by the side-view of the runway. On the left hand side of the window, the visualisation of the runway is displayed, where the grey rectangle represents the runway, the blue rectangles at each side represent the stopway and clearway available while the orange square represents the obstacle on the runway (see below).
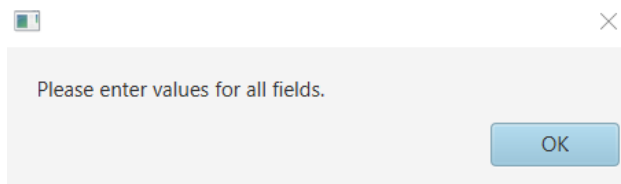

On the right hand side of the window, the input fields are displayed, where the user will introduce all the values necessary for the calculation. When the user finishes introducing all the values they can press the "Calculate" button, which will display both the new values of the runway as well as the calculation breakdown. This can be seen on the right side of the input fields.

3. Pop Up Messages

When the user changes some values, a pop-up notification will appear letting the user know all the values that have changed (see below). This is done in order to avoid accidental changes.
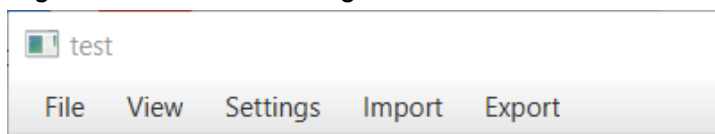
The application will also display an error message (see above) with an appropriate warning that tells the user that they made a critical mistake in introducing the values. The warning will instruct the user what fields need to be changed to fix the error.
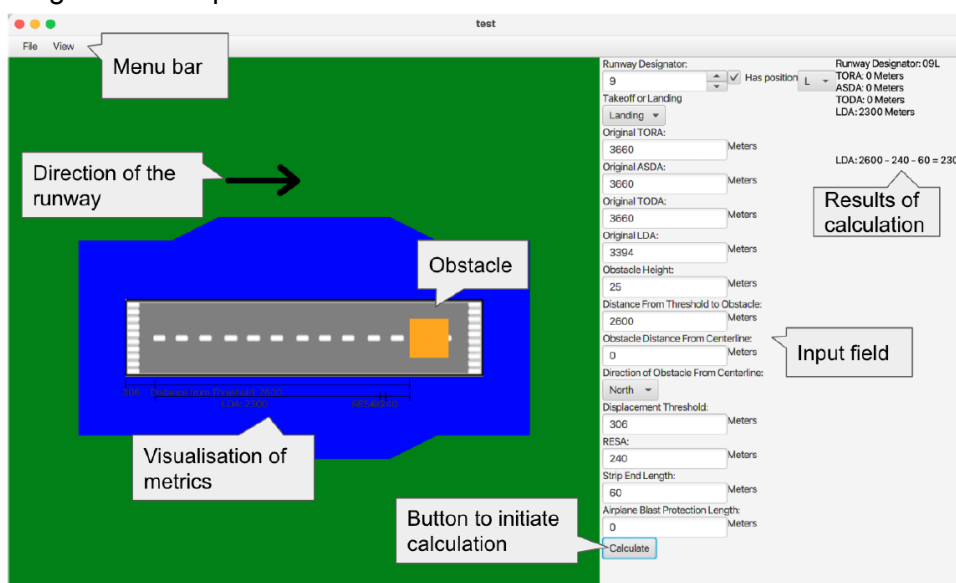
4. Top Bar

At the top of the window, a bar can be seen (see below). We will now go through each option. When the user clicks the "File" button, an "Exit" button will appear. Pressing this will allow the user to close the application. Under "View" the user can change the current view, from "Side View" to "Top View" or see both views at the same time. Under "Settings", the user can enable or disable the automatic rotation of the runway to match the direction of the compass. Note, that the rotation only occurs when on the "Top View". Under "Import" the user can import data into the application from an existing XML file, whereas under "Export", the user will be able to export the data generated by the application either as an XML file, or as an image. There are three image formats available: "PNG", "JPEG" and "GIF"

5. Alternate Views

If the user chooses to switch to an alternative view from the "Side View" they will be greeted with the same screen they saw on in the first picture, except the left hand side of the window (the visualisation) will change in accordance with the user's choice. Below is an image of the "Top View".

6. Import and Export

      If the user chooses to import or export files, they will be prompted with a new window where the user will be able to choose where they wish to save the file, and under what name. This is the standard save screen of any operating system.