

Remote Physical Infrastructure Inspection (RPI) Solution Step-by-step Training Guide

XLAB, Slovenia

With the contribution of the SUNRISE WP7 Project Partners



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Content Overview



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This step-by-step guide helps users navigate the Remote Physical Infrastructure Inspection (RPI) Solution. It forms part of the training materials provided for the Solution, alongside the demonstration [video](#).

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Login & Interface



Sign in

Don't have an account? [Sign up](#)

Email address*

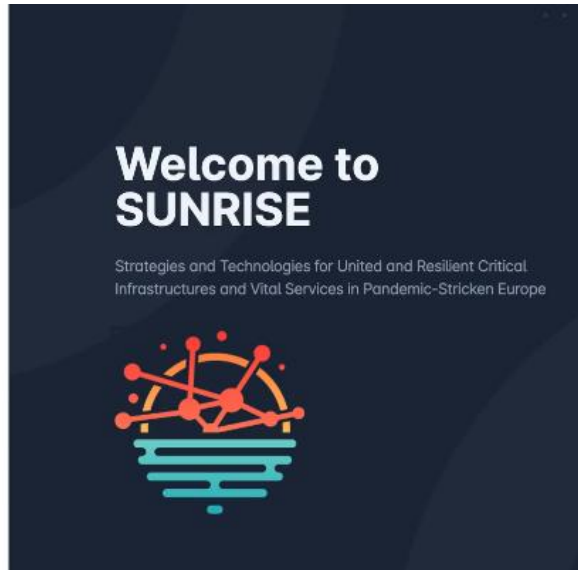
hughes.brian@company.com

Password*

☐ Remember me

[Forgot password?](#)

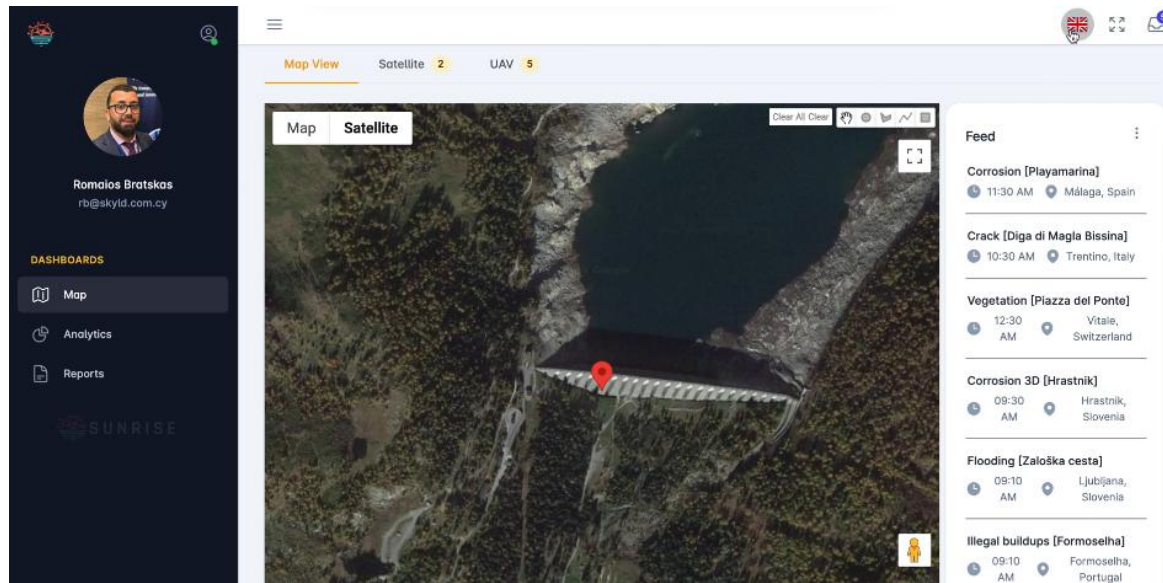
Sign in



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- + Open the SUNRISE application and navigate to the login screen.
- + Enter your username and password in the corresponding fields.
- + Click **'Sign In'** to access the system dashboard.

Dashboard Page



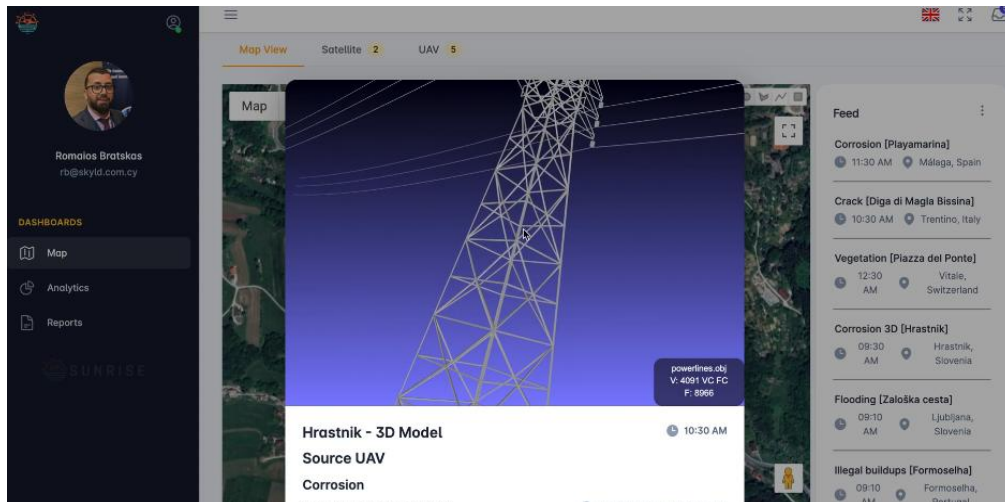
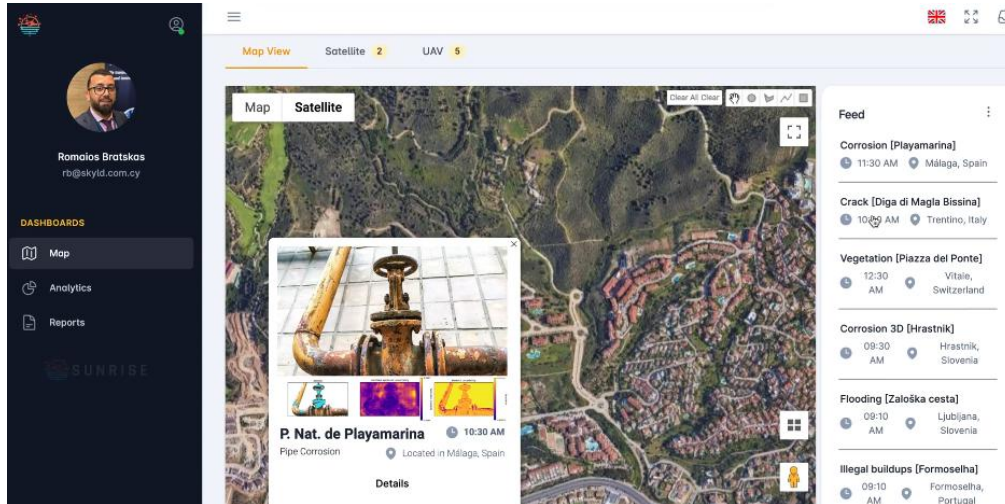
- + Once logged in, the dashboard appears with a **sidebar on the left** and a **main feed on the right**.
- + Your user profile is displayed, showing your **name and organisation**.
- + From here, you can:
 - › Change the **language settings**.
 - › Access your **inbox** for system notifications.

Viewing and Selecting Events

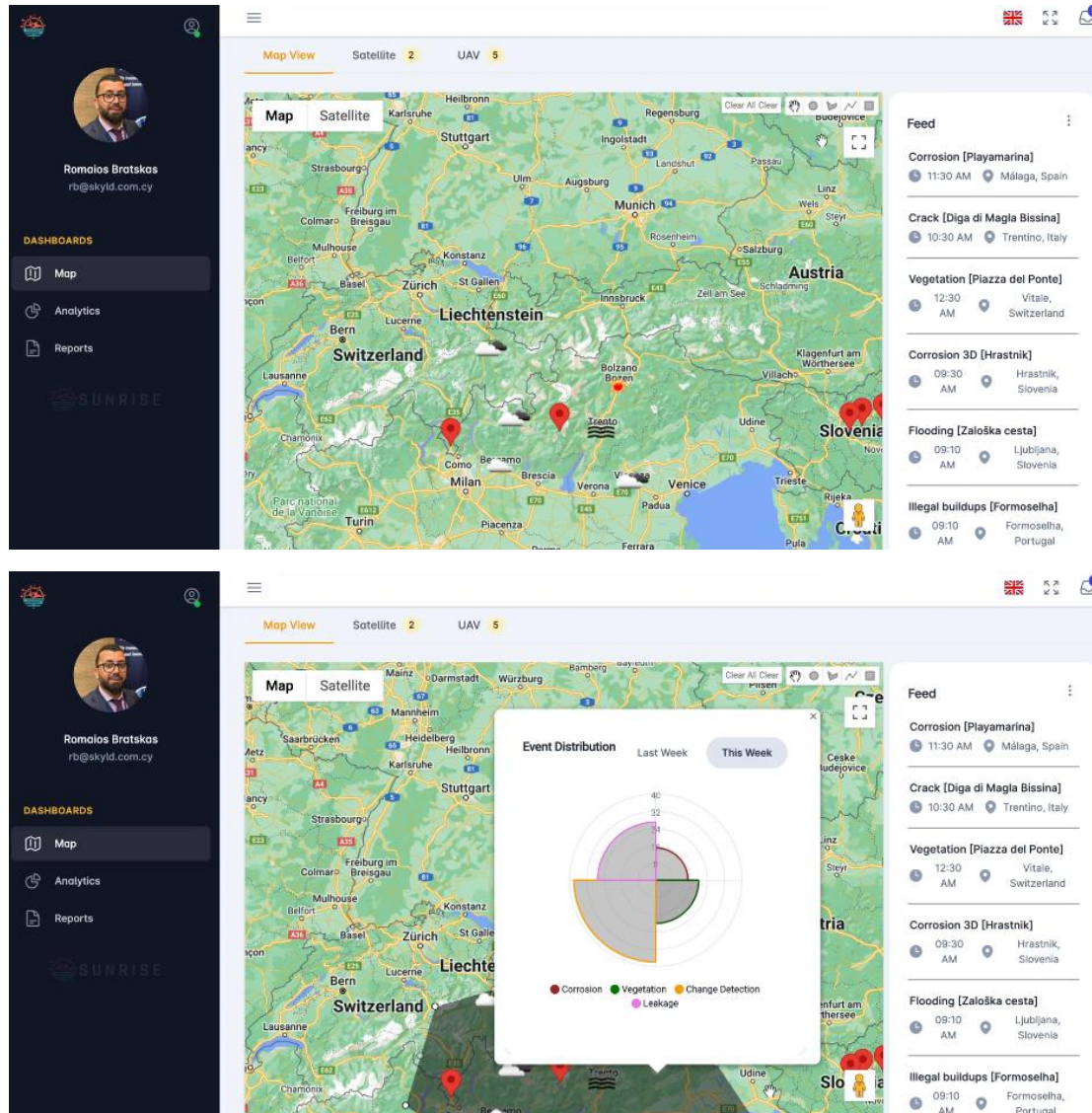


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- + From the **event feed**, select events captured either by **UAV (Unmanned Aerial Vehicle)** or by **satellite**.
- + Click on a specific event to view **detailed information**.
- + You can inspect **3D models** generated from UAV imagery by clicking '**Details**' for an enhanced view.



Map Views and Event Distribution



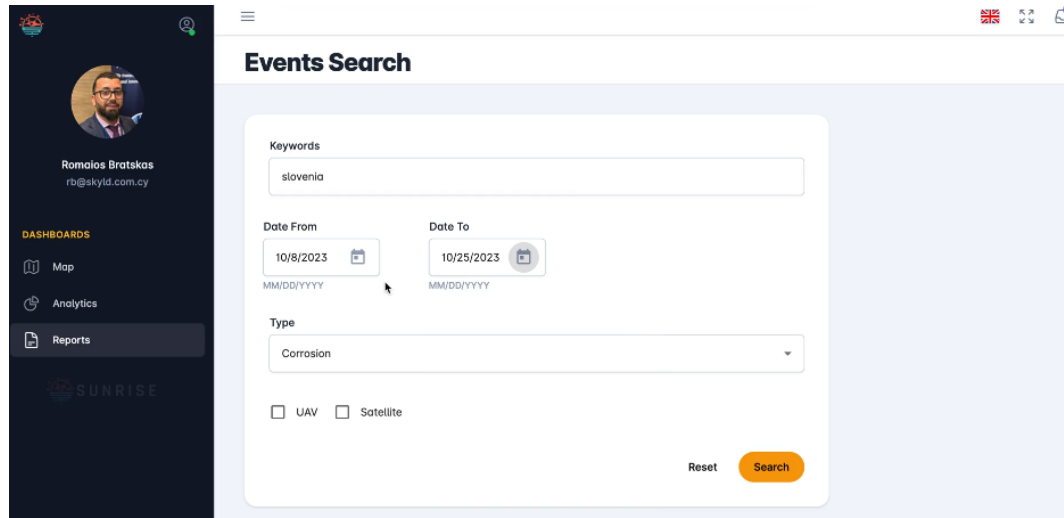
- + Use the **interactive map** to visualise events across different geographic regions.
- + Select a specific **region** to access event data for that area.
- + Adjust the **time period filter** (e.g., *This Week*) to refine displayed data.
- + View the **distribution of events** and filter them by type or source (UAV vs. Satellite).

Analytics for Event Statistics



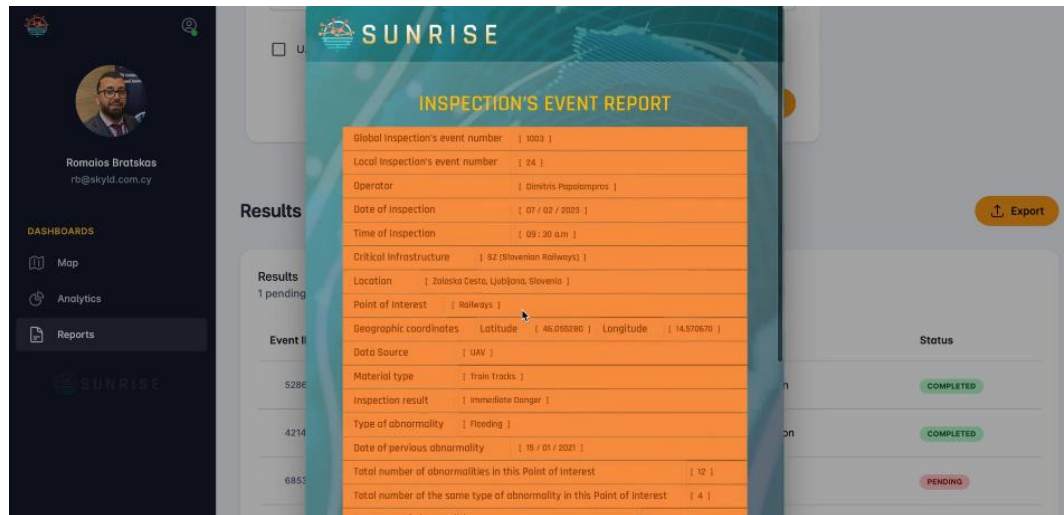
- + Click on the **Analytics tab** in the sidebar.
- + Review **statistical views** of detected issues over a given period.
- + Compare **UAV events versus satellite events**, displayed **date by date**.
- + Analyse **event types and frequency trends** to support decision-making.

Generating and Exporting Reports



The screenshot shows the 'Events Search' interface. On the left is a sidebar with a user profile for 'Romaos Bratskas' and a 'DASHBOARDS' menu with 'Map', 'Analytics', and 'Reports' (selected). The main area has a search form with the following fields:

- Keywords: 'slovenia'
- Date From: '10/8/2023' (MM/DD/YYYY)
- Date To: '10/25/2023' (MM/DD/YYYY)
- Type: 'Corrosion' (dropdown menu)
- UAV: ☐
- Satellite: ☐
- Buttons: 'Reset' and 'Search'



The screenshot shows the 'INSPECTION'S EVENT REPORT' overlay. It contains the following data:

Global inspection's event number	{ 1002 }
Local inspection's event number	{ 24 }
Operator	{ Olexis Papadimitros }
Date of inspection	{ 07 / 02 / 2023 }
Time of inspection	{ 09:30 a.m }
Critical infrastructure	{ 52 (Slovenian Railways) }
Location	{ Zaloska Cesta, Ljubljana, Slovenia }
Point of Interest	{ Railways }
Geographic coordinates - Latitude	{ 46.050280 }
Geographic coordinates - Longitude	{ 14.510670 }
Data Source	{ UAV }
Material type	{ Train tracks }
Inspection result	{ Immediate Danger }
Type of abnormality	{ Flooding }
Date of previous abnormality	{ 10 / 01 / 2021 }
Total number of abnormalities in this Point of Interest	{ 12 }
Total number of the same type of abnormality in this Point of Interest	{ 4 }

On the right side of the report, there is an 'Export' button and a 'Status' section with three items: 'COMPLETED' (green), 'COMPLETED' (green), and 'PENDING' (red).

- + Go to the **Reports** tab in the sidebar.
- + Use the **Events Search** fields to define the criteria for your report (e.g., time range, event type, source).
- + Click **Export** to generate a report that can be shared with other stakeholders.
- + The report can be downloaded in a compatible format (e.g., PDF, Excel) for distribution.



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Thank you for following the training.

For more information:
<https://sunrise-europe.eu/>



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