Project: "Monitoring Sea-water intrusion in coastal aquifers and Testing pilot projects for its mitigation" Interreg CBC Italy-Croatia 2014.-2020.

Priority Axis: Safety and resilience

Specific objective: Improve the climate change monitoring and planning of adaptation measures tackling specific effects, in the cooperation area

(D_5.1.3) App for real-time saltwater values to be used by farmers and public authorities (in Croatian)

Work Package 5: Transferring

Activity 1: Neretva plan of adaptation

Partner in charge: PP4 (UNIST-FGAG)

Partners involved: PP4 (UNIST-FGAG), PP5 (CROATIAN WATERS), PP6 (DUNEA)

Final version

Public report

September, 2022

Contents

Introduction

During the third project period, Croatian project partners developed and released a web and mobile phone application to enable the real time insight of the surface and groundwater parameters as:

- ➢ Piezometric head;
- ➢ Temperature;
- ➢ Electrical conductivity

The idea of App development relies on the fact to make those data accessible to land users, farmers, citizens, stakeholders and other target groups interested in this product. In general, App can be used in both ways, as a web and mobile application and does not require any kind of login, thus making those data public.

App accessibility

App can be found at the Faculty of Civil engineering, Architecture and Geodesy, University of Split (PP4) institutional webpage: https://neretva.gradst.hr/dashboard.

Initially, it can be either used as a web tool which provides information on sensor locations and available data sets. Otherwise, it can be downloaded to smart phones and operated as a mobile App.

App is developed to be used in either English and Croatian language so the user has to pick between those two options.

Web App – Croatian version

Below, in Figure 1 to Figure 4 Web app is shown with its front end and interface for end users in Croatian language.
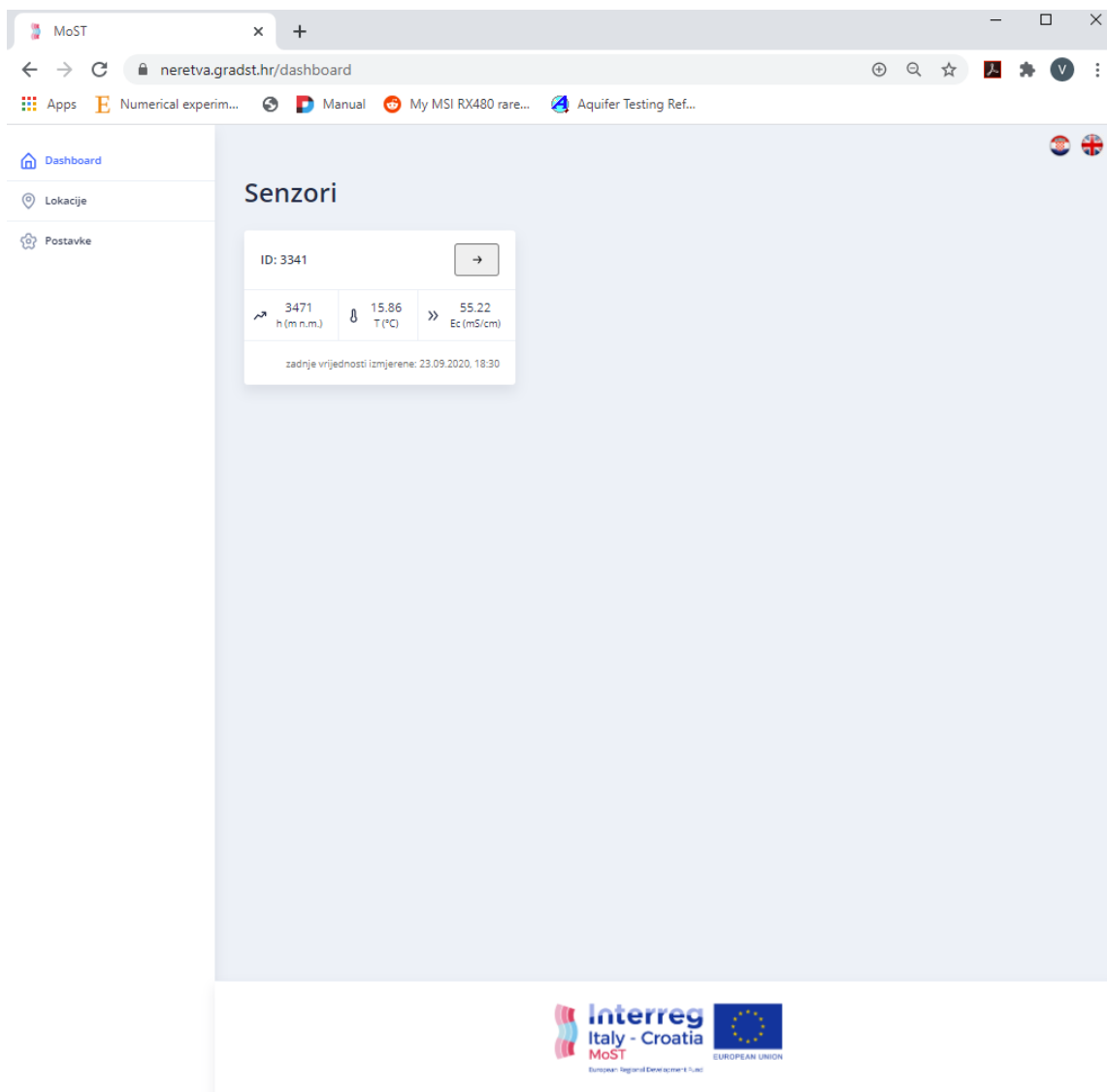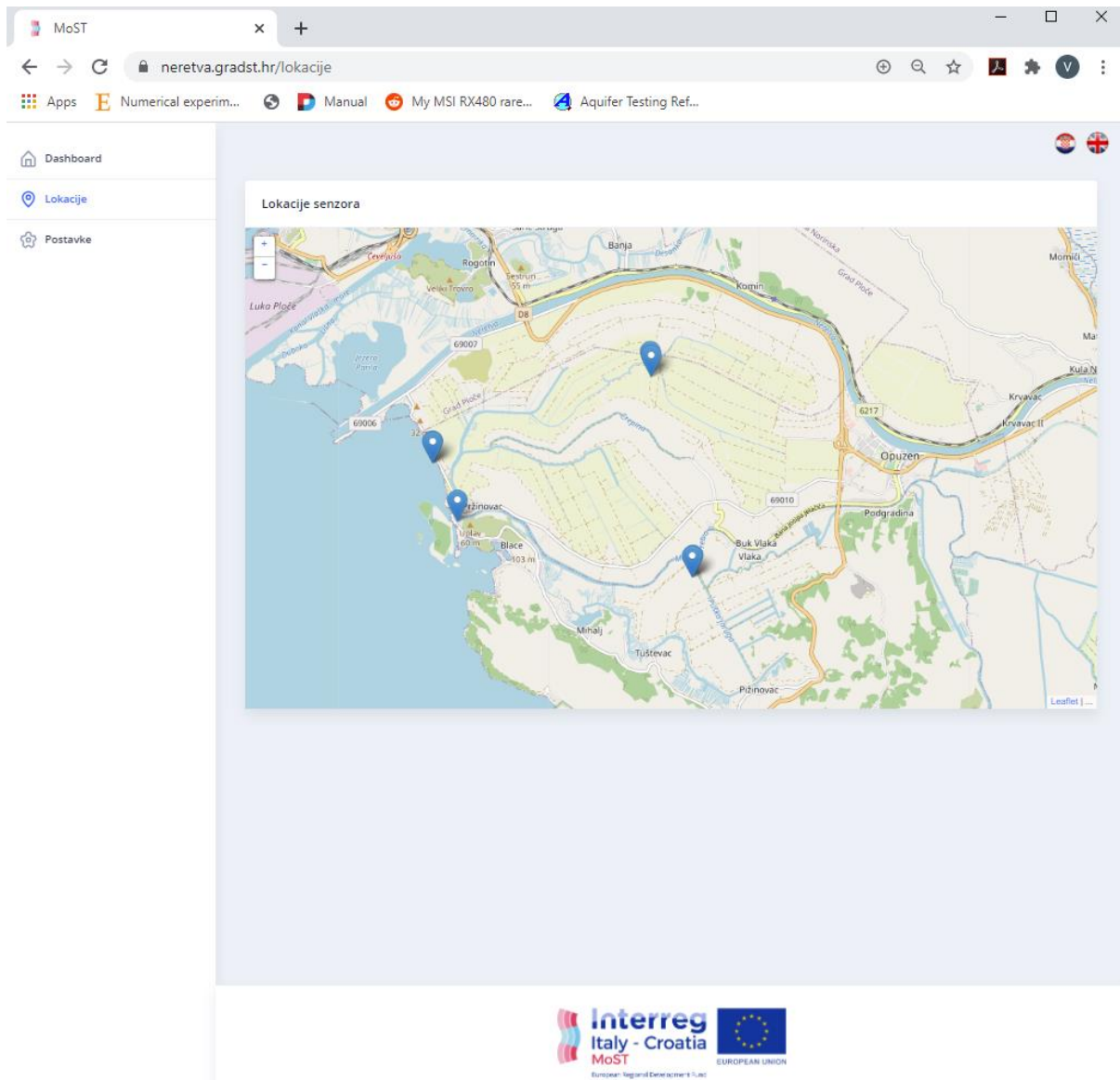

Figure 1 User interface of the MoST Web App

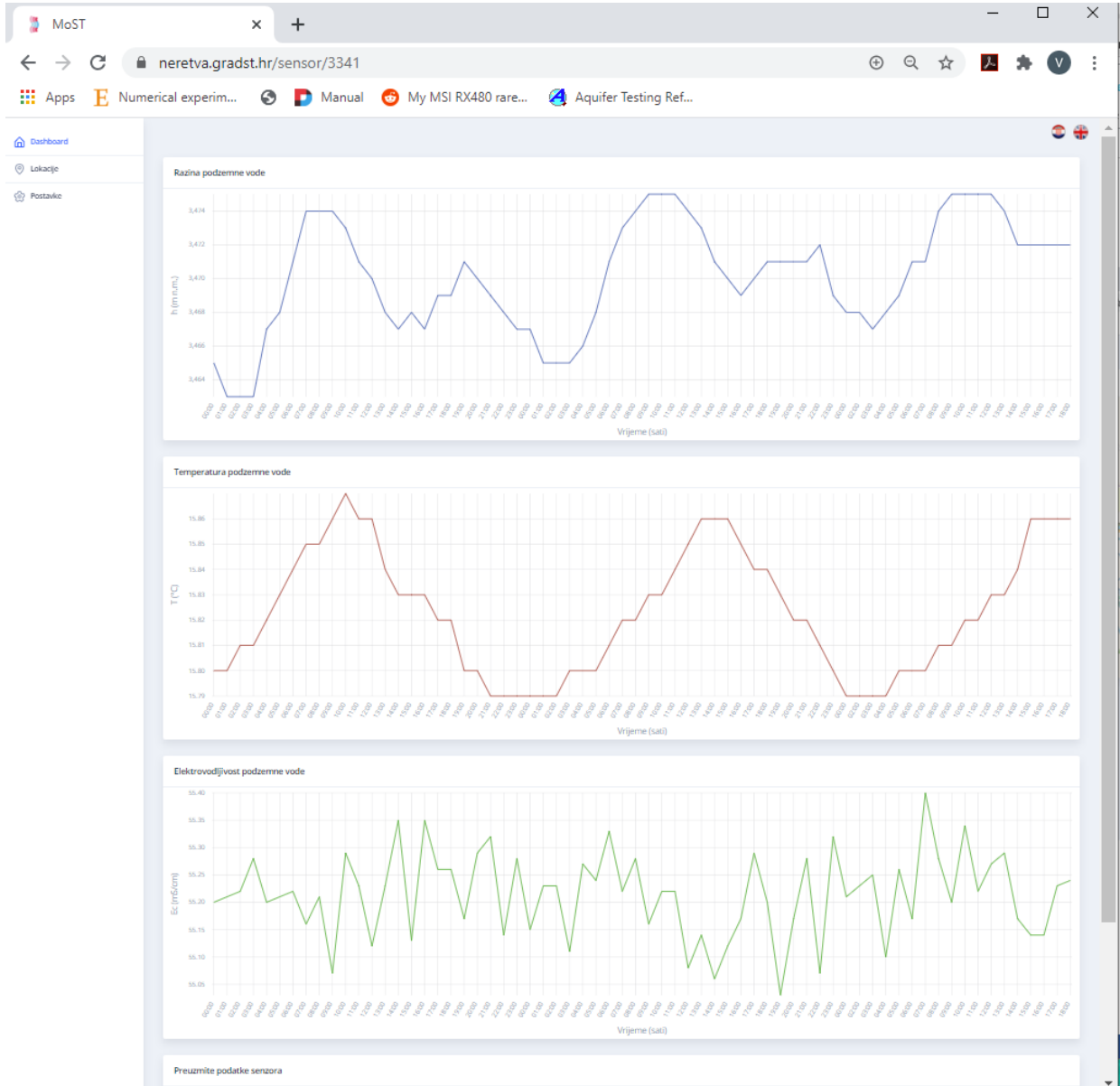*Figure 2 User interface of the MoST Web App – selection of the probes and sensor location/s*

Figure 3 User interface of the MoST Web App – insight to real time values of piezometric head, temperature and electrical conductivity from selected sensor
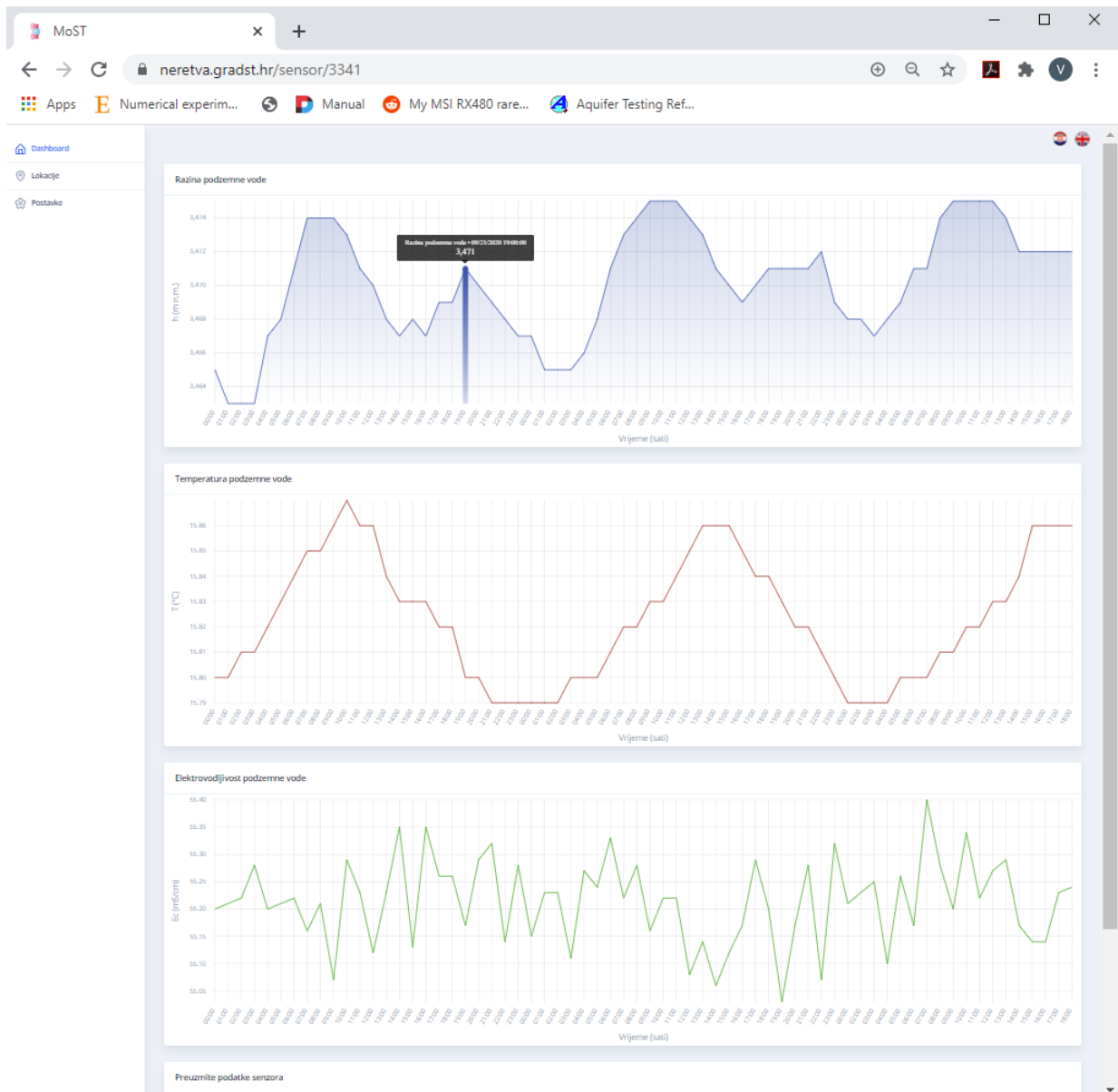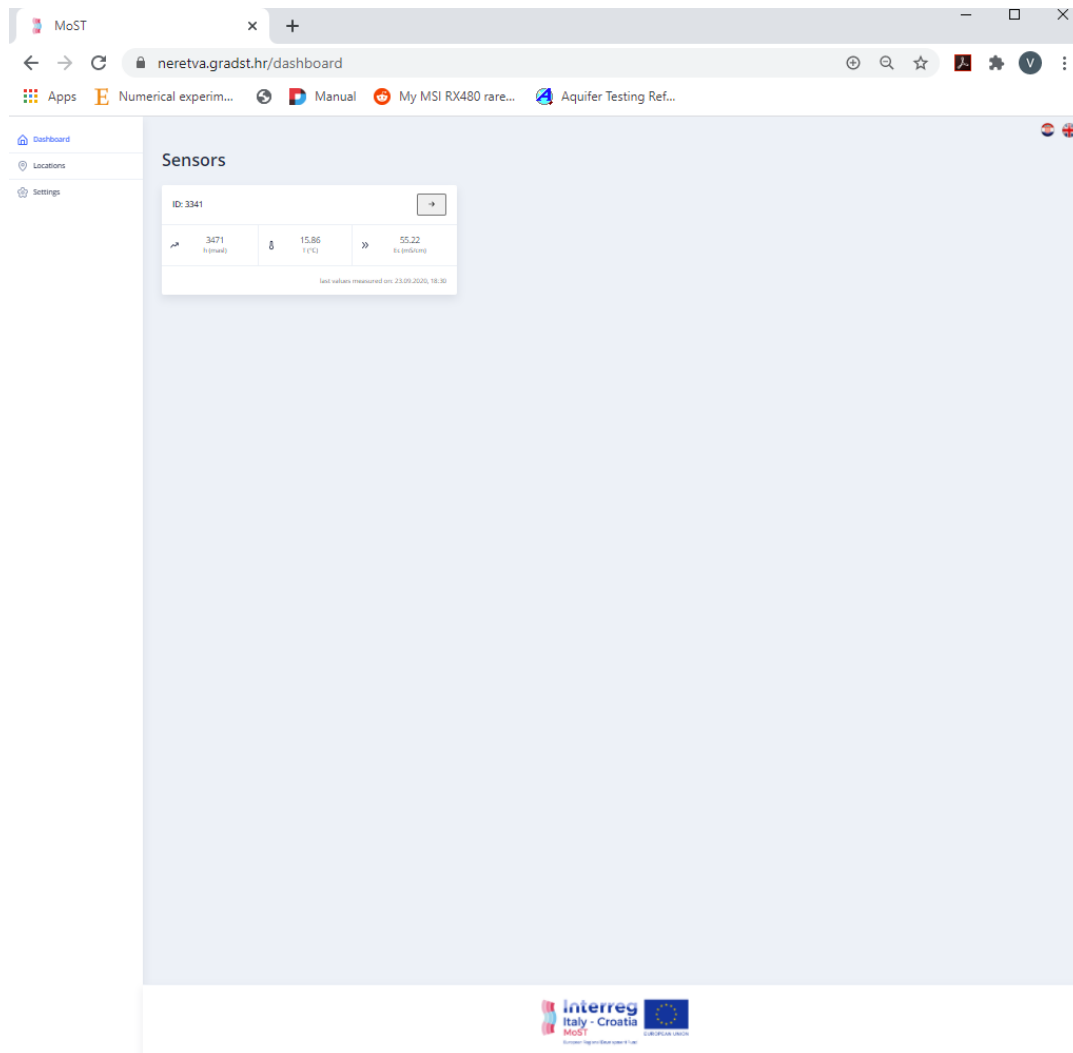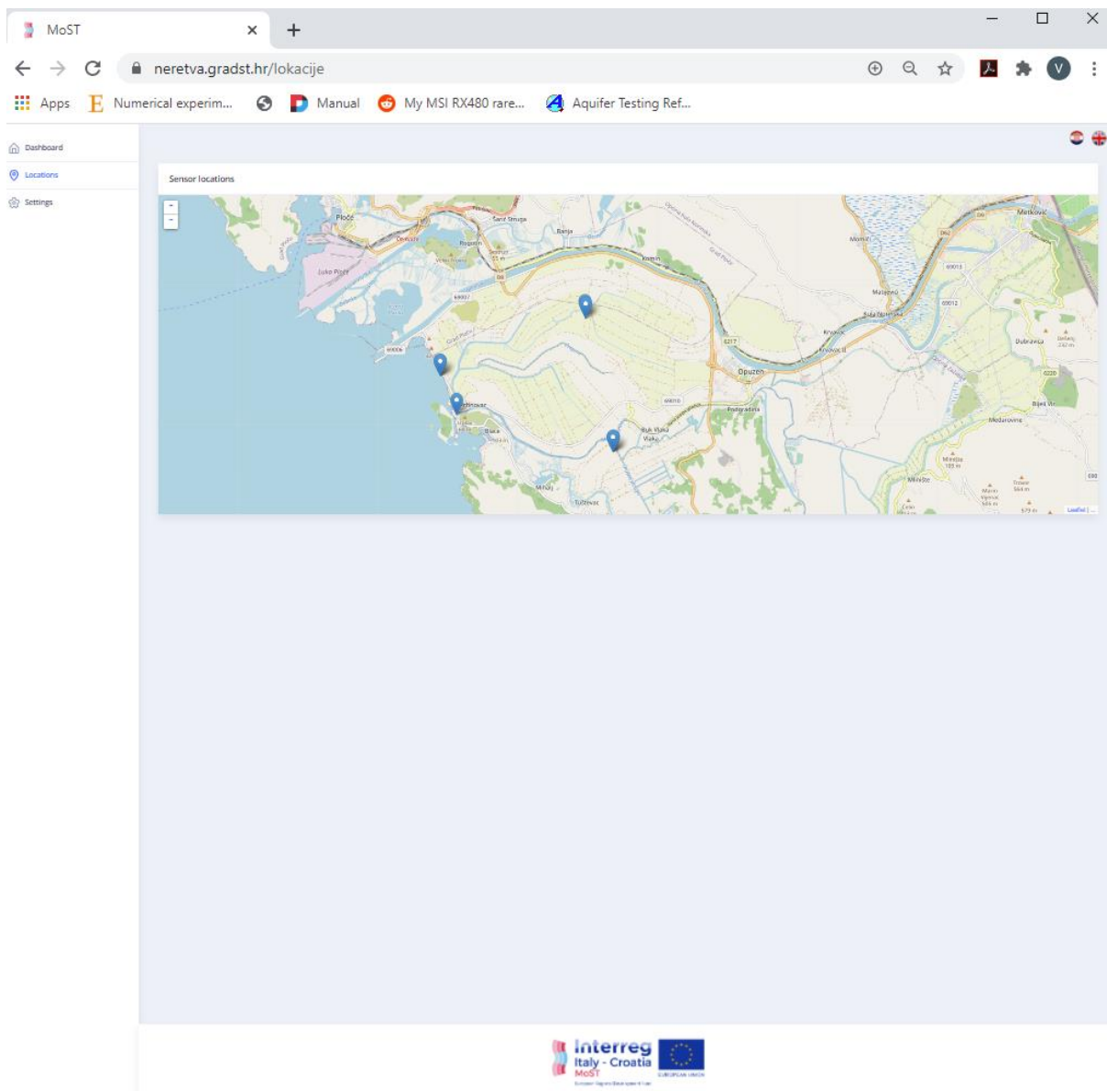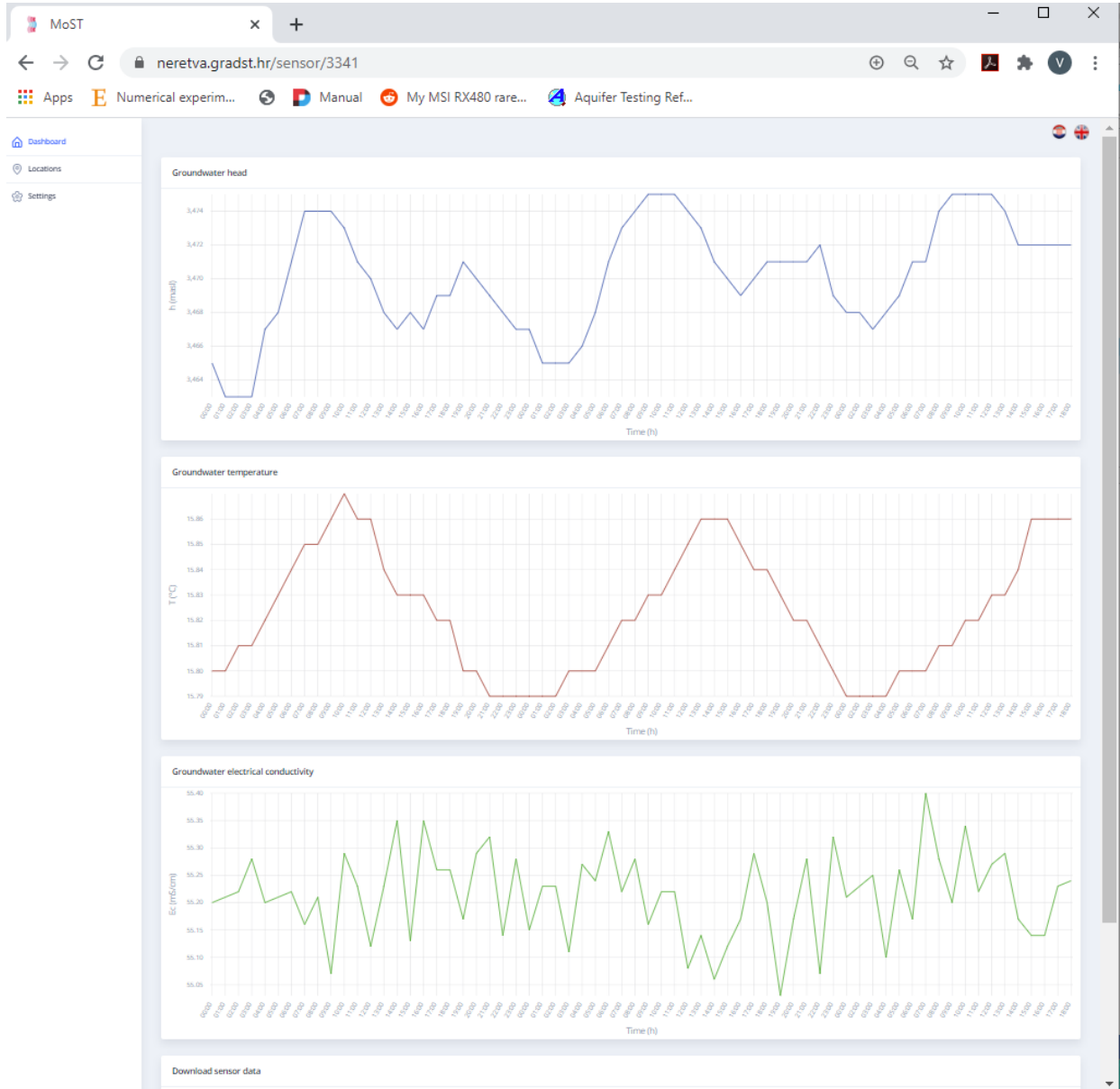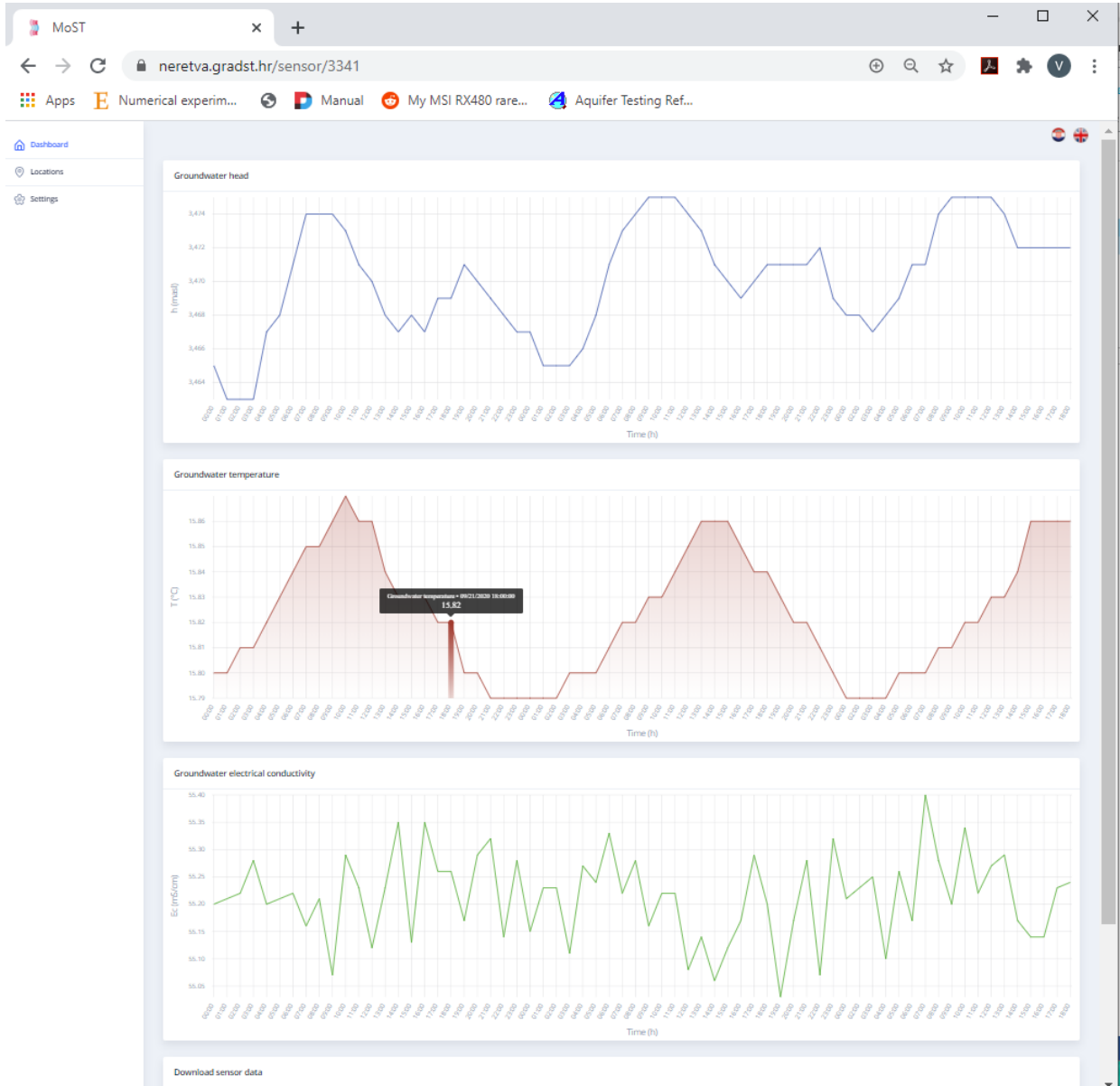
Figure 4 User interface of the MoST Web App – insight to real time values of piezometric head, temperature and electrical conductivity from selected sensor with notification of selected value

Web App – English version

Below, in Figure 5 to Figure 8 Web app is shown with its front end and interface for end users in English language.
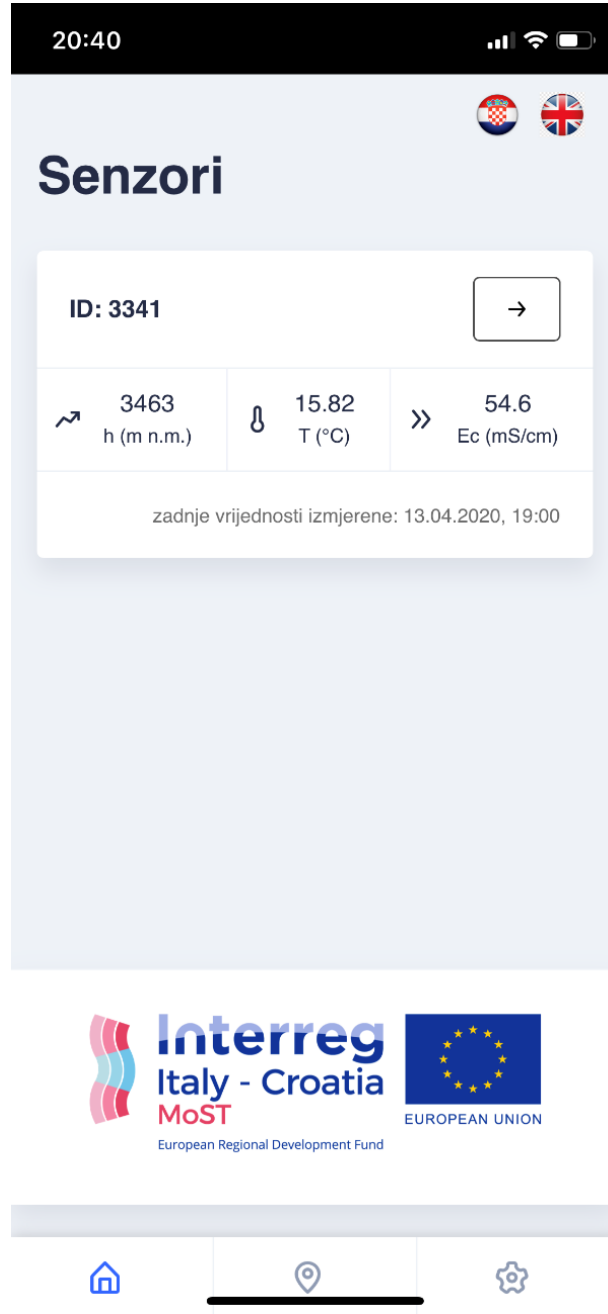

Figure 5 User interface of the MoST Web App

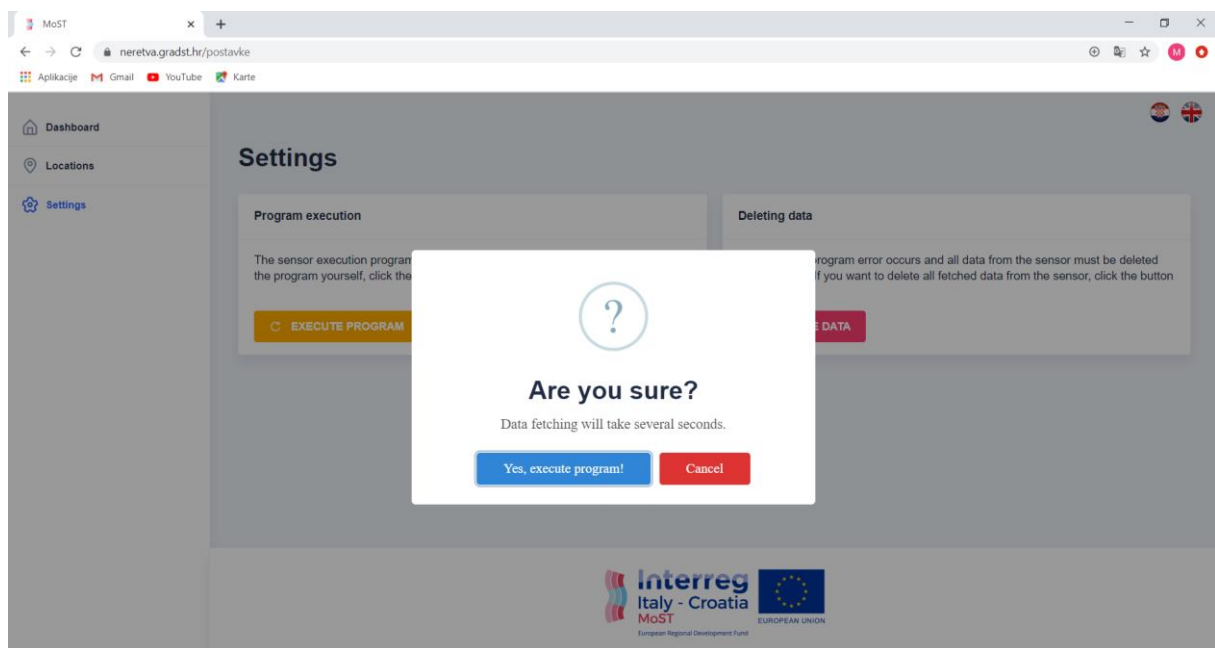*Figure 6 User interface of the MoST Web App – selection of the probes and sensor location/s*

Figure 7 User interface of the MoST Web App – insight to real time values of piezometric head, temperature and electrical conductivity from selected sensor

Figure 8 User interface of the MoST Web App – insight to real time values of piezometric head, temperature and electrical conductivity from selected sensor with notification of selected value

Mobile App – English version

Mobile (Smart phone) App can be downloaded and installed at smart phone once the user opened Web App in web browser. Below, in Figure 9 to Figure 12 Web app is shown with its front end and interface for end users in Croatian language.
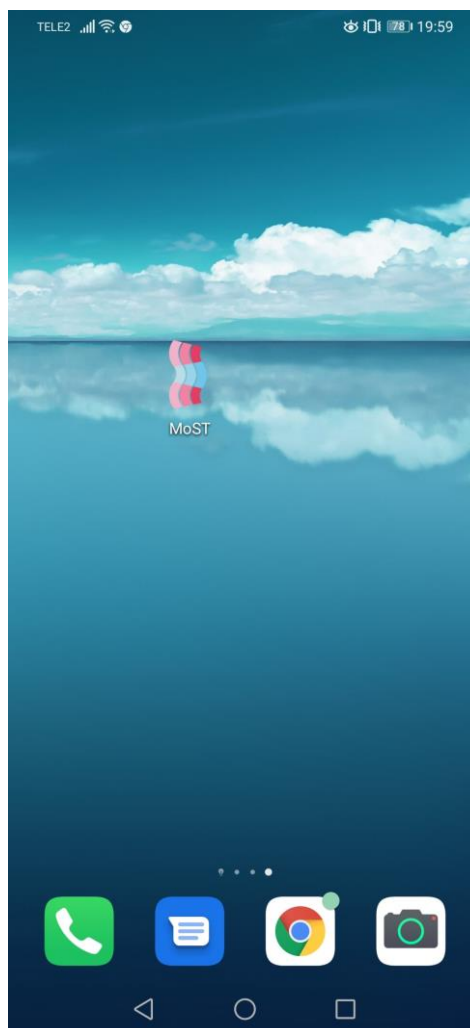
Figure 9 Visual identity of MoST mobile App

Figure 10 Visual identity of MoST mobile App

Figure 11 User interface of the MoST Mobile App
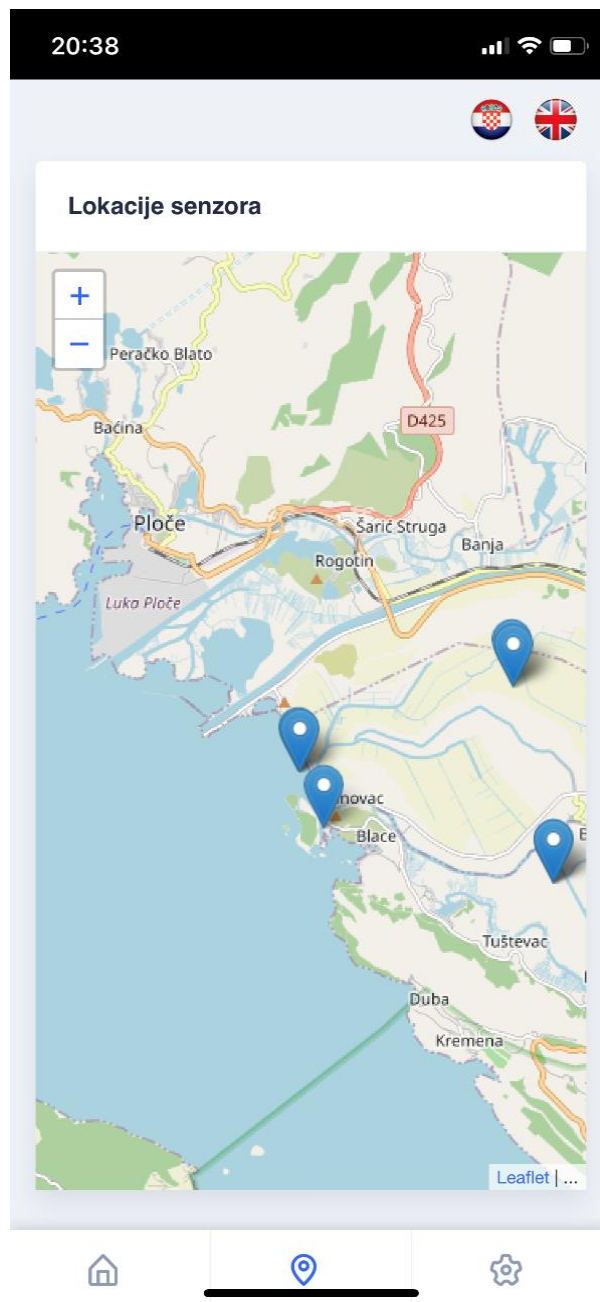
Figure 12 User interface of the MoST Mobile App – selection of the probes and sensor location/s

Figure 13 offers an insight to additional settings option which enables the setting of appropriate and personalized environment based on the end user preferences.

Figure 13 User interface of the MoST Mobile App – selection of the probes and sensor location/s

List of figures