The user can access, visualize, query, and download geophysics and geological data for both soils and buildings; it is possible to set the sequence of layers in the panel layer to view a customized layout, and doing queries by clicking on geometries and download useful files. The crucial task of querying the database is simplified by offering a friendly environment in which the operation can be graphically formulated just by using the hand cursor icon, avoiding the need of playing with the SQL language.

The WebGIS graphical user interface is subdivided into three main areas (Fig. 1): a toolbar (1), the layer panel (2) and the mapview (3). The toolbar provides access to the manage-layers function and research by address. In the central part of the web page is located the map view area; in the bottom right part of the mapview, latitude and longitude are expressed in decimal degrees (WGS 84 EPSG 4326).

The user can interact with the mapview using the view tools (zoom [icon] [icon] or pan [icon] to any place). In the layer panel, the user can expand the group and single layers with the expand tree icon [icon]. The user can control visibility of layers by clicking on [icon] button. The icon [icon] can be used to zoom to the selected layer. The drop icon [icon] ——• opens the opacity slider to set transparency level. The map displayed is the overlay of layers whose sequence can be chosen and organised by users.

Figure 1. In light green are shown the elements of the WebGIS graphical user interface

The platform is composed of two layer typologies: Base Maps and CLARA WebGIS layers.
The Base Maps are: OpenStreetMap, Bing Aerial Layer, Bing Road Layer, Bing Hybrid Layer, Google Hybrid, Google Normal, Google Satellite, Ortho Map, Dark Base Map.
CLARA WebGIS layers are organised in four groups: DATA SOURCES FOR BUILDINGS, DATA SOURCES FOR SOILS, CLARA GEOPHYSICAL DATA and CLARA PRODUCTS.

In addition to base maps, the user can select up to 25 layers. The information display mode is possible at all levels: clicking on the geometry, the factsheets of all the active geometries arranged under the selected point will appear in nested mode (Fig. 2-A.1).

The last row of the factsheets contains the hyperlink to download data, where available (Fig. 2-A.2).
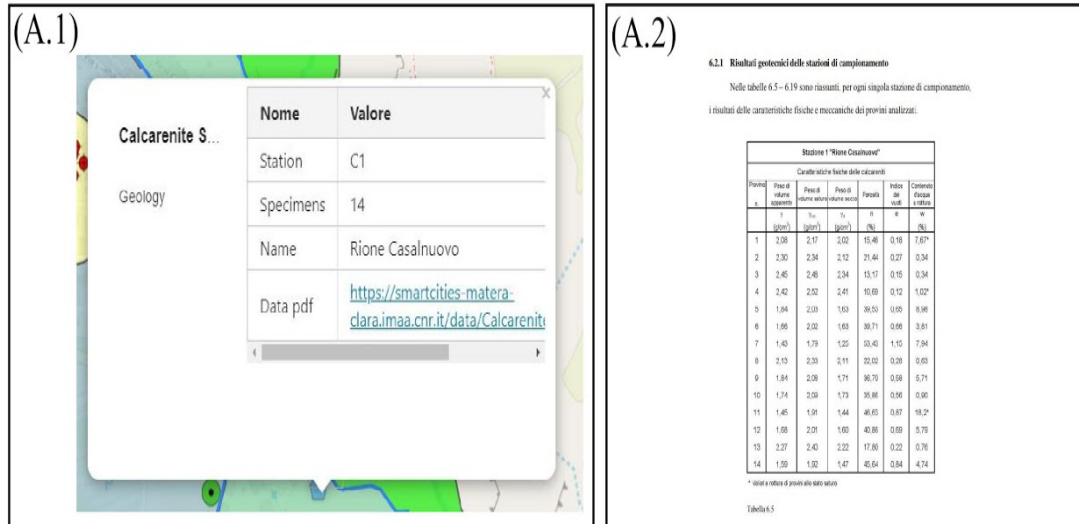

Figure 2