

FIG
2018
ISTANBUL



**Presented at the FIG Congress 2018,
May 6-11, 2018 in Istanbul, Turkey**

XVI FIG Congress 2018
6-11 May 2018
ISTANBUL

FIG Congress 2018



**EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:
ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES**

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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES

The digitization of the territory aimed at the processes of knowledge, protection, development and transformation

Today it is possible to acquire everything ...



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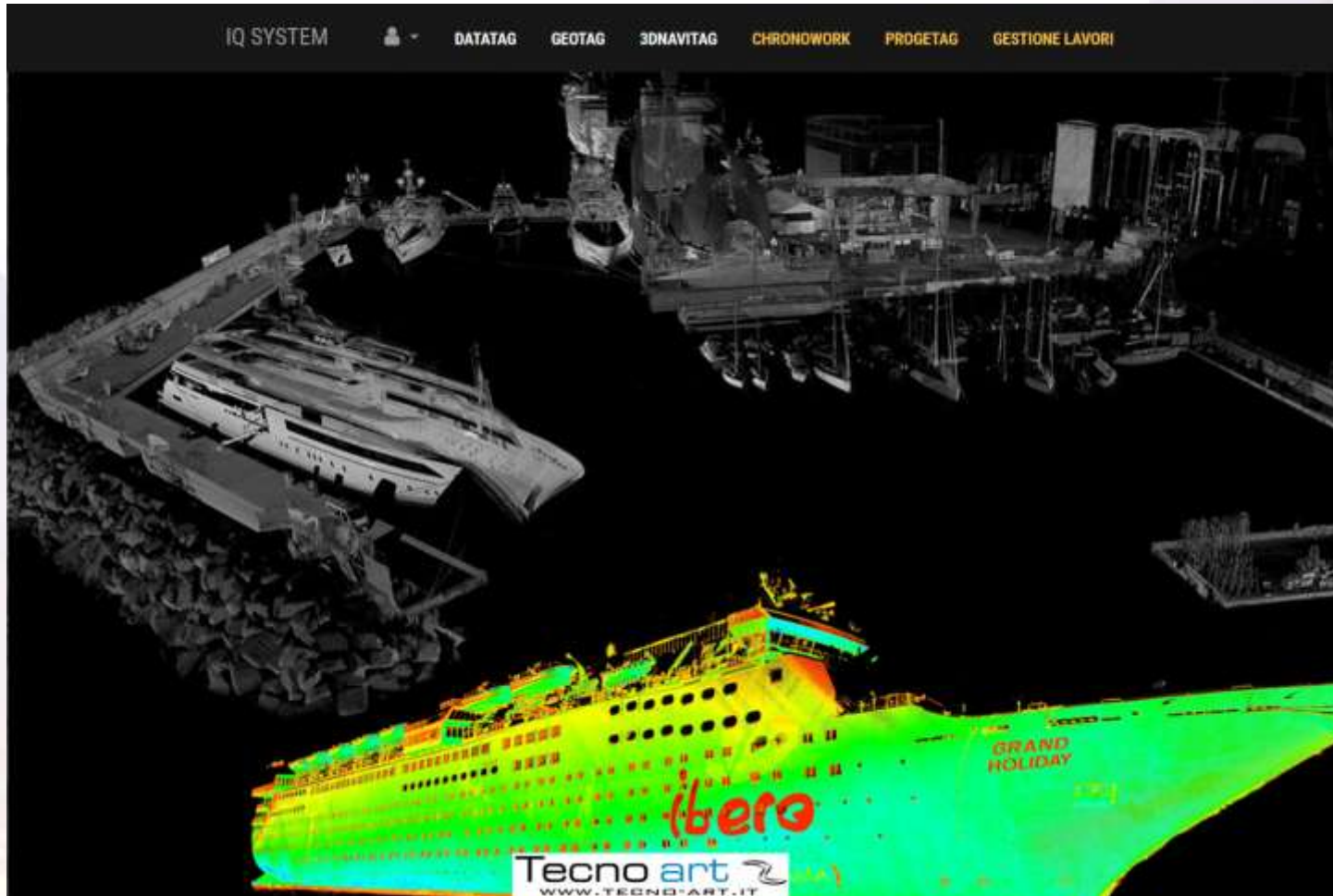
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ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES

Port



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Airport



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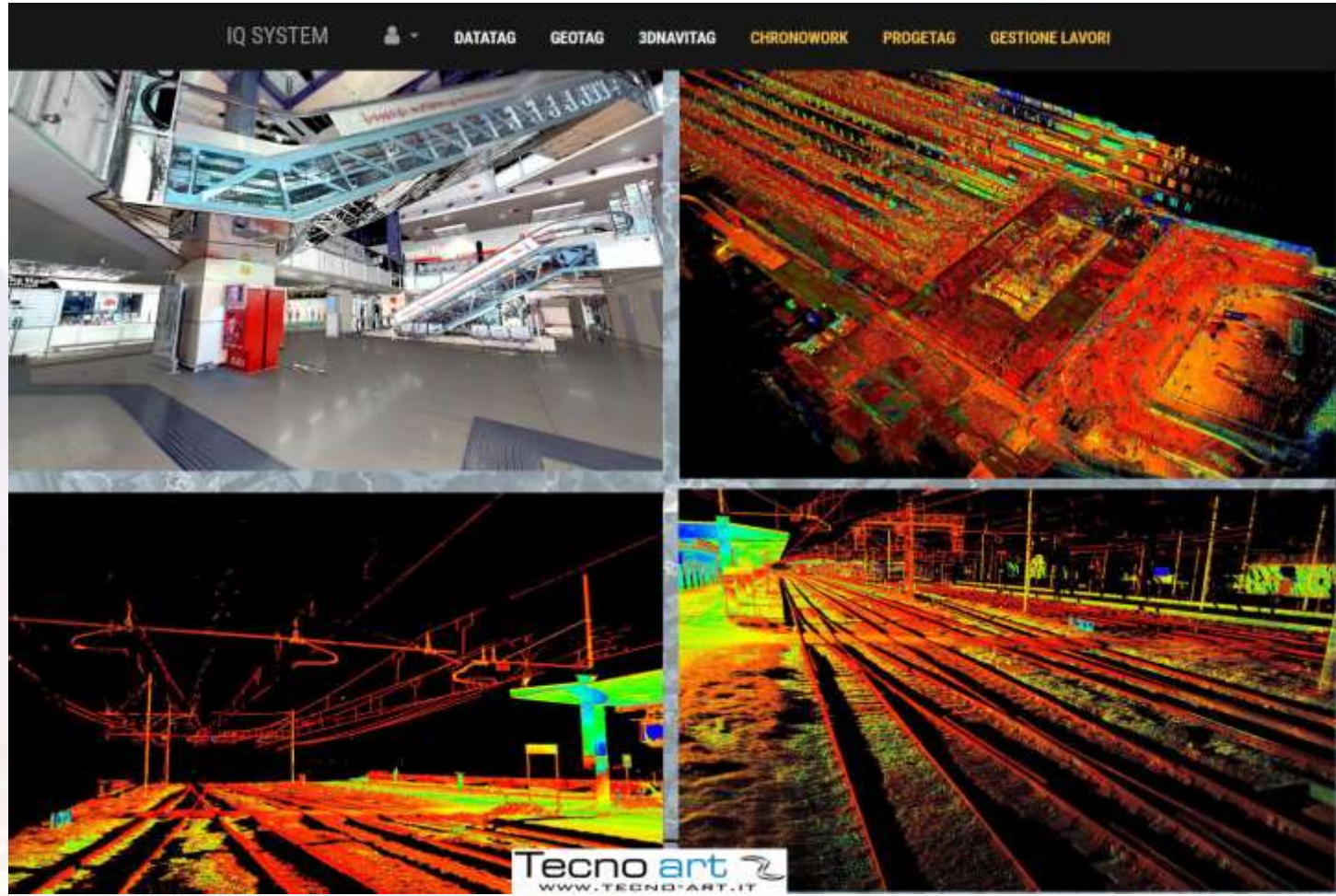


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Railway – Railway Station



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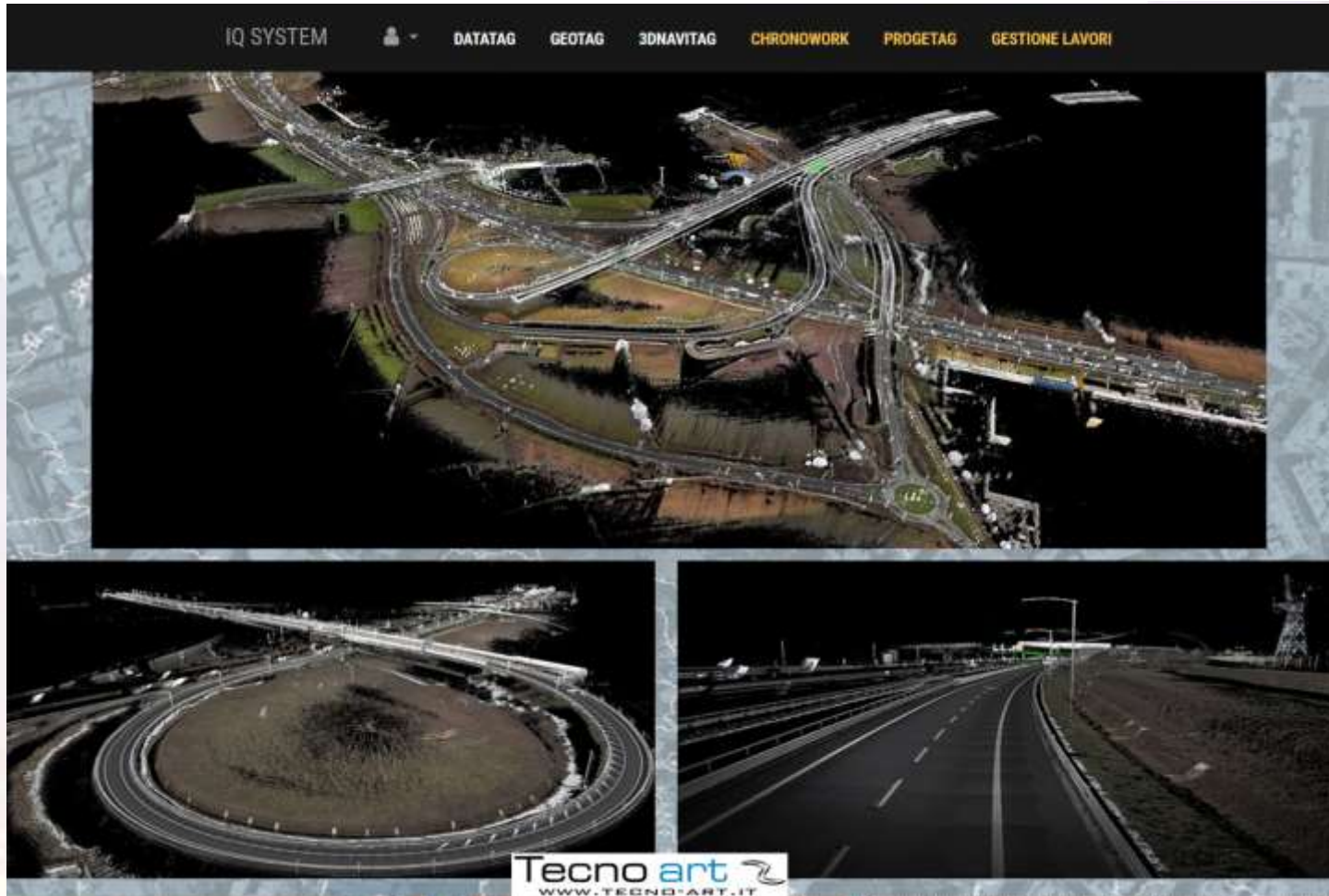


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Highway



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Plants - Industrial Sites



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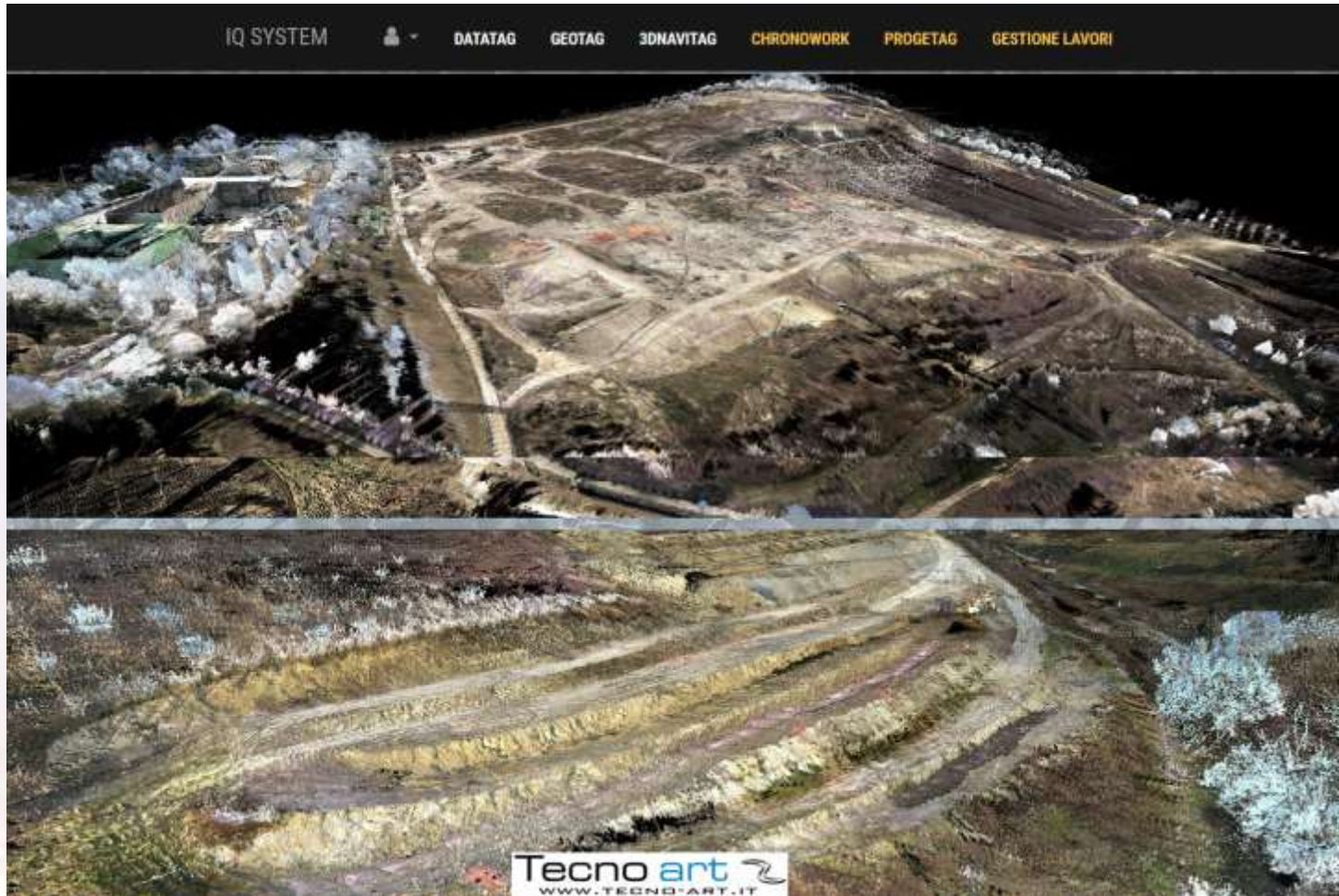


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Landfill - Quarry



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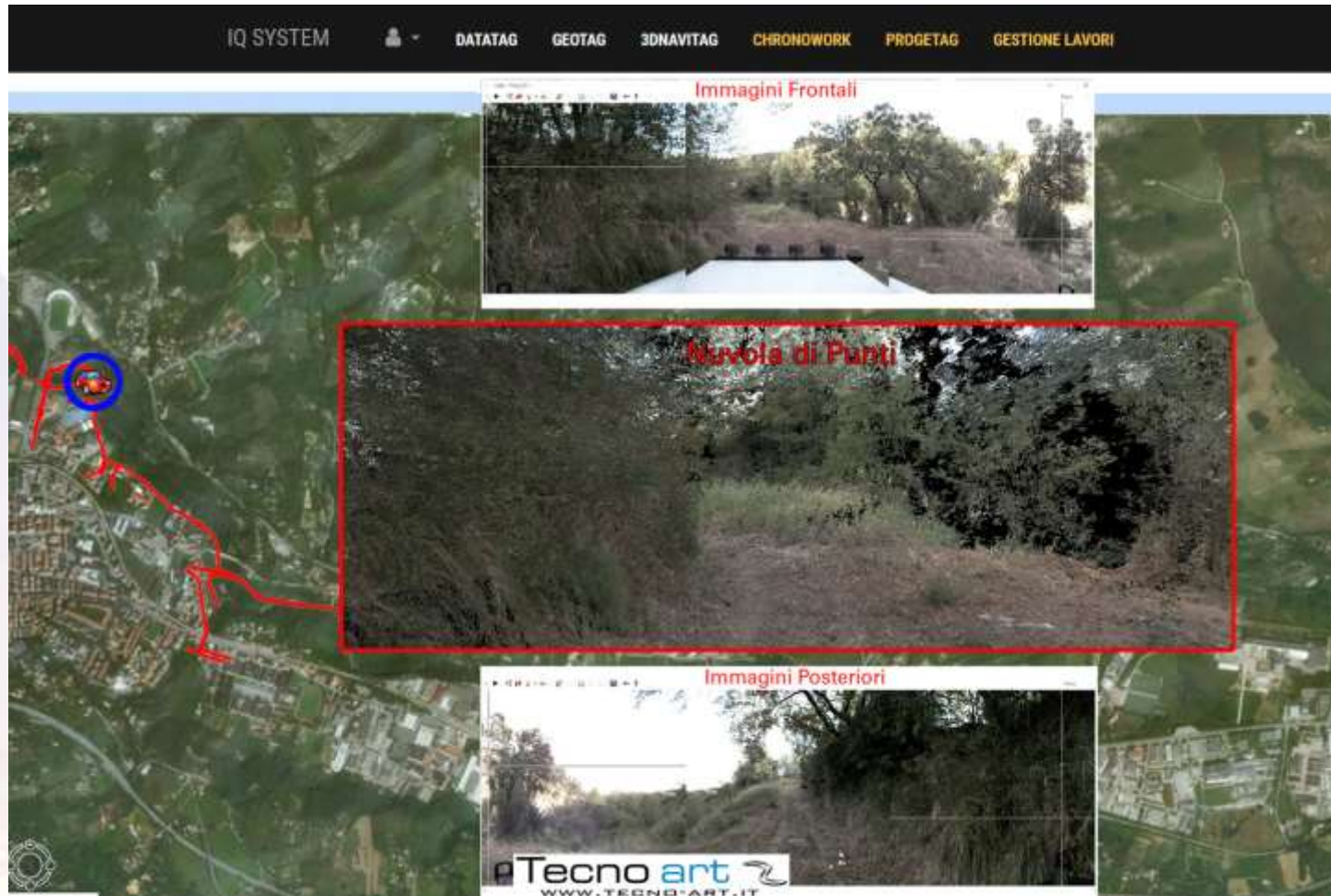


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Mountain paths



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Cultural Heritage - Submillimetric Mapping

IQ SYSTEM DATATAG GEOTAG 3DNAVITAG CHRONOWORK PROGETAG GESTIONE LAVORI

ROMA

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Urban Road and Underground

The screenshot displays the IQ SYSTEM software interface. At the top, a navigation menu includes: IQ SYSTEM, DATATAG, GEOTAG, 3DNAVITAG, CHRONOWORK, PROGETAG, and GESTIONE LAVORI. The main view is divided into three sections: a 3D map on the left with a red circle highlighting a specific location; a central street view camera view showing a road with green and blue lane markings; and a bottom-right section titled "INTERPRETAZIONE RADARGRAMMI SIGNIFICATIVI" (Significant Radargram Interpretation) showing two sets of radar data labeled "DAT_001" and "DAT_002" with red annotations. The Tecno art logo and website URL (WWW.TECNO-ART.IT) are visible at the bottom of the interface.

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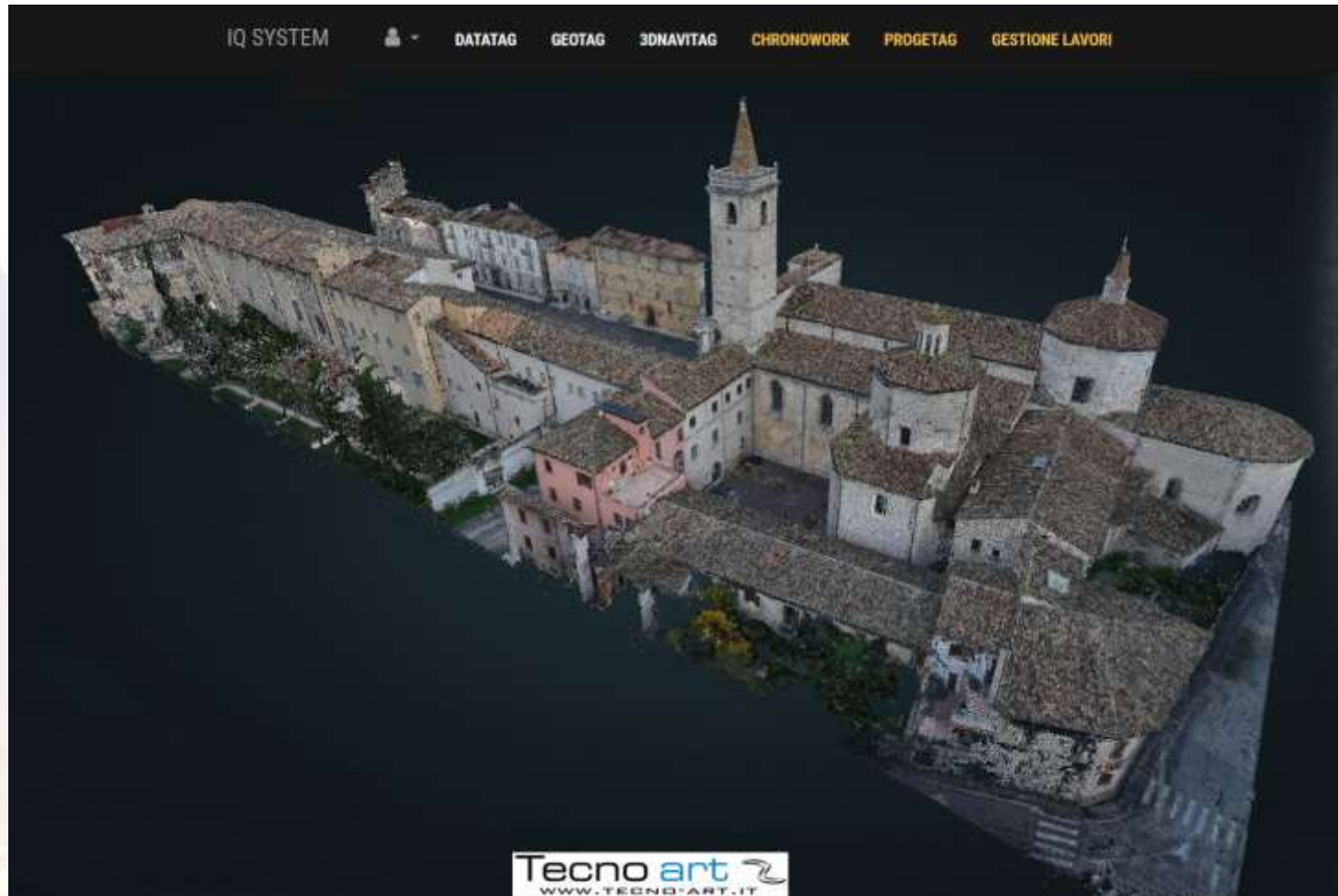
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Urban district - 10 Ha -10 billions of points – Interior and external



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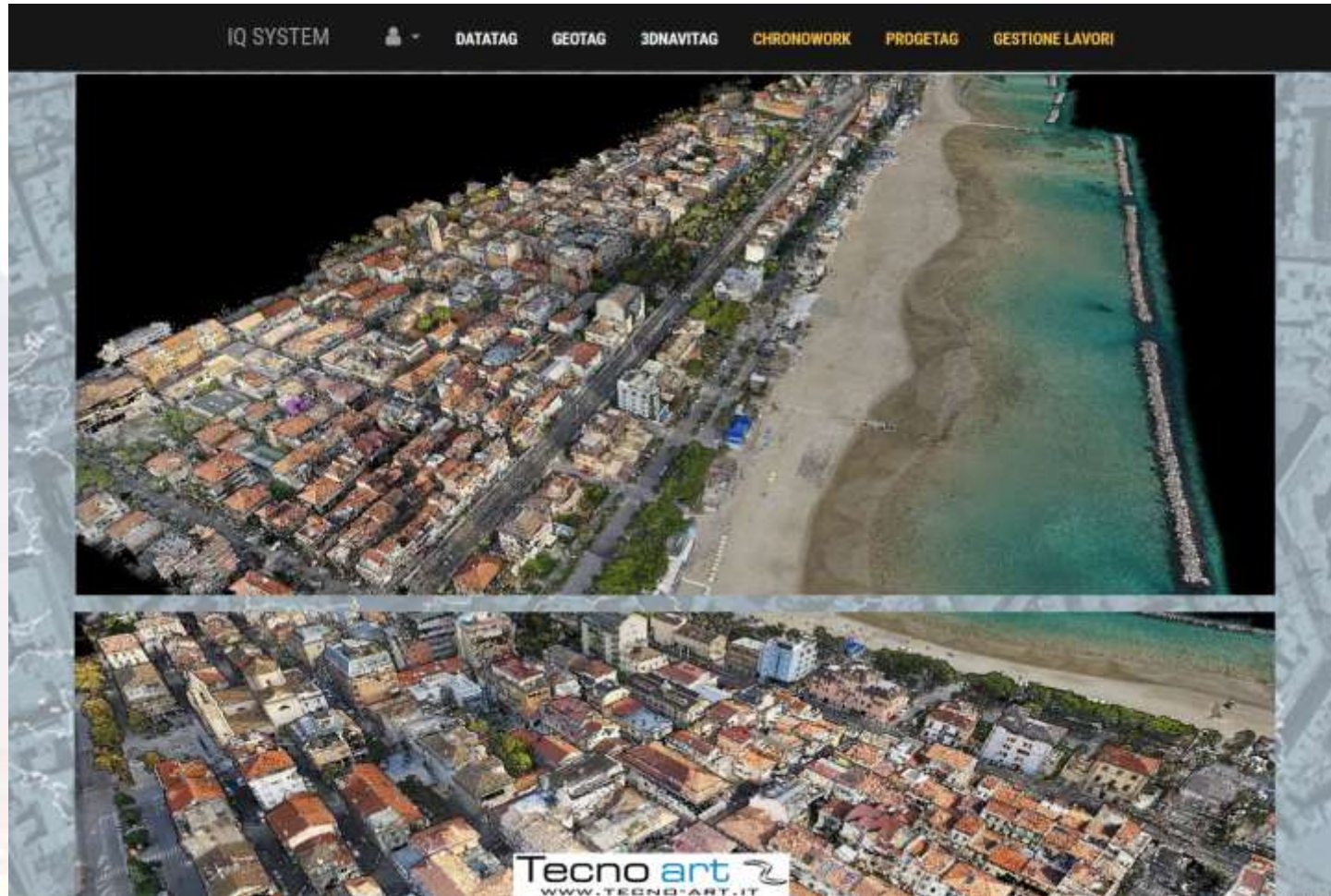
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Urban Municipality – 100 Ha – More than 100 billion of points



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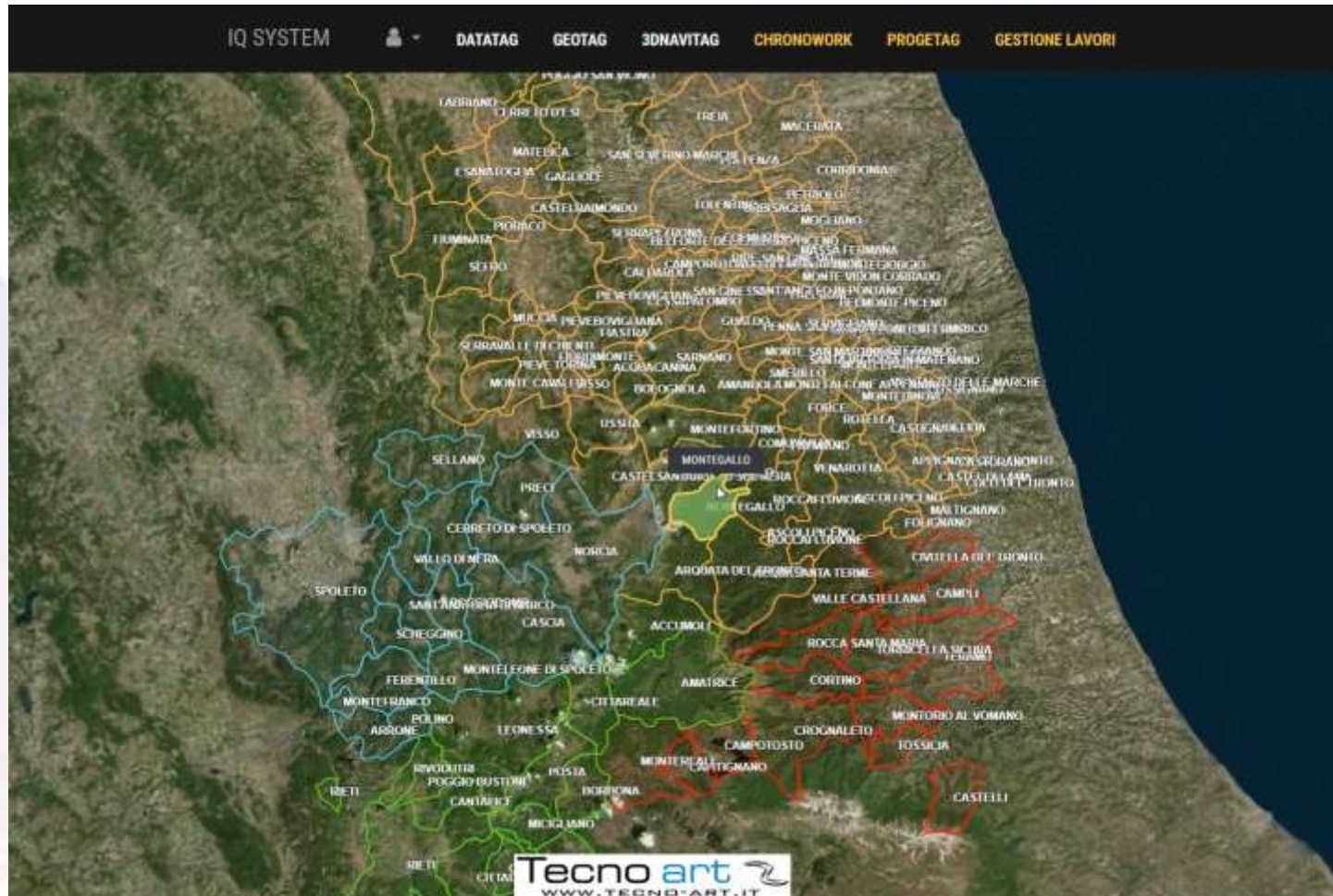
Our Goal:

To create an integrated SW platform able to

- store and manage a huge amount of data
- consult them in real time
- extract data at different level of detail according to the purposes

..in order to manage (almost) all the needs of a
Smart City!

..or an entire Sisma Area of 140 Municipalities



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

First step: Ascoli Piceno



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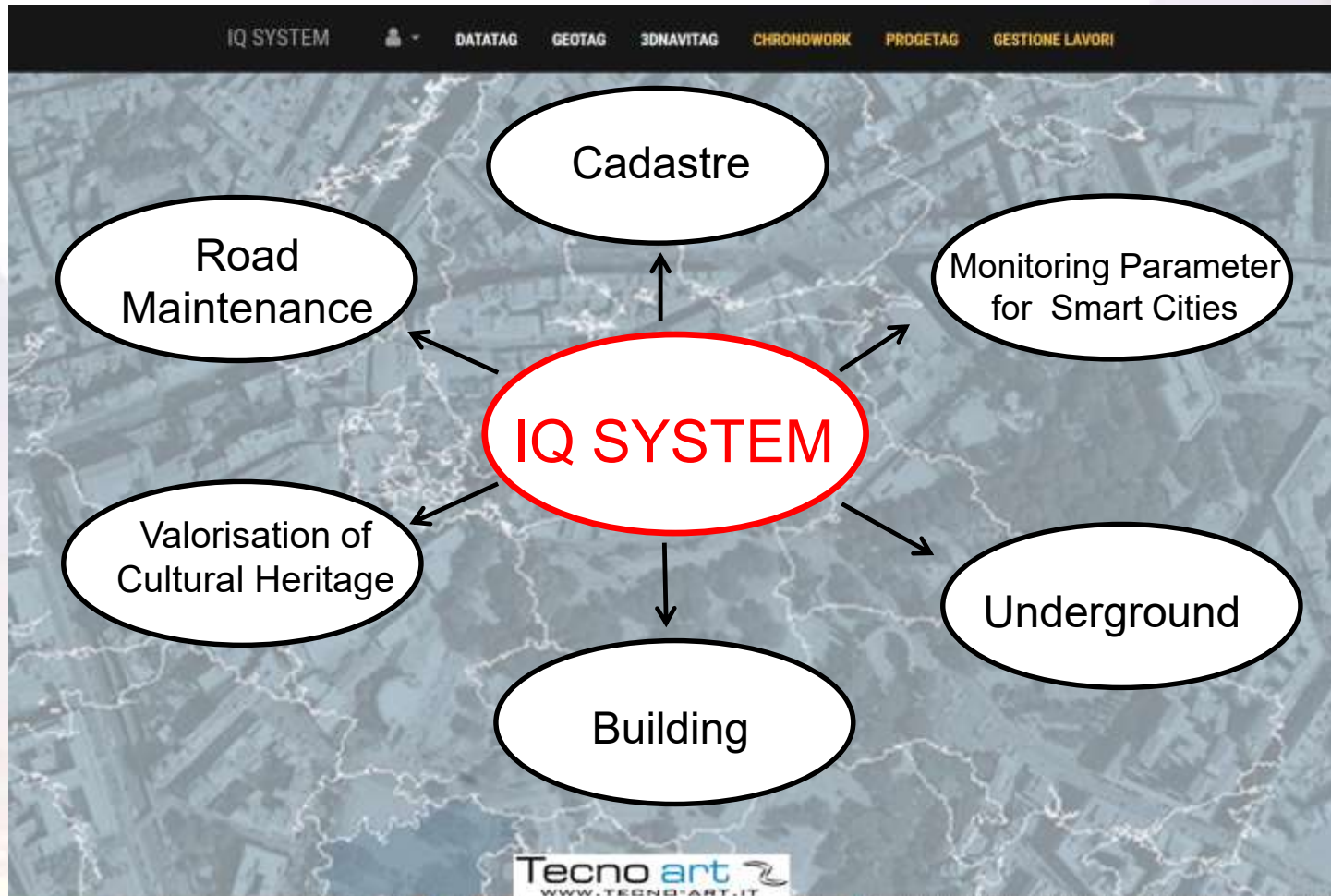
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Our Intelligent Quality System - Fields of application



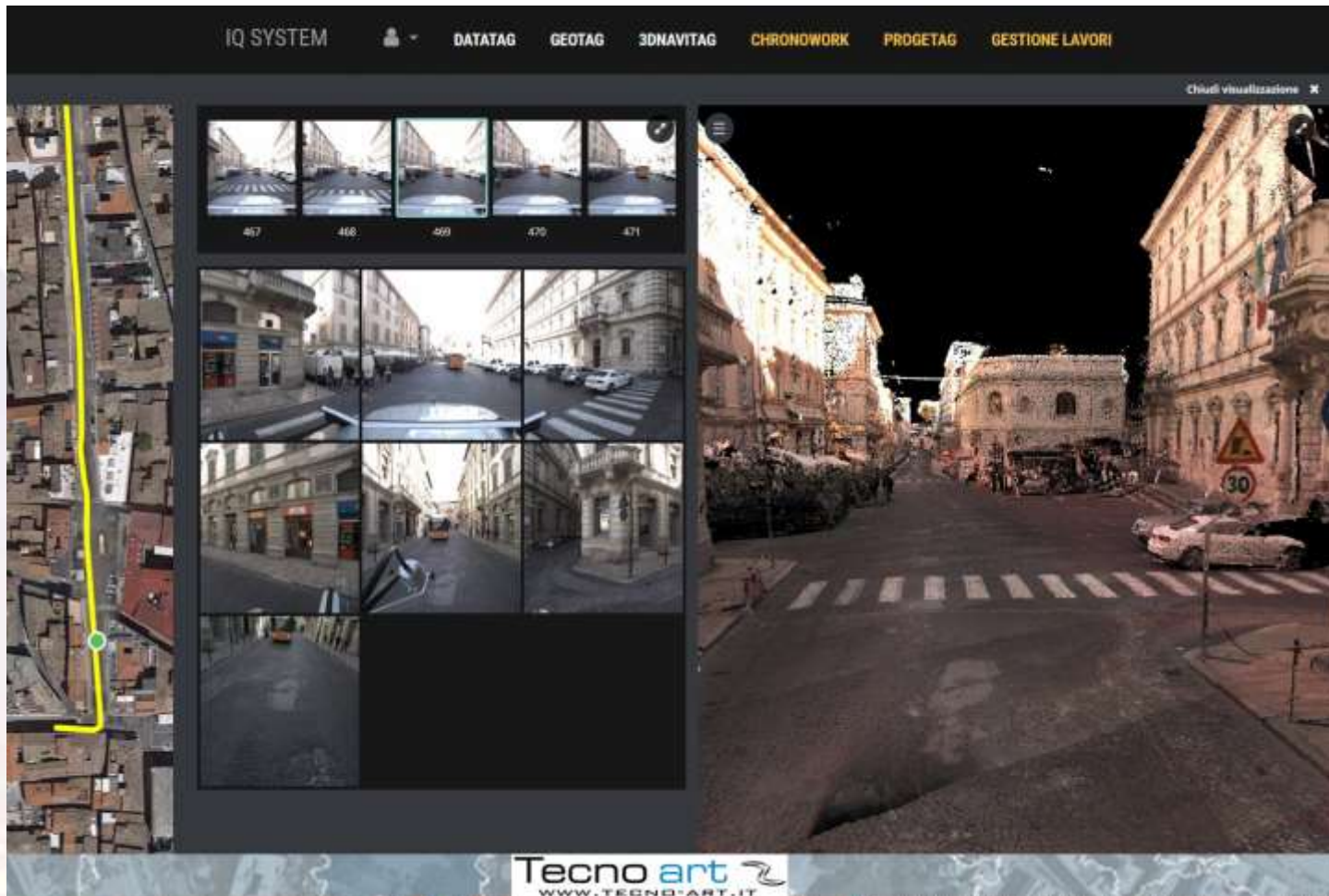


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Consultation of metric and photographic data



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Vertical signage

IQ SYSTEM DATATAG GEOTAG 3DNAVITAG CHRONOWORK PROGETAG GESTIONE LAVORI

Nuvola

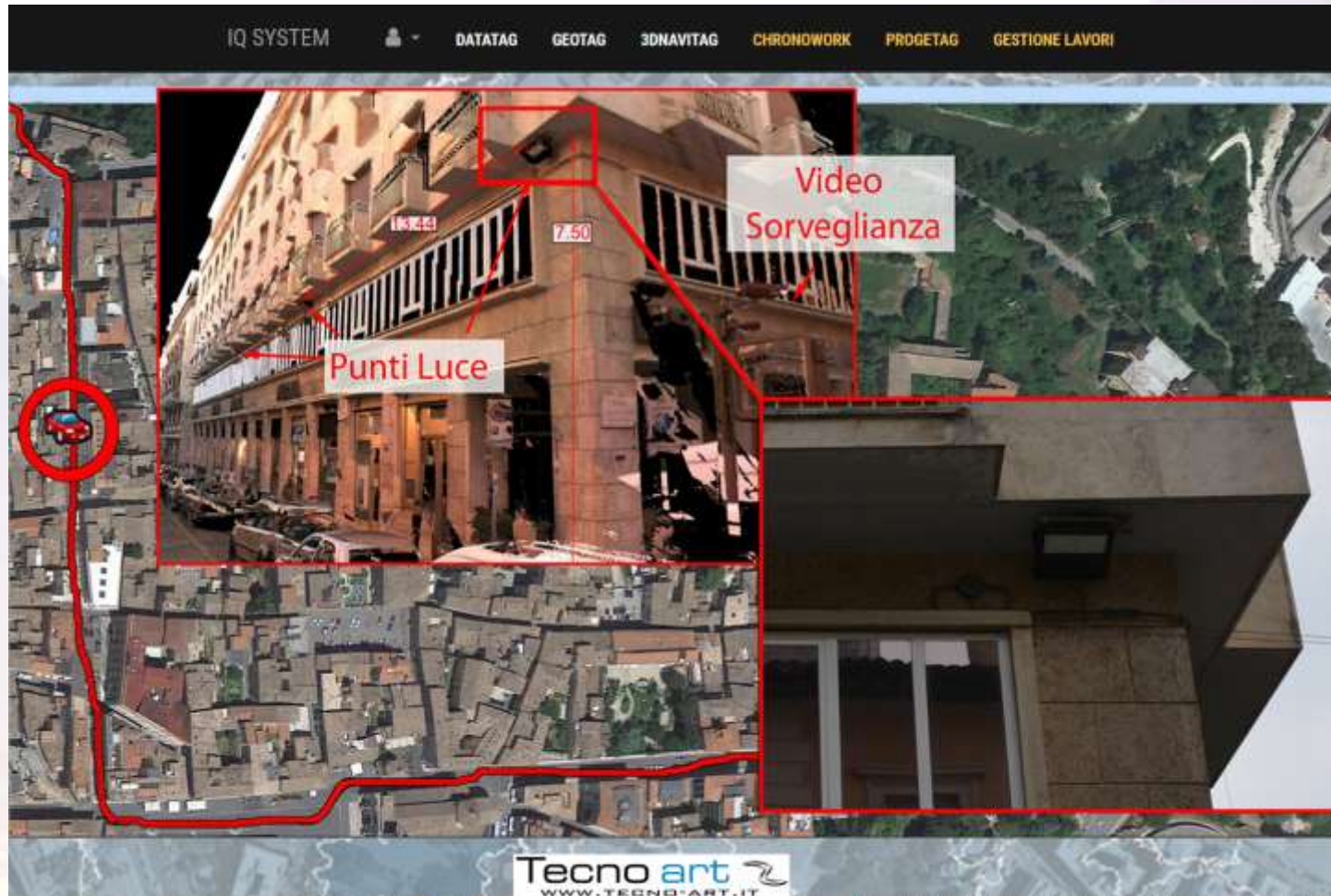
Foto

N.	X	Y	Z	D0002	DZ
P1	2403698.181	4745601.895	154.653		
P2	2403698.100	4745601.810	152.359	2.31	2.30
P3	2403698.708	4745601.873	152.361		
P4	2403700.420	4745601.042	152.452	1.00	0.09
P5	2403699.950	4745599.995	155.687		
P6	2403699.713	4745599.468	152.437	3.26	3.25

length 3D: m length 3D: m area: m²

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Lighting - Video surveillance systems





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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Street number – Drive Ways

The screenshot shows the IQ SYSTEM software interface. At the top, there is a navigation bar with the following menu items: IQ SYSTEM, DATATAG, GEOTAG, 3DNAVITAG, CHRONOWORK, PROGETAG, and GESTIONE LAVORI. The main content area is divided into two parts. On the left, there is a 3D point cloud visualization of a street scene, with a red line indicating a measurement of 2.27 m and another red line indicating a measurement of 1.10 m. On the right, there is a technical drawing of a gate with the following dimensions: 0.37 m, 0.39 m, 2.27 m, 1.10 m, and 3.60 m. Below the 3D visualization, there are several red-bordered images showing details of the street scene: a yellow light fixture, a black door with graffiti, a 'PASSO CARRABILE' sign with the number 139, and a black trash bin. A red line connects these images to a larger photograph of the gate on the right. The word 'ROMA' is visible on the map background. At the bottom of the screenshot, there is a logo for 'Tecno art' with the website address 'WWW.TECNO-ART.IT'.

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Horizontal signage - Road conditions



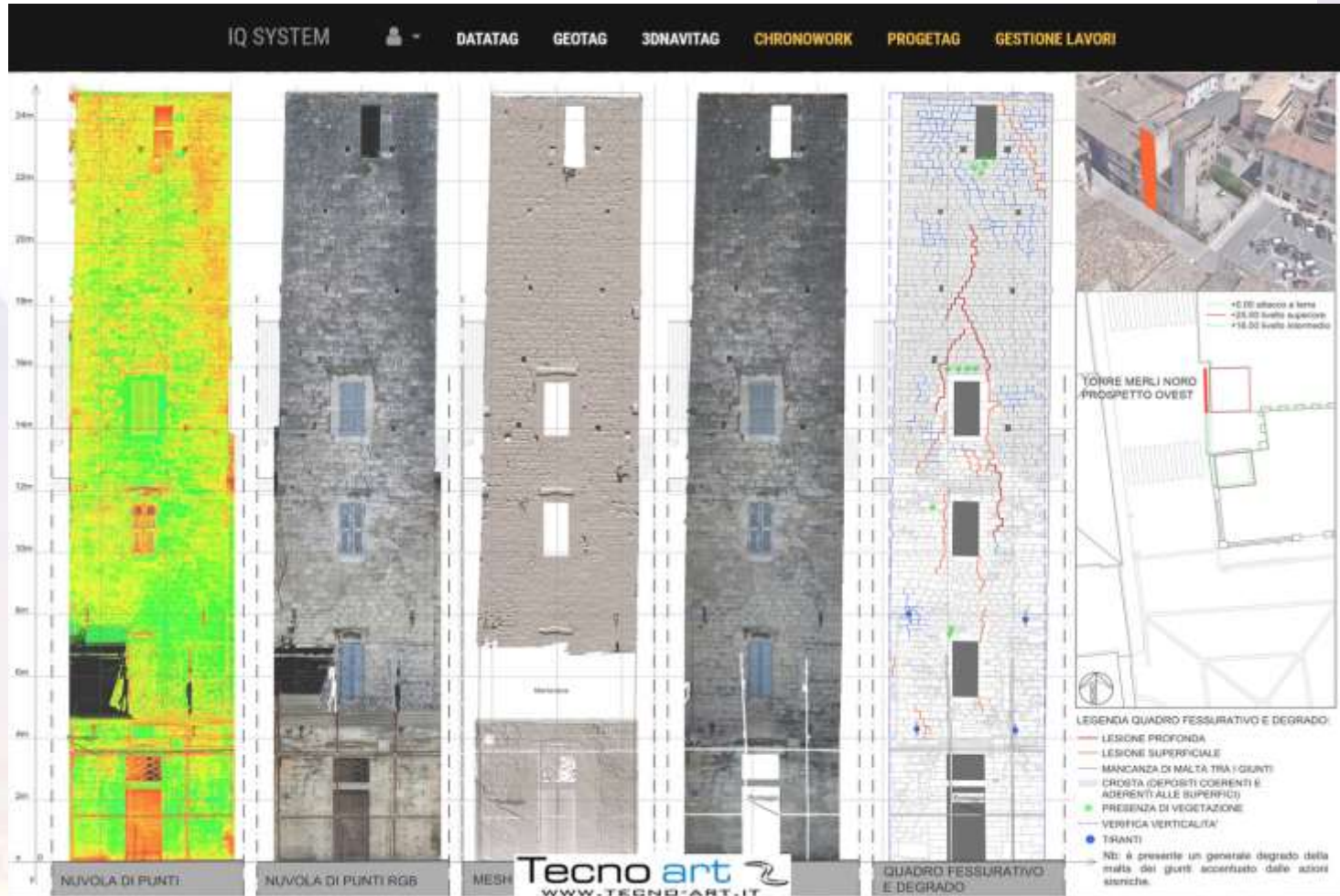


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Buildings condition: technical draws



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Consultation Technical Elaborations : Orto-image/Photoplane



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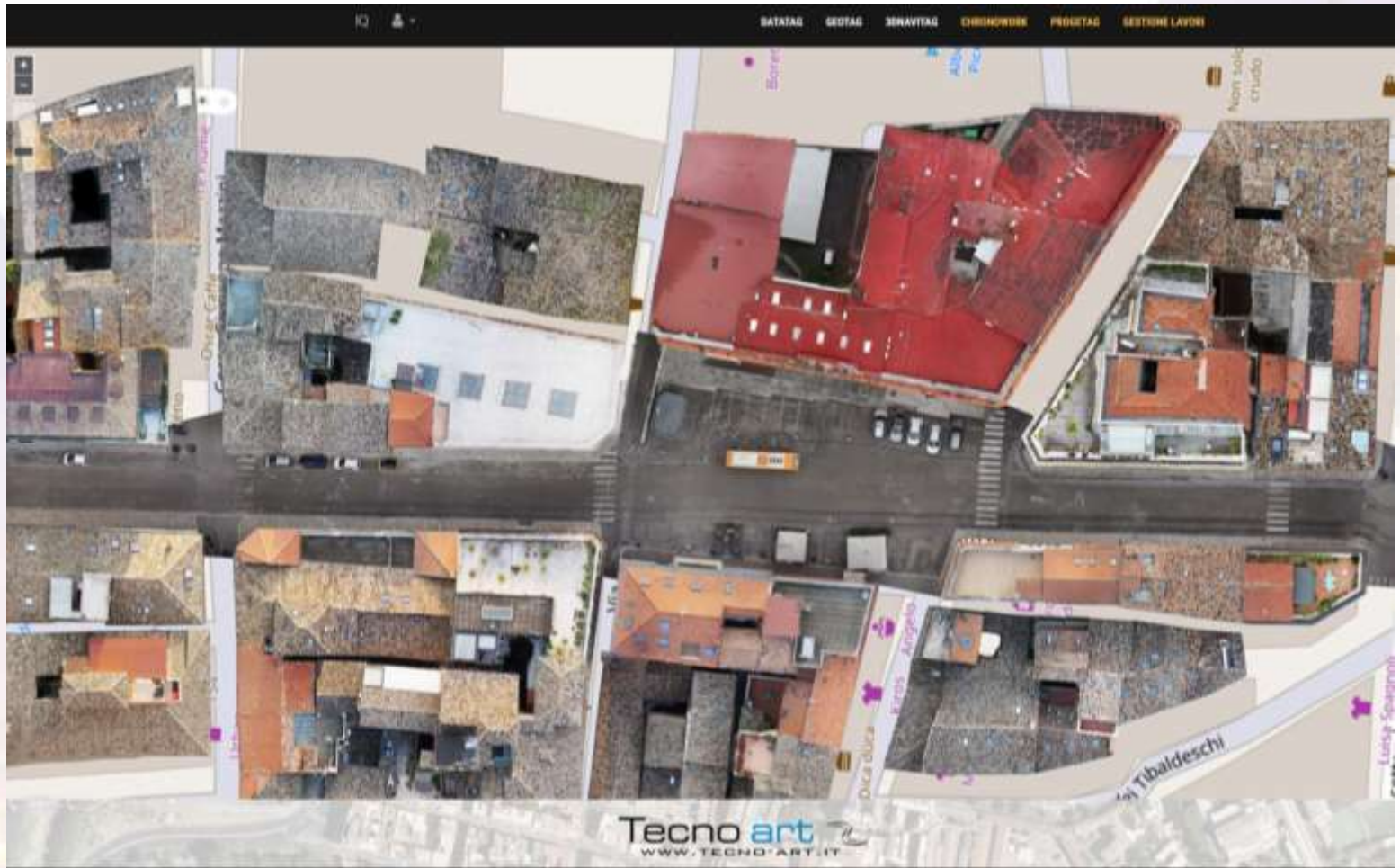


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Consultation Technical Elaborations : Infrastructure



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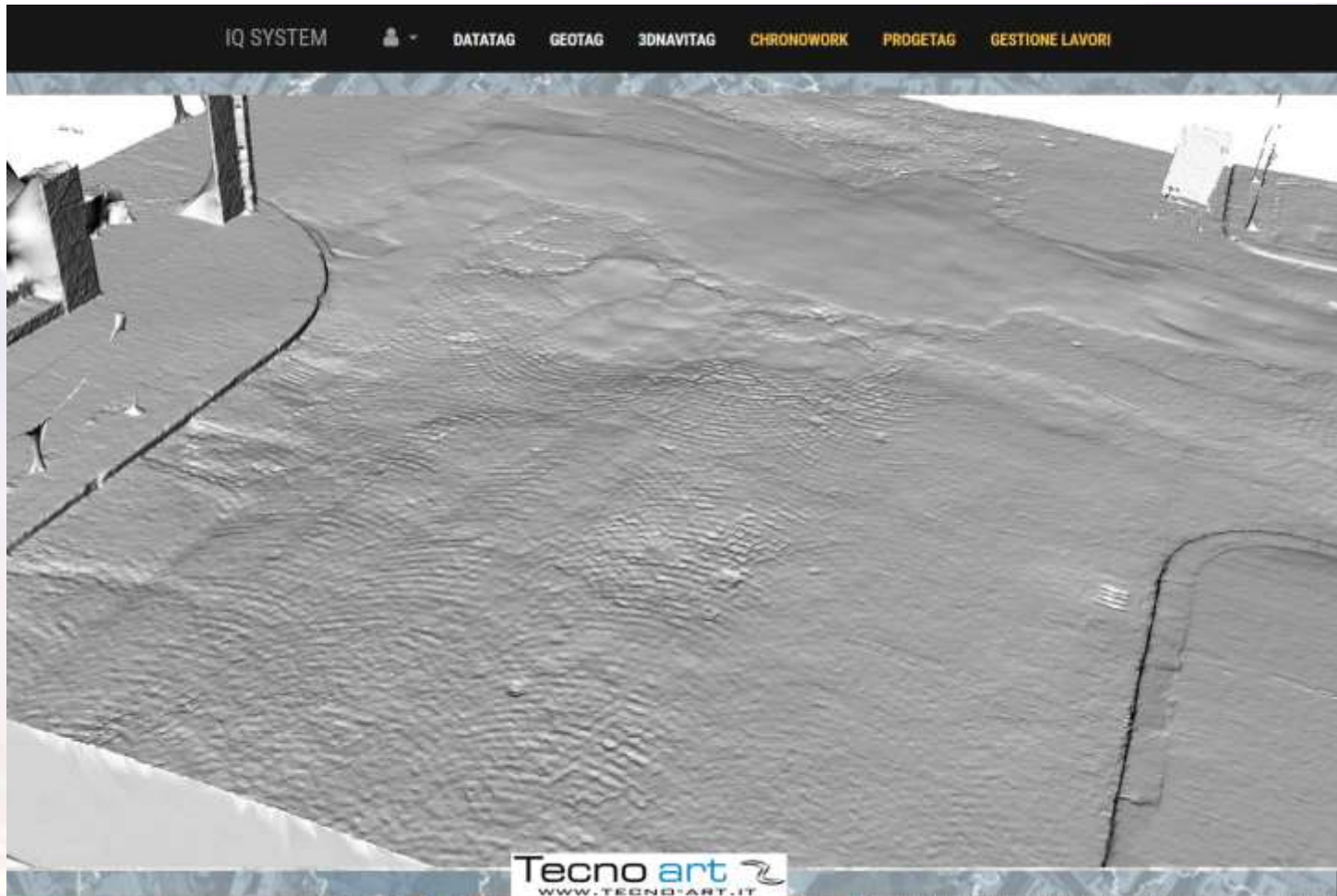


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Consultation Technical Elaborations : Mesh



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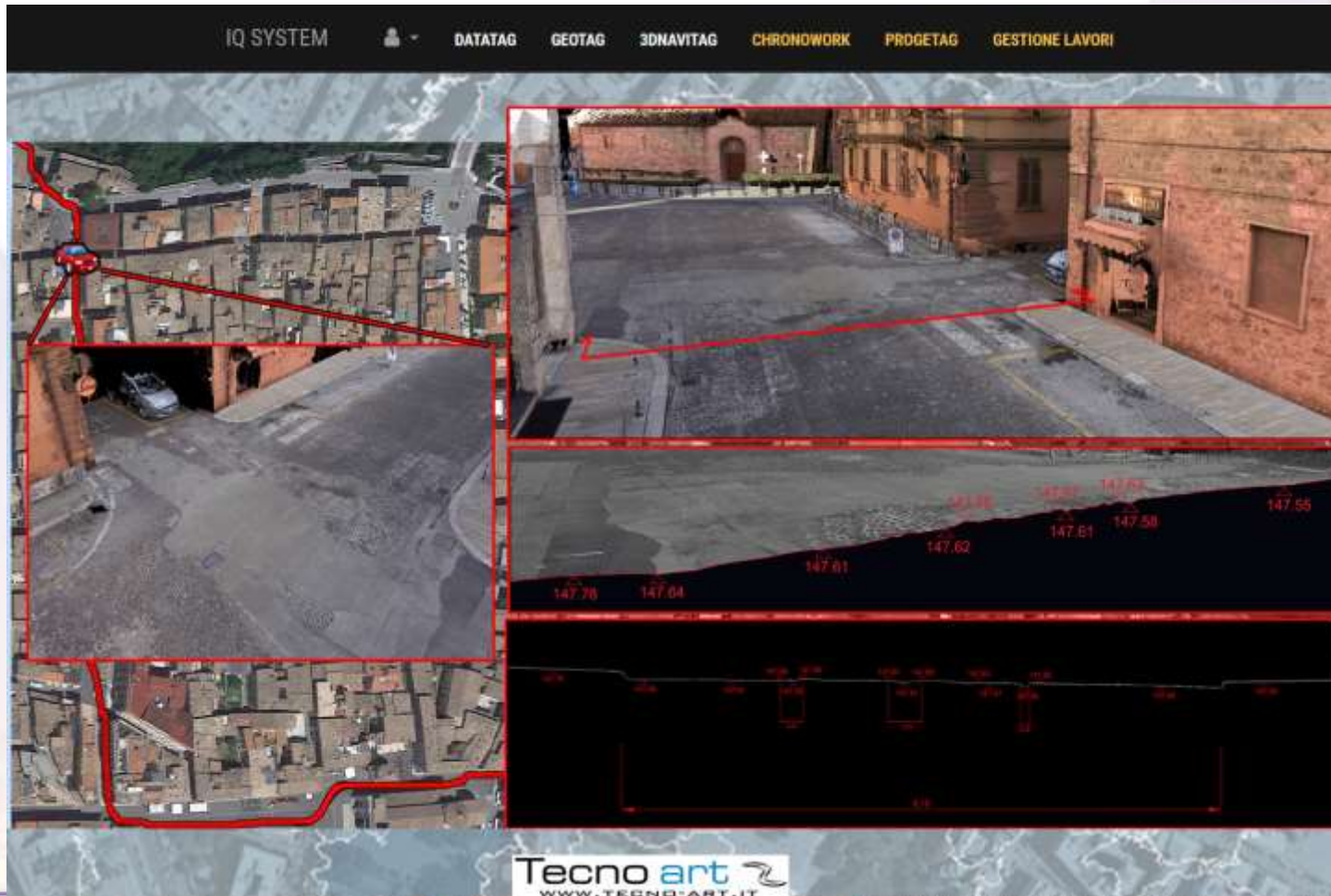


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Consultation Technical Elaborations : Section drawing



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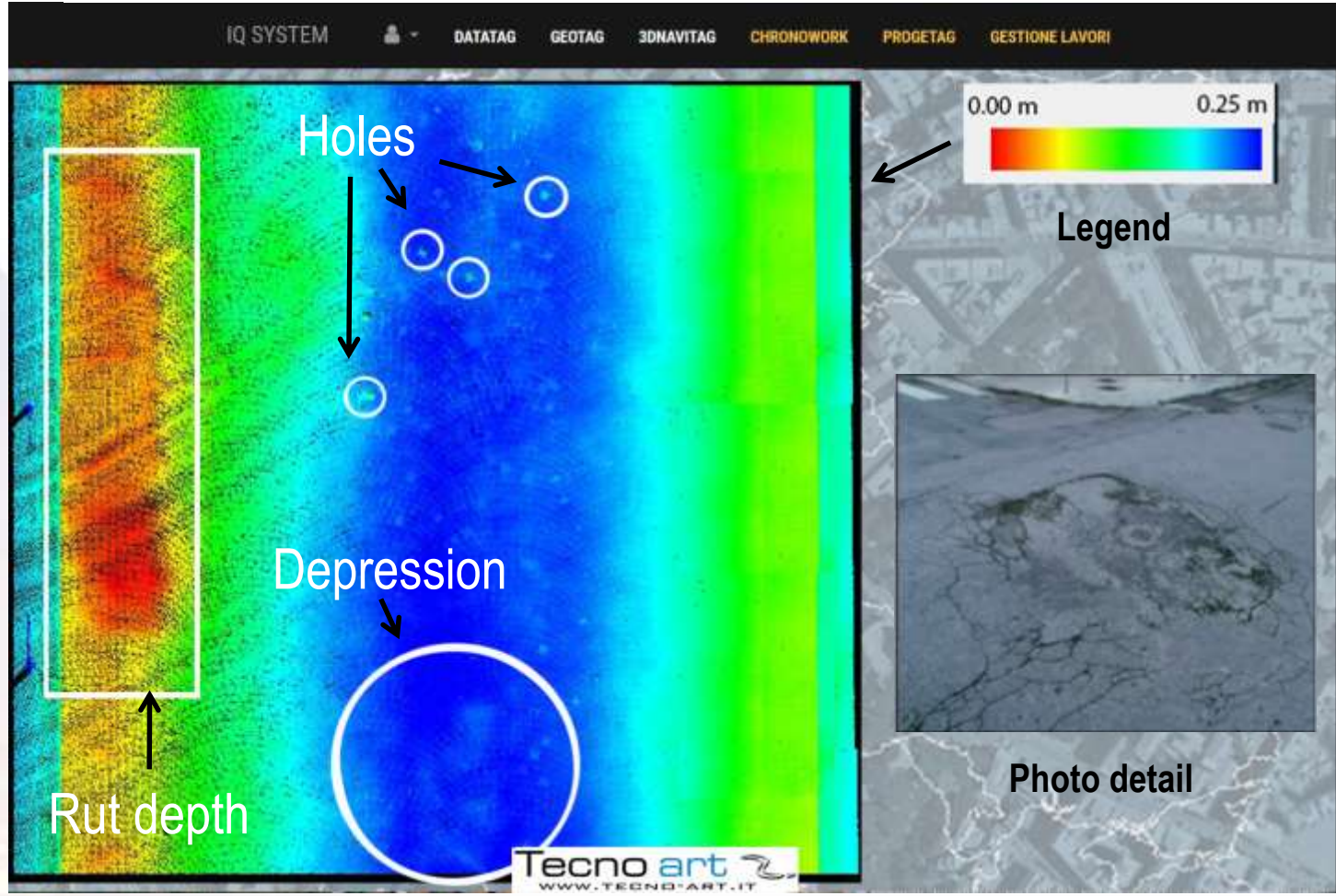


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Analysis of the state of the road pavement



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Map of Undergrounds



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Map of Undergrounds



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Consultation of Technical Elaborations of a Building

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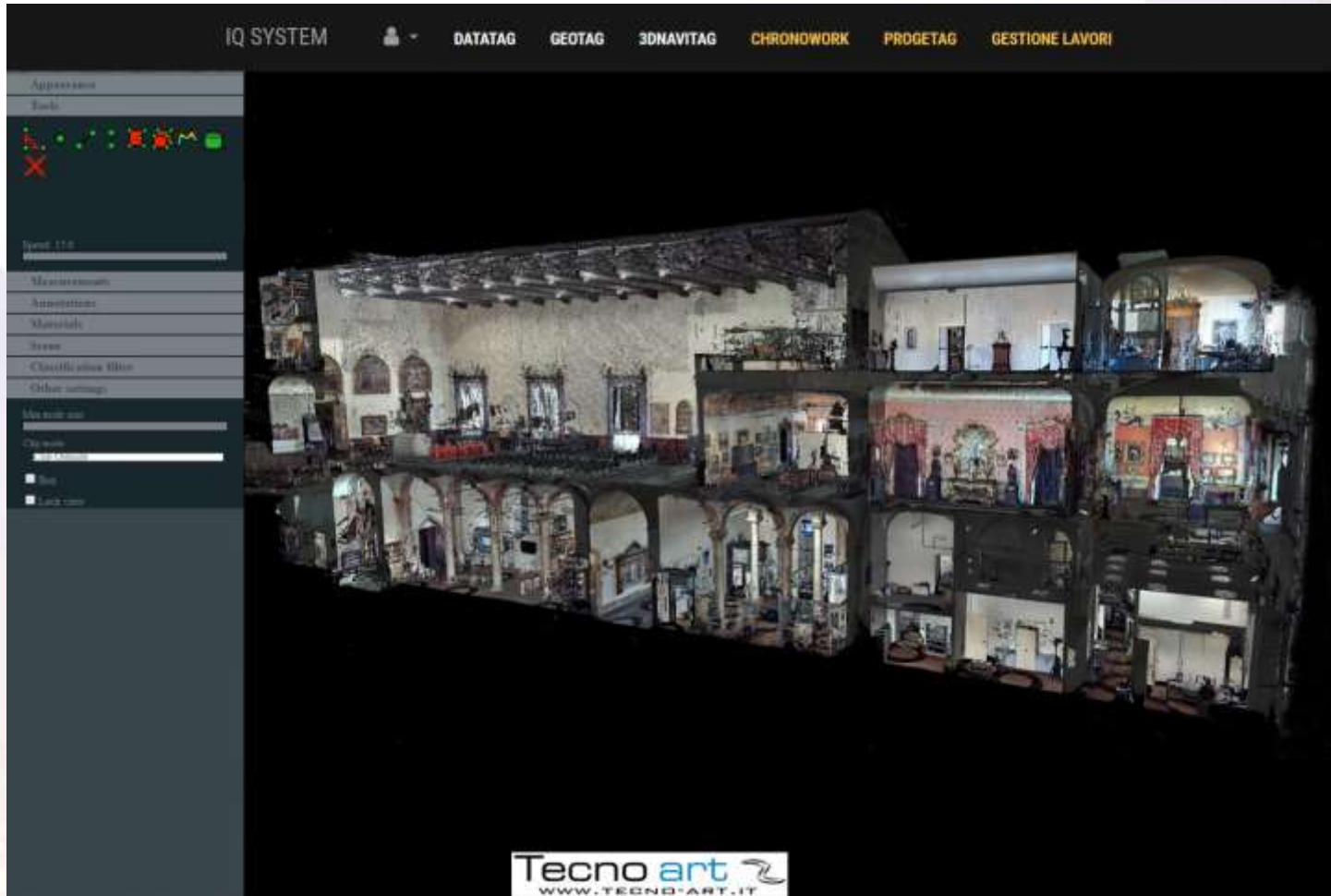


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Point cloud - 3D Section



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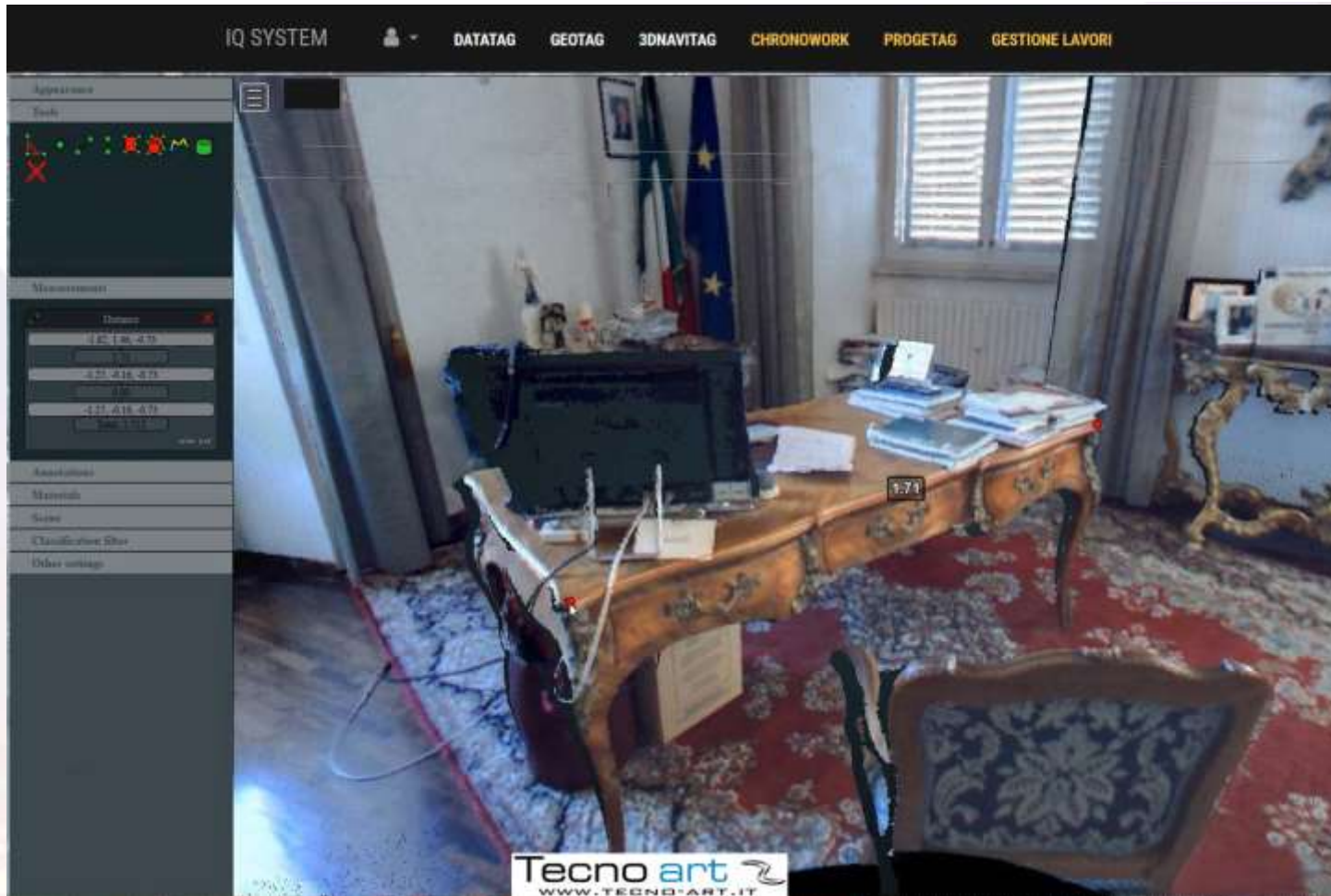


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Points cloud of interior



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Land registry requirements: Filing of technical documents (in any format)

The screenshot displays the 'IQ SYSTEM' web interface. On the left, a 3D architectural model of a building is shown with various colored lines (red, blue, green) overlaid, representing technical data. On the right, a panel titled 'CORSO MAZZINI CIVICO 34' contains a list of technical documents under the heading 'CONTENITORI'. The documents are as follows:

CONTENITORI
001 - Richiesta Sopralluogo
002 - Scheda Sopralluogo (Fast-Aereo)
003 - Ordinanza Sindacale
004 - Scheda Aerea Perizie Asserverata
005 - Progetto (II)_Drd.4 e 8 e s.m.i
006 - Progetto (I)_Drd.19 e s.m.i
006 - Contibuto
007 - Inizio Lavori
008 - Cantiere (IX_CSE-SAL)
009 - Fine Lavori

At the bottom of the interface, the 'Tecno art' logo and website 'WWW.TECNO-ART.IT' are visible.

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Land registry documents

The screenshot displays a software interface for land registry management. At the top, there is a navigation bar with the following items: IQ SYSTEM, DATATAG, GEOTAG, 3DNAVITAG, CHRONOWORK, PROGETAG, and GESTIONE LAVORI. The main content area shows a technical drawing titled 'SCHEMA DI 1° LIVELLO DI RILEVAMENTO SABBIO, PUNTO INTERVENTO E AGIBILITÀ PER EDIFICI ADIACENTI NELL'EMERGENZA POST-SISMICA (ANZET 01/001)'. Below the title, there are several data entry fields and checkboxes, including 'SEZIONE 1 - IDENTIFICAZIONE EDIFICIO', 'IDENTIFICAZIONE SUPRALIVELLO', 'IDENTIFICAZIONE EDIFICIO', 'COORDINATE', and 'SEZIONE 2 - DESCRIZIONE EDIFICIO'. The drawing itself shows a floor plan with a red highlighted area. At the bottom of the drawing, the logo for 'Tecnart' is visible, along with the website 'WWW.TECNART.IT'.

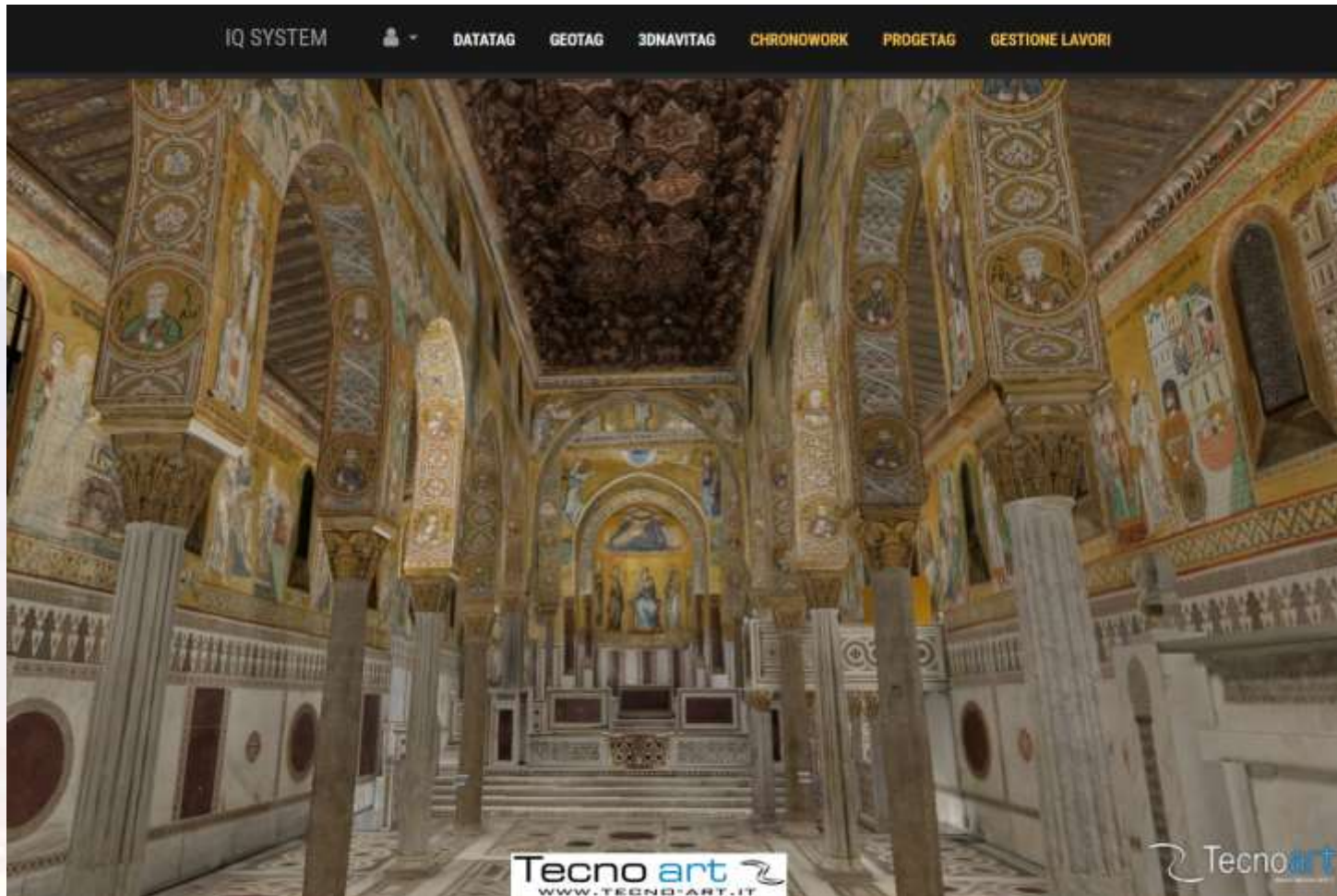


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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

Conservation and Enhancement of Cultural Heritage



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EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

3D – Virtual Reality – Augmented Reality



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Thanks!

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