

CAPUS project and the European challenge to conserve Street Art: characterization of painting materials and degradation of the pictorial layer

Moira Bertasa ^a, Chiara Ricci ^b, Tommaso Poli ^a, Monica Gulmini ^a, Paola Croveri ^b, Arianna Scarcella ^b, Dominique Scalarone ^a

dominique.scalarone@unito.it

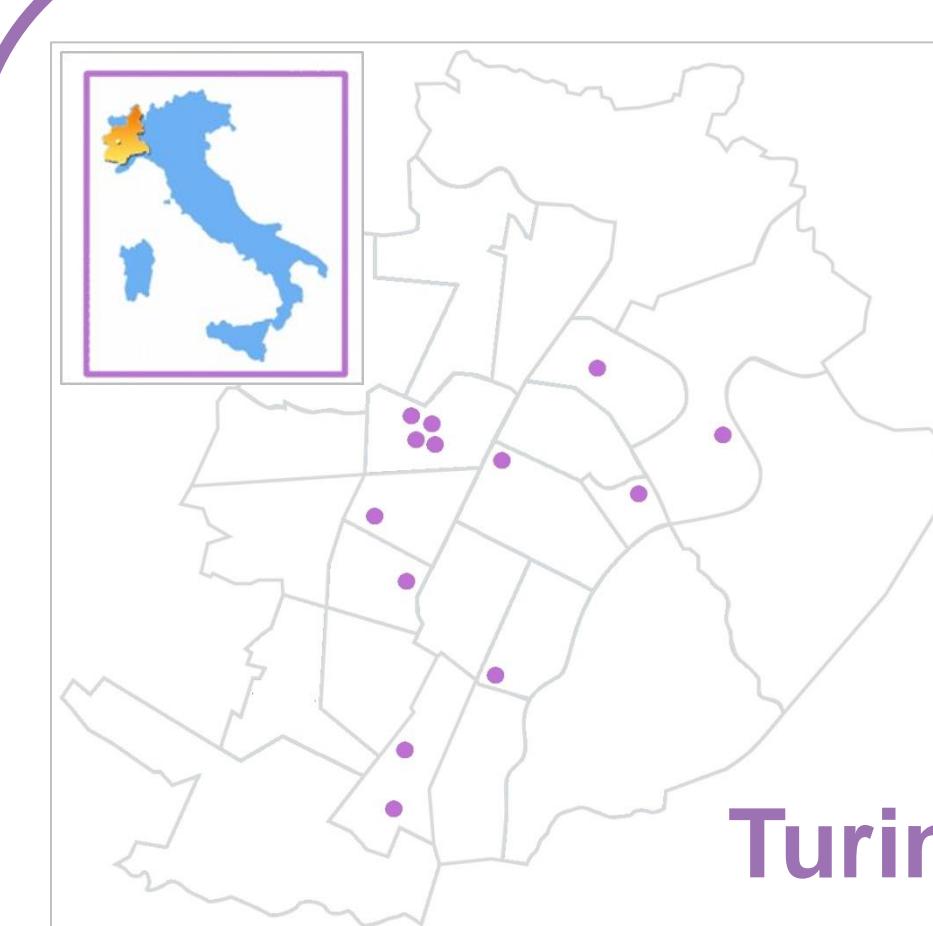
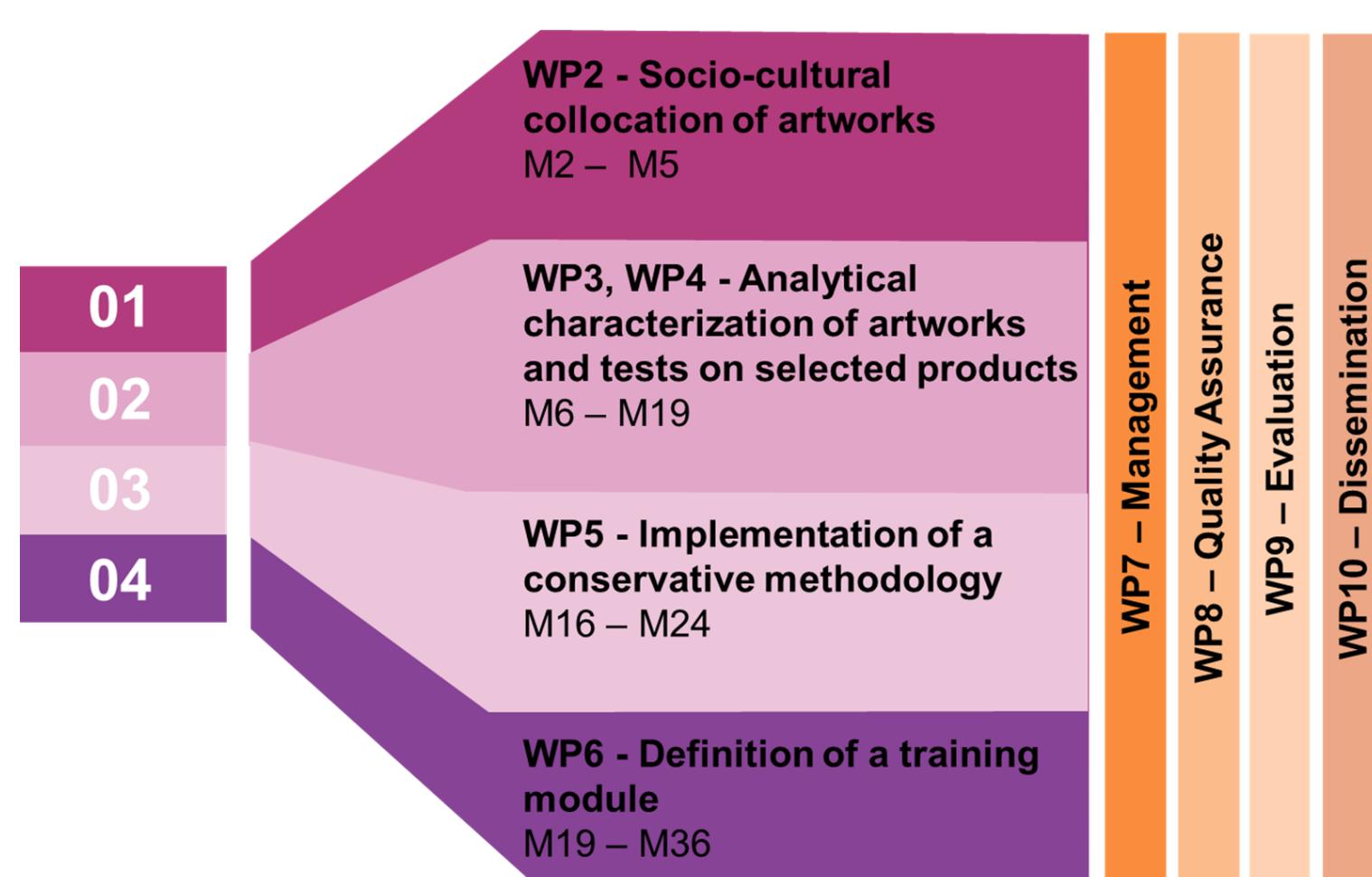
(a) Department of Chemistry, University of Turin, Via Pietro Giuria 7, Turin, Italy

(b) Fondazione Centro Conservazione e Restauro La Venaria Reale, Via XX Settembre 18, Venaria Reale, Italy

www.capusproject.eu

Conservation of Art in Public Spaces (CAPUS) is an Erasmus + Knowledge Alliances Project, where a strong alliance between manufacturers, restorers, universities and research centers has been established to effectively contribute to the conservation of urban art. Artists have also been involved through structured interviews. The two main goals of the CAPUS project are:

- the development of guidelines for the protection and the conservation of urban art
- the introduction of an innovative training module in higher education institutions

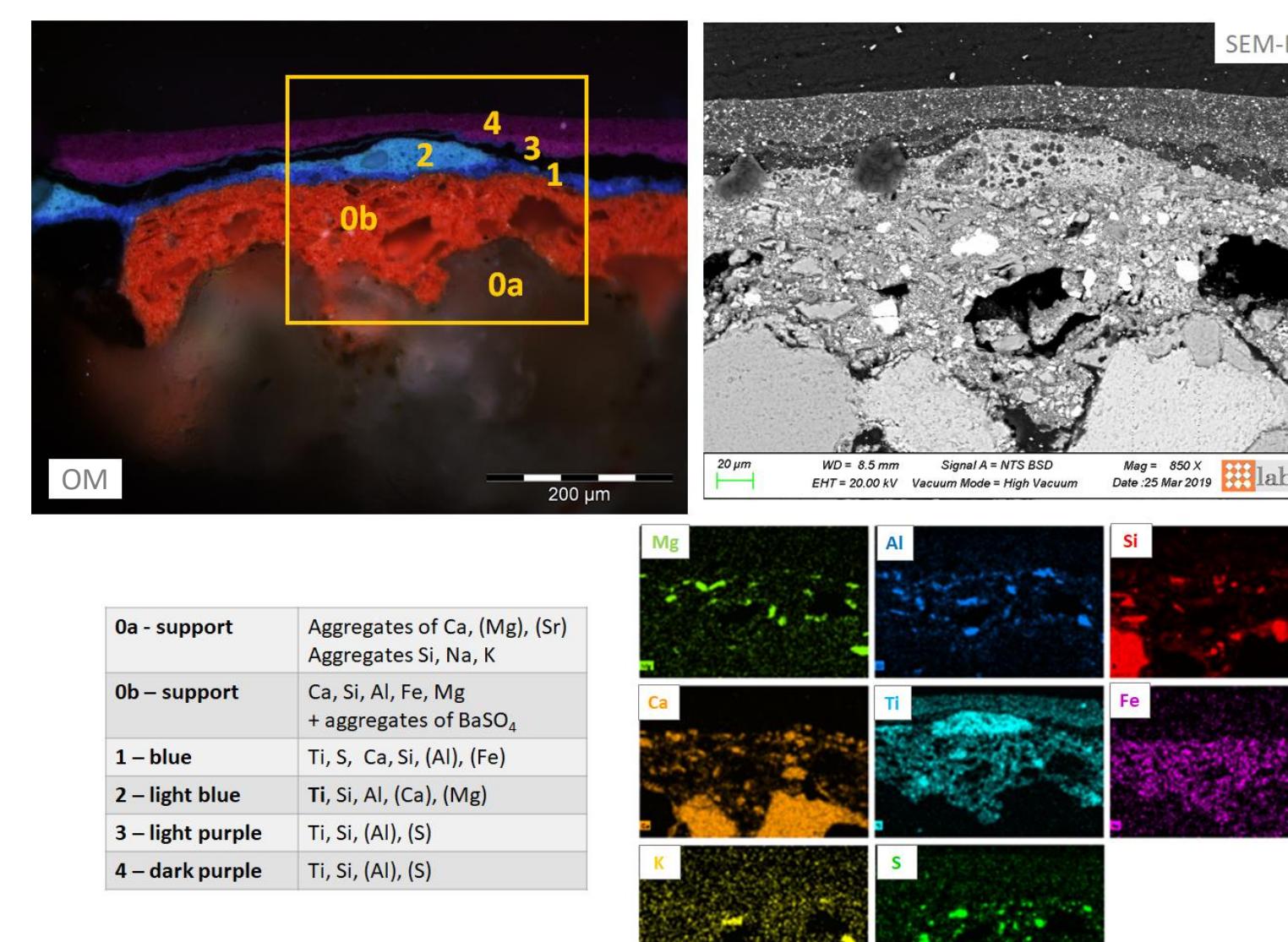
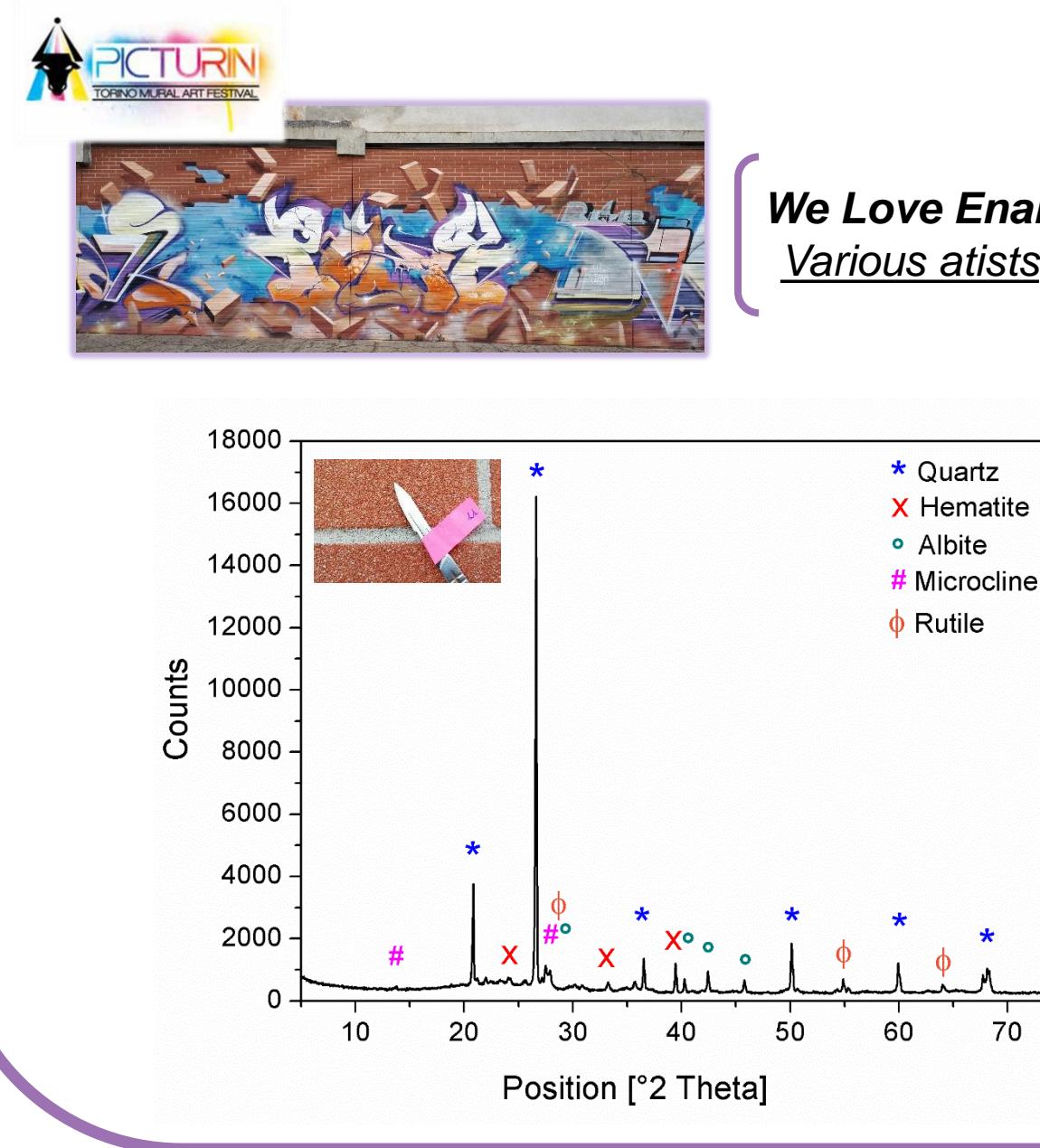
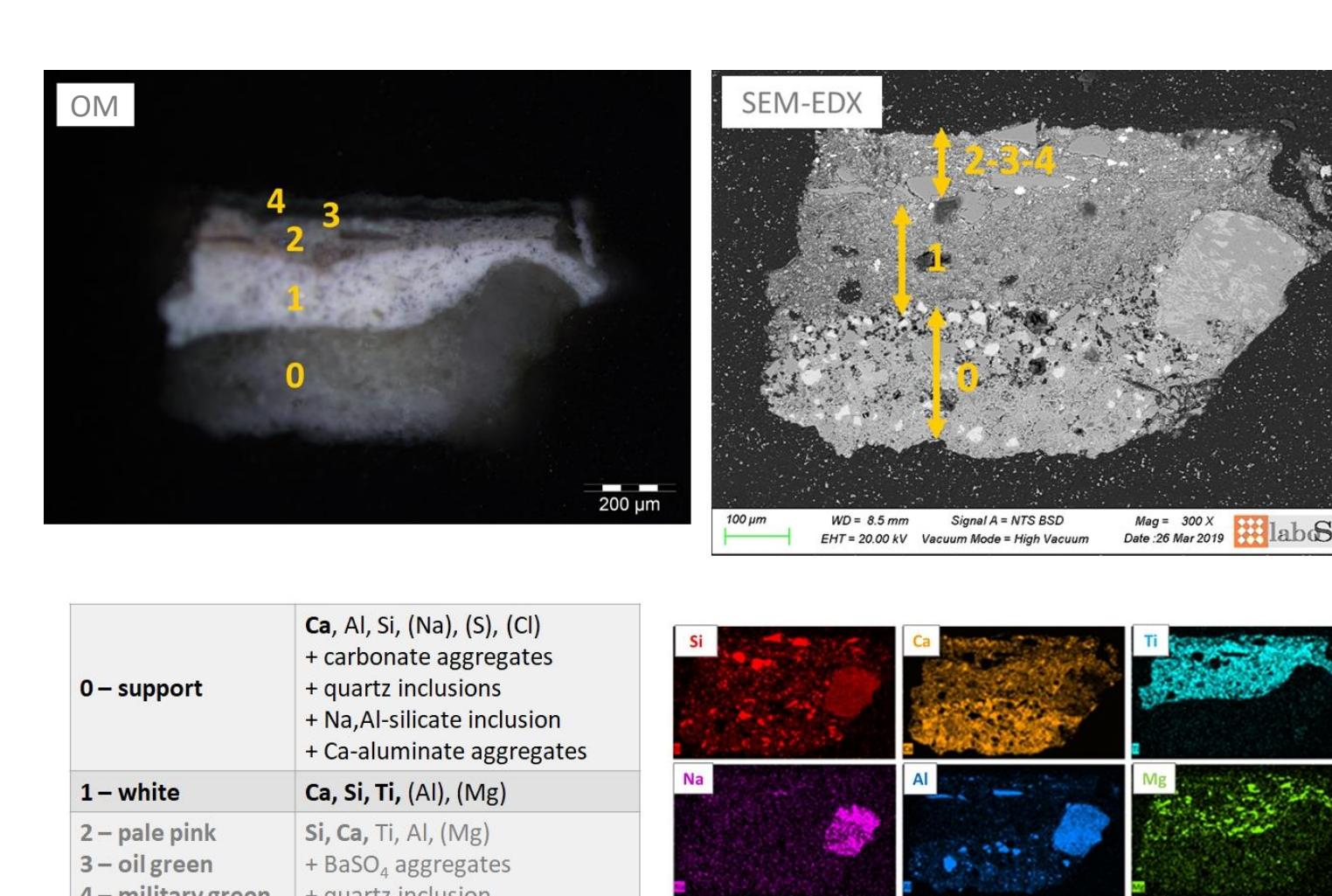
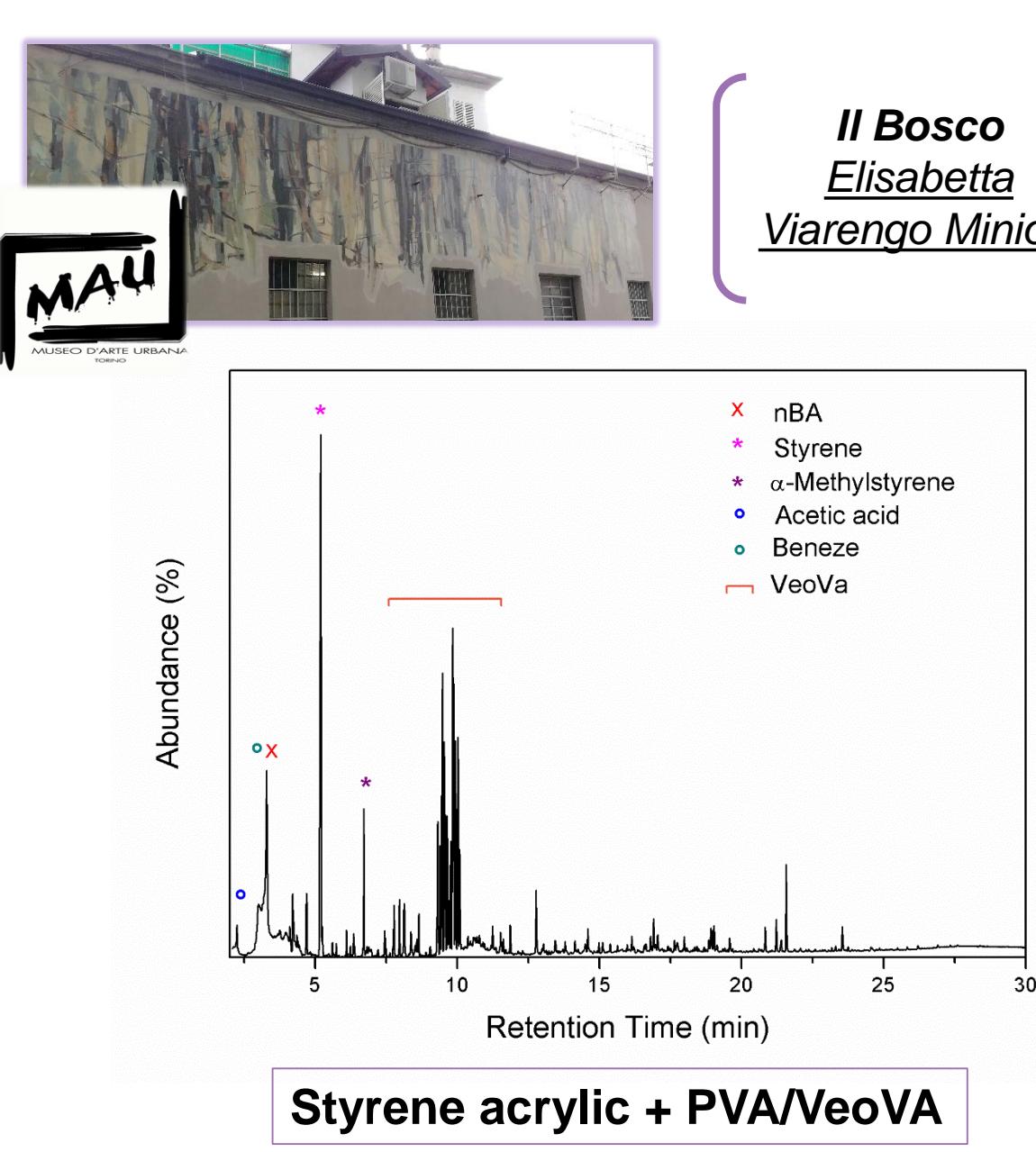
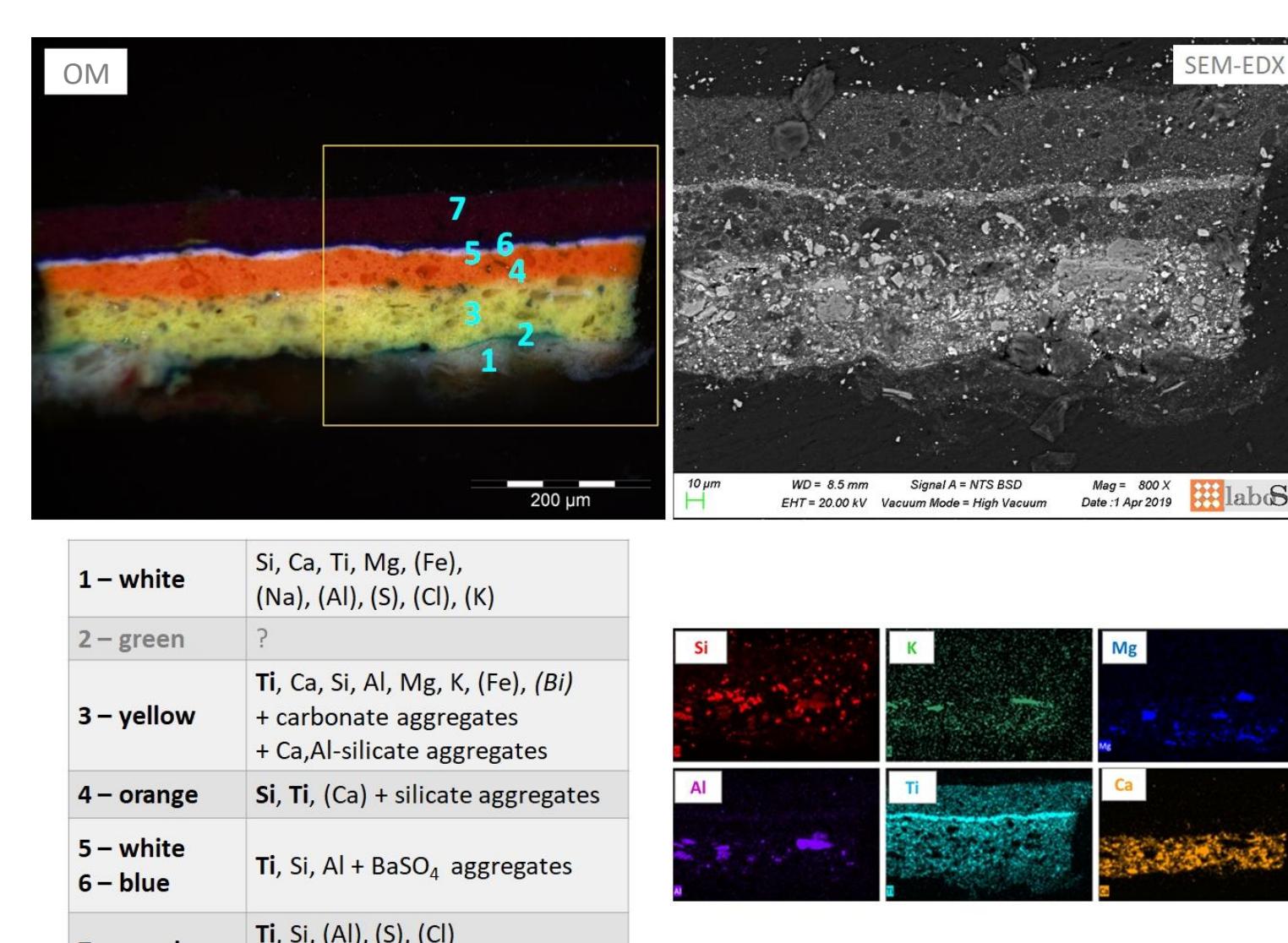
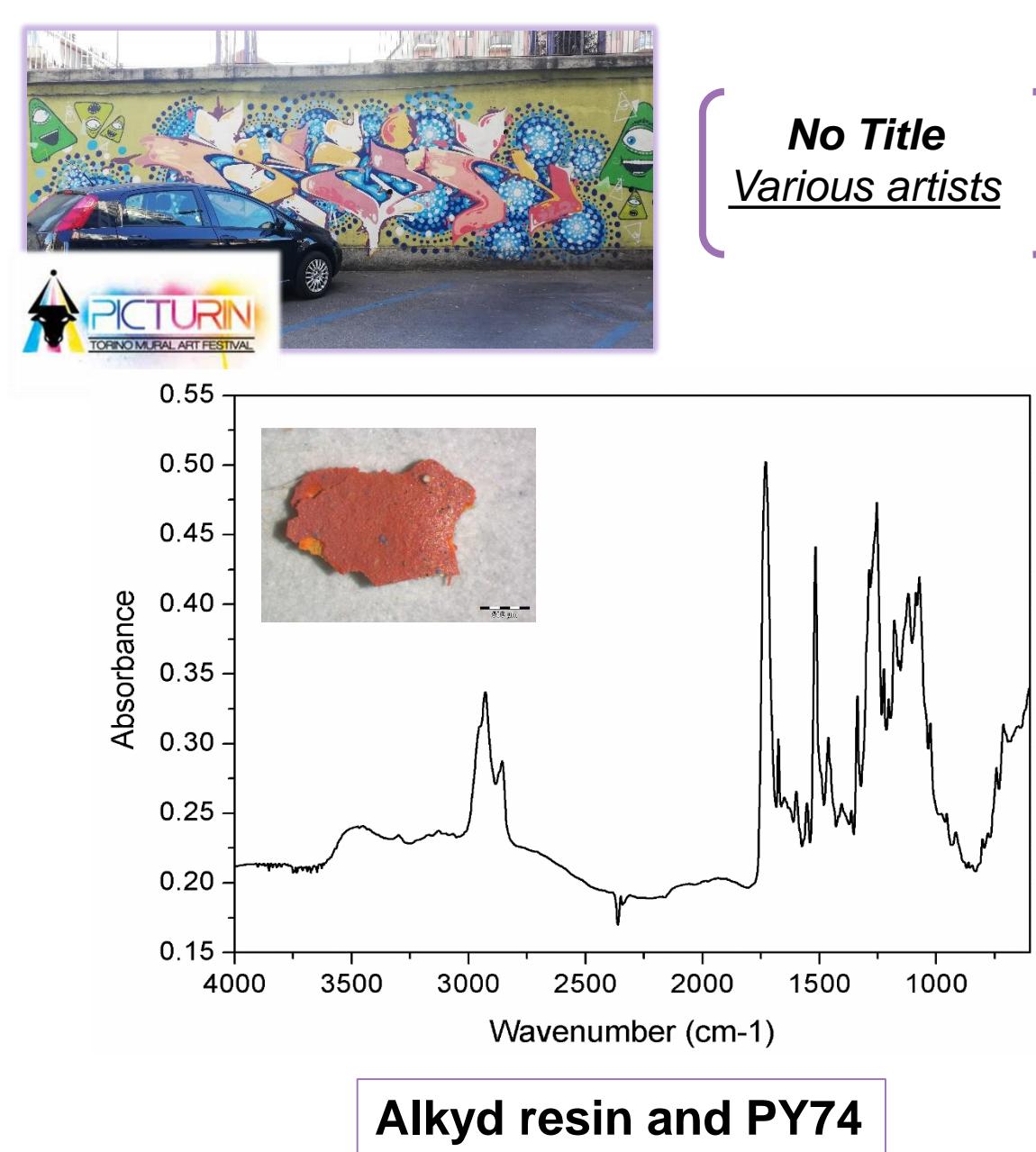


Turin currently hosts 147 works of public art by 96 artists.



3. Identification of constituent materials (with a microscope icon)
4. Composition & stability of paints and spray colours
5. Study of paint-support interface phenomena (with a magnifying glass icon)

02 WP3, WP4 – Analytical characterisation



SUPPORT	Concrete - Plaster - Bricks - Metal - Wood	
PAINTED LAYER	Alkyd	S, B*
	Acrylic	S, B
	Styrene acrylic	S, B
	PVA/VeoVa	S, B
Pigments	PVA	B
	Nitrocellulose	B
	Inorganic pigments & fillers (talc, kaolin and other silicates, calcite, Ti white, quartz, barite, dolomite, Prussian blue, Zn white)	
	Organic pigments (Hansa Yellow, Permanent Yellow, PY74, PR84, Cinquasia Violet)	
PROTECTIVE LAYER	Acrylic Resin	
	Styrene acrylic	

* S = spray painting; B = brush painting

02 WP3, WP4 – Aging tests of selected products

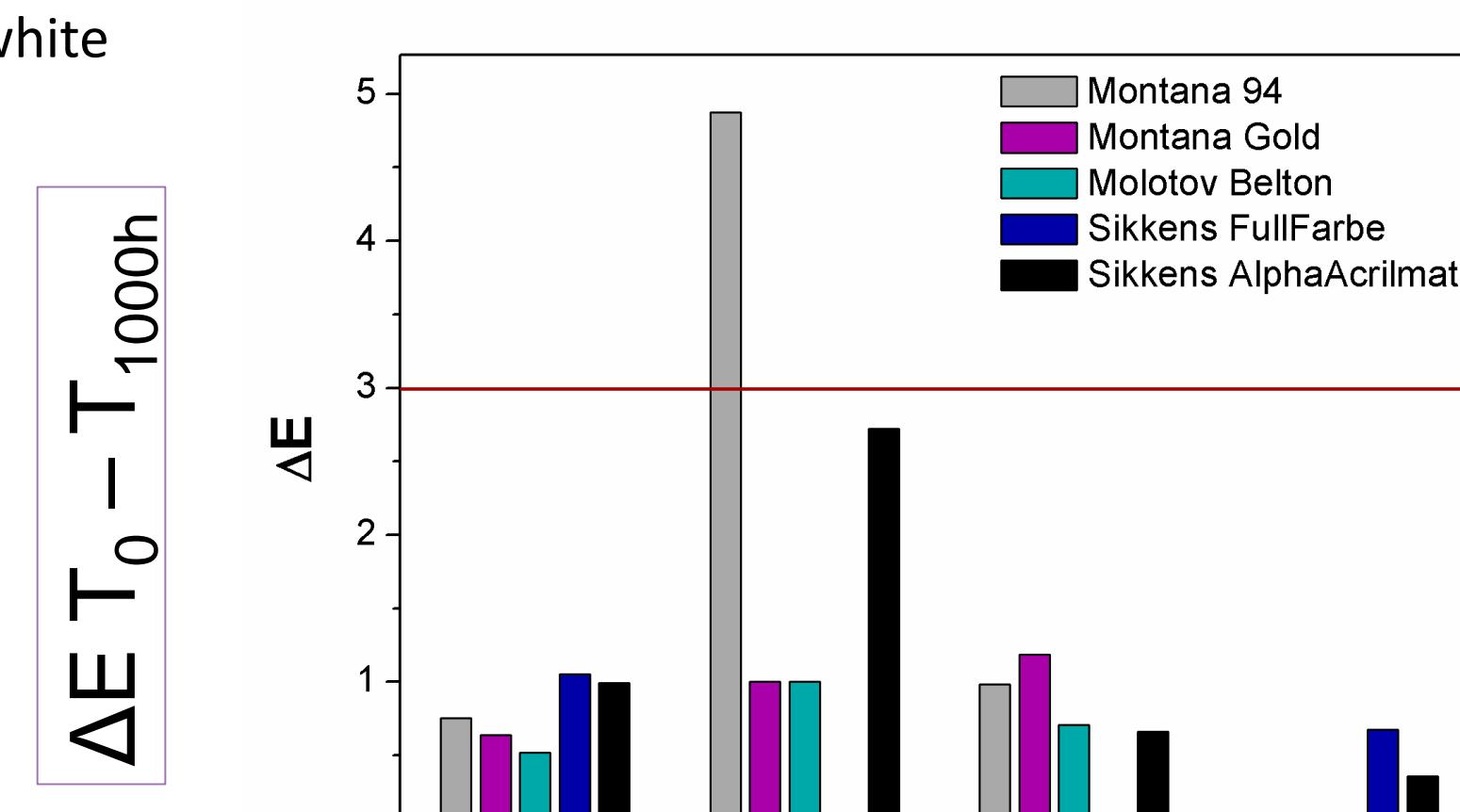
SUPPORT	Concrete - Plaster - Bricks - Glass slides	
PRIMER	Montana Colors - Sikkens	
	Montana Gold	R - MG - B*
	Montana 94	R - MG - B
	Molotow Belton	R - MG - B
PAINT LAYER	Sikkens AlphaAcrilmat	R - MG - B - W
	Sikkens Fullfarbe	B - W

* R = red; MG = military green; B = black; W = white



Aging tests

- CIE Lab
- ATR-FTIR
- Py-GC/MS



The main aim of this part of the CAPUS project is to understand and outline the variability of materials used in Urban Art and to investigate their stability also in relation to the kind of support (i.e. plaster, brick, concrete, metal, wood) and to the interactions with the outdoor environment.

In the next months model samples will be aged naturally and under accelerated outdoor conditions, and their mechanical integrity, chemical, colour and surface changes will be monitored over time.



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