

ERASMUS+

KA219 Strategic Partnership among Schools, for the exchange of good practices

Let's Enjoy our Heritage

A17-DISCOVERY OF REGIONAL POTENTIAL

CONSERVATION AND RESTORATION OF ARTISTIC HERITAGE THROUGH NEW TECHNOLOGIES

A.S. 2018/2019 SCUOLA MEDIA «ANDREA VELLETRANO» Velletri





THE MAIN LAW THAT REGULATES CULTURAL HERITAGE (TANGIBLE, INTANGIBLE, MOBILE, IMMOVABLE AND LANDSCAPE ASSETS) IS ARTICLE 9 OF THE ITALIAN CONSTITUTION.

IT SAYS: "THE REPUBLIC PROMOTES THE DEVELOPMENT OF CULTURE AND SCIENTIFIC AND TECHNICAL RESEARCH. IT PROTECTS THE LANDSCAPE AND THE HISTORICAL AND ARTISTIC HERITAGE OF THE NATION."

CONSERVATION OF ARTISTIC ARTEFACTS

CONSERVATION IS THE WAY TO PRESERVE ARTISTIC ARTEFACTS WITHOUT ALTERING OR DAMAGING THEM, TO PASS THEM ON TO FUTURE GENERATIONS. SOME RECENT TECHNOLOGICAL INNOVATIONS HAVE MADE THIS PROCESS SIMPLER AND MORE PRECISE. FOR EXAMPLE, UNTIL A FEW YEARS AGO, RESTORERS USED A CHEMICAL RESIN, CALLED PARALOID B72, TO PRESERVE PAINTINGS, WHICH TURNED YELLOW AFTER A WHILE. NOW THE RESIN HAS BEEN REPLACED BY NON-DESTRUCTIVE TECHNIQUES.

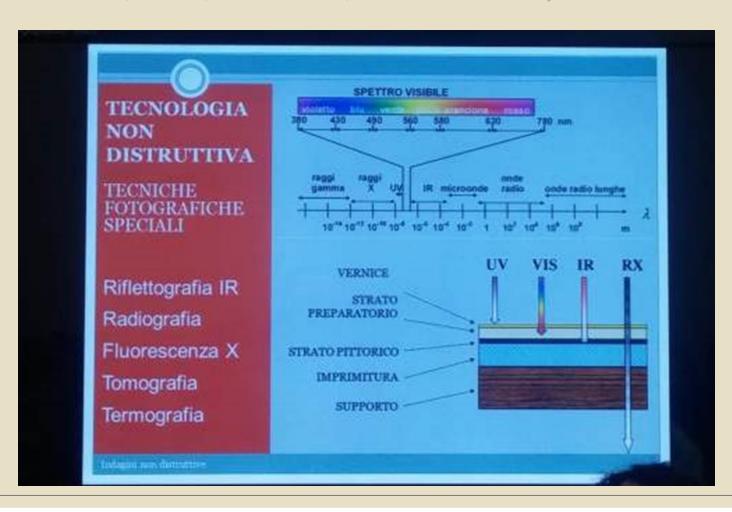
RESTORATION OF ARTISTIC ARTEFACTS

RESTORATION IS THE TECHNICAL
OPERATION AIMED AT REINSTATING THE
PARTICULAR COMPROMISES OR
DETERIORATIONS OF A WORK OF ART.
THIS PROCESS HAS CRITERIA:

- 1) MINIMUM INTERVENTION
- 2) RECOGNITION
- 3) REVERSIBILITY
- 4) COMPATIBILITY
- 5) INTERDISCIPLINARITY

DIAGNOSTIC INVESTIGATIONS OF PAINTINGS

FOR THE DIAGNOSTIC INVESTIGATIONS OF PAINTINGS IT IS POSSIBLE TO USE NO MORE INVASIVE TECHNIQUES LIKE THOSE USED IN THE PAST. THESE SPECIAL PHOTOGRAPHIC TECHNIQUES, SUCH AS IR REFLECTOGRAPHY, X-RAY FLUORESCENCE, RADIOGRAPHY, MAKE IT POSSIBLE TO "READ" THE LAYERS UNDERLYING THE SURFACE OF A PAINTING, WITHOUT DAMAGING IT.



2004 – AUGUSTO LORICATO – Musei Vaticani



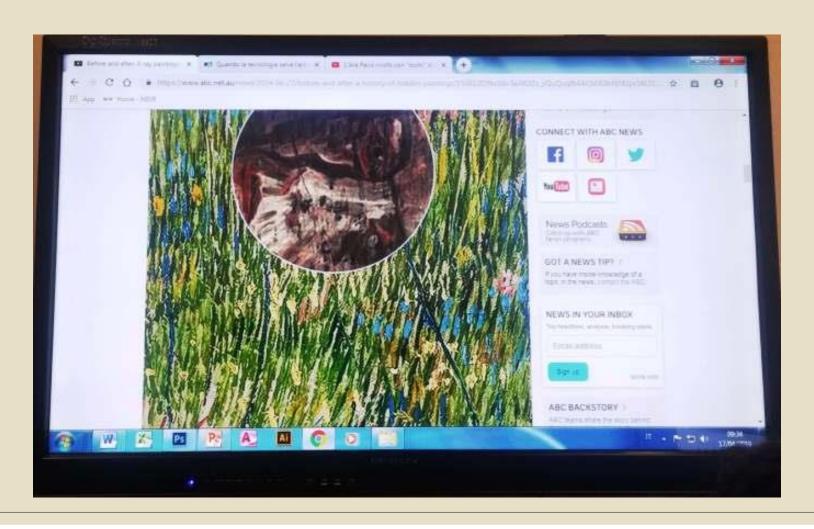
RESTORATION OF ARTISTIC ARTEFACTS

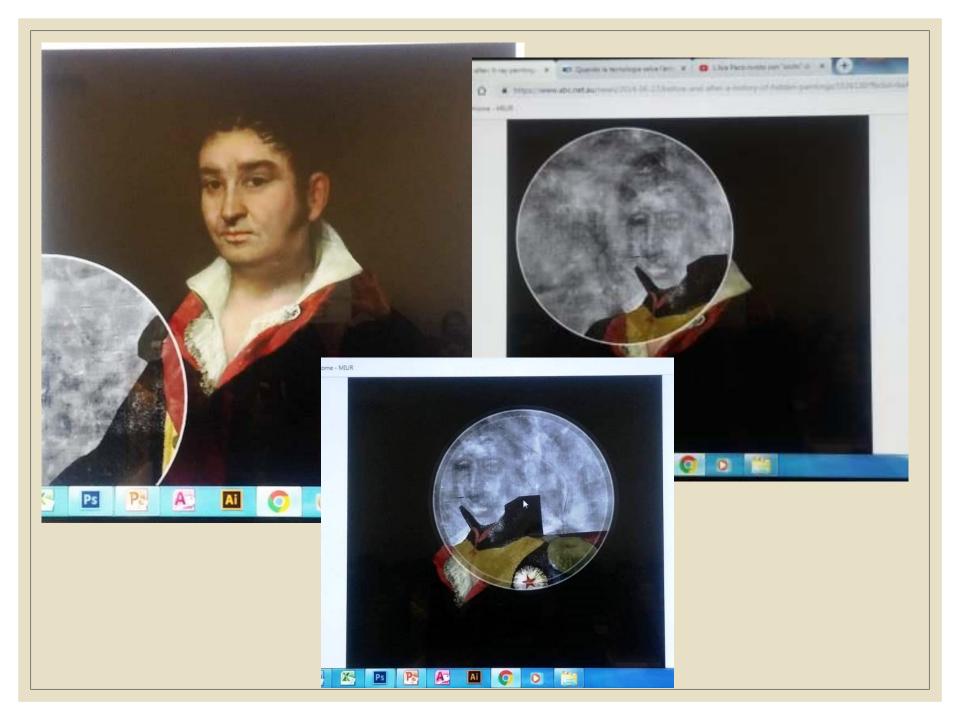
THESE CRITERIA HELP, FOR EXAMPLE, TO UNDERSTAND THE AUTHENTICITY OF A WORK OF ART, GOING BACK TO THE HISTORICAL PERIOD IN WHICH IT WAS CREATED, IDENTIFYING THE INGREDIENTS USED TO MAKE COLOURS FOR THE PAINTINGS, OR TO IDENTIFY THE ORIGIN OF A CANVAS, FOR EXAMPLE BASED ON ITS MANUFACTURE.

GRAZING LIGHT PHOTOGRAPHY



...OR TO UNDERSTAND IF THE ARTISTS REWORKED WORKS EXECUTED PREVIOUSLY





IR REFLECTOGRAPHY



ATREAT

FOR COLOUR
BLUE WE CAN GO
BACK TO A RICH
CLIENT, IF THE
ARTIST USED
POWDER
OBTAINED FROM
LAPIS LAZULI,
SINCE THIS STONE
COMES FROM THE
EASTERN
COUNTRIES.

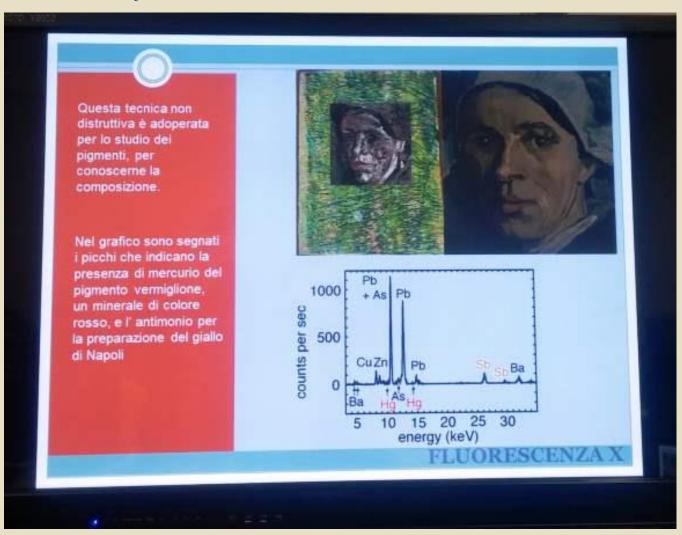
ON THE OTHER
HAND, IF FOR A
PAINTING, OIL
COLOURS WERE
USED, THE WORK
WAS DONE IN A
RECENT TIME,
AND THEREFORE
IT COULD BE A
REPRODUCTION
BY FORGERS.

RADIOGRAPHY



X-RAY FLUORESCENCE

THIS TECHNIQUE IS USED TO KNOW THE COMPOSITION OF PIGMENTS





http://www.moma.org.

THANKS TO TECHNOLOGY A PAINTING BY MONET WAS REPRODUCED FROM SCRATCH, THAT IS THE FIRST ISSUE OF THE SERIES OF WATERLILIES PAINTED BY HIM, WHICH SUFFERED SERIOUS DAMAGE DUE TO A FIRE AT THE MOMA GALLERY IN NEW YORK. BY MEANS OF PRECISE SOFTWARE, COLOURS AND SHAPES HAVE BEEN REPRODUCED TO CREATE A FAITHFUL REPRODUCTION OF THE PICTURE.

APP E BENI CULTURALI

I MIBAC TOP 40 - LA CULTURA A PORTATA DI DITA

VIAGGIART - LA GUIDA TURISTICA D'ITALIA

MIC ROMA - MUSEI CIVICI DI ROMA

THE MIBACT (ITALIAN MINISTRY FOR ENVIRONMENTAL AND CULTURAL HERITAGE AND TOURISM) HAS CREATED AN APP FOR SMARTPHONES TO MAKE ITALIAN HERITAGE MORE ACCESSIBLE, EVEN TO YOUNG GENERATIONS

SOLUZIONI POSSIBILI PER IL RESTAURO

USING THE PHOTOSHOP PROGRAM TO TRY TO MODIFY OLD RUINED PHOTOS, YOU CAN UNDERSTAND THE POTENTIAL OF SOFTWARE IN THE RESTORATION OF WORKS OF ART.

