



*“Multimodal Scanning of Cultural Heritage Assets for their multi-layered digitization and preventive conservation via spatiotemporal 4D Reconstruction and 3D Printing”*

# Horizon 2020 “Scan4Reco” Project

## *Project Overview*



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R&D Projects Managers



**European  
Commission**

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**Grant Agreement:** 665091

**Project acronym:** Scan4Reco

**Project title:** Multimodal Scanning of Cultural Heritage Assets for their multi-layered digitization and preventive conservation via spatiotemporal 4D Reconstruction and 3D Printing

**Start date:** 1/10/2015 - 30/09/2018 (36 months) **Currently @ M15**

**Project website:** [www.scan4reco.eu](http://www.scan4reco.eu) and [http://cordis.europa.eu/project/rcn/197123\\_en.html](http://cordis.europa.eu/project/rcn/197123_en.html)



Centre for Research and Technology Hellas  
Informatics and Telematics Institute



Research for Science, Art and  
Technology (RFSAT) Ltd



Centre for Research, Development,  
and Advanced Studies in Sardinia



“Ormylia” Foundation, Art  
Diagnostic Centre



BW TEK Inc.



University of Verona



Fraunhofer Institute for  
Computer Graphics Research



Avasha AG



Opificio delle Pietre Dure

*“Truth is like a sculpture - one perspective is never enough for true understanding”*

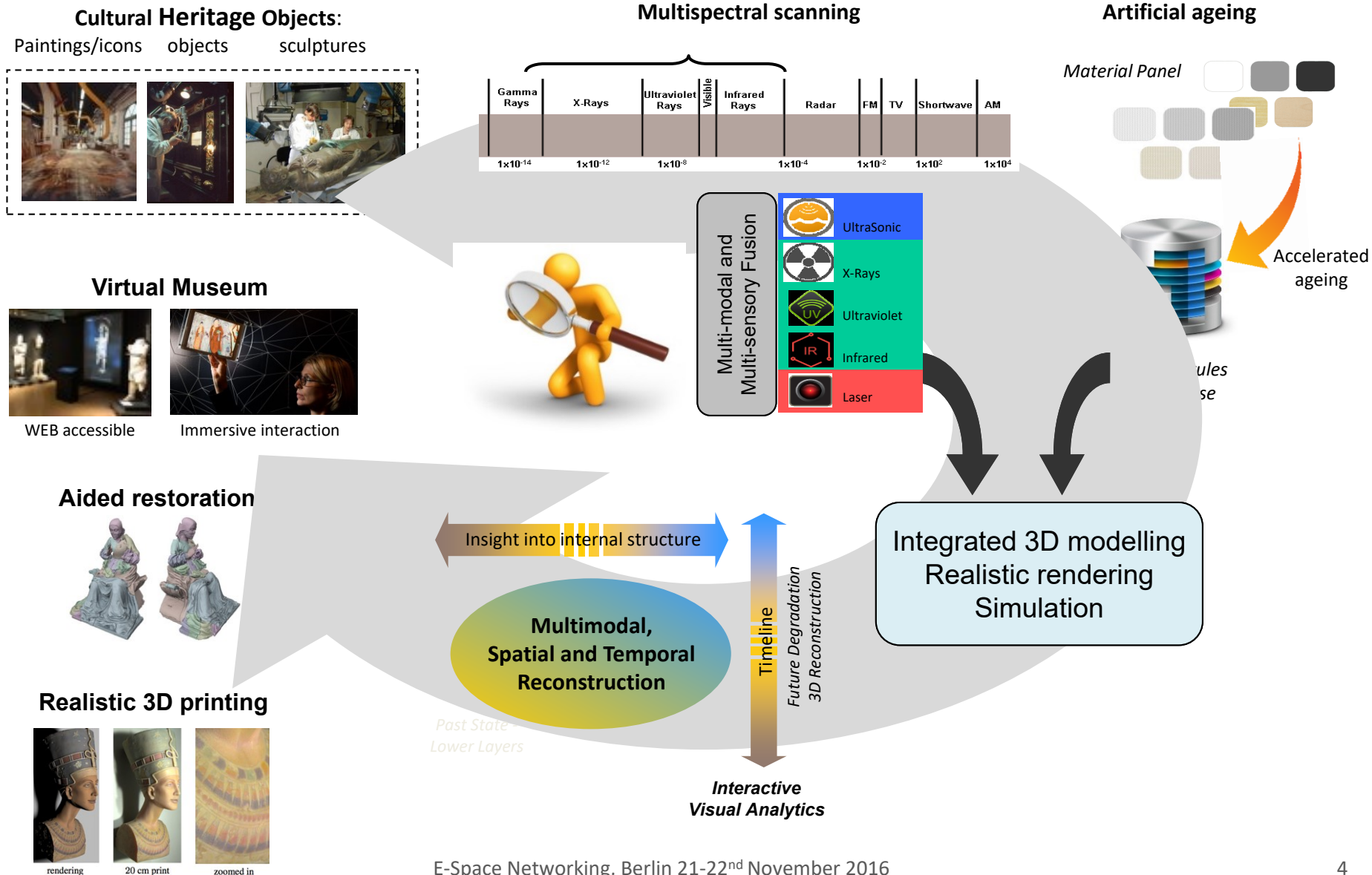
*F. Nietzsche*

To offer a **comprehensive** and **multispectral** object representation (outside and inside)

To facilitate **preservation, conservation, curation, restoration & documentation** via **automatic digitization** of a wide variety of **cultural heritage assets** also **in situ**, using:

- Accurate 3D model representation of real object (geometry, internal/external structure)
- Multi-spectral scanning and digitization (visual, infra-red, ultrasonic, X-ray, Raman, etc.)
- Use real ageing of materials to derive ageing rules for simulated “ageing” in 3D models
- Detection of current defects and “prediction” of possible future deteriorations
- Automated scanning systems of ceramics, paintings and metallic objects (also on site)
- Realistic 3D printing (in variable scale) for reproduction and to aid in restoration
- Demonstration in Virtual Museum

# The Scan4Reco Concept





**Public WEB portal:** <http://www.scan4reco.eu>



<http://twitter.com/scan4reco>



<http://www.facebook.com/groups/982430741820987/>



<http://www.linkedin.com/groups/8428972>



<https://www.youtube.com/channel/UCqHuKVf9m-xBahvkA8ecmww/featured>



<http://www.rfsat.com/wiki/pmwiki.php>



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