



# **Conservation of tangible cultural heritage**

## **Novel materials and techniques**

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# Analogy

## *Medicine*

- *Patient*
- *Medical doctor*
- *Pharmacologist*
- *Drug/medical device*
- *Medical intervention/operation*
- *Preventive healthcare*

## *Conservation of cultural heritage*

- *Tangible cultural heritage*
- *Conservator/restorator*
- *Materials scientist*
- *Material/technique*
- *Remedial conservation*
- *Preventive conservation*

## Cultural heritage in the EU framework programmes for research

- *Research on cultural heritage promoted through successive framework programmes since 1986, addressing all key aspects of tangible, intangible and digital cultural heritage.*
- *In Horizon 2020 almost 500 million EUR invested in cultural heritage related research and innovation.*

# Conservation of cultural heritage in Horizon 2020 under NMBP (1)

- *Development of novel materials and techniques for CH conservation is anchored in the work programme for Nanotechnologies, Advanced Materials, Biotechnology, and Advanced Manufacturing and Processing" (NMBP)  
(cf. H2020 establ. act, Part II, Industrial Leadership, "Materials for creative industries, including heritage" )*

# Conservation of cultural heritage in Horizon 2020 under NMBP (2)

*Three topics:*

- *2014: Materials-based solutions for the protection or preservation of European cultural heritage*
- *2017: Innovative solutions for the conservation of 20th century cultural heritage*
- *2018: Innovative and affordable solutions for the preventive conservation of cultural heritage*
- *Total EU funding: >45 million EUR*



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# Nano-Cathedral



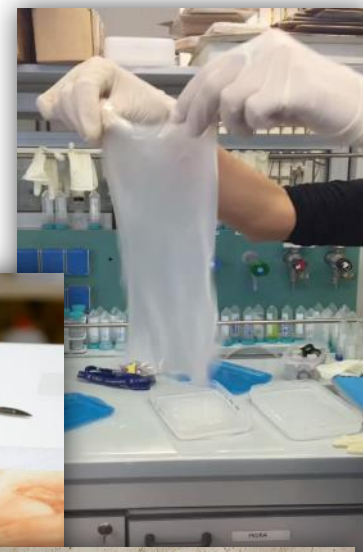
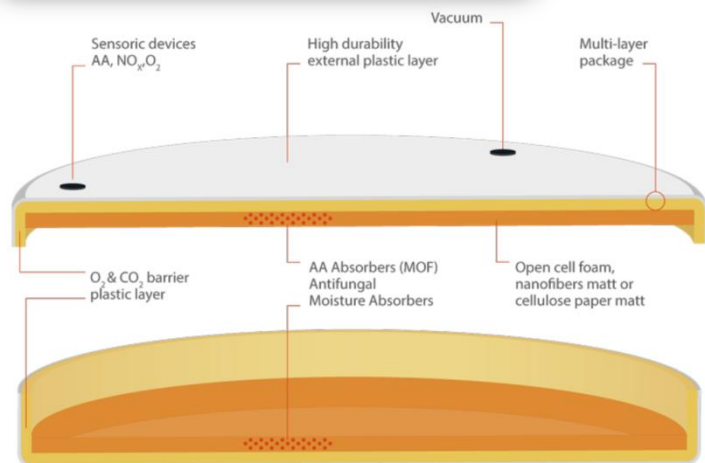
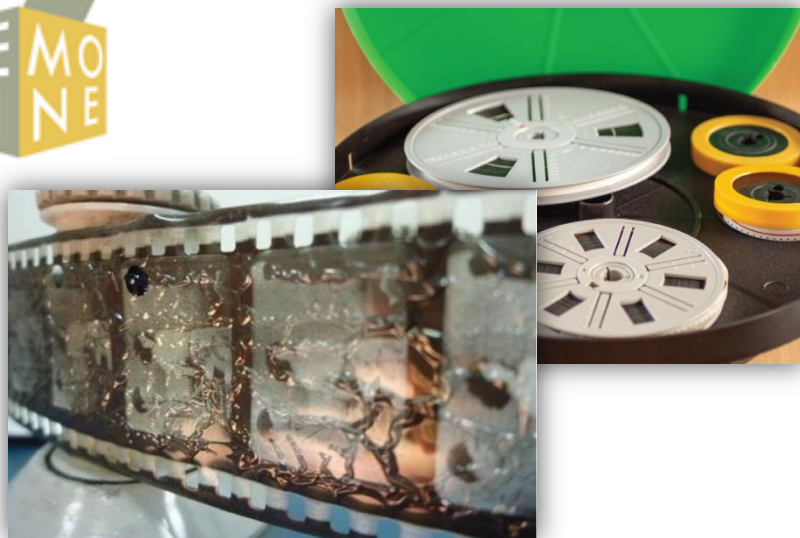
[www.nanocathedral.eu](http://www.nanocathedral.eu)

Research and  
Innovation

[www.innovaconcrete.eu](http://www.innovaconcrete.eu)

Pictures: Courtesy Andrea Lazzeri (Nano-Cathedral)

Pictures: Courtesy Maria Mosquera (InnovaConcrete)





*Thank you for your attention.*

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