



Enabling Cultural Heritage Oriented European Strategies
Meeting - May 20, 2019

Open discussion (topic 4):

“Support public-private partnerships at national and international level to promote cooperation and cross-fertilization across technology developers, end-users, policy makers, scientific bodies and business operators on innovation solutions for cultural heritage prevention, conservation and restoration”.

**Luigi Perissich - Secretary General, Federcostruzioni
National Expert H2020 SC6**





- ✓ The European cultural and creative sectors build bridges between arts, culture, spiritual beliefs and experiences and cultural heritage, business and technology.
- ✓ CH is the bridge between the past and the future of our societies
- ✓ A better understanding of our cultural heritage and how it is perceived and interpreted are vital to creating an inclusive society in Europe and worldwide
- ✓ Accessing, conserving, safeguarding and restoring, interpreting and harnessing the full potential of our cultural heritage are crucial challenges now and for future generations.

COM (2018) 436 final



- ✓ PPPs have played a very important role in H2020 – MS have asked the Commission to reduce their number, brake the silos, enlarge their scopes.
- ✓ On May 29th MS will convene to discuss a preliminary list of 44 candidates for European Partnerships in Pillar* II, III and cross-pillar.

**Pillars:* Horizon Europe will consist of 3 strands, or 'pillars':
I. 'Open Science';
II. 'Global Challenges and industrial Competiveness';
III. 'Open Innovation'.

QUESTIONS:

- ✓ Which actions do you suggest should be started to increase the role of Materials in CH towards the EU Commission and Horizon Europe?
- ✓ How do you see PPPs as an instrument to facilitate the dialogue and cooperation between the different technology /applications areas / Stakeholders of CH?
- ✓ Which PPPs are in your opinion the most important for promoting CH in R&I?
- ✓ How do you see the role of digital platforms, like Innovators in Cultural Heritage, in supporting national and international level Innovation cooperation and cross-fertilization across all areas of CH? How to make them more effective?



Examples of platforms/ PPPs



Heritage & Regeneration Committee of the ECTP

Launched in 2004, at the very beginning of ECTP life.

Although the concept of cultural heritage is wide (and it is becoming wider),
the focus of the H&R committee, is the Immovable Heritage

The activity can be divided into:

- **Relation with main stakeholders** (EU Parliament, Commission, ...)
- **Promote cultural heritage as an economic activity**
- **Interconnection of cultural heritage with other ECTP initiatives/committees:**
energy efficiency, materials, digital issues, ...
- **Connection with other networks acting in Europe to promote RTD in CH**
(mostly JPI Cultural Heritage)

ENERGY EFFICIENT BUILDING becomes BUILT ENVIRONMENT AND CONSTRUCTIONS



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ENERGY EFFICIENT BUILDING becomes BUILT ENVIRONMENT AND CONSTRUCTIONS



ECTP H&R priorities

- ✓ Low carbon buildings: resource efficiency in cultural heritage maintenance and use
- ✓ Resiliency and climate change: preventive conservation and innovative maintenance
- ✓ Smart Cities: recovering the importance of the historic city
- ✓ Digitization: Cultural Heritage in the digital era
- ✓ Socioeconomic challenges: Integrated management and promotion of natural and cultural assets;
- ✓ Enhancement of local and European identity and Cultural Heritage as a vehicle for multicultural tolerance;

INNOVATORS IN CULTURAL HERITAGE

The platform of Responsible Innovators in Cultural Heritage



H2020 ROCK project: Regeneration and Optimization of Cultural heritage in creative and Knowledge cities

H2020 MARINA project: Marine Knowledge Sharing Platform for Federating Responsible Research and Innovation Communities

Initiative promoted by the European Commission, DG Research and Innovation



INNOVATORS IN CULTURAL HERITAGE



The Community of Innovators

The Community of Innovators was born as a joint effort of the European Commission together with two Horizon 2020 projects: MARINA and ROCK.

The target that www.innovatorsinculturalheritage.eu wants to address is made of a complex combination of public administrators, associations, research, groups of interests, and enterprises, for federating them

INNOVATORS IN CULTURAL HERITAGE



The screenshot displays the website <https://www.innovatorsinculturalheritage.eu/registeredarea/index>. The header features the site title, a search bar, a 'GO!' button, a user profile for 'fernando.ferri@irpps.cnr.it', and a 'LOGOUT' button. A left sidebar contains navigation icons for home, events, working spaces, innovations, communities, and a document icon. The main content area is divided into four columns: 'EVENTS' (microphone image), 'WORKING SPACES' (people at a table), 'INNOVATIONS' (lightbulb image), and 'COMMUNITIES' (hands in a circle). Each column lists a recent item with a title and description. Below these are two larger sections: 'WHAT'S NEW' featuring a news item about a new file in working space, and 'INNOVATIONS' featuring the 'InnovaConcrete' project. The footer includes a European Union logo, project funding information, and a '2018 EUROPEAN YEAR OF CULTURAL HERITAGE' badge. The Windows taskbar at the bottom shows the date as 13/11/2018.

Index

https://www.innovatorsinculturalheritage.eu/registeredarea/index

Innovators in Cultural Heritage

Search for...

GO!

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LOGOUT

EVENTS

Last event is

Title: The impact of climate change in Cultural...

Description: This event that has the aim to provide information to civil society, policy makers, business representatives, scientists and people from the sector of cultural heritage about the scope and results of the...

WORKING SPACES

Last working space is

Title: Improving safety and use of Cultural Heritage

Description: Human behaviour issues are relevant especially in emergency conditions (e.g.: emergency evacuation and following post-disaster phases) and are noticed at both small (building) and wide...

INNOVATIONS

Last innovation is

Title: RiBuild - A probability-based life cycle...

Description: The RiBuild Software tool allows a "probability-based" life-cycle assessment of environmental and economic impacts of building retrofit measures. LCA and LCC data inputs - e.g. building component prices...

COMMUNITIES

Join our communities!

Title: Circular, sustainable and creative cities

Description: Focusing on groups solutions supporting urban regeneration. A strong focus is given to the adaptive reuses of built heritage. It includes novel governance and business models aimed at...

WHAT'S NEW

Building Science and Technology Lab, Construction Civil Engineering and Architecture Department, Università Politecnica delle Marche has added a new file in working space: *Improving safety and use of Cultural Heritage* 13-11-2018 04:51

INNOVATIONS

InnovaConcrete - Multifunctional treatments for historic concrete conservation

The InnovaConcrete project is developing advanced materials and techniques specifically designed for concrete heritage preservation. Products and techniques encompass...

Community of Innovators in Cultural Heritage - developed and empowered by the Harnes Project for the infrastructure and the ROCK project for the network, on an initiative of European Commission. Projects Innova and ROCK have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No. 722886 and No. 720280. The sole responsibility for the content of this website lies with the ROCK project and in no way reflects the view of the European Union.

2018 EUROPEAN YEAR OF CULTURAL HERITAGE

Scrive qui per eseguire la ricerca

ITA 13/11/2018

INNOVATORS IN CULTURAL HERITAGE



Participate to the communities of Innovators

- Circular, sustainable and creative cities
- Heritage at risk
- Shared management of cultural heritage
- Advanced future technologies for heritage and arts
- *New communities can be created as federated in the platform*



- Show your innovation
- Create and share your events on the platform
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- Create and share online libraries
- Publish news

INNOVATORS IN CULTURAL HERITAGE



Search

https://www.innovatorsinculturalheritage.eu/registeredarea/community


GO!

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COMMUNITIES

Circular, sustainable and creative cities




Focusing on groups solutions supporting urban regeneration. A strong focus is given to the adaptive reuses of built heritage. It includes novel governance and business models aimed at including cultural heritage into a circular economy model, substituting linear economic models. It also includes technologies and solutions for better liveability of historic buildings and districts, in particular through the improvement of their energy efficiency. Other kind of innovations are supporting creative urban regeneration, integrating cultural heritage into environmental, architectural and planning policies, also through digital tools and maps that take into account citizens' behaviours, perceptions, preferences and emotions.

EVENTS

WORKING SPACES

Heritage at risk



Focusing on groups solutions to preserve, manage and increase resilience of vulnerable artefacts, sites, cities and landscapes. They are innovative decisions and assessment systems, ICT tools and guidelines, mitigation strategies and disaster risk management models, quick damage assessment techniques and technologies. The definition of risk takes into account a broad variety of threats to cultural heritage, from climate change to hazards events, including extreme weather-related events. A particular attention is given to cultural landscapes and to the threats posed by the loss of biodiversity and to changing socio-economic conditions, such as migrations, depopulation etc., especially in rural areas.

EVENTS

WORKING SPACES

Shared management of cultural heritage

Communities of Innovators on Cultural Heritage - developed and implemented by the Horizon Project for the infrastructure and the R&D project for the contents, on an initiative of European Commission, Projects H2020 and R&D&I have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 722586 and No 720280. The sole responsibility for the content of this website lies with the R&D&I project and in no way reflects the view of the European Union.

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11:24
13/11/2018

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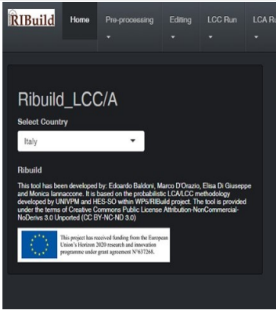
INNOVATORS IN CULTURAL HERITAGE



Innovation


← → ↻ 🏠 🔒 <https://www.innovatorsinculturalheritage.eu/registeredarea/innovations>

The RIBuild Software tool allows a "probability-based" life-cycle assessment of environmental and economic impacts of building retrofit measures. LCA and LCC data inputs - e.g. building component prices, embedded energy, etc. - can be combined considering their "uncertainty ranges". The software provides results in alternative scenarios. Furthermore, it offers an idea of the significance of input parameters' uncertainties and their impacts on the results, through a detailed sensitivity analysis. In this way, the user is made aware of the inherent uncertainties related to environmental impacts and costs of building renovation, and during the design stage can work on the most proper and effective solutions. The software can be effectively applied as a decision support tool during the building renovation phase.




ROCK City People Flow application for urban regeneration


LBA Sense is a technology delivered by DFRC AG for the estimation of people present in an area, the duration of their stay and their country of origin. The technology has been adopted in various contexts. Within ROCK project it has a novel large-scale application to measure the impact and effectiveness of heritage-led regeneration actions. The technology counts anonymous mobile phone signals thanks to special sensors installed in the areas under observation, without interfering with the phones' communication. The system is completely passive: it doesn't require individual mobile apps and is able to detect any mobile phone, regardless of the operating system. Soon after the acquisition, data is transferred to a local server and aggregated on the basis of time and region of collection, whereas the raw data is immediately deleted. Aggregated figures are elaborated with statistical approach to determine the so-called Crowd Analytics.



Cultural gems: a free, open-source web app for European cities



Community of Innovators in Cultural Heritage - developed and sponsored by the Marie Project for the infrastructure and the ROCK project for the contents, on an initiative of European Commission. Projects Marie and ROCK have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 712556 and No 730269. The sole responsibility for the content of this website lies with the ROCK project and it in no way reflects the view of the European Union.



INNOVATORS IN CULTURAL HERITAGE



Innovation

https://www.innovatorsinculturalheritage.eu/registeredarea/innovations/viewInnovation/1179

← → ↻ 🏠 🔒

🔍

GO!

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LOGOUT

iMARECULTURE: Advanced VR, iMmersive serious games and Augmented REality as tools to raise awareness and access to European underwater CULTURAL heritagE

Challenge: WHY the innovation has been developed? What problem is addressed and why has not been not solved before?

Solution: WHAT the solution is about? HOW it goes beyond the state of the art?

Underwater archaeological sites are widespread all over Europe and represent an incredible cultural heritage treasure still under-explored by the general public. Accessibility is one of the main issues, limiting public awareness and influencing dissemination strategies to the wider public. Digital technologies can provide a valuable support to ensure an authentic experience for the visitors and encourage self-motivated learning.

Virtual and Augmented Reality applications have been developed and tested by the iMARECULTURE project to provide advanced, immersive and personalized experiences to be used at home, in-situ or at a museum. Based on existing 3D data, three sites have been carefully selected for the VR/AR applications interactive virtual underwater visits, such as Mazotos shipwreck, Baiae archaeological site and Xlendi shipwreck. The visualisations realised provide visitors an interactive and enhanced experience of diving into an unreachable underwater site, while offering additional information through storytelling about the artefacts displayed. Moreover, more advanced immersive technologies will be tested in Thalassa museum (CY), a partner of the iMARECULTURE project.

Community of European Cultural Heritage - developed and implemented by the Marie Project for the infrastructure and the ROCK project for the contents, on an initiative of European Commission, Projects Marie and ROCK have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 722568 and No 726020.

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Windows taskbar with search bar and icons for Edge, File Explorer, Mail, Photos, etc.

ITA 11:18 13/11/2018

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INNOVATORS IN CULTURAL HERITAGE



The screenshot shows a web browser window displaying the 'Innovators in Cultural Heritage' website. The URL in the address bar is <https://www.innovatorsinculturalheritage.eu/registeredarea/events>. The page features a header with the site name, a search bar, a 'GO!' button, a user profile for 'fernando.ferri@irpps.cnr.it', and a 'LOGOUT' button. Below the header, there's a section for 'EVENTS FILTERS' with options for 'My events', 'Joined events', and 'All events', along with an 'Add event' button. The main content area is titled 'ALL EVENTS' and lists two events. The first event, 'The impact of climate change in Cultural Heritage Monuments: the social, cultural and economic impacts of HERACLES', is scheduled from 5 Oct 2018 13:00:00 GMT to 5 Oct 2018 21:30:00 GMT. It includes a description, a list of content types (0 galleries, 1 documents, 0 posts, 1 videos), and social sharing options. The second event, 'Restoration and conservation of coastal and submerged heritage using solutions based on nanotechnologies', is scheduled from 24 Oct 2017 13:00:00 GMT to 24 Oct 2018 21:00:00 GMT. It also includes a description and social sharing options. The footer contains the European Union flag, a disclaimer, and a logo for the '2018 EUROPEAN YEAR OF CULTURAL HERITAGE'.

Events

<https://www.innovatorsinculturalheritage.eu/registeredarea/events>

Innovators in Cultural Heritage

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LOGOUT

EVENTS FILTERS: ☒ My events ☐ Joined events ☐ All events

+ Add event

ALL EVENTS

The impact of climate change in Cultural Heritage Monuments: the social, cultural and economic impacts of HERACLES

From 5 Oct 2018 13:00:00 GMT to 5 Oct 2018 21:30:00 GMT

This event that has the aim to provide information to civil society, policy makers, business representatives, scientists and people from the sector of cultural...

This event contains:

0 galleries 1 documents 0 posts 1 videos

On web

Share on: [f](#) [t](#) [in](#)

Restoration and conservation of coastal and submerged heritage using solutions based on nanotechnologies

From 24 Oct 2017 13:00:00 GMT to 24 Oct 2018 21:00:00 GMT

MARINA Project organizes the workshop "Restoration and conservation of coastal and submerged heritage using solutions based on nanotechnologies", with a...

This event contains:

Community of Innovators in Cultural Heritage - developed and implemented by the Marina Project for the infrastructure and the RSCG project for the contents, as an initiative of European Commission. Projects Marina and RSCG have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 722868 and No 720280. The sole responsibility for the content of this website lies with the RSCG project and in no way reflects the view of the European Union.

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INNOVATORS IN CULTURAL HERITAGE




Events

https://www.innovatorsinculturalheritage.eu/registeredarea/events/viewEvent/798

Heracles Project
05-10-2018 08:48

GENERIC DOCUMENT: Leaflet of the event

Description: This file is the leaflet of the event "The impact of climate change in Cultural Heritage Monuments: the social, cultural and economic impacts of HERACLES" providing the scheduling of the day



HERACLES
Heritage Resilience Against Climate Events on the

The impact of climate change in Cultural Heritage Monuments: the social, cultural and economic impacts of HERACLES

Conference and Participatory Workshop

3 October 2018
Cultural Conference Centre of Heraklion
Crete, Greece

Φορέας διοργάνωσης ημερίδας

Ευρωπαϊκή Επιτροπή
FORTH

Η επίδραση της Κλιματικής Αλλαγής στα Μνημεία: Οι επιπτώσεις του έργου HERACLES σε κοινωνικά, πολιτιστικά και οικονομικά επίπεδα

Ημερίδα και Συμμετοχική Ημερίδα

Ποινημένο και Ευρωπαϊκό κέντρο Αρχαίου Ηρακλείου
3 Οκτωβρίου 2018

LIKE

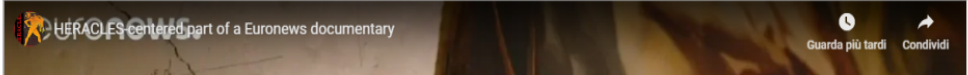
WRITE A COMMENT

LIKES 5

Heracles Project
05-10-2018 08:34

Title: HERACLES-centered part of a Euronews documentary

Description: This is a selected part of the video from ©Euronews/European Commission 2018 available at: <http://www.euronews.com/2018/09/10/us...>



HERACLES-centered part of a Euronews documentary

Guarda più tardi Condividi

Community of Innovators in Cultural Heritage - developed and empowered by the Heracles Project for the infrastructure and the ROCK project for the contents, as an initiative of European Commission. Projects Heracles and ROCK have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 725556 and No 725550. The sole responsibility for the content of this website lies with the ROCK project and in no way reflects the view of the European Union.

2018 EUROPEAN YEAR OF CULTURAL HERITAGE

11-20 13/11/2018

INNOVATORS IN CULTURAL HERITAGE



Events

← × +

https://www.innovatorsinculturalheritage.eu/registeredarea/events/viewEvent/798

05-10-2018 08:34

Title: HERACLES-centered part of a Euronews documentary

Description: This is a selected part of the video from ©Euronews/European Commission 2018 available at: <http://www.euronews.com/2018/09/10/us...>

HERACLES-centered part of a Euronews documentary

Guarda più tardi Condividi

DENIS LOCTIER
EURONEWS

0:20 0:35 / 7:51

LIKE WRITE A COMMENT

LIKES 4

Comunità di Innovatori in Cultural Heritage - developed and implemented by the Hermes Project for the infrastructure and the R&D&I project for the contents, on an initiative of European Commission, Projects Hermes and R&D&I have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 722586 and No 720280. The sole responsibility for the content of this website lies with the R&D&I project and it in no way reflects the view of the European Union.

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11:21 13/11/2018

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INNOVATORS IN CULTURAL HERITAGE



The screenshot displays a web browser window with the URL <https://www.innovatorsinculturalheritage.eu/registeredarea/labs/viewLab/1118>. The page header includes the site name "Innovators in Cultural Heritage", a search bar, a "GO!" button, a user profile for "fernando.ferri@irpps.cnr.it", and a "LOGOUT" button. A left sidebar contains navigation icons. The main content area features the title "InnovaConcrete-Multifunctional treatments for historic concrete conservation" and a large "INNOVA CONCRETE" logo. Below the title, it indicates the project started "FROM Nov 2018" and lists "Participants 0". The "Working space type" is "PUBLIC" and the "Working space status" is "ACTIVE". A paragraph describes the project's goal: "The InnovaConcrete project is working to develop multifunctional treatments for historic concrete, using calcium silicate hydrates (C-S-H) Technology." Below this, application sectors and objectives are listed in red pill-shaped boxes. The footer includes the European Union flag, a disclaimer about the project's funding, and a "2018 EUROPEAN YEAR OF CULTURAL HERITAGE" logo. The Windows taskbar at the bottom shows the date as 13/11/2018 and the time as 11:22.

Working space

https://www.innovatorsinculturalheritage.eu/registeredarea/labs/viewLab/1118

Innovators in Cultural Heritage

Search for...

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LOGOUT

InnovaConcrete-Multifunctional treatments for historic concrete conservation

FROM
Nov 2018
08

Administrator **InnovaConcrete H2020 Project**

Participants **0**

Working space type: **PUBLIC**

Working space status: **ACTIVE**

The InnovaConcrete project is working to develop multifunctional treatments for historic concrete, using calcium silicate hydrates (C-S-H) Technology.

Application sectors: **Historical sites** **Cultural Tangible and intangible landscapes** **Heritage-led urban regeneration and adaptive reuse** **Eco-systemic services** **Restoration and conservation of CH**

Nature Based Solutions for Rural and Urban CH **Tourism economy and impacts** **Circular models for CH** **Environmental sustainability and energy efficiency** **Heritage communities and participatory approach**

Enabling digital technologies for CH **Audience development and impacts**

Objectives: **Market/business development** **Consumers' awareness and information, trust building** **Supporting strategies, regulatory frameworks legislation and standards at EU and national levels**

Supporting environment (Infrastructures, intermediaires, new business opportunities) **Regional/Local development** **Knowledge sharing and education** **Other**

Community of Innovators in Cultural Heritage - developed and empowered by the Innova Project for the infrastructure and the ROCK project for the contents, on an initiative of European Commission, Projects Innova and ROCK have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 732066 and No 730380. The sole responsibility for the content of this website lies with the ROCK project and it in no way reflects the view of the European Union.

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13/11/2018 11:22

INNOVATORS IN CULTURAL HERITAGE

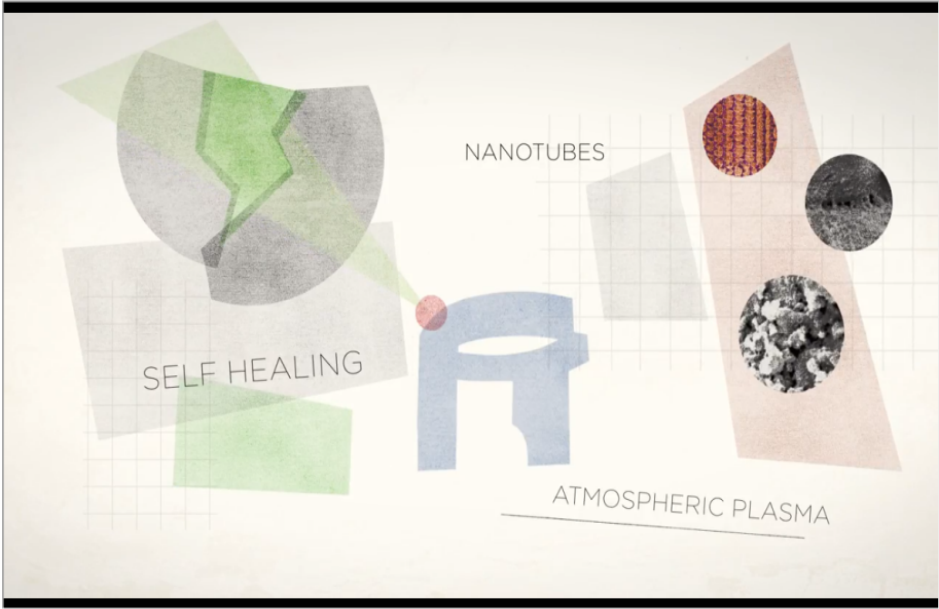


Working space

← → ↺ ⌂ 🔒 https://www.innovatorsinculturalheritage.eu/registeredarea/labs/view/Lab/1118

Chiudi


Title: InnovaConcrete project
Description: Description of the project




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Write a comment

0 LIKES

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Windows taskbar: Scrivi qui per eseguire la ricerca | Taskbar icons: Edge, File Explorer, Store, Chrome, VS Code, etc. | System tray: 11:23, 13/11/2018, ITA

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INNOVATORS IN CULTURAL HERITAGE



View collection x +

https://www.innovatorsinculturalheritage.eu/registeredarea/onlinelibraries/viewCollection/1218

Innovators in Cultural Heritage

Search for...

GO!

LOGIN

REGISTER

COLLECTION: Creative cities

Collection admin: Fernando Ferri

Creative-Based Strategies in Small and Medium-sized Cities

Document type: Report and analysis

Abstract:

Description:

Year of publication: 2011

Author: INTELI

Owner: INTELI

Type of owner: Industry or SMEs

Keywords: Creative Cities

Application sectors: Cultural Tangible and intangible landscapes Heritage-led urban regeneration and adaptive reuse Restoration and conservation of CH Circular models for CH

UNESCO CREATIVE CITIES

Expanding Network of Culture and Creativity

Document type: Report and analysis

Abstract: A Creative City is a city that links its distinctive culture to industry in order to create new value. Launched in 2004, the UNESCO Creative Cities Network is currently formed by 116 members from 54 countries covering 7 creative fields. North America 3 countries

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INNOVATORS IN CULTURAL HERITAGE

The screenshot displays a web browser window with the URL <https://www.innovatorsinculturalheritage.eu/registeredarea/news/viewNews/9>. The website header features the title "Innovators in Cultural Heritage", a search bar, a "GO!" button, and a user profile for "fernando.ferri@irpps.cnr.it" with a "LOGOUT" button. A vertical sidebar on the left contains icons for home, user, news, calendar, and other functions. The main content area is titled "Cairn innovative cultural city" with a timestamp of "13-11-2018 18:51". Below the title, it lists "Application sectors" with tags: "Cultural Tangible and intangible landscapes", "Heritage-led urban regeneration and adaptive reuse", "Eco-systemic services", "Restoration and conservation of CH", and "Nature Based Solutions for Rural and Urban CH". The article content shows the "CAIRN.INFO" logo, a search bar with "Vos mots clés", and navigation tabs for "Revues", "Ouvrages", "Que sais-je ? / Repères", and "Magazines". The breadcrumb trail reads "ACCUEIL > REVUES > REVUE > NUMÉRO > ARTICLE". The featured article is "Creative cities: The role of culture" by Allen J. Scott, with a thumbnail of the "Revue d'économie politique". A "RACCOURCIS" (Shortcuts) section lists links to the article's summary, plan, citation, and table of contents. A "CITÉ PAR..." (Cited by) section shows it is cited by 6 articles.

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[**http://www.federcostruzioniweb.it/**](http://www.federcostruzioniweb.it/)



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