The EPFL+ECAL Lab designs the future of digital at the Musée des Arts Décoratifs in Paris.

Roger Tallon: archives in motion
Photo: Elise Migraine / EPFL+ECAL Lab

From the Musée des Arts Décoratifs in Paris to World Design Capital Mexico 2018, the EPFL+ECAL Lab asserts a new vision of innovation. The Lab's design research gives emerging technologies an emotional, social, cultural and sustainable angle. Three projects around virtual reality, social issues and an innovative material will be displayed at the Museo Franz Mayer from 10 October. A week later, the new installation on Roger Tallon will be unveiled in Paris.

By combining artistic practice with scientific and psychological skills, the EPFL+ECAL Lab creates operational objects and services while developing knowledge that leads to sustainable solutions. This ability to envision prospects, to materialise them and to understand their impact on our daily lives breaks with ephemeral innovation strategies. At a time when sophisticated algorithms become increasingly embedded in everyday life, the EPFL+ECAL Lab offers the keys to a human-centred future, taking advantage of emerging technologies.

Two major museums are showcasing EPFL+ECAL Lab projects this autumn in a fitting celebration of the original approach pioneered by this Centre of the EPFL Ecole polytechnique fédérale de Lausanne, founded in 2007 in collaboration with ECAL University of Art and Design Lausanne.

THE HIDDEN FACE OF THE MUSÉE DES ARTS DÉCORATIFS IN PARIS

On the occasion of the reopening of the Pavillon Marsan of the Musée des Arts Décoratifs in Paris, the EPFL+ECAL Lab paves the way to previously inaccessible knowledge. The installation *Roger Tallon: archives in motion* highlights the work of the iconic French designer so that all visitors may now become acquainted with the collection he has deposited with the museum. In partnership with the Musée des Arts Décoratifs, the EPFL+ECAL Lab has studied this complex world of drawings, sketches, images and texts to create an unprecedented custom-made virtual universe that successfully displays the actual structure of the physical archive.

In this virtual world, visitors immerse themselves in the heart of a library. The entire collection is then set in motion to enable them to understand its diversity, richness and how it echoes with current innovation. Visitors may explore the material more in depth at any time by stopping on a specific project. The system fosters a new view of archive material – no longer a conventional method of consultation, but a discovery tool based on the user's overall perception.

Building a virtual architecture to display a large physical database has become a design project in itself. This research allowed not only to enhance the heritage of the prolific French designer, but also to generate a system which can subsequently be applied to other collections, be they public or private. Treasures hitherto safely tucked away on shelves for preservation will thus be able to come back into the light in a new form.

Cooperation with the museum will continue in the coming months in order to further develop the installation according to the cognitive and emotional perception of the users.

This experimental installation by the EPFL+ECAL Lab can be viewed from 19 October 2018 at the Musée des Arts Décoratifs in Paris.

Credits
Roger Tallon: archives in motion
Virtual environment designed by:
Elise Migraine, in cooperation with Marius Aeberli and Béatrice Durandard
Engineering and system design:
Delphine Ribes with contributions from Yves Kalberer
VR mask designed by: Béatrice Durandard
Project Director: Nicolas Henchoz

THE MUSEO FRANZ MAYER CELEBRATES SWISS INNOVATION

From 10 October to 4 November 2018, the Museo Franz Mayer will exhibit projects in the framework of Swiss Design Labs which illustrate the diversity of impacts made possible thanks to the approach proposed by the EPFL+ECAL Lab.

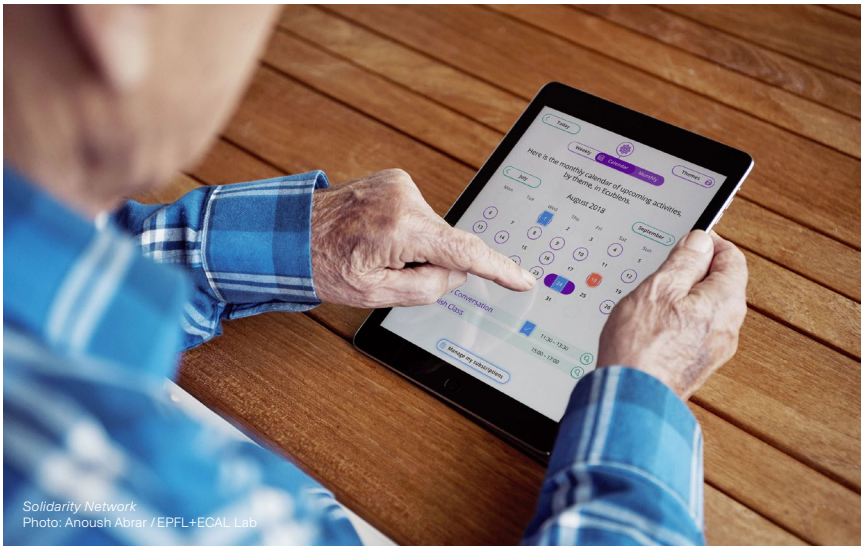
Under Pressure presents the possibilities offered by densified wood. The process allows transforming easily grown local trees such as fir into material as hard as rare tropical species. The EPFL+ECAL Lab explored the potential of this material in collaboration with designers Chris Kabel, Paul Cocksedge, Normal Studio, Big Game and Léa Longis.

Credits
Under Pressure
Engineering: Fred Girardet
Curation: Nicolas Henchoz

Under Pressure
Photo: Mark Cocksedge / EPFL+ECAL Lab

Solidarity Network redefines the relationship between seniors and the digital world. Offering a digital service that seeks to enhance real-life interactions, this project breaks with preconceived ideas. It shows that the little enthusiasm shown for digital solutions by many seniors is largely due not to lack of competence, but of interest. This service therefore focuses only on the elements that facilitate real-life events, thus establishing new milestones for inclusive design.

Credits
Solidarity Network
Design: Mathieu Daudelin, Romain Collaud, Andreas Koller
Curation: Nicolas Henchoz



Solidarity Network
Photo: Anoush Abrar / EPFL+ECAL Lab

Finally, *Chronogram* gives new life to digitized heritage thanks to virtual reality: in this case, the extraordinary archive of Vacheron Constantin, who have been manufacturing watches for over 250 years. The major challenge is that the virtual experience focuses on content credibility rather than the mere 3D effect. It allows interaction between users of 3D and 2D interfaces. Playing a major role in the experience, the VR helmets were entirely redesigned by a team of industrial designers made up of Nicolas Lemoigne, Bertille Laguet, Dimitri Bähler and Marlo & Isaure, in order to improve the exploration of these historical documents.

Credits
Chronogram
Design: Marius Aeberli, Nicolas Le Moigne
Engineering: Delphine Ribes, Yves Kalberer
Curation: Nicolas Henchoz

Chronogram
Photo: Daniela & Tonatiuh / EPFL+ECAL Lab

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