

Call: H2020-NMBP-2016-2017 (call for nanotechnologies, advanced materials, biotechnology and production)

Projet DecoChrom : Decorative Applications for Self-Organized Molecular Electrochromic Systems

Coordinateur : Faculty of Art and Design , Lapin Yliopisto, Finlande

15 partenaires

Partenaire UNISTRA : Paolo SAMORI , ISIS - Institut de Science et d'Ingénierie Supramoléculaires, UMR 7006

The DecoChrom project elevates printed graphics products to the age of interactivity, and empowers the creative industries with the tools and innovative advanced material sets to design and build aesthetically pleasing practical human interfaces to smart consumer goods and environments. The DecoChrom consortium develops printed electrochromics (EC) as the mass producible, print industry compatible, ultra low-power interactive graphics solution for ambient intelligence.

DecoChrom will scale-up the production of advanced composite materials into innovative ink EC colours, manufacturing process on different materials, wide dissemination and creation of EC toolkits to introduce electrochromics to designers, makers and the printing industry, and finally the co-creation of several creative industry lead end-user prototypes and pilots for architecture, interior design, lifestyle and sports.

The project brings together a strong interdisciplinary consortium of 15 partners, industry and research balanced, with state-of-the-art backgrounds in design, chemistry, printing, coatings and laminates, electronics system integration, and complete electrochromics solutions.