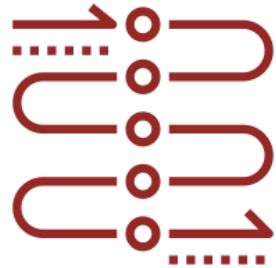


Bioinspired living skin for architecture

ARCHI-SKIN innovative aspects and challenges



smart living surfaces
& engineered living materials



in-situ methodology
& prototypes



Bioremediation
& self-healing

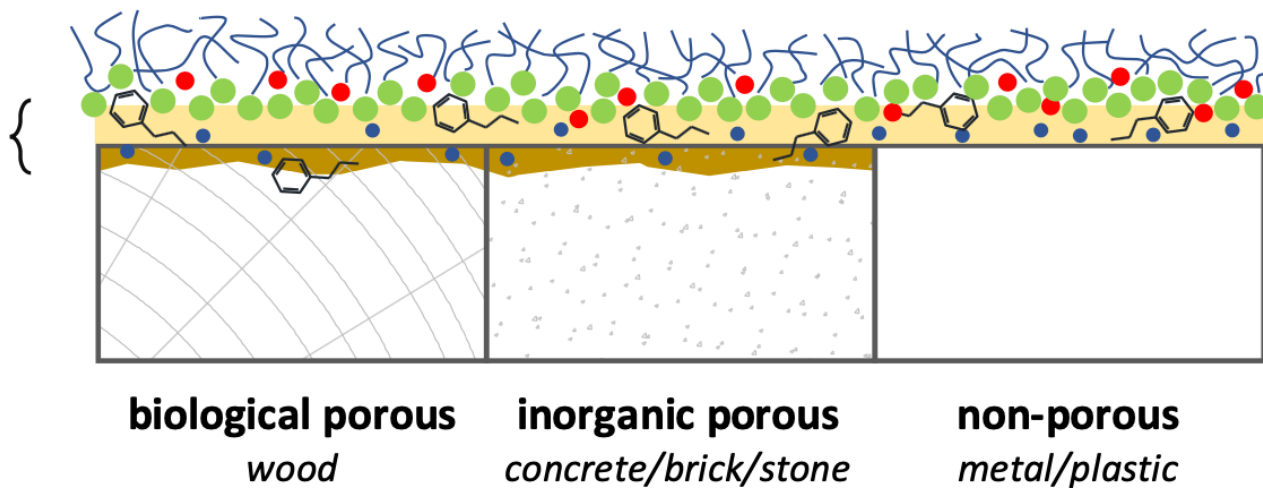


Coatings on different substrates
in diverse climates



Bioinspired concept of ARCHI-SKIN coating systems

impregnated & functionalized subsurface + additives



living biofilm + additives

substrate

hyphae

spore

EPS matrix

impregnation

additive

carbon source

“Logic will get you from A to B. Imagination will take you anywhere” A. Einstein

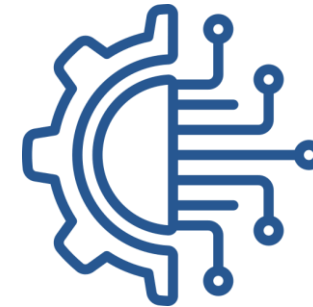
How does ERC influence my research?



**Interdisciplinary
approach and
consolidation of
research**



**Engineered Living
Materials Laboratory**



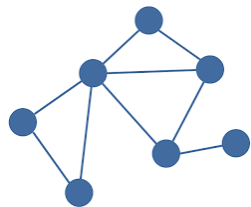
**A new direction
of materials
engineering**

Anna Sandak (2023) Engineered living materials for sustainable and resilient architecture, Nature Reviews Materials DOI:10.1038/s41578-023-00554-0

ARCHI-SKIN impact



New understanding of biological systems



Monitoring dynamic living systems in-situ



Outstanding service life performance



Lowering air pollution by bioremediation



engineered living materials
interacting
adapting
and responding
to environmental changes

