

A novel manufacturing process for photocatalytically activate ceramic tiles by digital printing

Eco-active ceramic: ...START BREATHING!

We made it! DIGITALIFE project yielded photocatalytically activate ceramic tiles by digital printing technology.

ACHIEVEMENTS:



High photocatalytic efficiency in:

- Air pollution degradation
- Bacteria reduction
- Self-cleaning performance
- Odour removal

Energy saving: - 12 %



Water saving: - 100 %



Reduce waste: - 50 %



LESS
CHEMICAL
SOLVENT!

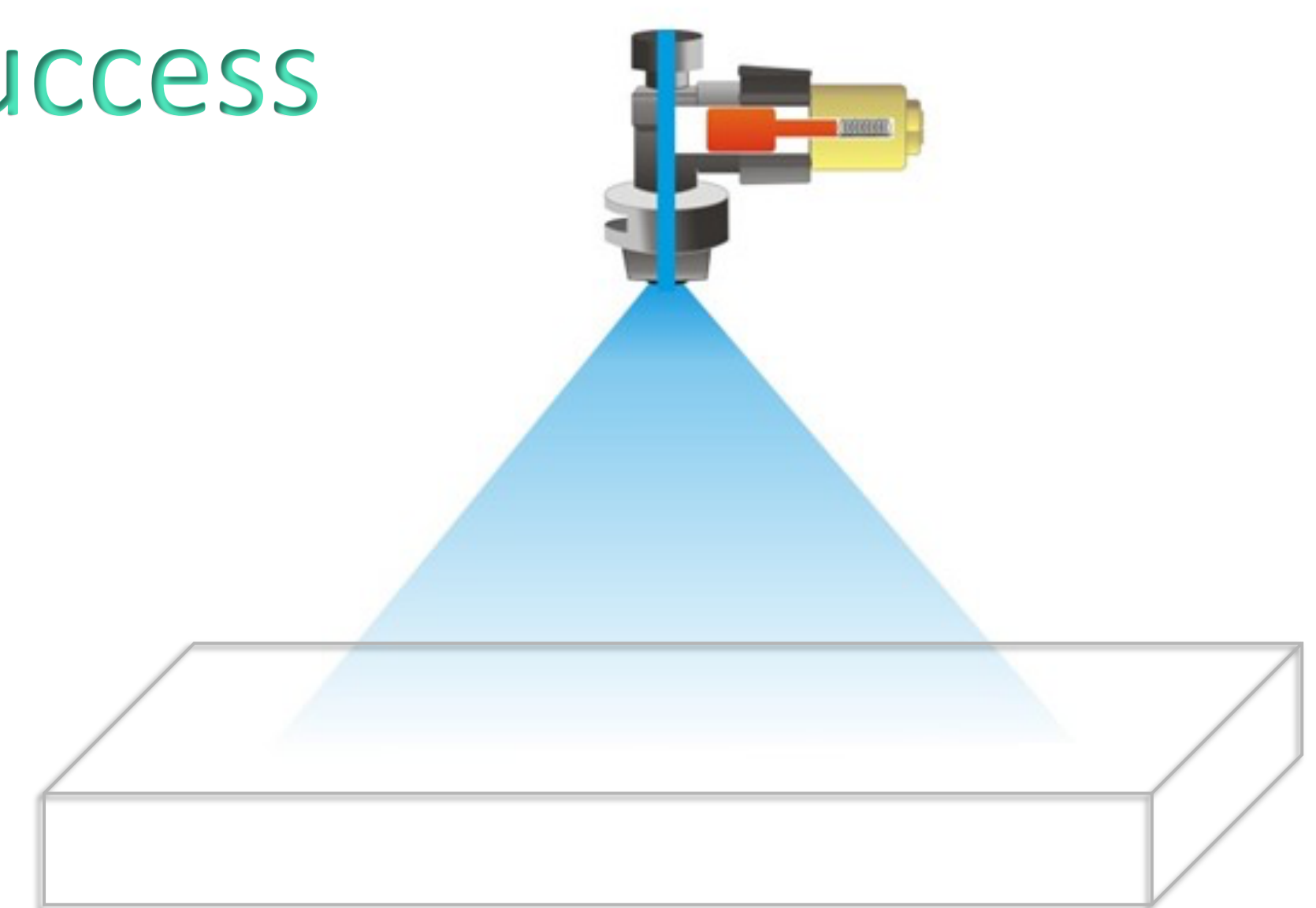


The DIGITALIFE PROJECT: steps to success

2014

TiO₂ Airless spray deposition:

Waste of material, waste of water, with low homogeneous surface



2015

TiO₂ deposition by digital printing:

TiO₂ directly added to a solvent-based ink, deposited by a technology advanced printer



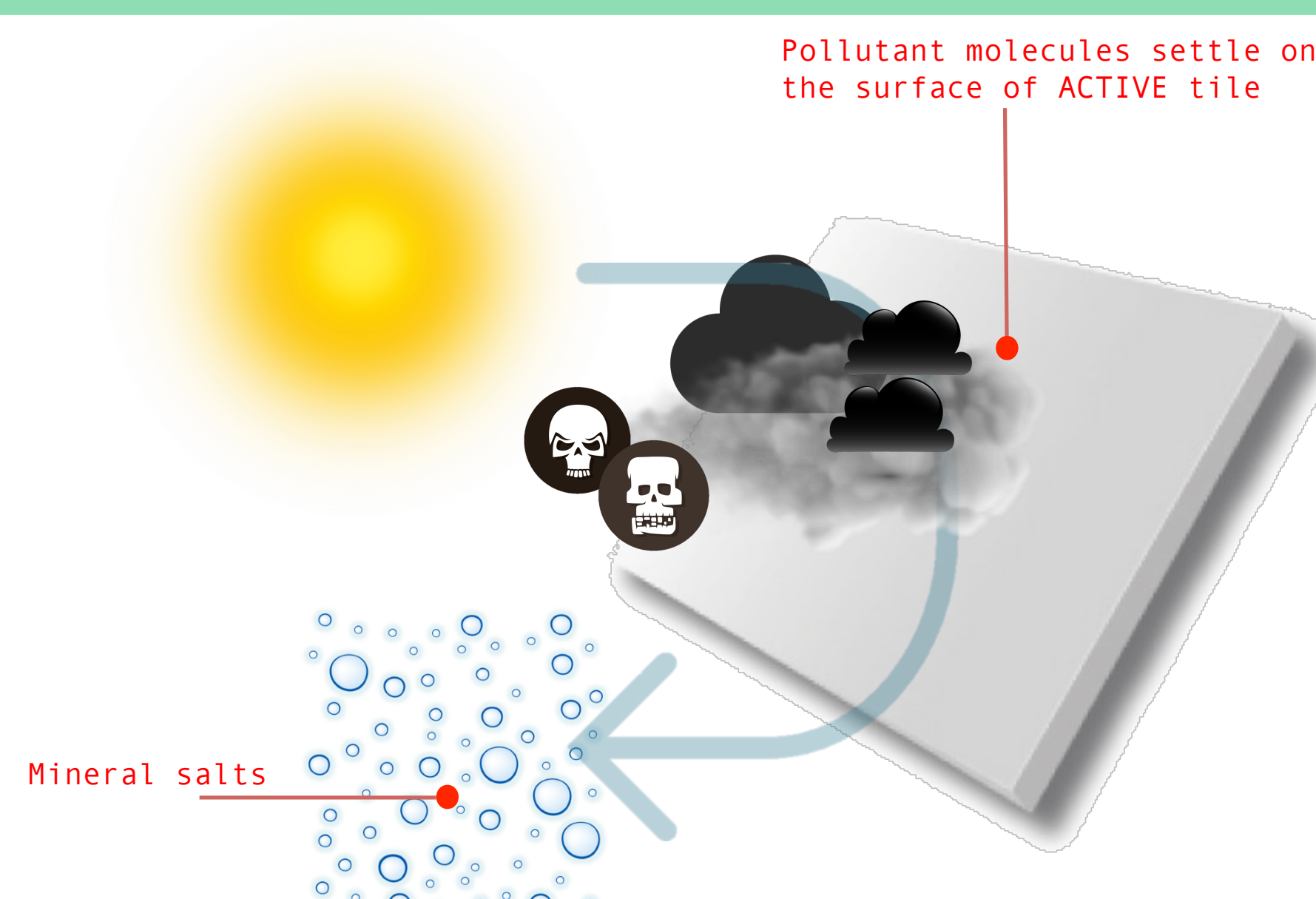
2017

From chemical solvents to H₂O:

TiO₂-INK formulated with WATER, LESS CHEMICALS.



MAXIMIZE ALL ACTIVE BENEFITS:



DIGITALIFE is a green and sustainable solution now industrially validated and effective to raise sustainable manufacturing, positive environmental impact and to improve the quality of environment.

