

## W5 - Materials for a sustainable future

Subgroup 1- Problem Solving

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As we are living in these times of the pandemic, we as designers more than ever are pushed to think how can we improve the space around us by making it healthier and safer.

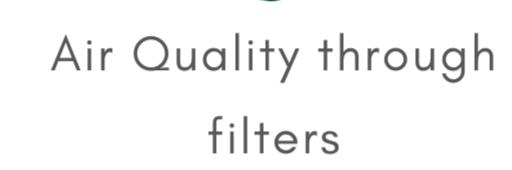
So our main topic of discussion is what materials can be used to make spaces healthier?

3 Main Categories of our research:

Touchable Surfaces (antibacterial protective coatings)

Hospital Patient's room

Copper bedside rails



Disinfection lighting (UVC) / sanitizing methods (cleansers & footbath mats)



Location: ANIMUS Rehabilitation Center,

Larissa, Greece

Hospital circulation

Corridor

Copper handlebar



Copper tray tables

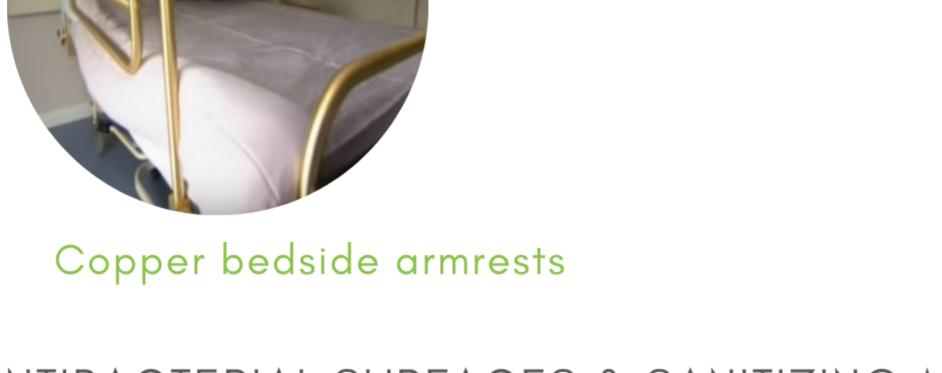
HEPA FILTER

Hepa filter air quality



Disinfection lighting (UVC)

Copper door handles



ANTIBACTERIAL SURFACES & SANITIZING METHODS The aim of Group 1 of our workshop (W5) is to search solutions in protecting Public Health through our field of knowledge:

DESIGN and MATERIAL Technology. We focus on Health Care Facilities where people are more vulnerable and on Public Transportation, where crowds of

people move in daily life.



## **PUBLIC TRANSPORTATION**

Location: Athens, Greece



Working on three main categories we explored ideas for: 1. protecting commonly- used surfaces (such as door handles, handlebars, bedside tables e.t.c.) with copper coatings or antimicrobial thin membranes with self-cleaning properties (using nanotechnology)

2. improving indoor air quality through true HEPA filters in air ducts of the HVAC systems and air purifiers machines 3. sanitizing with disinfection lightings (germicidal UVS devices).





Antimicrobial coating

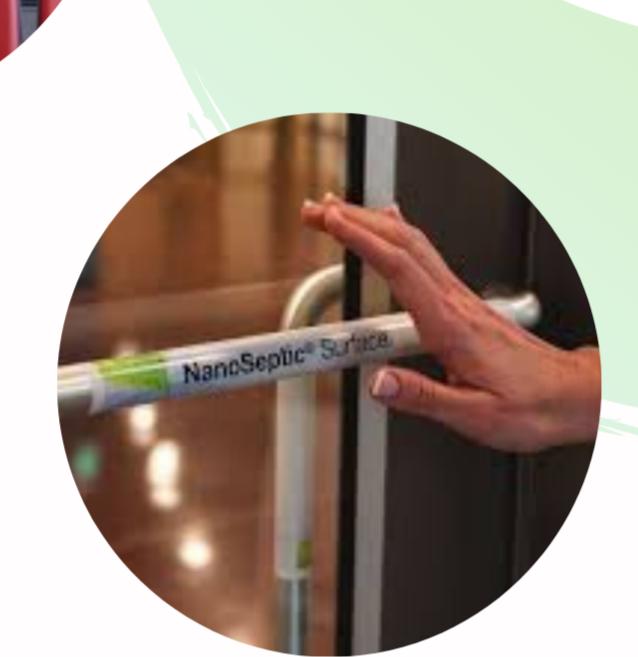


Non-absorbent surfaces



Non-absorbent surfaces

Non-absorbent surfaces



Metro Vagon







