INNO4COV-19
Grant Agreement No. 101016203

Deliverable D5.2

Document Details

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Project Contractual Details

Project Title:	Boosting Innovation for COVID-19 Diagnostic, Prevention and Surveillance
Project Acronym:	INNO4COV-19
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Project Start Date:	October 1, 2020
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Document History

Version	Date	Description	Author
1	30/09/2021	Draft structure of the deliverable	TCD
2	28/10/2021	Revised and completed version for submission	Fraunhofer

Executive Summary

This document establishes the “Catalogue of the Service/Product portfolio sub-platform Protective equipment for people and safer public spaces (SP4)" (D5.2) and it has been prepared by Fraunhofer in the framework of WP5 (SP4: Protective equipment for people and safer public spaces). This deliverable gathers the services offered by the INNO4COV-19 members. The services were selected according to the needs requested by owners of technologies in the domain of Protective equipment for people and safer public spaces.

Together with the deliverables D2.2, D3.2 and D4.2, this deliverable aims to present to the public a comprehensive list of the services offered by INNO4COV-19 platform, for technologies at the stage TRL6/7 or higher. It includes technical and consultancy services, the members that offer the service and the facilities certifications.

Catalogue of Services

SP4 – Protective equipment for people and safer public spaces

INNO4COV19 in the fight against COVID-19

INNO4COV19 Project creates a “lab-to-fab” platform & collaboration resource to enable companies & reference laboratories to develop and implement innovative technologies to fight COVID-19.

For further information please visit our website:
http://www.inno4cov19.eu/

SERVICES AVAILABLE

Click on the service type for more details

- Product Verification
- Analytical Validation
- Precommercial (Scaling Up) and Manufacturing
- Market Evaluation and Recommendation
- Regulatory Assessment and recommendations

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PRODUCT VERIFICATION

Partner offering the service	Services offered	Details
iMM	in vitro preclinical research	Antiviral Activity - Determination of plaque-forming units (PFU) by plaque assay BSL3 facility
VITO	Filtering Half Mask testing	Filtering half mask EN149 accreditation
VITO	Efficiency of air purifiers/air disinfection systems	Air purifier
VITO	Filtering Flat material testing	Flat Filter material
VITO	Effect of cleaning/sterilisation of filtering half mask on filtration efficiency, leakage and breathing resistance	Filtering half mask
VITO	Release of additives from filtrating half masks in inhaled air	Filtering half mask

ANALYTICAL VALIDATION

Partner offering the service	Services offered	Details
iMM	Access clinical samples (matrices)	Provision of plasma samples from healthy donors
iMM	Access (in)active SARS-CoV-2 and related viruses	Sars-CoV-2 isolated from clinical samples
FEP	Microbiological tests	- S1 safety conditions - germ load/bacterial exposure investigation
LEITAT	Microbiological tests	- bacterial exposure investigation (S2 safety conditions) - bacterial filtration efficiency determination
FEP INL	Mechanical testing	- Young's modulus etc. - temperature dependent - nano indentation
FEP	Adhesion testing	- peel and pull tests - cross hatch test - scratch adhesion test
FEP	Quality control	- optical spectrometry - topography (AFM, WLI, SEM) - sheet resistance / surface resistivity - surface defect mapping
LEITAT	Quality control	- Microscopy (optical & SEM) - Dimensional analysis

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PRECOMMERCIAL (SCALING UP) AND MANUFACTURING

Partner offering the service	Services offered	Details
FEP	Electron beam sterilisation	- flexible materials (width < 1300 mm) like polymeric films, textiles & fabrics, paper, metal foils - liquids - bulk goods (approx. diameter < 10 mm)
FEP	Antibacterial/ antiviral coating	- flexible materials (width < 1300 mm) like polymeric films, textiles & fabrics, paper, metal foils - bulk goods (approx. diameter < 30 mm)
FEP	Prototyping via 3D printing	- polymeric materials, rigid and flexible in combination - dimension 30 x 30 x 30 mm^3
INL	Prototyping via 3D printing	SLM and FDM capabilities
LEITAT	Prototyping via 3D printing	- polymeric materials - metallic materials
FEP INL	Mechanical manufacturing	- CNC turning and milling - grinding
FEP INL	Electrical manufacturing	- circuit diagram design - wiring
INL	Electronic manufacturing	- Simulation, Design, fabrication, testing and characterization.
FEP	Electronic manufacturing	- IC design - CMOS manufacturing (with partners) - CMOS adaptation and add-on processing - OLED manufacturing
LEITAT	Electrospinning	- Nanofiber fabrication equipment - Incorporation of anti-bacterial nanomaterial - Adaptable process and Nanofiber design

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MARKET EVALUATION AND RECOMMENDATION

Partner offering the service	Services offered	Details
FEP iMM	Market analysis	Market analysis and exploitation plan
FEP INL	Patent landscape analysis	
iMM	Value proposition	Definition and validation of value propositions
iMM	Business model	Definition and validation of business models
iMM	IPR support	Consultancy in IPR issues
iMM	Access to venture capital and other funding	Advice and support in fundraising efforts

REGULATORY ASSESSMENT AND RECOMMENDATIONS

Partner offering the service	Services offered	Details
INL	Adaptation to ISO 13485:2016	implementation of quality management system compliant with ISO 13485