

LAM - 

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LIGHT ACTIVATED MATERIALS FIGHTING INFECTIONS

# Zkušenosti s podáním žádosti do EIC akcelérátoru a SIGMA SoE

# How to properly prevent infections ?

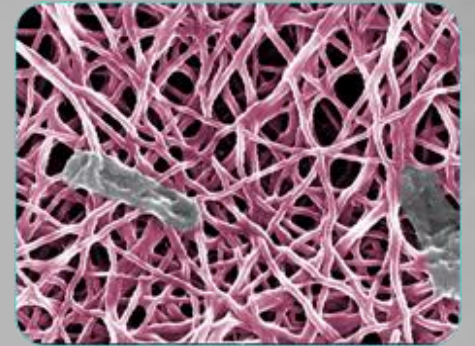


## ANTIMICROBIAL WOUND DRESSING

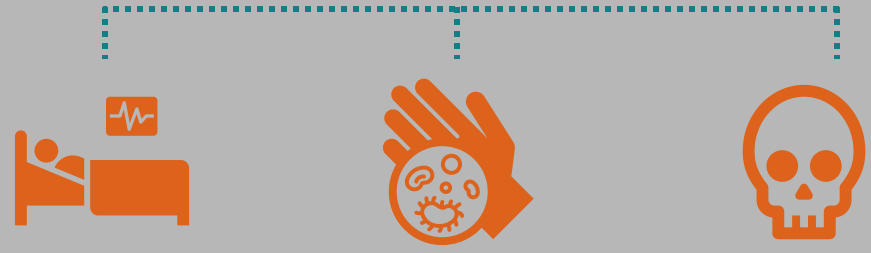


## PLATFORM TECHNOLOGY

- many application areas:
- medical devices,
- crop protection,
- air/water filtration,
- biodegradable food packaging.



99.99% bacteria killed



# Current technologies are not enough

EIC accelerator project: Tackling infections with innovative light-activated nanofiber textiles

## Silver

Sensitization,  
accumulation in tissue,  
cell toxicity

## Chlorhexidine

Resistant bacteria  
creates huge problems  
in hospitals

## PHMB

Potentially carcinogenic  
("not safe for consumers"  
EU commission 2014)



## Superior safety

No toxicity on cells or skin irritation



### MEDICAL DEVICES

PRODUCT:  
Wound dressings, IV dressings,  
incision drapes.

APPLICATION:  
Prevention of infection



## Anti-AMR

No evidence of microbial  
resistance, technology for  
the future



## High efficacy

Broad spectrum efficacy, including  
resistant bacteria

# EIC Funding Opportunities

- EIC Pathfinder

Supporting research and deep tech projects with a high degree of scientific ambition and risk.

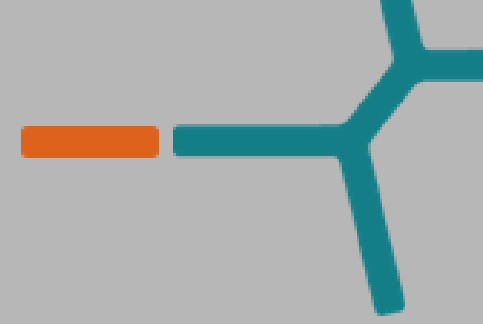
- EIC Transition

Supporting maturation and validation of novel ideas from lab to business. A bridge between research and application development.

## EIC Accelerator

Supporting start-ups and small and medium-sized enterprises to develop and scale up to new markets or disrupt existing ones.

# EIC Accelerator Open | Challenges



The **EIC Accelerator** is a funding programme under Horizon Europe that offers support to start-ups and SMEs that:

- have a **innovative, game changing product**, service or business model that could **create new markets** or **disrupt existing ones** in Europe and even worldwide,
- have the ambition and commitment to **scale up**,
- are looking for **substantial funding**, but the risks involved are too high for private investors alone to invest.

# EIC Accelerator – Funding Options

/in total up to 17.5 M EUR/



*European Innovation Council  
Horizon Europe*

## Grant Component

0.5-2.5 M EUR | TRL 5-8 | 24 months

- Grant only
- Grant first

## Investment Component

up to 15 M EUR | <TRL 9 | up to 7-10 years?

- Blended finance
- Direct Investment

# EIC Accelerator – Evaluation Criteria

## *excellence*

Breakthrough and market creating nature: Does the innovation have a high degree of novelty – compared to existing products, services and business models – with the potential to create or significantly disrupt markets?

Timing: Is the timing right for this innovation in terms of market, user, societal or scientific or technological trends and developments?

Technological feasibility: Is the innovation based on a technology or technologies that have been adequately assessed at least in a laboratory environment and relevant environments to characterise the potential and assess the level of risk (at least TRL 5/6)?

Intellectual Property: Does your company have the necessary Intellectual Property Rights to ensure freedom to operate and adequate protection of the idea?

## *scale up potential*

Scale up potential: Does the innovation have scale up potential including the potential to develop new markets and impact on the growth of the company? Are the associated financial needs well assessed and realistic?

Broader impact: Will the innovation, if successfully commercialised, achieve broader societal, economic, environmental<sup>38</sup> or climate impacts?

Market fit and competitor analysis: Has the potential market for the innovation been adequately assessed, including conditions and growth rates? Has a competitive analysis been thoroughly performed, including identification of potential customers and users, definition of unique selling points and key differentiation from competitors?

Commercialisation strategy: Is there a convincing and well thought-through strategy for commercialisation, including regulatory approvals/compliance needed, time to market/deployment, and business and revenue model?

Key partners: Have the key partners required to develop and commercialise the innovation been identified and engaged, including their roles/competences and a sufficient level of commitment and incentivisation?

## *level of risk, implementation, and need for Union support*

Team: Does the team have the capability and motivation to implement the innovation proposal and bring it to the market? Is there a plan to acquire any critical competencies which are currently missing?

Milestones: Is there a clear implementation plan with defined milestones, work packages and deliverables, together with realistic resources and timings?

Risk level of the investment: Does the nature and level of risk of the investment in your innovation mean that market actors are unwilling to commit the full amount alone? Is there evidence that market actors would be willing to invest, either alongside the EIC or at a later stage?

*Note: Small mid-caps will be expected to provide documentary evidence that their bank has refused the financing needed for the project.*

Risk mitigation: Have the main risks been identified, together with measures to take to mitigate them?



# EIC Accelerator – Application Process

## A three-step application process:

### I. Short Proposal (02/2022 – 04/2022)

- approx. 2 200 submissions
- video pitch (3 min./3 team members), short application (5 page online form), pitch deck (up to 10 slides)
- at least 2 times "GO" out of 4
- 3 criteria: 1. excellence, 2. scale-up potential, 3. level of risk, implementation, and need for Union support

### II. Full Proposal (06/2022 – 10/2022 | 11/2022 – 01/2023)

- approx. 1 000 (> 50%)
- full application (+LoI), pitch deck (to be presented later in the interview)
- 9 times "GO" out of 9 (7/9 | 8/9 --> 9/9)

### III. Interview with the EIC Jury (03/2023)

- *approx. 200 invited for interviews (< 10%)*
- *(15 min. Jury briefing) + 10 min. presentation + 35 min. QA session + (15 min. Jury debriefing) + (panel review)*
- 1+5+1 jury members + 3 team members

Total success rate – approx. 2%, usually 3-5% (SoE – ?) | ***SoE OR resubmission***

Consultants | ***! Coaching (24 hours) !***

# TA ČR SIGMA SoE – Application Process

A simple and fast application process:

- ❑ EIC accelerator results – 04/2023
- ❑ SoE – funding opportunities ? (05/2023)
  
- ❑ SIGMA SoE call (1. - 30. 6. 2023) – max. 1 M EUR (70% of costs)
  - Project Proposal (EIC accelerator)
  - Evaluation Summary report
  - ***SoE certificate !!!***
  - Application form in Excel
  - ...
  - *EIC accelerator plan + budget vs. SIGMA SoE plan + budget !!?*
- ❑ SIGMA SoE results – 07/08 2023

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