



# Funding for services towards the implementation of free-form micro-optics



6 June 2023. 16:00 - 17:00 CEST

EPIC Members New Product Release



#### **Introduction to PHABULOuS**

- PHABULOUS is a European funded project / pilot line within the Horizon
  H2020 Program for the manufacturing of free-form micro-optics
- **PHABULOUS Pilot Line Association** is the legal entity created within this project to serve as entry point and continue the offering of services after the project.







#### **Pilot Line for design and manufacturing**





#### **Pilot Line for design and manufacturing**

#### **Focused on free-form micro-optics**

- Optical components without symmetry constraints
- Gaining an increasing industrial interest in the last few years



PHOTONICS PUBLIC PRIVATE PARTNERSHIP



**Click to visit YouTube and watch our introduction video** 



#### **Pilot Line for design and manufacturing**

#### **Without PHABULOuS**

#### With PHABULOuS





#### **Pilot Line for design and manufacturing**







#### **Advanced FMLAs for next generation headlights**

Enable headlights with optimized light distribution and low installation space and weight.













## **MICCOLED** ActiveLook®

#### Micro Displays for Augmented Reality solutions

Control the angular shape of light output and to enhance brightness.















#### **Transportation Interior Lighting**

Develop ultrathin luminaires or luminaires with a significantly reduced number of LEDs and with a customized illumination pattern.





## SWAROVSKI

## **Brilliance in Luxury**

Seamless manufacturing of micro-structured foils with gemstone appearance.















## **Novel lighting solutions**

Luminaires with asymmetric

uniform light distribution.







#### **Optical system for VR headsets**

VR/AR headsets with improved performance and reduced volume.

Thin free-form optical lenses with better image resolution and field of view.







## **Automotive Lighting**

UV-imprinted micro lens arrays (MLAs)

for light carpets.











## **Optical Communication**



UV-Replication of in-plane micro-optical interconnects on SiN waveguides.

Plug & Play assembly of fibers with self-alignment structures.





Fiber self alignment



## **Our offer**

- Easy access to a full value chain
- Manufacturing services from prototyping to piloting and large volume production
- Now with funding up to 90% through the open call

www.phabulous.eu/open-call/







Pilot-line providing highly advanced & robust manufacturing technology for optical free-form micro-structures

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PHABULOuS Open Call Funding opportunities to implement free-form micro-optical components



www.phabulous.eu/open-call/

### **Subsidy percentages**

			(and)	(and/or)			
Туре	of company	Staff headcount	Turnover	Balance sheet total	Subsidy percentage		
LMEs		> 3,000	N.A.	N.A.	max. 10%		
Mid-c	ар	< 3,000	N.A.	N.A.	max. 50%		
SME	Medium-sized	< 250	≤€50 m	50	max. 70%		
	Small	< 50	≤€10 m	≤€10 m	max. 80%		
	Micro	< 10	≤€2 m	≤€2 m	max. 90%		





## **Evaluation criteria**

#### • Excellence

Challenges to overcome, proposed solution, current state-of the-art, etc.

#### • Impact

Market opportunity, Go-to-market strategy, key exploitable results, etc.

#### Implementation

Work plan description, resources committed, TRL level, etc.





## **Application process**

#### Application

Upload your project proposal at any time

#### Evaluation

At the end of every month the entries will be collected and evaluated.

#### • Execution

A typical pilot case takes between 6-12 months (depending on needs)









#### **Pilot Line Front Office**







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## Thank you







