

*You are a **European company** with  
the **ambition to innovate?***

*You are a **researcher in a European  
organisation** with the wish of  
building your **own business?***



**Matthieu Roussey**  
**WWW.ACTPHAST.EU**



Together we give birth to your photonics innovation.



*Where your ideas see the light.*

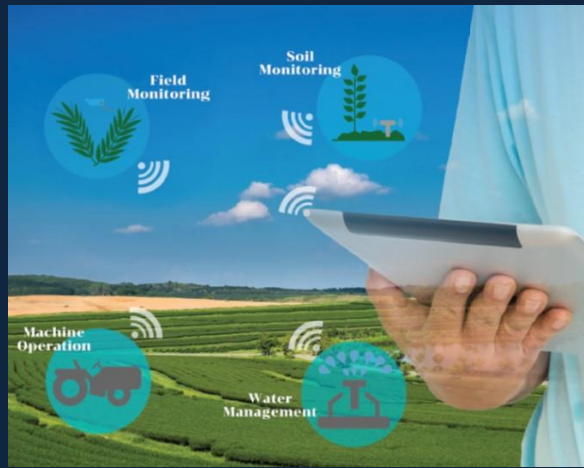


Accelerating Photonics innovation:  
a one stop-shop-incubator  
ActPhast 4.0 for SMEs  
ActPhast 4R for Researchers





7 application domains where **photonics** plays an important role to **innovation**



Photonics for safe, nutritious and affordable **food**



Photonics in life sciences and **healthcare**



Photonics for **sustainability** and a clean environment



Photonics for a secure and resilient **IT infrastructure**



Photonics in **manufacturing** and production



Photonics for connected **mobility**



Photonics for **smart homes** and liveable **cities**

# ActPhast gives you access to...

## Photonics expertise and experts



in-house photonics  
experts and expertise  
are missing



supporting  
in-house photonics R&I  
is too expensive



identifying external experts  
is time-consuming  
and inefficient

## Photonics technologies and platforms



in-house cutting-edge  
photonics technology  
is missing



investment risk  
is too high or  
financially irresponsible



multiple-stop technology  
shopping fails  
partial solutions  
are often incompatible





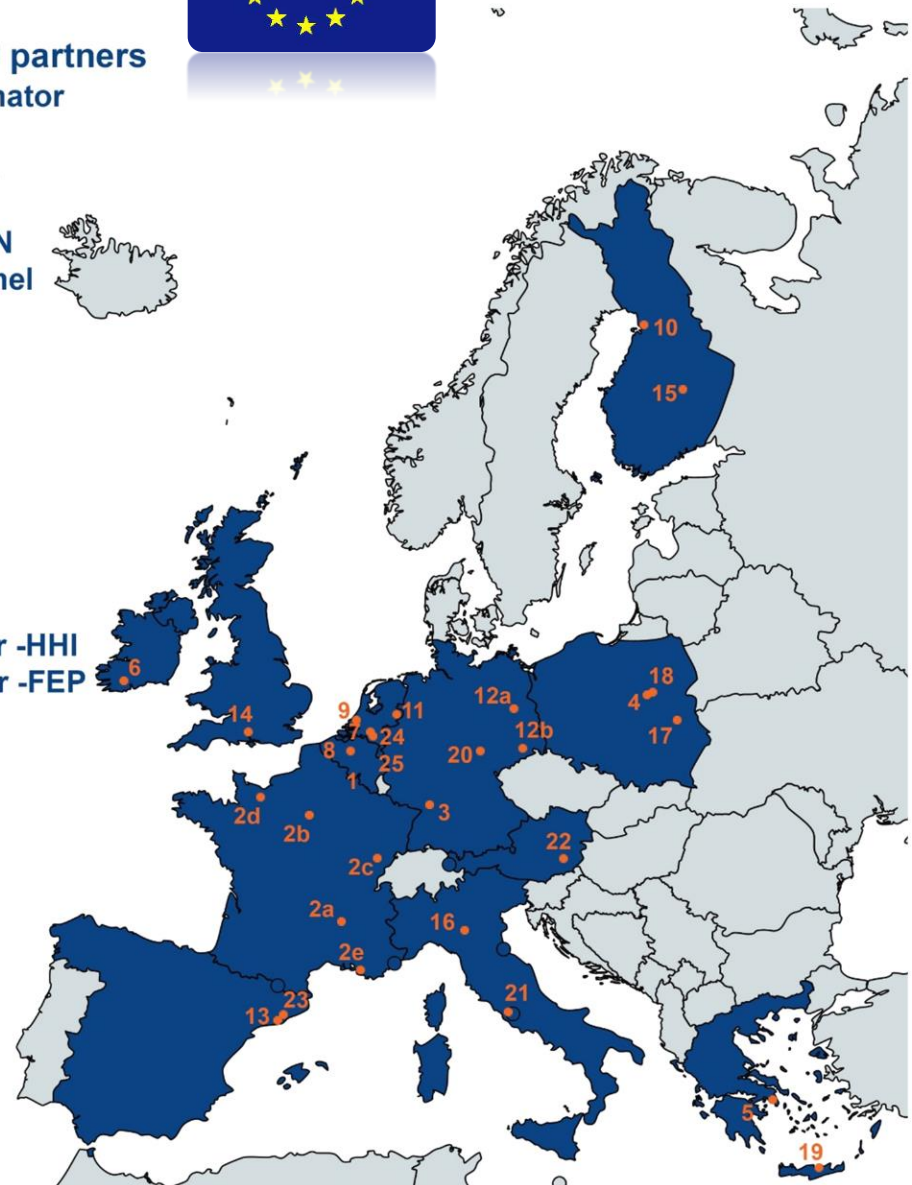
A one-stop-shop  
photonics innovation  
incubator

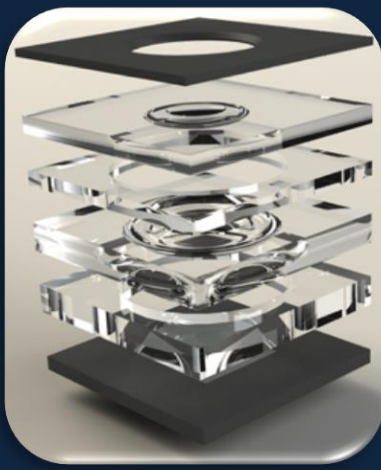
More than 200 top-experts  
from 25 institutes to help you!



• ACTPHAST 4.0 partners

1. VUB - coordinator
- 2 a. CNRS-UJM
- 2 b. CNRS-IOTA
- 2 c. CNRS-UFC
- 2 d. CNRS-CAEN
- 2 e. CNRS-Fresnel
3. KIT
4. WUT
5. ICCS
6. UCC
7. TU/e
8. IMEC
9. TNO
10. VTT
11. LIO
- 12 a. Fraunhofer -HHI
- 12 b. Fraunhofer -FEP
13. ICFO
14. ORC
15. EUF
16. CNIT
17. UMCS
18. ITME
19. FORTH
20. IPHT
21. CNR
22. JR
23. UPC
24. SPH
25. EUN

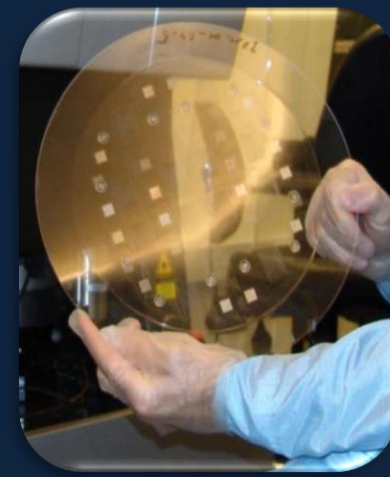




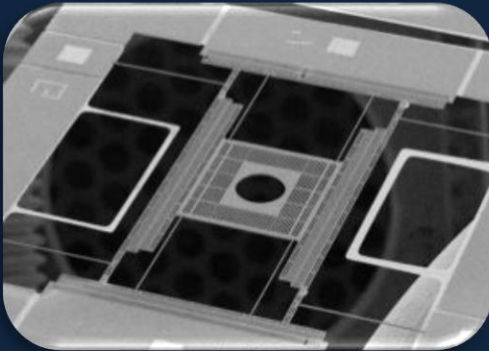
free-space optics



specialty fibers

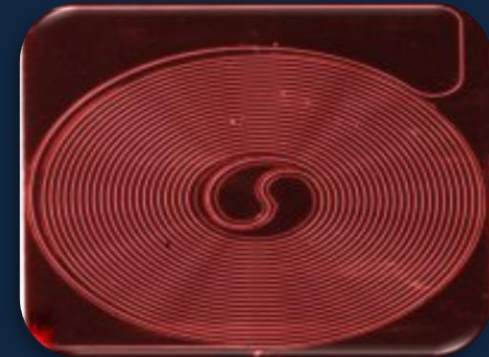


polymer-based optics

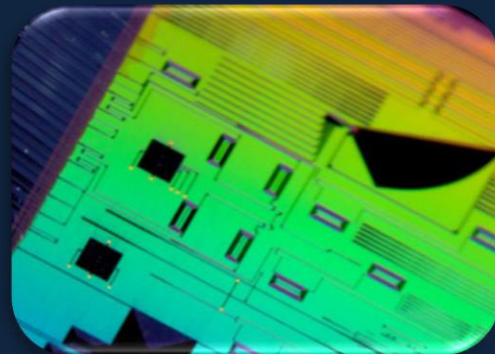


MOEMS

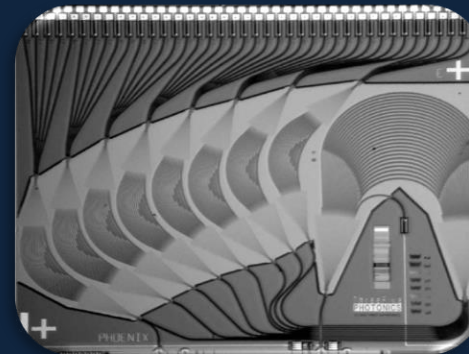
## 7 Technology Platforms



SiN-SiO PICs

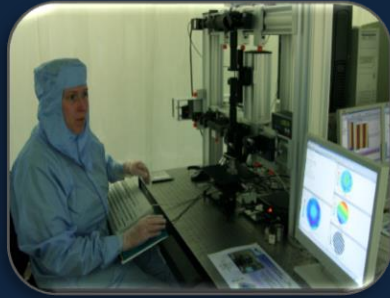


Si -PICs

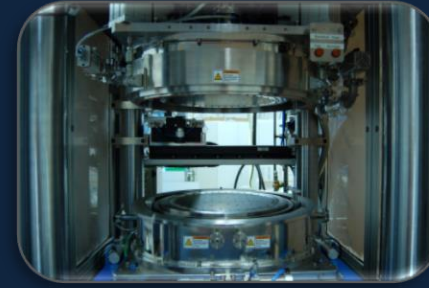


InP -PICs

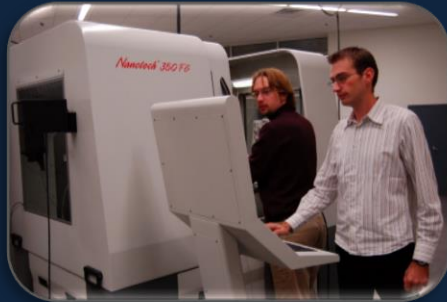
# Each technology platform is capable of supporting a full supply-chain from design to demonstrator



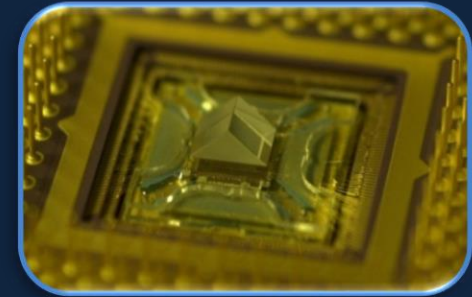
Optical Measurement and Characterization



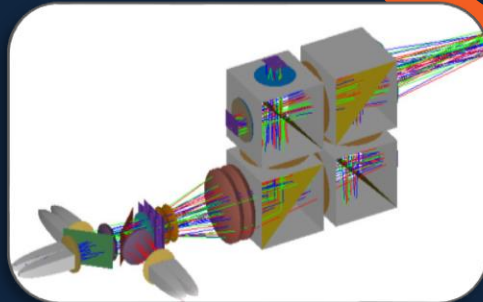
Prototyping with mass-manufacturing equipment



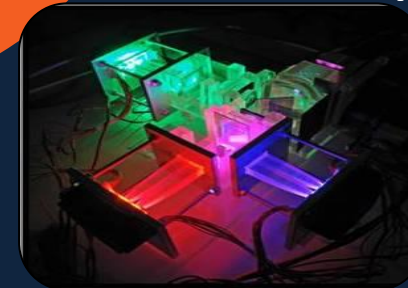
Mastering and Prototyping Technologies



Packaging and Integration



Optical Modelling and Photonic Design



Demonstrators and Prototypes





# Typical budget

Project budget	SME contribution / research org.
40k€	2,5k€
50k€	5k€
60k€	7,5k€
70k€	10k€
80k€	12,5k€
90k€	15k€
100k€	17,5k€
110k€	20k€
120k€	22,5k€

**ActPhast subsidizes:**

*For SME's*

**> 80%**

*For LSE's*

**50%**

*For researchers:*

**> 80%**



 **PHOTONICS<sup>21</sup>**

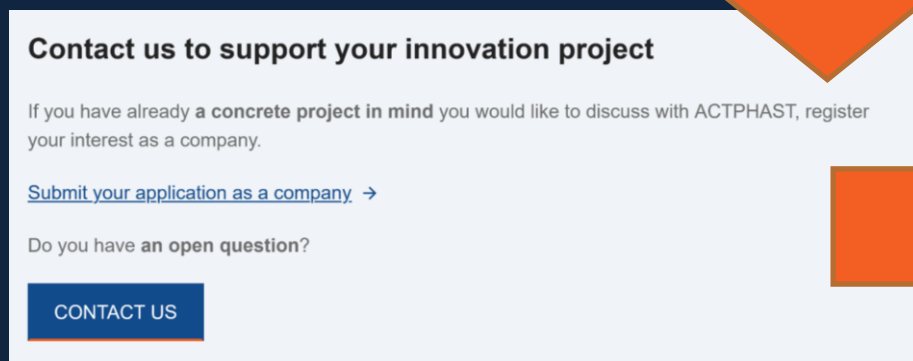
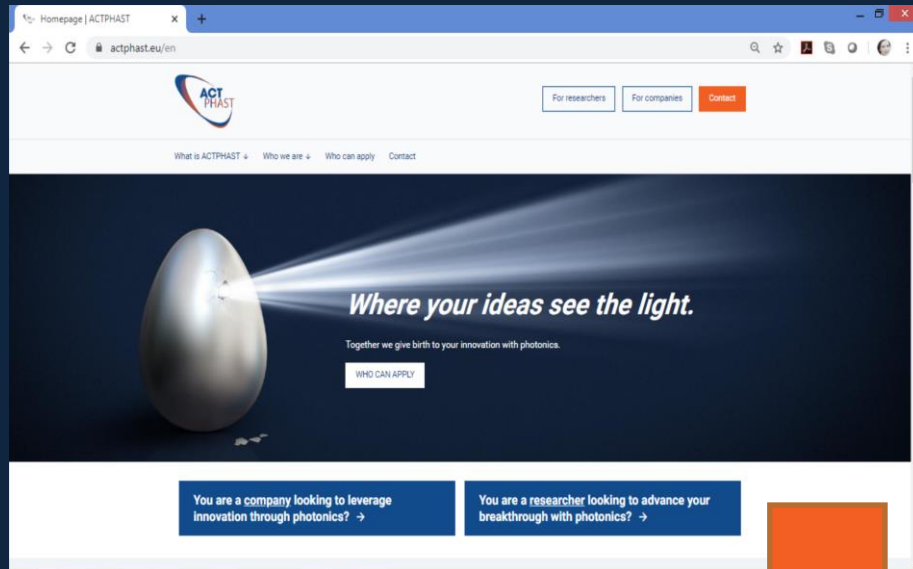
PHOTONICS PUBLIC PRIVATE PARTNERSHIP



# ActPhast for Researchers

- Initial proof of concept done in the lab!
- Benefit the knowhow, skills, advice from any of the partners.
- Innovation support for researchers is subsidized for strongly committed research organisations: 80% subsidized by ActPhast 4R.

# WWW.ACTPHAST.EU

A screenshot of the ACTPHAST4.0 registration form for companies. The header includes the ACTPHAST4.0 logo and navigation links: 'What is ACTPHAST4.0?', 'Who we are', 'Who can apply', and 'Contact'. On the right, there are three buttons: 'For researchers', 'Actphast', and 'Apply now'. The main heading is 'Register your interest as a company'. Below this is a paragraph: 'Are you a company looking to register your interest? Fill out the form below and submit your registration. If you want to know more about who can apply or what the next steps are, click one of the links to learn more.' To the right of this paragraph are four links: 'Who can apply →', 'Eligibility criteria →', 'Evaluation criteria →', and 'How it works →'. The form fields are: 'First Name \*', 'Last Name \*', 'Company \*', 'Job title \*', and 'E-mail (organisational domain)'. Each field has a corresponding input box.





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AND FACILITIES FOR  
THE GROWTH OF  
COMPANIES  
UTILISING  
PHOTONICS

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