

Access Center for Photonics Innovation Solutions And Technology Support



One-Stop-Shop for Supporting European Companies driven by their Photonics Innovation Needs

especially adapted to the needs of SMEs





ACTPHAST is an Integrated Project funded by the European Commission under FP7 Grant Agreement N° FP7- 619205.

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

SMEs are the motor of Europe's economy

5k SMEs in Photonics

46k SMEs in High-Tech Manufacturing (HTM)

4.3m SMEs in Knowledge Intensive Sectors (KIS)



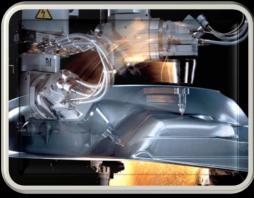
Optical Datacom



Photovoltaics



LED Lighting



Lasers in Manufacturing



Machine Vision

PHOTONICS

great opportunities to innovate in a variety of sectors



Medical Optics



Displays



Optical Components

Photonics innovation show-stoppers for companies

Human resources and expertise



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

Technology



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

ACTPHAST's INNOVATION ROADBLOCK REMOVERS



dedicated task forces with the best EU experts





supported by key photonics technology platforms



photonics innovation support and services that efficiently impact companies

Based on 10 years of EU-wide NoE integration efforts and on "best practices" from SME access projects







Easy access to Silicon Photonic Solutions





MPW TriPleX[™] service



More than 200 top-experts from 23 institutes ready to provide innovation support to industry



















































































Access Center for Photonics Innovation Solutions And Technology Support



















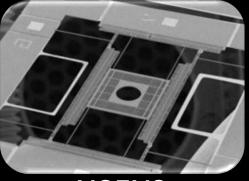
free-space optics



specialty fibers



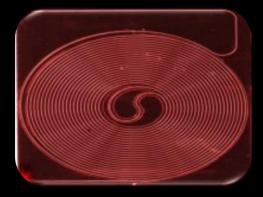
polymer-based optics

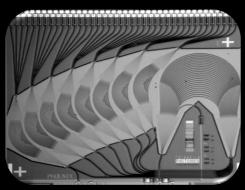


MOEMS



Si -PICs





InP -PICs

SiN-SiO PICs

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



Optical Measurement and Characterization

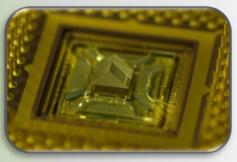


Low-Cost Low-Volume Manufacturing



Mastering and Prototyping Technologies





Packaging and Integration





Optical Modelling and Photonic Design

Demonstrators and Prototypes

ACTPHAST's general support principles



support innovation driven by business needs



provide support instead of funding



innovation instrument dedicated to SMEs



support a variety of industry sectors



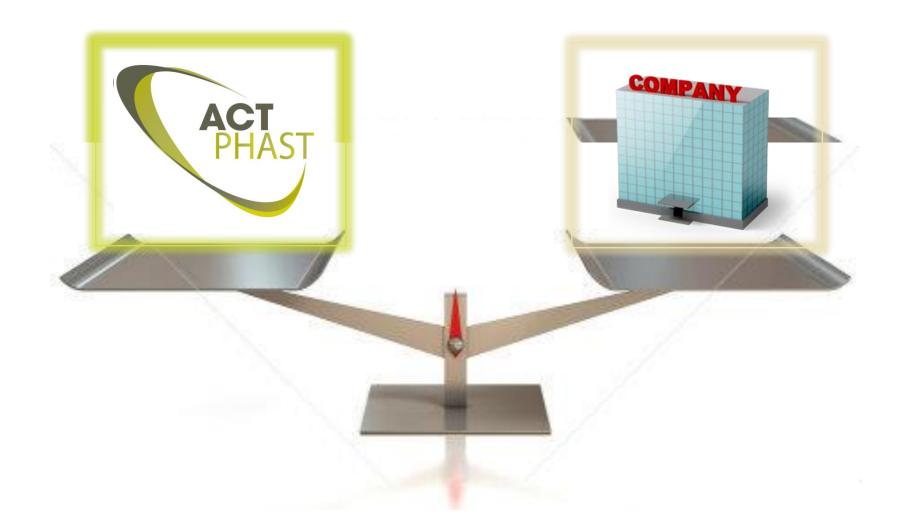
target innovation close to the market



potential impact on jobs and growth are key



Support for SMEs is 100% subsidized for strongly committed companies



ACTPHAST supports photonics and photonics-enabled companies



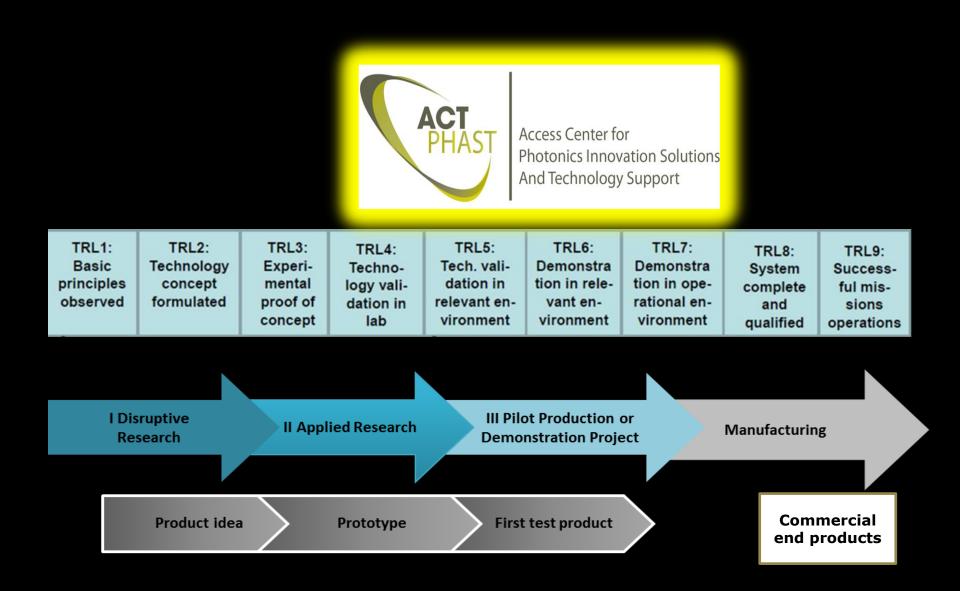
Photonics Companies

Companies whose core business is the production of photonic components and systems



Photonics-enabled Companies

Companies that can enhance their products with the enabling power of photonics ACTPHAST focuses on pre-competitive photonics product innovation from TRL 4 to TRL 7 with a preference for end-products already close to the market

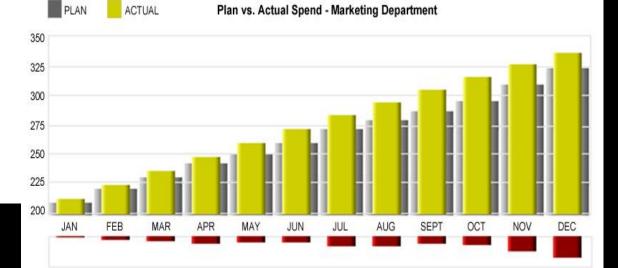


Potential increase in new revenues and related EU job creation are ACTPHAST's Key Performance Indicators

Expected	Current Year	Year 1	Year 2	Year 3	
Annual Revenue	1 000 000.00	1 030 000.00	1 112 400.00	1 190 268	
Variable Expenses	2				
Supplies		101 970.00	109 026.32	117 824	
Wages % Revenue	200 000.00	9.90 199 820.00 19.40	9.80 215 805.60 19.40	230 911	
Distribution	7 50 000.00	50 985.00	54 513.16	58 912	
Marketing	2 50 000.00	50 985.00	54 513.16	58 912	
Other Variable	7 50 000.00	4.95 50 985.00 4.95	4.90 54 513.16 4.90	58 912	
Total Variable	2 450 000.00	454 745.00	488 371.40 43.90	525 473	
Gross Profit % Revenue	7 550 000.00	44.15 575 255.00 55.85	624 028.60 56.10	664 794	
Mark-Up %		126.50	127.78	126	

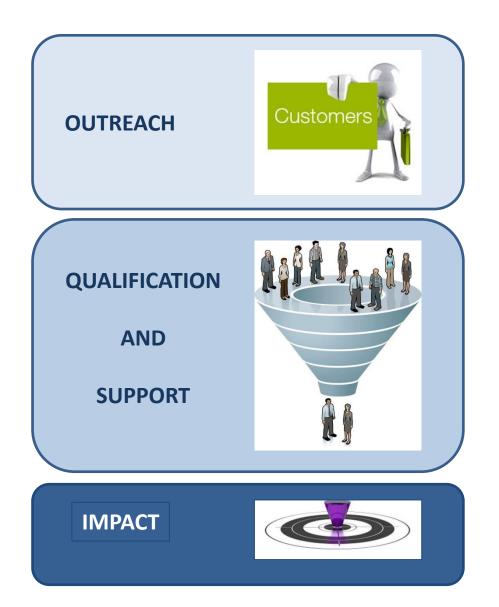
Fixed Expenses







ACTPHAST's action plan



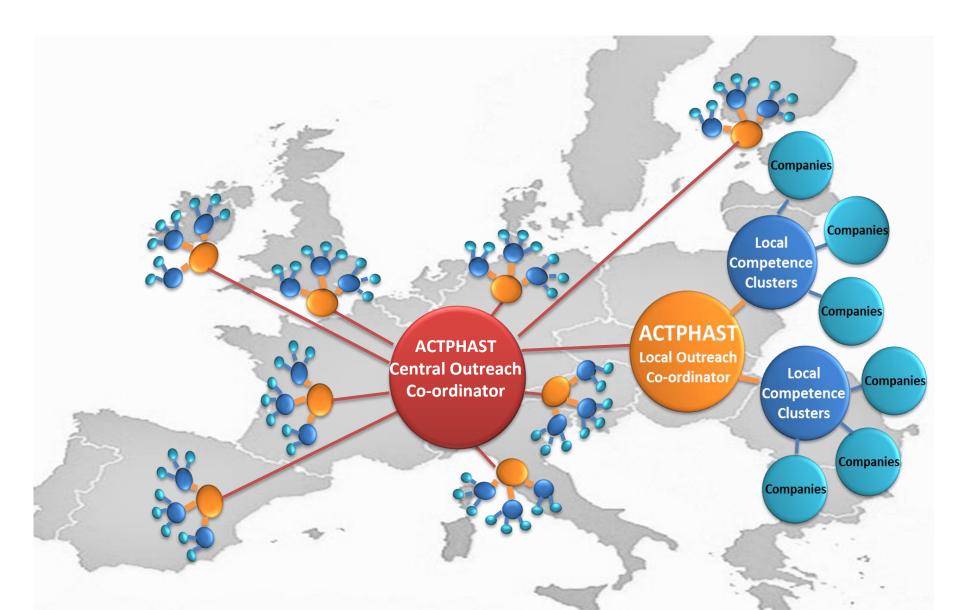


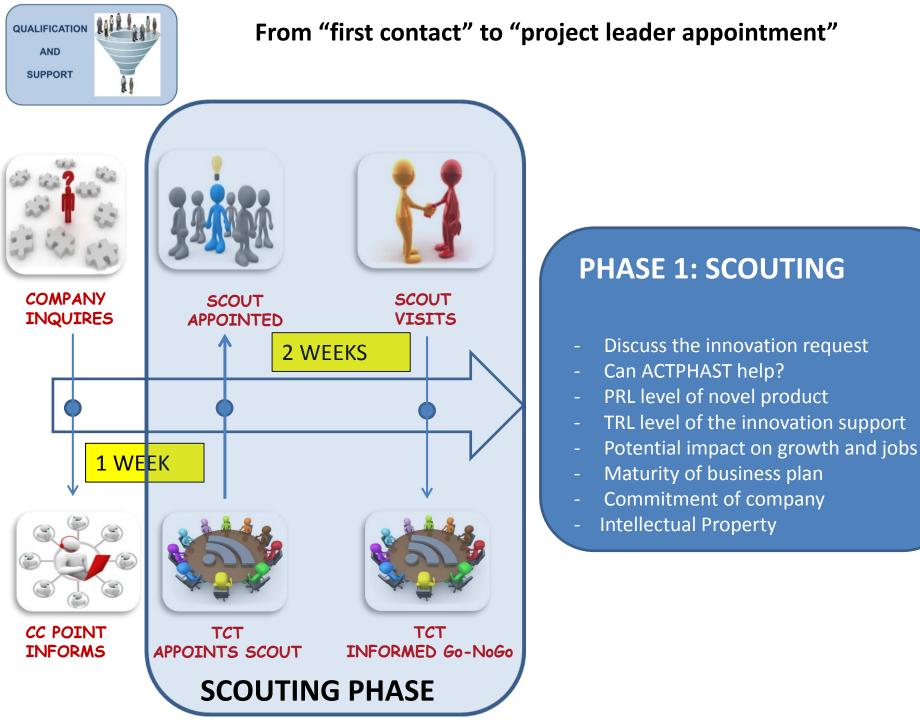
Professional business developers act as Local Outreach Coordinators in a designated region





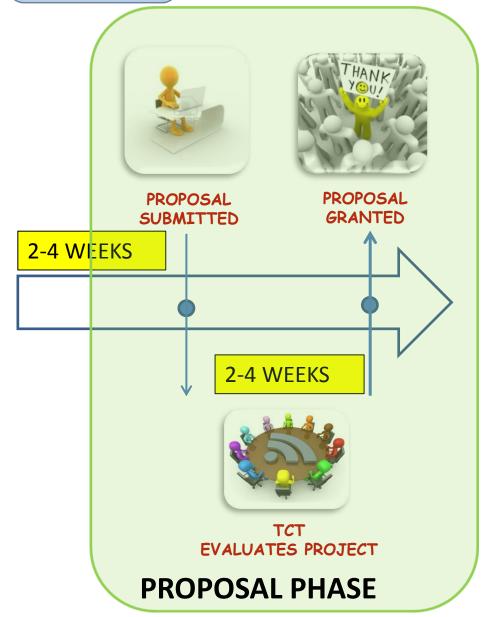
ACTPHAST reaches out to thousands of companies by teaming up with regional competence clusters





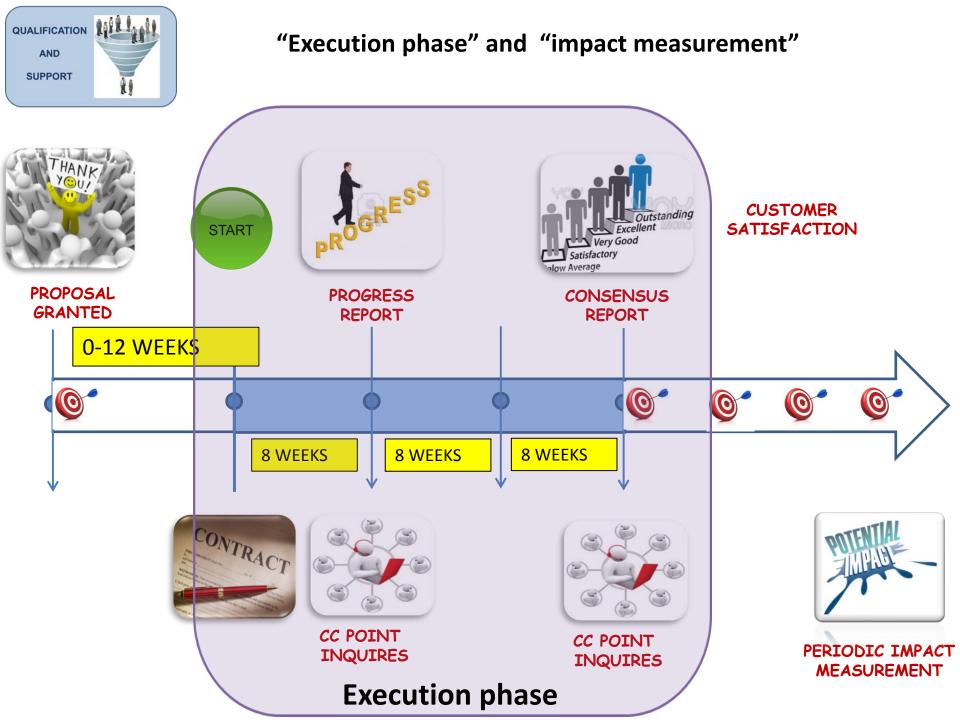


From "project leader" to "proposal granted"

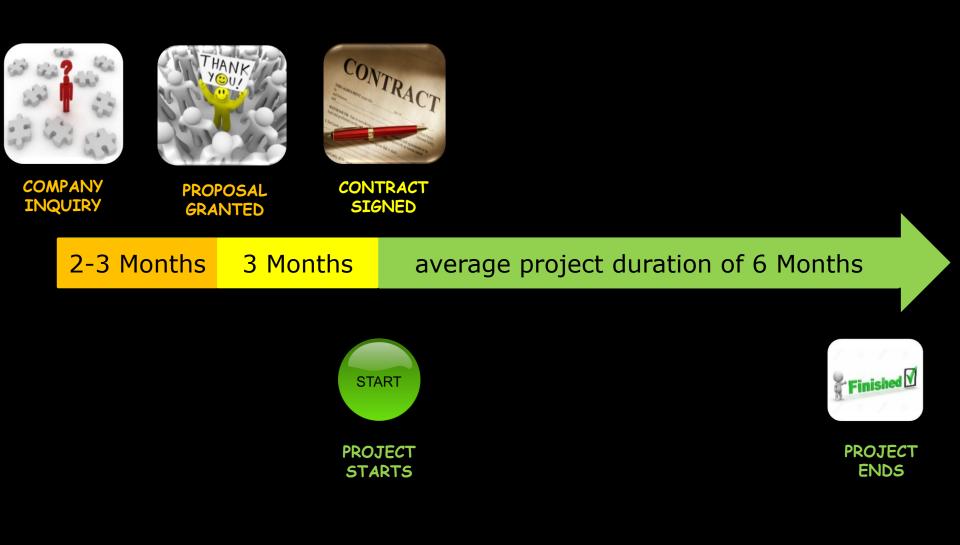


PHASE 2: PROPOSAL

- Project leader writes proposal
- TCT evaluates proposal
- Focus on
 - Potential impact of the project
 - Urgency of support
 - IPR agreement
 - Cost of project
 - Company contribution
 - Return on Investment



ACTPHAST targets short-duration high-impact projects while striving for timely support in collaboration with the companies



ACTPHAST's Quantitative Key Performance Indicators



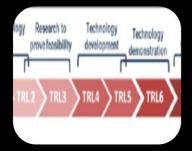
leverage of EC R&I funding



timeliness of support



customer satisfaction



advancement in TRL



projected increase in company's revenues

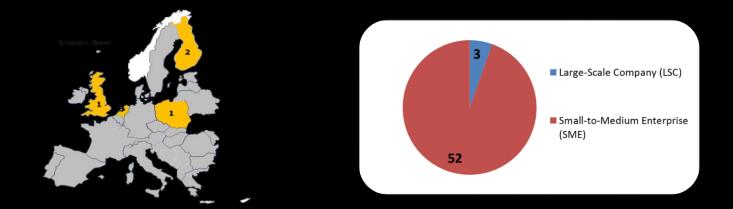


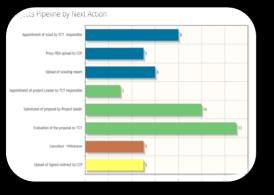
projected increase In number of jobs

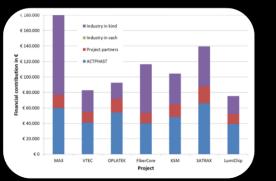


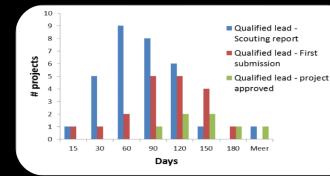


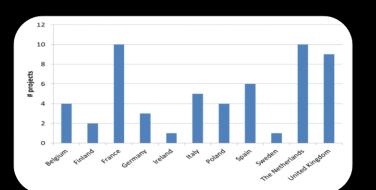
ACTPHAST monitors its impact on a real time performance dashboard

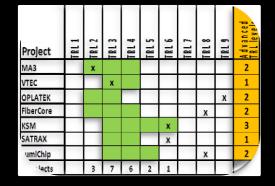


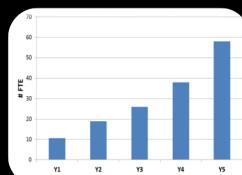




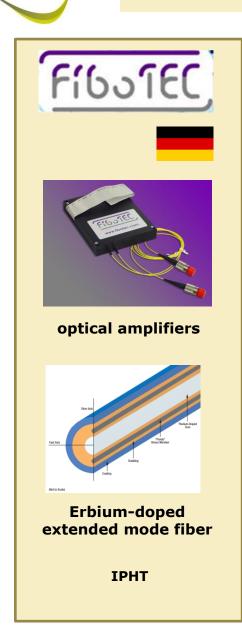






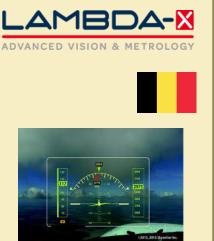






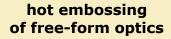
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Head-up displays for avionics







VUB KIT **Examples of SMEs receiving support**



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Examples of SMEs receiving support



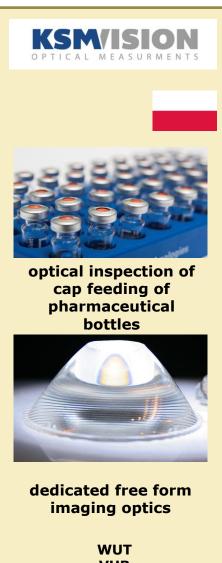




power system protection



FBG interrogator for power industry



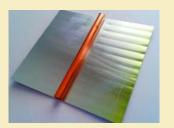
VUB



TNO

Examples of SMEs receiving support ACT PHAST





solar thermal systems



temperature/ pressure sensors

FORTH







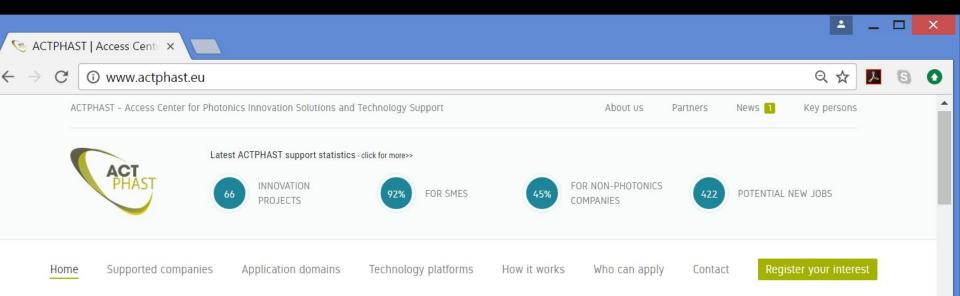
ice-on-turbine optical detection

WUT



Results after 30 months

- 66 innovation projects in 14 EU countries (average project duration 6 months)
- 60% of these companies receive EU support for the first time
- 46% of these companies are non-photonics companies
- 26% of these companies has never heard of photonics before
- average cost per project is 105k€ of which 45k€ ACTPHAST funding
- R&I expenditure leverage factor is 2,5
- 90% of the companies very satisfied with ACTPHAST support
- 13 of the 66 projects target 22 million € of additional VC funding
- 53 of the 66 projects target 281 million € new revenues in the next 5 years
- together the 66 companies expect to create 423 new EU jobs in the next 5 years



A unique one-stop-shop solution for supporting photonics innovation in European companies

especially adapted to the needs of small- and medium-sized enterprises



Download presentation



Why is it successful?



focus on the company's innovation challenge



subsidized innovation lowers company's innovation threshold



centralized contact point quick guidance



single-stop shop top experts and technology



Iow administrative overhead for company



timely support

Projects overview ×									±		×
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ACTPHAST Intranet					Posts 🚽 Admin Pa	anel Experts Profiles	Innovation Pr	ojects KPI Da	shboard Pen	ding Actions	(3)
HOME / PROJECTS											
Projects Overview											1
▼Filter	Search by Proj	ect name or Co	mpany name	Search			Shov	ving 1-20 of 1	50 Projects		
A	Project ID 🕴 🕇	Project Status 🕴 🕇	Project Phase 🖡 🕇	Last Stage Action 🕴 🕇	Next Stage Action 🖡 🕇	Company 🖡 🕈	TCT Responsible	Scout	Project Leader		
TCT Responsible * Scout *	P2016 - 35	Active	Scouting phase	Potential Creation	Appointment of TCT responsible by coordinator	Commscope Connectivity Solutions	Not yet defined	Not yet defined	Not yet defined		
Project Leader 🔹	P2016 - 34	Active	Scouting phase	Potential Creation	Appointment of TCT responsible by coordinator	ThetaMetrisis S.A.	Not yet defined	Not yet defined	Not yet defined		
Last Stage Action ▼ Next Stage Action ▼	P2016 - 33	Active	Scouting phase	Appointment of TCT responsible by coordinator	Appointment of scout by TCT responsible	AFL Telecommunications GmbH	Francis Berghmans	Not yet defined	Not yet defined		
Project Status *	P2016 - 32	Active	Scouting phase	Appointment of scout by TCT responsible	Proxy NDA upload by CCP	Inkron Oy	Peter O'Brien	Marc Rensing	Not yet defined		
Project Phase 🔹	P2016 - 31	Active	Scouting phase	Proxy NDA upload by CCP	Submission of scouting report	OCTLIGHT ApS	Peter O'Brien	Marc Rensing	Not yet defined		
Project Phase by Next Stage Action 🔹	P2016 - 30	Active	Scouting phase	Appointment of scout by TCT responsible	Proxy NDA upload by CCP	St Jude Medical	Francis Berghmans	Eva Ryckeboer	Not yet defined		
Company Type *	P2016 - 29	Active	Scouting phase	Submission of scouting report	Verification of the Scout Report by CCP	Innodesi Srl	Malgorzata Kujawinska	Giampiero Contestabile	Not yet defined		
Industry Sector 🔹	P2016 - 28	Active	Scouting phase	Proxy NDA upload by CCP	Submission of scouting report	EXALOS	Roel Baets	Eva Ryckeboer	Not yet defined		
Number of Employees in	P2016 - 27	Cancelled	Project withdrawn	Cancelled - Withdrawn	Cancelled - Withdrawn	PragmaVision Sp. z o.o.	Malgorzata Kujawinska				

by company

Contract

Scouting

phase

phase

P2016 - 26

P2016 - 25

Active

Active

Upload of Signed

contract by CCP

Proxy NDA upload by CCP

Company 🔹

Country of Origin 🔹

Size of Turnover •

Gama Impianti srl

Raytrix GmbH

Conduct Project Kick

Off Meeting

Submission of

scouting report

Wendy

Erps

Meulebroeck

Jurgen Van

Wendy

Not yet defined

Meulebroeck

Michael

Vervaeke

Michael

Vervaeke



Effective impact through synergy and collaborations

- Iowering the CSA project boarders and leverage impact through synergy and collaboration
- invest in multiple concertation meetings and their follow up to exchange best practices
- swiftly refer or transfer companies to the dedicated innovation support initiatives
- gradually integrate successful innovation instruments in a dedicated large innovation hub
- exchange the coordinates of pro-active clusters (photonics and non-photonics)
- jointly identify high-potential start ups and SMEs for the investment fora e.g. EPVF
- team up with the "Photonics 4" initiatives (EuroPho 21)
- adopt tool box to detect (evaluate) TRL and PRL levels (Respice SME's)
- Teaming up with EPRISE Photonics Roadshow (e.g. include ACTPHAST in B2B meetings)
- Exchanging candidate SMEs with Laser-GO and teaming up with matchmaking events