

Overview Project Expertise

Industrial projects remain anonymised in line with the source note on confidentiality and non-disclosure obligations.

Project acronym	Project name / funding body	Duration	PPS or institutional budget / total budget	PPS contribution
O**X	Industry	01/2026–12/2026	112 k€	PPS industrial project contribution; confidential/anonymised
6G-MUSICAL	6G multiband wireless and optical signalling for integrated communications, sensing and localization; HE GA 101139176	01/2024–12/2026	617 k€ / 2,933 k€	Fraunhofer/PPS project leadership and work-package contribution
ALLEGRO	Agile ultra-low-energy and secure networks; HE GA 101092766	01/2023–06/2026	1,310 k€ / 11,829 k€	Fraunhofer/PPS coordination, PI contribution and work-package leadership
ADOPTION	Advance co-packaged optics enabling high-efficiency cloud computing; HE GA 101070178	01/2023–06/2026	756 k€ / 6,364 k€	Fraunhofer/PPS technical contribution to co-packaged optics
E*****C	Industry	2023	95 k€	PPS industrial project contribution; confidential/anonymised
PROMETHEUS	Programmable integrated photonic neuromorphic and quantum networks; HE GA 101070195	09/2022–08/2026	532 k€ / 3,830 k€	Fraunhofer/PPS technical contribution
OCTAPUS more info	Optical circuit switched time-sensitive network architecture; HE GA 101070009	09/2022–02/2026	525 k€ / 5,883 k€	Fraunhofer/PPS technical contribution
GREEN ICT	Competence Center for sustainable ICT; BMBF	08/2022–01/2026	385 k€ / 32,000 k€	Fraunhofer IZM-WLSI project-management contribution
VE-SILHOUETTE	Heterogeneous photonic-electronic platform for trustworthy open-source processors; BMBF	05/2021–12/2025	350 k€ / 13,700 k€	Fraunhofer IZM-WLSI project-management contribution
R**Y	Industry	2021–2024	500 k€	PPS industrial project contribution; confidential/anonymised
P*****E	Industry	2021	72 k€	PPS industrial project contribution; confidential/anonymised
LZDV-III RoF	Radio over Fibre for IoT; Fraunhofer HPC Digital Transformation	2021	120 k€	PPS radio-over-fibre contribution
MINI-LIDAR	Miniaturized LIDAR for robotics; DLR	2020–2024	230 k€ / 4,550 k€	Fraunhofer IZM/PPS lidar packaging contribution
J**E	Industry	2020–2023	500 k€	PPS industrial project contribution; confidential/anonymised
O**L	Industry	2019–2023	500 k€	PPS industrial project contribution; confidential/anonymised
ACTPHAST 4R	Photonics deployment technology access; H2020 GA 825051	01/2019–12/2023	100 k€ / 6,128 k€	Fraunhofer IZM photonics-deployment contribution
MASSTART more info	Mass manufacturing of transceivers for Terabit/s era; H2020 GA 825109	01/2019–06/2023	1,460 k€ / 7,351 k€	Fraunhofer/PPS coordination, PI contribution and work-package leadership
APPLAUSE	Advanced packaging for photonics, optics and electronics; H2020 GA 826588	05/2019–11/2022	264 k€ / 33,739 k€	Fraunhofer IZM project-management and packaging contribution
LZDV-II Lidar	Lidar Packaging; Fraunhofer HPC Digital Transformation	2019–2020	250 k€	Fraunhofer IZM/PPS lidar packaging contribution
Pendeln	Polymer films with optical waveguides for PCB integration; BMWi	10/2018–03/2021	172 k€ / 344 k€	Historical polymer-waveguide/PCB integration contribution
5G-PHOS	5G integrated Fibre-Wireless networks; H2020 GA 761989	09/2017–08/2021	832 k€ / 9,621 k€	Fraunhofer/PPS technical and work-package contribution
LZDV-I SAVE	Photonics Enhanced Data Center; Fraunhofer HPC Digital Transformation	2017–2018	335 k€	PPS photonics-enhanced data-centre contribution
L3MATRIX	Large Scale Silicon Photonics Matrix; H2020 GA 688544	12/2015–05/2019	595 k€ / 3,836 k€	Fraunhofer/PPS coordination, PI contribution and work-package leadership
COMANDER	Converged Optical-Mobile Access Networks; FP7-IAPP GA 612257	10/2013–09/2017	508 k€ / 2,326 k€	Historical optical-wireless and FiWi contribution
PhoxTroT	Photonics for data-centre/HPC optical interconnects; FP7-ICT GA 318240	10/2012–05/2017	1,792 k€ / 12,314 k€	Fraunhofer/PPS coordination, PI contribution and work-package leadership
Tera-Kompaktdetektor	Ultrawideband compact detector for THz synchrotron radiation; BMWi	09/2012–05/2015	172 k€ / 344 k€	Historical THz detector and packaging-related contribution
ProWell	Ion-exchange modelling for graded-index optical components; DFG 196044101	2011–2015	165 k€	Historical glass/optical-component technology contribution
RAMPLAS	100 Gbps optical RAM on-chip; FP7-ICT FET GA 270773	09/2011–02/2015	250 k€ / 2,609 k€	Historical integrated optical memory/silicon-photonics contribution
N*T_1-6	Industry	2011–2013	200 k€	Industrial project contribution; confidential/anonymised
iPHOS	Integrated photonic transceivers for sub-THz wireless; FP7-ICT GA 257539	06/2010–11/2013	440 k€ / 4,475 k€	Historical RF-photonic packaging and integration contribution
PLATON	Plasmonic/silicon-photonic interconnects; FP7-ICT GA 249135	01/2010–06/2013	508 k€ / 3,403 k€	Fraunhofer/PPS packaging, heterogeneous-integration and work-package contribution
X**M_1-2	Industry	2010–2011	180 k€	Industrial project contribution; confidential/anonymised
HELIOS	Integrated photonic technologies; FP7-ICT GA 224312	2008–2012	227 k€ / 8,500 k€	Historical integrated-photonics contribution