



P2P-FSO |

Platform to Platform - Free Space Optical link

SELECTED PROJECTS EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME (EDIDP) 2020

CALL TITLE:	Innovative and future-oriented defence solutions
TOPIC TITLE:	N/A
DURATION OF THE PROJECT:	36 months
TYPE(S) OF ACTIVITIES:	Study; Design; Prototyping; Testing
TOTAL COST:	€ 2,578,051.21
MAXIMUM EU CONTRIBUTION:	€ 2,496,509.87

MEMBERS OF THE CONSORTIUM AND COUNTRY OF ESTABLISHMENT:

NAME OF THE ENTITY	COUNTRY
NEXVISION SAS (COORDINATOR)	France
HELLENIC INSTRUMENTS I.K.E.	Greece
LAMBDA X	Belgium
TWOOPTICS SYSTEMS DESIGN SL	Spain
VEDECOM TECH	France

SHORT DESCRIPTION OF THE PROJECT:

P2P-FSO will develop an innovative communication system to transmit information securely and at very high speed using laser light.

The project "Platform to Platform - Free Space Optical link" (P2P-FSO) aims to provide an innovative point-to-point tactical communication means between military platforms (which can be land or sea based) by transmitting the information through free space using laser beams. Such a system would be complementary to radio frequency based solutions, for which the frequency domains are often overcrowded and more vulnerable to jamming. This wireless and secured data link will be capable to share data between platforms at extremely high transfer rates under various environmental and weather conditions. An important focus of the project will be on developing a powerful computing unit and the algorithms needed to align and stabilise the transmitter and receiver during the exchange of the information.