



Ministero dell'Università e della Ricerca

Segretariato Generale
Direzione generale della ricerca

Allegato C

Cronoprogramma di attuazione													
Ambito di Attività	Descrizione Obiettivo Ambito di Attività	T0	mag-24 1	ott-24 6	apr-25 12	apr-26 24	apr-27 36	apr-28 48	TF	Costo Ambito di Attività (€)		Agevolazioni (€)	
Ricerca Fondamentale	Theoretical, numerical and experimental results about statistical properties of OAM and random fields, according to the patents; Results on the scalability of the transmission and receiver systems from optical to RF wavelengths; Study of coherent vs incoherent states. Requirements for satellite optical links. ;									330.000,00 €		330.000,00 €	
Ricerca Industriale	Study of technical solutions formultiplexing/ demultiplexing of OAM states; Validation of the optical DPSK and hybrid AM-OAM modulations. First realization of the optical neural network according to the patent; Space compliant optical devices. Realization of the devices for RF transmission between 3-10 km. Preliminary tests of RF transmission between 3-10 km. Development and starting the integration of flight instrumentation. Realization and validation of the RF devices for transmission between 30-100 km;									2.653.450,27 €		2.653.450,27 €	
Sviluppo Sperimentale	Acquisitions of equipment and preliminary laboratory tests for validating the optical interferometric detection according to the patents; Acquisitions and preliminary laboratory tests for validating the RF equipment according to the patent; Results of the statistical properties of random fields in view of enabling classification, recognition, selection of parallel digital signals.; Optimization of electro-optical interfaces between detection systems and neural networks.; Realization and validation of the prototype for the RF transmissions between 30-100 km;									1.030.000,00 €		1.030.000,00 €	
										4.013.450,27 €		4.013.450,27 €	
Cronoprogramma delle agevolazioni													
										Totale			
Cronoprogramma delle rendicontazioni										4.013.450,27 €			
di cui Ricerca Fondamentale										330.000,00 €			
di cui Ricerca Industriale										2.653.450,27 €			
di cui Sviluppo Sperimentale										1.030.000,00 €			
Piano delle erogazioni										401.345,03 €	1.239.055,24 €	690.000,00 €	1.050.000,00 €
										231.704,97 €	401.345,03 €	4.013.450,27 €	