

**CLUSTER 5 – CLIMATE, ENERGY AND MOBILITY**

Topic Reference	Title	Area	Type of Action	TRL	ME per project	Available Budget (M€)	# of projects expected to be funded	Deadline	NCPs			
<b>Destination 1 – Climate sciences and responses for the transformation towards climate neutrality</b>												
<a href="#">HORIZON-CLS-2021-D1-01-01</a>	Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies	Climate science	RIA	-	8	24	3	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-02</a>	Modelling the role of the circular economy for climate change mitigation	Climate science	RIA	-	5	15	3	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-03</a>	Maximising the impact and synergy of European climate change research and innovation	Climate science	CSA	-	4 – 5	9	2	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-04</a>	Enhanced integrated assessment in pursuit of global climate goals	Climate science	RIA	-	5	15	3	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-05</a>	Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options	Climate science	RIA	-	6 – 7	20	3	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-06</a>	Supporting and standardising climate services	Climate science	CSA	-	9	9	1	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-07</a>	Improved economic methods for decision-making on climate and environmental policies	Climate science	RIA	-	3	6	2	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-08</a>	Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits, pathways, trade-offs and co-benefits	Climate science	RIA	-	6 – 7	20	3	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D1-01-09</a>	The contribution of forest management to climate action	Climate science	RIA	-	6	18	3	14/09/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-01-01-two-stage</a>	Carbon Dioxide Removal (CDR) approaches	Climate science	RIA	-	7	21	3	10/02/2022 (1st) 27/09/2022 (2nd)	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-01-02-two-stage</a>	Socio-economic risks of climate change in Europe	Climate science	RIA	-	5	10	2	10/02/2022 (1st) 27/09/2022 (2nd)	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-01-03-two-stage</a>	Social science for land-use strategies in the context of climate change and biodiversity challenges	Climate science	RIA	-	6 – 7	20	3	10/02/2022 (1st) 27/09/2022 (2nd)	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-02-01</a>	Verification and reconciliation of estimates of climate forcers	Climate science	RIA	-	5	15	3	10/02/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-02-02</a>	Development of high-resolution Earth system models for global and regional climate change projections	Climate science	RIA	-	10	20	2	10/02/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-02-03</a>	Improvement of Integrated Assessment Models in support of climate policies	Climate science	RIA	-	5	15	3	10/02/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-02-04</a>	Supporting the formulation of adaptation strategies through improved climate predictions in Europe and beyond	Climate science	RIA	-	10	20	2	10/02/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D1-02-05</a>	Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support	Climate science	RIA	-	8 – 9	17	2	10/02/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<b>Destination 2 – Cross-sectoral solutions for the climate transition</b>												
<a href="#">HORIZON-CLS-2021-D2-01-01</a>	Sustainable processing, refining and recycling of raw materials (Batteries Partnership)	Batteries	RIA	4-5	6 – 7	21	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-02</a>	Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	Batteries	RIA	6+	6 – 8	24	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-03</a>	Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership)	Batteries	RIA	5	8 – 9	36	4	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-04</a>	Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership)	Batteries	RIA	5-6	5	20	4	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-05</a>	Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership)	Batteries	RIA	5-6	6 – 7	26	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-06</a>	Sustainable, safe and efficient recycling processes (Batteries Partnership)	Batteries	RIA	5-6	9 – 10	30	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-07</a>	Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership for accelerated disruptive technology exploration and uptake (Batteries Partnership)	Batteries	CSA	-	3	3	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-08</a>	Emerging technologies for a climate neutral Europe	Breakthrough technologies	RIA	4	2.5	20	8	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-09</a>	Methane cracking to usable hydrogen and carbon	Breakthrough technologies	RIA	5	2 – 3	15	2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-10</a>	Technologies for non- CO2 greenhouse gases removal	Breakthrough technologies	RIA	3	2 – 3		2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-11</a>	Direct atmospheric carbon capture and conversion	Breakthrough technologies	RIA	4-5	2 – 3		2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-12</a>	Fostering a just transition in Europe	Citizen engagement	RIA	-	3 – 4	10	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-13</a>	Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines	Citizen engagement	CSA	-	2 – 3	3	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-14</a>	Accelerating the climate transition in difficult contexts: transition super-labs (pilot)	Citizen engagement	CSA	-	2 – 3	2	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-15</a>	Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)	Citizen engagement	CSA	-	3.5	3.5	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D2-01-16</a>	Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT)	Communities and cities	COFUND	-	37	18.5	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-01</a>	Sustainable processing and refining of battery grade graphite (Batteries Partnership)	Batteries	IA	6-7	10	5	2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-02</a>	Interface and electron monitoring for the engineering of new and emerging battery technologies (Batteries Partnership)	Batteries	RIA	3-4	10	5	2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-03</a>	Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batteries Partnership)	Batteries	RIA	3-4	20	20	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-04</a>	Towards creating an integrated manufacturing value chain in Europe: from machinery development to plant and site integrated design (Batteries Partnership)	Batteries	IA	6/7	15	7 – 8	2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-05</a>	Next generation technologies for High-performance and safe-by-design battery systems for transport and mobile applications (Batteries Partnership)	Batteries	RIA	5	15	5	2	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-06</a>	Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells) (Batteries Partnership)	Batteries	RIA	2-4	15	5	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-07</a>	Digitalisation of battery testing, from cell to system level, including lifetime assessment (Batteries Partnership)	Batteries	RIA	5-6	15	5	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-08</a>	Coordination of large-scale initiative on future battery technologies (Batteries Partnership)	Batteries	CSA	-	3	3	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-09</a>	Physics and data-based battery management for optimised battery utilisation (Batteries Partnership)	Batteries	RIA	4	15	5	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-10</a>	Streamlined collection and reversed logistics, fully automated, safe and cost-efficient sorting, dismantling and second use before recycling (Batteries Partnership)	Batteries	RIA	5-7	15	5	3	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2022-D2-01-11</a>	CIVITAS 2030 – Coordination and support for EU funded urban mobility innovation	Communities and cities	CSA	-	5	4 – 5	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<b>Destination 3 – Sustainable, secure and competitive energy supply</b>												
<a href="#">HORIZON-CLS-2021-D3-01-01</a>	Establish the grounds for a common European energy data space	Energy systems, grids, storage	IA	5-7	8	32	4	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-01-02</a>	Laying down the basis for the demonstration of a Real Time Demonstrator of Multi-Vendor Multi-Terminal HVDC with Grid Forming Capability	Energy systems, grids, storage	CSA	-	1	1	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-01-03</a>	Interoperability community	Energy systems, grids, storage	CSA	-	5	5	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-01-04</a>	Clean Energy Transition	Energy - Cross-cutting	COFUND	-	70	70	1	19/10/2021	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-01</a>	Demonstration of wave energy devices to increase experience in real sea condition	Renewable energy	IA	-	15	15	1	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-02</a>	Sustainability and educational aspects for renewable energy and renewable fuel technologies	Renewable energy	CSA	-	2.5	10	4	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-03</a>	Market Uptake Measures of renewable energy systems	Renewable energy	CSA	-	2	10	5	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-04</a>	Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials	Renewable energy	RIA	5	5	20	4	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-05</a>	Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems	Energy systems, grids, storage	IA	6-8	9 – 10	30	3	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-06</a>	Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs)	Energy systems, grids, storage	IA	7-8	8	25	3	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-07</a>	Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy	Energy systems, grids, storage	IA	5-6	7 – 8	15	2	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-08</a>	Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions	Energy systems, grids, storage	RIA	5-6	7 – 8	15	2	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-09</a>	Demonstration of superconducting systems and elpipes	Energy systems, grids, storage	IA	8	15	15	1	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-10</a>	Demonstration of advanced Power Electronics for application in the energy sector	Energy systems, grids, storage	IA	5-6	5	10	2	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-11</a>	Reinforcing digitalisation related know how of local energy ecosystems	Energy systems, grids, storage	CSA	-	4	4	1	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	
<a href="#">HORIZON-CLS-2021-D3-02-12</a>	Integration of CCUS in hubs and clusters, including knowledge sharing activities	CCUS	CSA	-	2	2	1	05/01/2022	<a href="#">Cristiana Leandro</a>	<a href="#">Francisca Eiriz</a>	<a href="#">Luís Maia</a>	

HORIZON-CLS-2021-03-02-13	Cost reduction of CO2 capture (new or improved technologies)	CCUS	RIA	6	10-15	30	2	05/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-02-14	Support to the activities of the European Geological Services	Energy - Cross-cutting	CSA	-	20	20	1	05/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-02-15	Support to the activities of the ETIPs and technology areas of the SET Plan	Energy - Cross-cutting	CSA	-	1	9.8	10	05/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-01	AI-EU Water Energy Food Nexus	Renewable energy	RIA	4	2.5	5	2	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-02	Next generation of renewable energy technologies	Renewable energy	RIA	3-4	3	33	11	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-03	Hybrid catalytic conversion of renewable energy to carbon-neutral fuels	Renewable energy	RIA	3-4	3.3	10	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-04	Physics and aerodynamics of atmospheric flow of wind for power production	Renewable energy	RIA	5	6	18	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-05	Wind energy in the natural and social environment	Renewable energy	RIA	5	3	10	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-06	Novel approaches to concentrated solar power (CSP)	Renewable energy	RIA	4-5	3	9	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-07	Stable high performance Perovskite Photovoltaics	Renewable energy	RIA	5	5	15	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-08	Cost-effective micro-CHP and hybrid heating systems	Renewable energy	RIA	5	3-5	10	2	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-09	Carbon-negative sustainable biofuel production	Renewable energy	RIA	4-5	5	15	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-10	Innovative foundations, floating substructures and connection systems for floating PV and ocean energy devices	Renewable energy	RIA	4-5	3.5	10	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-11	Development of hydropower equipment for hidden hydropower	Renewable energy	RIA	5	3-5	10	2	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-12	Innovation on floating wind energy deployment optimized for deep waters and different sea basins (Mediterranean Sea, Black Sea, Baltic Sea, North-east Atlantic Ocean)	Renewable energy	IA	7	16	50	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-13	Demonstration pilot lines for alternative and innovative PV technologies (Novel c-Si tandem, thin film tandem, bifacial, CPV, etc.)	Renewable energy	IA	7	15	45	3	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-14	Demonstration of large-scale CHP technologies for a shift to the use of biogenic residues and wastes	Renewable energy	IA	7	10	10	1	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-15	Solutions for more sustainable geothermal energy	Renewable energy	RIA	5	5	10	2	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-03-03-16	Innovative biomethane production as an energy carrier and a fuel	Renewable energy	IA	6-7	10	20	2	23/02/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-01	Demonstration of cost-effective advanced biofuel technologies utilizing existing industrial plants	Renewable energy	IA	6-7	10	20	2	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-02	Demonstration of innovative materials, supply cycles, recycling technologies to increase the overall circularity of wind energy technology and to reduce the primary use of critical raw materials	Renewable energy	IA	6-7	13	40	3	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-03	Advanced manufacturing of Integrated PV	Renewable energy	IA	7	16	32	2	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-04	Demonstrate the use of high temperature geothermal reservoirs to provide energy storage for the energy system	Renewable energy	IA	7	20	20	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-05	Demonstration of innovative plug-and-play solutions for system management and renewables storage in off-grid applications	Renewable energy	IA	8	10	10	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-06	Novel Agro-Photovoltaic systems	Renewable energy	IA	7	5	10	2	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-07	Demonstration of innovative rotor, blades and control systems for tidal energy devices	Renewable energy	IA	7	10	10	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-08	Supporting the action of consumers in the energy market and guide them to act as prosumers, communities and other active forms of active participation in the energy activities	Energy systems, grids, storage	IA	6-8	5-6	18	3	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-09	Real Time Demonstrator of Multi-Vendor Multi-Terminal VSC-HVDC with Grid Forming Capability (in support of the offshore strategy)	Energy systems, grids, storage	IA	6-7	55	55	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-10	Interoperable solutions for flexibility services using distributed energy storage	Energy systems, grids, storage	IA	5-7	2-3	7	3	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-11	Demonstration of innovative forms of storage and their successful operation and integration into innovative energy systems and grid architectures	Energy systems, grids, storage	IA	6-7	7-8	30	4	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-12	Replicable solutions for a cross sector compliant energy ecosystem	Energy systems, grids, storage	IA	6-7	8-9	35	4	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-13	Energy system modelling, optimisation and planning tools	Energy systems, grids, storage	RIA	-	6	6	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-14	Thermal energy storage solutions	Energy systems, grids, storage	IA	6-7	7-8	30	4	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-01-15	Decarbonising industry with CCUS	CCUS	IA	7-8	29	58	2	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-01	Digital solutions for defining synergies in international renewable energy value chains	Renewable energy	RIA	5	3	9	3	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-02	AI-EU Energy System Modelling	Renewable energy	RIA	-	2.5	5	2	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-03	Innovative renewable energy carrier production for heating from renewable energies	Renewable energy	IA	7	10	10	1	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-04	Technological interfaces between solar fuel technologies and other renewables	Renewable energy	RIA	4	3-5	10	2	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-05	Renewable energy carriers from variable renewable electricity surplus and carbon emissions from energy consuming sectors	Renewable energy	IA	7	10	20	2	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-06	Direct renewable energy integration into process energy demands of the chemical industry	Renewable energy	RIA	4-5	3-5	10	2	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-07	Renewable energy incorporation in agriculture and forestry	Renewable energy	IA	6-7	7.5	15	2	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-02-08	Demonstration of complete value chains for advanced biofuel and non-biological renewable fuel production	Renewable energy	IA	6-7	10	20	2	27/10/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-01	Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations	Energy Supply	IA	6-7	5.5	16.5	3	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-02	Best international practice for scaling up sustainable biofuels	Energy Supply	RIA	4-5	3	9	3	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-03	Efficient and circular artificial photosynthesis	Energy Supply	RIA	5	3-5	10	2	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-04	Integrated wind farm control	Energy Supply	RIA	5	6	18	3	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-05	Novel Thin Film (TF) technologies targeting high efficiencies	Energy Supply	RIA	5	5	20	4	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-06	Efficient and low-emission technologies for industrial use of combustion and gasification systems from low-value biogenic residues and wastes	Energy Supply	RIA	5	3-5	10	2	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-07	Development of algal and renewable fuels of non-biological origin	Energy Supply	RIA	4-5	5	15	3	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-08	Development of digital solutions for existing hydropower operation and maintenance	Energy Supply	RIA	5	4-4.5	9	3	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-03-03-09	Recycling end of life PV modules	Energy Supply	IA	7	6-7	20	3	10/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
<b>Destination 4 - Efficient, sustainable and diverse energy use</b>											
HORIZON-CLS-2021-04-01-01	Advanced energy performance assessment and certification	Buildings	IA	6-7	3-5	10	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-01-02	Industrialisation of deep renovation workflows for energy-efficient buildings	Buildings	IA	8	5-8	16	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-01-03	Advanced data-driven monitoring of building stock energy performance	Buildings	IA	8	3-5	10	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-01-04	Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90-160°C	Industry	IA	7-8	8	16	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-01-05	Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles	Industry	IA	6-7	10-14	14	1	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-02-01	Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	Buildings	IA	6-7	5-7.5	15	2	25/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-02-02	Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People)	Buildings	IA	7	9-11	22	2	25/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-04-02-03	Strengthening European coordination and exchange for innovation uptake towards sustainability, quality, circularity and social inclusion in the built environment as a contribution to the new European Bauhaus (Built4People)	Buildings	CSA	-	1	1	1	25/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-01-01	Demand response in energy-efficient residential buildings	Buildings	IA	6-7	4-6	12	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-01-02	Renewable-intensive, energy positive homes	Buildings	IA	6-7	4-6	12	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-01-03	Smarter buildings for better energy performance	Buildings	IA	8	4-6	12	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-01-04	Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C	Industry	RIA	5	3-5	10	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-01-05	Development of high temperature thermal storage for industrial applications	Industry	RIA	4-5	3-4	8	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-02-01	Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)	Buildings	IA	6-7	5-7.5	15	2	24/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-02-02	Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)	Buildings	IA	6-7	5-7.5	15	2	24/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-02-03	Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage	Buildings	IA	5	4-5	20	4	24/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-02-04	Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)	Buildings	IA	7	6-9	18	2	24/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-04-02-05	More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)	Buildings	IA	6-7	6-9.5	18	2	24/01/2023	Cristiana Leandro	Francisca Eiriz	Luis Maia
<b>Destination 5 - Efficient and competitive solutions for mobility</b>											
HORIZON-CLS-2021-05-01-01	Nextgen vehicles	2ZERO	IA	7-8	10-11	45	3	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-05-01-02	Nextgen EV components	2ZERO	RIA	5-6	4-6	20	4	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-05-01-03	System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (2ZERO)	2ZERO	RIA	5-7	7-10	25	3	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-05-01-04	LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (2ZERO & Batteries Partnership)	2ZERO	CSA	-	4	4	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-05-01-05	Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050	Aviation	RIA	2-4	2-6	25	6	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-05-01-06	Next generation digital aircraft transformation in design, manufacturing, integration and maintenance	Aviation	RIA	2-4	3-6	29	5	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-05-01-07	Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels (ZEWTP Partnership)	Waterborne transport	IA	6-7	10	20	2	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia

HORIZON-CLS-2021-D5-01-08	Enabling the full integration of very high power fuel cells in ship design using co-generation and combined cycle solutions for increased efficiency with multiple fuels (ZEWTP Partnership)	Waterborne transport	RIA	5	15	15	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-09	CSA identifying waterborne sustainable fuel deployment scenarios (ZEWTP Partnership)	Waterborne transport	CSA	-	0.5	0.5	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-10	Innovative on-board energy saving solutions (ZEWTP Partnership)	Waterborne transport	RIA	5	5	20	4	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-11	Hyper powered vessel battery charging system (ZEWTP Partnership)	Waterborne transport	IA	6-7	7	14	2	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-12	Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels (ZEWTP Partnership)	Waterborne transport	IA	7	7	7	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-13	Digital Twin models to enable green ship operations (ZEWTP Partnership)	Waterborne transport	RIA	5	7	7	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-14	Proving the feasibility of a large clean ammonia marine engine (ZEWTP Partnership)	Waterborne transport	IA	6-7	10	10	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-15	Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	Transport - health and environment	IA	8	4-5	10	2	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-16	Assessment of noise and particle emissions of L category vehicles from real driving conditions	Transport - health and environment	RIA	5-6	4-5	5	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D5-01-17	Support for dissemination events in the field of Transport Research	Transport - cross-cutting	CSA	-	1.5	1.5	1	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-01	Exploring electrical energy storage systems and better optimising large battery electric power within fully battery electric and hybrid ships (ZEWTP Partnership)	Waterborne transport	IA	7	8	16	2	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-02	Innovative energy storage systems on-board vessels (ZEWTP Partnership)	Waterborne transport	RIA	5	5	15	3	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-03	Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWTP Partnership)	Waterborne transport	RIA	5	9	18	2	14/09/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-04	Transformation of the existing fleet towards greener operations through retrofitting (ZEWTP Partnership)	Waterborne transport	IA	7-8	5	25	5	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-05	Seamless safe logistics through an autonomous waterborne freight feeder loop service	Waterborne transport	RIA	5	15	15	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-06	Computational tools for shipbuilding	Waterborne transport	IA	7-8	7	70	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-07	Prevent smog episodes in Europe	Transport - health and environment	RIA	5	2.5-3	7	3	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-08	Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (ZZERO)	ZZERO	IA	7-8	15-20	58	3	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-09	Nextgen EV components	ZZERO	RIA	5-7	3-6	20	4	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-10	New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (ZZERO)	ZZERO	IA	7-8	20-25	25	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-11	Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World	ZZERO	CSA	-	2	2	1	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-12	Towards a silent and ultra-low local air pollution aircraft	Aviation	RIA	2-4	2-5	20	5	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-13	Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	Aviation	RIA	2-4	2-5	20	5	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D5-01-14	European Aviation Research Policy in support to EU policies and initiatives	Aviation	RIA	2-4	0.5-2.5	5	3	26/04/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia

Destination 6 – Safe, Resilient Transport and Smart Mobility services for passengers and goods											
HORIZON-CLS-2021-D6-01-01	More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)	CCAM	IA	6-7	6-8	15	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-02	Common approaches for the safety validation of CCAM systems (CCAM Partnership)	CCAM	RIA	5	12-15	15	1	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-03	Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)	CCAM	IA	6-7	7-9	18	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-04	Cyber secure and resilient CCAM (CCAM Partnership)	CCAM	RIA	5	5-6	12	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-05	Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	CCAM	RIA	-	3-4	8	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-06	Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)	CCAM	RIA	-	5-6	6	1	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-07	More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport	Multimodal transport, logistics, infrastructure	IA	7-8	7-8	15	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-08	New delivery methods and business/operating models to green the last mile and optimise road transport	Multimodal transport, logistics, infrastructure	IA	-	44415	15	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-09	Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways	Multimodal transport, logistics, infrastructure	IA	7	7.5	23	3	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-10	Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	Safety and resilience	RIA	5-6	3.5-4	12	3	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-11	Radical improvement of road safety in low and medium income countries in Africa	Safety and resilience	RIA	5-6	4	8	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-12	Controlling infection on large passenger ships	Safety and resilience	RIA	5	3-5	8	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2021-D6-01-13	Safe automation and human factors in aviation – intelligent integration and assistance	Safety and resilience	IA	6	4-8	12	2	19/10/2021	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-01	European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)	CCAM	IA	7	20-25	50	2	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-02	Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	CCAM	RIA	5	6-8	8	1	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-03	Human behavioural model to assess the performance of CCAM solutions compared to human driven vehicles (CCAM Partnership)	CCAM	RIA	4	7-8	8	1	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-04	Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)	CCAM	IA	6-7	4-5	10	2	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-05	Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	CCAM	RIA	5	5-5	12	2	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-06	Predictive safety assessment framework and safer urban environment for vulnerable road users	Safety and resilience	RIA	5-6	4-4.33	13	3	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-07	More resilient aircraft and increased survivability	Safety and resilience	IA	6	4-8	9	1	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-01-08	safer navigation and tackling container ship fires	Safety and resilience	IA	7	3.5-6	12	2	12/01/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-01	Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	Multimodal transport, logistics, infrastructure	IA	6-7	7-8	15	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-02	Urban logistics and planning	Multimodal transport, logistics, infrastructure	IA	-	7-8	15	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-03	Smart enforcement for resilient, sustainable and more efficient transport operations	Multimodal transport, logistics, infrastructure	RIA	-	4	8	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-04	Accelerating the deployment of new and shared mobility services for the next decade	Multimodal transport, logistics, infrastructure	IA	7-8	8-10	20	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-05	Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	Multimodal transport, logistics, infrastructure	RIA	5-6	4-5	15	3	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-06	Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure	Multimodal transport, logistics, infrastructure	IA	7	5	10	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia
HORIZON-CLS-2022-D6-02-07	New concepts and approaches for resilient and green freight transport and logistics networks against disruptive events (including pandemics)	Multimodal transport, logistics, infrastructure	RIA	-	4	8	2	06/09/2022	Cristiana Leandro	Francisca Eiriz	Luis Maia