

Inteligência Artificial – Horizonte Europa

Compêndio de todos os Clusters – Tópicos 2021 e 2022

Referência tópico	Título	Tipo de projeto	M€ por projeto	Orçamento disponível (M€)
Health				
HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage	Trustworthy artificial intelligence (AI) tools to predict the risk of chronic non-communicable diseases and/or their progression	RIA	7	50
HORIZON-HLTH-2021-ENVHLTH-02-03	Health impacts of climate change, costs and benefits of action and inaction	RIA	10	60
HORIZON-HLTH-2021-DISEASE-04-02	Building a European innovation platform for the repurposing of medicinal products	RIA	25	50
HORIZON-HLTH-2021-DISEASE-04-04	Clinical validation of artificial intelligence (AI) solutions for treatment and care	RIA	6	60
HORIZON-HLTH-2022-DISEASE-06-02-two-stage	Pre-clinical development of the next generation of immunotherapies for diseases or disorders with unmet medical needs	RIA	6	60
HORIZON-HLTH-2022-DISEASE-06-04-two-stage	Development of new effective therapies for rare diseases	RIA	8	60
HORIZON-HLTH-2021-STAYHLTH-01-02	Towards a molecular and neurobiological understanding of mental health and mental illness for the benefit of citizens and patients	RIA	10	60
HORIZON-HLTH-2022-STAYHLTH-01-01-two-stage	Boosting mental health in Europe in times of change	RIA	7	50
HORIZON-HLTH-2022-DISEASE-07-03	Non-communicable diseases risk reduction in adolescence and youth (Global Alliance for Chronic Diseases - GACD)	RIA	3	25
HORIZON-HLTH-2021-CARE-05-02	Data-driven decision-support tools for better health care delivery and policy-making with a focus on cancer	RIA	10	40
HORIZON-HLTH-2022-IND-13-01	Enhancing cybersecurity of connected medical devices	RIA	6	20
HORIZON-HLTH-2022-IND-13-02	Scaling up multi-party computation, data anonymisation techniques, and synthetic data generation	RIA	7	30
HORIZON-HLTH-2022-IND-13-05	Setting up a European Electronic Health Record Exchange Format (EEHRxF) Ecosystem	CSA	2	2

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Culture, creativity and inclusive society				
HORIZON-CL2-2022-DEMOCRACY-01-01	Artificial intelligence, big data and democracy	RIA	2-3	9
HORIZON-CL2-2021-HERITAGE-01-02	New ways of participatory management and sustainable financing of museums and other cultural institutions	RIA	2-3	9
HORIZON-CL2-2021-HERITAGE-01-04	Preserving and enhancing cultural heritage with advanced digital technologies	RIA	3.5-4	12
HORIZON-CL2-2021-TRANSFORMATIONS-01-05	Integration of emerging new technologies into education and training	RIA	2-3	9

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Civil Security for Society				
HORIZON-CL3-2021-FCT-01-01	Terrorism and other forms of serious crime countered using travel intelligence	IA	5	16
HORIZON-CL3-2021-FCT-01-10	Fight against firearms trafficking	IA	5	10
HORIZON-CL3-2022-FCT-01-01	Improved crime scene investigations related to transfer, persistence and background abundance	IA	7	7
HORIZON-CL3-2022-INFRA-01-02	Autonomous systems used for infrastructure protection	IA	6	6
HORIZON-CL3-2021-CS-01-03	AI for cybersecurity reinforcement	RIA	3-4	11
HORIZON-CL3-2021-DRS-01-02	Integrated Disaster Risk Reduction for extreme climate events: from early warning systems to long term adaptation and resilience building	IA	6	6
HORIZON-CL3-2021-DRS-01-03	Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections	RIA	5	5
HORIZON-CL3-2022-DRS-01-06	Improved disaster risk pricing assessment	IA	5	10

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Digital, Industry and Space				
HORIZON-CL4-2021-TWIN-TRANSITION-01-01	AI enhanced robotics systems for smart manufacturing (IA)	IA	8-10	28
HORIZON-CL4-2021-TWIN-TRANSITION-01-02	Zero-defect manufacturing towards zero-waste (IA)	IA	8-10	27
HORIZON-CL4-2021-TWIN-TRANSITION-01-07	Artificial Intelligence for sustainable, agile manufacturing (IA)	IA	4-6	18
HORIZON-CL4-2021-TWIN-TRANSITION-01-08	Data-driven Distributed Industrial Environments (IA)	IA	4-8	24
HORIZON-CL4-2021-TWIN-TRANSITION-01-10	Digital permits and compliance checks for buildings and infrastructure (IA)	IA	5	15
HORIZON-CL4-2021-TWIN-TRANSITION-01-21	Design and optimisation of energy flexible industrial processes (IA)	IA	12-18	39
HORIZON-CL4-2022-TWIN-TRANSITION-01-01	Rapid reconfigurable production process chains (IA)	IA	8-10	27.5
HORIZON-CL4-2022-TWIN-TRANSITION-01-04	Intelligent work piece handling in a full production line	RIA	4-6	21.5
HORIZON-CL4-2022-TWIN-TRANSITION-01-06	ICT Innovation for Manufacturing Sustainability in SMEs (I4MS2) (IA)	IA	4-8	30
HORIZON-CL4-2021-RESILIENCE-01-12	Safe- and sustainable-by-design metallic coatings and engineered surfaces (RIA)	RIA	4-5	19
HORIZON-CL4-2021-RESILIENCE-01-17	Advanced materials for hydrogen storage (RIA)	RIA	4-5	21
HORIZON-CL4-2021-RESILIENCE-01-25	Biomaterials database for Health Applications (CSA)	CSA	7-10	6
HORIZON-CL4-2022-RESILIENCE-01-06	Sustainable and innovative mine of the future (IA)	IA	12	36
HORIZON-CL4-2022-RESILIENCE-01-19	Advanced materials modelling and characterisation (RIA)	RIA	4-6	18

HORIZON-CL4-2022-RESILIENCE-01-25	Optimised Industrial Systems and Lines through digitalisation (IA)	IA	4-5	15
HORIZON-CL4-2021-DATA-01-01	Technologies and solutions for compliance, privacy preservation, green and responsible data operations (RIA)	RIA	8-11	52
HORIZON-CL4-2021-DATA-01-03	Technologies for data management (IA)	IA	5	30
HORIZON-CL4-2021-DATA-01-05	Future European platforms for the Edge: Meta Operating Systems (RIA)	RIA	8-12	54
HORIZON-CL4-2021-DATA-01-07	Coordination and Support of the 'Cloud-Edge-IoT' domain (CSA)	CSA	1.5	3
HORIZON-CL4-2022-DATA-01-01	Methods for exploiting data and knowledge for extremely precise outcomes (analysis, prediction, decision support), reducing complexity and presenting insights in understandable way (RIA)	RIA	8-12	33
HORIZON-CL4-2022-DATA-01-05	Extreme data mining, aggregation and analytics technologies and solutions (RIA)	RIA	5	30
HORIZON-CL4-2022-DATA-01-02	Cognitive Cloud: AI-enabled computing continuum from Cloud to Edge (RIA)	RIA	4-6	50
HORIZON-CL4-2021-DIGITAL-EMERGING-01-01	Ultra-low-power, secure processors for edge computing (RIA)	RIA	8-10	26
HORIZON-CL4-2021-DIGITAL-EMERGING-01-09	AI, Data and Robotics for the Green Deal (IA)	IA	3-5	27
HORIZON-CL4-2021-DIGITAL-EMERGING-01-10	AI, Data and Robotics at work (IA)	IA	3-5	22
HORIZON-CL4-2021-DIGITAL-EMERGING-01-11	Pushing the limit of robotics cognition (RIA)	RIA	5	44.5
HORIZON-CL4-2021-DIGITAL-EMERGING-01-12	European Network of Excellence Centres in Robotics (RIA)	RIA	11.3	11.5

HORIZON-CL4-2021-DIGITAL-EMERGING-01-21	Next generation quantum sensing technologies (RIA)	RIA	3-4	13.5
HORIZON-CL4-2021-DIGITAL-EMERGING-01-27	Development of technologies/devices for bio-intelligent manufacturing (RIA)	RIA	5-7	22.5
HORIZON-CL4-2022-DIGITAL-EMERGING-01-05	AI, Data and Robotics for Industry optimisation (including production and services) (IA)	IA	3-5	19
HORIZON-CL4-2022-DIGITAL-EMERGING-01-06	Pushing the limit of physical intelligence and performance (RIA)	RIA	4	28.5
HORIZON-CL4-2022-DIGITAL-EMERGING-01-07	Increased robotics capabilities demonstrated in key sectors (IA)	IA	6	36
HORIZON-CL4-2022-DIGITAL-EMERGING-01-30	European Enabling technologies for Beyond 5G/6G RAN disaggregated architectures (RIA)	RIA	13	13
HORIZON-CL4-2021-HUMAN-01-01	Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (RIA)	RIA	4	36
HORIZON-CL4-2021-HUMAN-01-02	European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics (CSA)	CSA	4-9	13
HORIZON-CL4-2021-HUMAN-01-03	European Network of AI Excellence Centres: Pillars of the European AI lighthouse (RIA)	RIA	9	9
HORIZON-CL4-2021-HUMAN-01-05	Trustworthy open search and discovery (RIA)	RIA	8.5	17
HORIZON-CL4-2021-HUMAN-01-13	eXtended Reality Modelling (RIA)	RIA	4.8	14.5
HORIZON-CL4-2021-HUMAN-01-21	Art-driven use experiments and design (RIA)	RIA	2.8	8.5
HORIZON-CL4-2021-HUMAN-01-24	Tackling gender, race and other biases in AI (RIA)	RIA	3.5	10

HORIZON-CL4-2021-HUMAN-01-26	Workforce skills for industry 5.0 (RIA)	RIA	5	5
HORIZON-CL4-2021-HUMAN-01-27	AI to fight disinformation (RIA)	RIA	6.5	13
HORIZON-CL4-2022-HUMAN-01-01	AI for human empowerment (RIA)	RIA	4	16
HORIZON-CL4-2022-HUMAN-01-02	European Network of AI Excellence Centres: Expanding the European AI lighthouse (RIA)	RIA	11.5	34.5

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Climate, Energy and Mobility				
HORIZON-CL5-2022-D1-02-02	Development of high-resolution Earth system models for global and regional climate change projections	RIA	5	15
HORIZON-CL5-2021-D3-02-11	Reinforcing digitalisation related know how of local energy ecosystems	CSA	4	4
HORIZON-CL5-2022-D3-01-12	Replicable solutions for a cross sector compliant energy ecosystem	IA	8-9	35
HORIZON-CL5-2022-D3-02-01	Digital solutions for defining synergies in international renewable energy value chains	RIA	3	3
HORIZON-CL5-2022-D3-03-08	Development of digital solutions for existing hydropower operation and maintenance	RIA	3-4.5	9
HORIZON-CL5-2022-D5-01-13	Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	RIA	2-5	20
HORIZON-CL5-2021-D6-01-13	Safe automation and human factors in aviation – intelligent integration and assistance	IA	4-8	12
HORIZON-CL5-2022-D6-01-05	Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	RIA	5-6	12
HORIZON-CL5-2022-D6-02-05	Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	RIA	4-5	15

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Food, Bioeconomy, Natural Resources, Agriculture and Environment				
HORIZON-CL6-2021-BIODIV-01-18	Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity	RIA	2-3	5
HORIZON-CL6-2021-FARM2FORK-01-03	Digitalisation as an enabler of agroecological farming systems	CSA	2	2
HORIZON-CL6-2021-FARM2FORK-01-06	Vaccines and diagnostics for priority animal diseases	IA	6	12
HORIZON-CL6-2021-FARM2FORK-01-11	Digital transition supporting inspection and control for sustainable fisheries	IA	5	10
HORIZON-CL6-2021-FARM2FORK-01-17	Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets	IA	11	11
HORIZON-CL6-2021-ZEROPOLLUTION-01-02	Optimisation of nutrient budget in agriculture	RIA	7	7
HORIZON-CL6-2021-CLIMATE-01-01	Improved understanding, observation and monitoring of water resources availability	RIA	3-5	10
HORIZON-CL6-2021-GOVERNANCE-01-16	Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level	IA	13	13
HORIZON-CL6-2021-GOVERNANCE-01-17	Common European Green Deal data space to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions	IA	3-5	10
HORIZON-CL6-2021-GOVERNANCE-01-22	Assessing the impacts of digital technologies in agriculture – cost, benefits and potential for sustainability gains	RIA	7.5	15
HORIZON-CL6-2022-BIODIV-01-01	Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems	RIA	4-14	14
HORIZON-CL6-2022-FARM2FORK-01-04	Innovative solutions to prevent adulteration of food bearing quality labels: focus on organic food and geographical indications	IA	4	8
HORIZON-CL6-2022-FARM2FORK-01-10	Integrated surveillance system to prevent and reduce diet-related non communicable diseases (NCDs)	RIA	11	11
HORIZON-CL6-2022-FARM2FORK-01-11	Effective systems for authenticity and traceability in the food system	RIA	10	10
HORIZON-CL6-2022-COMMUNITIES-01-05	Assessing the socio-politics of nature-based solutions for more inclusive and resilient communities	RIA	6	12
HORIZON-CL6-2022-CIRCBIO-02-05-two-stage	Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources	RIA	6	12

Número Total de Tópicos HE para
Inteligência Artificial

94

Total de Orçamento Disponível no HE
para Inteligência Artificial

2001 M€

RIA - Research and Innovation Action (financiamento: 100%); Action primarily consisting of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment.

IA – Innovation Action (70% dos custos diretos elegíveis, com exceção das entidades sem fins lucrativos que podem ser reembolsadas a 100%); Action primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

CSA - Coordination and Support Action (financiamento: 100%); Actions consisting primarily of accompanying measures such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure and may also include complementary activities of strategic planning, networking and coordination between programmes in different countries.