호라이즌 유럽 필라2 워크프로그램 2025 주요 내용

<'25.5.15, 한-EU연구협력센터>

※ 워크프로그램 2025 다운로드 링크 (클릭)

※ 참고: Horizon Europe 사업 유형

- **RIA(연구혁신과제)**: 주로 낮은 기술성숙도(TRL2-6)을 다루는 연구 프로젝트
- **IA(혁신과제)**: 높은 TRL(6-8)을 다루며, RIA 펀딩 비율이 100%인데 반해 IA의 경우 영리 법인에 한해 70% 펀딩 비율을 적용(총 과제 비용의 70%만 지급)
- **CSA(조정지원과제)**: 직접적인 연구 과제는 아니지만 인식 제고, 소통, 네트워킹, 정책 대화, 상호 학습과 같은 수반 과제를 지칭

※ 참고: Co-funded European Partnership

- 집행위, 국가연구자금지원기관, 공공당국을 중심으로 하는 공동 자금 지원 파트너십으로 EU는 동 파트너십 예산의 30%~70%를 지원
- 각 파트너십은 자체 공고를 통해 연구 과제를 지원하며, 각국의 연구기관은 자국의 연구자금지원기관이 파트너십에 참여하는 경우에 연구비를 신청할 수 있음 (제3국 기관은 일반적으로 자체 연구비 조달을 통해 과제에 참여 가능)

※ 참고: two-stage application procedure

- 2단계로 진행되는 신청절차에서는 1단계에서 컨셉 노트(concept note)를 제출하고, 통과시 2단계에서 최종 제안서(full project proposal)를 제출하게 됨

□ 워크프로그램 2025 주요 내용

○ 워크프로그램은 호라이즌 유럽을 통해 지원되는 모든 연구혁신 사업에 대한 정보와 공고 시기를 제시

- EU 회원국과 호라이즌 유럽 준회원국은 해당 워크프로그램 2025에 따라 72억 유로 이상의 연구비를 투자할 예정

- 특히, 워크프로그램은 전략계획 2025-2027에 따라 수립된 세 가지 핵심 전략적방향성(KSO)에 기여할 계획

※ ①녹색 전환, ②디지털 전환, ③회복탄력적이고, 경쟁력있으며, 포용적이고, 민주적인 유럽

○ 워크프로그램 목록

- General introduction
- Research infrastructures
- Cluster 1 'Health'
- Cluster 2 'Culture, creativity and inclusive society'
- Cluster 3 'Civil Security for Society'
- Cluster 4 'Digital, Industry and Space'
- Cluster 5 'Climate, Energy and Mobility'
- Cluster 6 'Food, Bioeconomy, Natural Resources, Agriculture and Environment'
- European innovation ecosystems
- Widening participation and strengthening the European Research Area
- EU Missions
- New European Bauhaus Facility
- General Annexes for 2025

- "General Annexes"는 적격성 규칙, 신청서 제출 방법, 선정 평가 방법 등을 설명

<General Annexes 주요 내용>
1. Admissibility
2. Eligibility
3. Financial and operational capacity and exlcusion
4. Award cireteria
5. Documents
6. Procedure
7. Legal and financial set-up of the grant agreements
8. Specific conditions

필라2 클러스터

구분	클러스터 명	연구 주제 수	지원 과제 수	2025년도 총 예산 (백만€)
클러스터1	보건 (Health)	21	83	923.00
클러스터2	문화, 창의성 및 포용적 사회 (Culture, Creativity and Inclusive Society)	32	84	357.30
클러스터3	사회를 위한 민간 안보 (Civil security for Society)	24	61	246.55
클러스터4	디지털, 우주, 산업 (Digital, Space and Industry)	82	173	1,208.60
클러스터5	기후, 에너지, 모빌리티 (Climate, Energy and Mobility)	86	177	1,142.60
클러스터6	식량, 바이오경제, 천연자원, 농업, 환경 (Food, Bioeconomy, Natural Resources, Agriculture and Environment)	82	143	948.90
총 계		327	721	4,826.95 (약 7.6조 원)

※ 해당 표에 포함된 '총 예산'은 일반적인 공고(Call) 예산만을 포함

필라2 도달목표(Destination)

클러스터	도달목표	약어 및 설명	2025년도 과제 수	총 예산 (백만€)
1	Staying Healthy in a rapidly changing society	STAYHLTH 건강 유지	5	40.00
1	Living and working in a health-promoting environment	ENVHLTH 건강에 대한 환경 영향	11	80.00
1	Tackling diseases and reducing disease burden	DISEASE 질병 퇴치	33	459.00
1	Ensuring equal access to innovative, sustainable, and high-quality healthcare	CARE 헬스케어	2	40.00
1	Devloping and using new tools, technologies and digital solutions for a healthy society	TOOL 의료도구/기술/솔루션	21	220.00
1	Maintaining an innovative, sustainable, and competitive EU health Industry	IND EU보건산업	11	84.00
2	Innovative Research on Democracy and Governance	DEMOCRACY 민주주의 및 거버넌스	27	94.00
2	Innovative Research on European Cultural Heritage and Cultural and Creative Industires	HERITAGE 유럽문화유산 및 문화창작산업	26	154.50
2	Innovative Research on Social and Economic Transformations	TRANSFO 사회·경제 변혁	31	108.80
3	Better Protect the EU and its citizens against Crime and Terrorism	FCT 범죄 및 테러 예방	13	43.50
3	Effective management of EU external borders	BM EU 국경 관리	9	28.50
3	Resilient Infrastructure	INFRA 인프라 회복탄력성	5	22.00
3	Increased Cybersecurity	CS 사이버보안	16	90.55

클러 스터	도달목표	약어 및 설명	2025년도 과제 수	총 예산 (백만€)
3	Disaster-Resilient Society for Europe	DRS 재난 회복탄력적인 사회	10	41.00
3	Strengthened Security Research and Innovation	SSRI 강화된 안보 연구혁신	8	21.50
4	Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains	TWIN TRANSTION 첨단 제조, 청정 가공 등	48	338.00
4	Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials	MATERIALS 원자재, 첨단소재 등	36	293.00
4	Developing an agile and secure single market and infrastructure for data-services and trustworthy artificial intelligence services	DATA 데이터, 인공지능 등	18	182.10
4	Achieving open strategic autonomy in digital and emerging enabling technologies	DIGITAL- EMERGING 양자 기술, HPC, AI 등	29	271.00
4	Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data	SPACE 우주, 지구관측, 위성 등	30	139.00
4	Digital and industrial technologies driving human-centric innovation	HUMAN 가상세계 등	37	107.00
5	Climate sciences and responses for the transformation towards climate neutrality	기후과학, 기후대응, 기후중립	15	101.50
5	Cross-sectoral solutions for the climate transition	기후전환 솔루션	35	251.50
5	Sustainable, secure and competitive energy supply	에너지 공급	61	407.00

클러 스터	도달목표	약어 및 설명	2025년도 과제 수	총 예산 (백만€)
5	Efficient, sustainable and inclusive energy use	에너지 사용	17	84.00
5	Clean and competitive solutions for all transport modes	운송 솔루션	25	162.60
5	Safe, resilient transport and smart mobility services for passengers and goods	운송 및 스마트 모빌리티 서비스	24	136.00
6	Biodiversity and ecosystem services	BIODIV 생물다양성	24	175
6	Fair, healthy and environment-friendly food systems from primary production to consumption	FARM2FORK 식품 시스템	37	295
6	Circular economy and bioeconomy sectors	CIRCBIO 순환경제 및 바이오경제	29	150
6	Clean environment and zero pollution	ZEROPOLLUTION 청정 환경 및 무공해	12	68
6	Land, ocean and water for climate action	CLIMATE 기후 (육지, 해양, 수질)	13	94.5
6	Resilient, inclusive, healthy and green rural, coastal and urban communities	COMMUNITIES 지역 커뮤니티	6	37
6	Innovative governance, environmental observations and digital solutions in support of the Green Deal	GOVERNANCE 거버넌스, 환경 관측 및 디지털 솔루션	22	129.4

클러스터별 예산, 연구 주제 및 공고 예정일

클러스터 1 – Health Cluster

① 도달목표(Destinations)별 연구주제수/과제수/예산

구분	도달목표	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Staying Healthy in a rapidly changing society (STAYHLTH) 건강 유지	1	5	40
2	Living and working in a health-promoting environment (ENVHLTH) 건강에 대한 환경 영향	2	11	80
3	Tackling diseases and reducing disease burden (DISEASE) 질병 퇴치	10	33	459
4	Ensuring equal access to innovative, sustainable, and high-quality healthcare (CARE) 헬스케어	1	2	40
5	Devloping and using new tools, technologies and digital solutions for a healthy society (TOOL) 의료도구/기술/솔루션	4	21	220
6	Maintaining an innovative, sustainable, and competitive EU health Industry (IND) EU보건산업	3	11	84
총계		21	83	923.00

② 2025년도 공고(Call) 예산 및 예정일

공고번호	도달목표	신청 기간	예산(백만€)
Horizon-HLTH-2025-01	• DISEASE • CARE • TOOL • IND	5.22~9.16	486.00
Horizon-HLTH-2025-02	• DISEASE(COFUND)	5.13~6.3	133.50
Horizon-HLTH-2025-03 -two-stage	• STAYHLTH • ENVHLTH • DISEASE • IND	5.22~9.16	210.00
총 계			829.50

클러스터 2 – Culture, Creativity and Inclusive Society

① 도달목표(Destinations)별 연구주제수/과제수/예산

구분	도달목표 (관련 분야)	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Innovative Research on Democracy and Governance (DEMOCRACY) 민주주의 및 거버넌스	12	27	94.00
2	Innovative Research on European Cultural Heritage and Cultural and Creative Industires (HERITAGE) 유럽문화유산 및 문화창작산업	9	26	154.50
3	Innovative Research on Social and Economic Transformations (TRANSFO) 사회·경제 변혁	11	31	108.80
총계		32	84	357.30

② 2025년도 공고(Call) 예산 및 예정일

공고번호	도달목표	신청 기간	예산(백만€)
HORIZON-CL2-2025-01	• DEMOCRACY • HERITAGE • TRANSFO	5.15~9.16	275.10
HORIZON-CL2-2025-02 -two-stage	• HERITAGE • TRANSFO	5.15-9.16	22.20
HORIZON-CL2-2025-03	• HERITAGE	5.15-9.16	60.00
총 계			357.30

클러스터 3 - Civil security for Society

① 도달목표(Destinations)별 연구주제수/과제수/예산

구분	도달목표 (관련 분야)	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Better Protect the EU and its citizens against Crime and Terrorism (FCT) **범죄 및 테러 예방**	3	13	43.50
2	Effective management of EU external borders (BM) **EU 국경 관리**	3	9	28.00
3	Resilient Infrastructure (INFRA) **인프라 회복탄력성**	2	5	22.00
4	Increased Cybersecurity (CS) **사이버보안**	6	16	90.55
5	Disaster-Resilient Society for Europe (DRS) **재난 회복탄력적인 사회**	4	10	41.00
6	Strengthened Security Research and Innovation (SSRI) **강화된 안보 연구혁신**	6	8	21.50
총계		24	61	246.55

② 2025년도 공고(Call) 예산 및 예정일

공고번호	도달목표	신청 기간	예산(백만€)
Horizon-CL3-2025-01	• FCT • BM • INFRA • DRS • SSRI	6.12~11.12	156.00
Horizon-CL3-2025-02	• CS	6-12~11.12	90.55
총 계			246.55

클러스터 4 - Digital, Space, and Industry

① 도달목표(Destinations)별 연구주제수/과제수/예산

구분	도달목표 (관련 분야)	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Achieving global leadership in climate-neutral, circular and digitised industrial and digital value chains (TWIN-TRANSITION) 첨단 제조, 청정 가공 등	14	48	338.00
2	Achieving technological leadership for Europe's open strategic autonomy in raw materials, chemicals and innovative materials (MATERIALS) 원자재, 첨단소재 등	13	36	293.00
3	Developing an agile and secure single market and infrastructure for data-services and trustworthy artificial intelligence services (DATA) 데이터, 인공지능 등	8	18	182.10
4	Achieving open strategic autonomy in digital and emerging enabling technologies (DIGITAL-EMERGING) 양자 기술, HPC, AI 등	13	29	271.00
5	Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructure, Services, Applications and Data (SPACE) 우주, 지구관측, 위성 등	20	30	139.00
6	Digital and industrial technologies driving human-centric innovation (HUMAN) 가상세계 등	14	37	107.00
총계		82	198	1,330.10

② 2025년도 공고(Call) 예산 및 예정일

공고번호	도달목표	신청 기간	예산(백만€)
Horizon-CL4-2025-01	1, 2, 4, 6	5.22~9.23	494.00
Horizon-CL4-2025-02	5	5.22~9.25	139.00
Horizon-CL4-2025-03	2, 3, 4, 6	6.10~10.2	404.10
Horizon-CL4-2025-04	3, 4, 6	6.10~10.2	132.00
Horizon-CL4-2025-05-two stage	1, 2	5.22~9.23	161.00
총 계			1,330.10

클러스터 5 – Climate, Energy and Mobility

① 도달목표(Destinations)별 연구주제수/과제수/예산

구분	도달목표 (관련 분야)	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Climate sciences and responses for the transformation towards climate neutrality 기후과학, 기후대응, 기후중립	7	15	101.50
2	Cross-sectoral solutions for the climate transition 기후전환 솔루션	12	35	251.50
3	Sustainable, secure and competitive energy supply 에너지 공급	27	61	407.00
4	Efficient, sustainable and inclusive energy use 에너지 사용	6	17	84.00
5	Clean and competitive solutions for all transport modes 운송 솔루션	19	25	162.60
6	Safe, resilient transport and smart mobility services for passengers and goods 운송 및 스마트 모빌리티 서비스	15	24	136.00
총계		86	177	1,142.60

② 2025년도 공고(Call) 예산 및 예정일

공고번호	신청 기간(1단계)	예산(백만€)
HORIZON-CL5-2025-01-Two-Stage	5.6~9.2	24.00
HORIZON-CL5-2025-02	5.6~9.2	274.00
HORIZON-CL5-2025-03-Two-Stage	5.6~9.4	7.00
HORIZON-CL5-2025-04	5.6~9.4	174.10
HORIZON-CL5-2025-05-Two-Stage	5.6~9.4	18.00
HORIZON-CL5-2025-06	5.6~9.24	139.50
HORIZON-CL5-2026-01	9.16~1.20	188.00
HORIZON-CL5-2026-02	9.16~2.17	318.00
총 계		1,142.60

클러스터 6 – Food, Bioeconomy, Natural Resources, Agriculture and Environment

① 도달목표(Destinations)별 연구주제수/과제수/예산

구분	도달목표 (관련 분야)	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Biodiversity and ecosystem services (BIODIV) 생물다양성	12	24	175.00
2	Fair, healthy and environment-friendly food systems from primary production to consumption (FARM2FORK) 식품 시스템	22	37	295.00
3	Circular economy and bioeconomy sectors (CIRCBIO) 순환경제 및 바이오경제	16	29	150.00
4	Clean environment and zero pollution (ZEROPOLLUTION) 청정 환경 및 무공해	8	12	68.00
5	Land, ocean and water for climate action (CLIMATE) 기후 – 육지, 해양, 수질	6	13	94.50
6	Resilient, inclusive, healthy and green rural, coastal and urban communities (COMMUNITIES) 지역 커뮤니티	4	6	37.00
7	Innovative governance, environmental observations and digital solutions in support of the Green Deal (GOVERNANCE) 거버넌스, 환경 관측 및 디지털 솔루션	14	22	129.40
총계		82	143	948.90

② 2025년도 공고(Call) 예산 및 예정일

공고번호	도달목표	신청 기간	예산(백만€)
Horizon-CL6-2025-01	• BIODIV • CIRCBIO • ZEROPOLLUTION	5.6~9.17	345.00
Horizon-CL6-2025-02	• FARM2FORK • CLIMATE • COMMUNITIES	5.6~9.16	352.50
Horizon-CL6-2025-03	• GOVERNANCE	5.6~9.24	129.40
Horizon-CL6-2025-01 (two-stage)	• BIODIV • CIRCBIO • ZEROPOLLUTION	5.6~9.4	48.00
Horizon-CL6-2025-02 (two-stage)	• FARM2FORK • CLIMATE	5.6–9.4	74.00
총 계			948.90

클러스터별 연구 주제 (Topics)

클러스터 1 - Health Cluster

공고 번호	유형	클러스터 1 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Destination STAYHLTH (건강 유지)					
HORIZON-HLTH-2025-03-STAYHLTH-XX-two-stage					
01	RIA	Improving the quality of life of persons with intellectual disabilities and their families	5	6-8	40
Destination ENVHLTH (환경 영향)					
HORIZON-HLTH-2025-03-ENVHLTH-XX-two-stage					
01	RIA	The impact of pollution on the development and progression of brain diseases and disorders	6	6-7	40
02	RIA	Advancing knowledge on the impacts of micro- and nanoplastics on human health	5	7-8	40
Destination DISEASE (질병 퇴치)					
HORIZON-HLTH-2025-01-DISEASE-XX					
01	RIA	Testing safety and efficacy of phage therapy for the treatment of antibiotic-resistant bacterial infections	3	15	45
03	RIA	Development of antibodies and antibody-derived proteins for the prevention and treatment of infectious diseases with epidemic potential	5	10	50
04	RIA	Leveraging artificial intelligence for pandemic preparedness and response	5	6-8	35
05	CSA	Support for the functioning of the Global Research Collaboration for Infectious Disease Preparedness (GloPID-R)	1	2	2

공고번호	유형	클러스터 1 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
06	RIA	Implementation research addressing strategies to strengthen health systems for equitable high-quality care and health outcomes in the context of non-communicable diseases (GACD)	5	3-4	20
07	RIA	Tackling high-burden for patients and under-researchered medical conditions	5	6	30
HORIZON-HLTH-2025-02-DISEASE-XX					
01	COF UND	European Partnership for Brain Health	1	56.50	150 ('25-'27)
02	COF UND	European partnership fostering a European Research Area (ERA) for health research (Phase 2)	1	77	77
HORIZON-HLTH-2025-03-DISEASE-XX-two-stage					
02	RIA	Advancing innovative interventions for mental, behavioural and neurodevelopmental disorders	7	6-8	50
Destination CARE (헬스케어)					
HORIZON-HLTH-2025-01-CARE-XX					
01	RIA	End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)	2	15-20	40
Destination TOOL (의료기기/기술/솔루션)					
HORIZON-HLTH-2025-01-TOOL-XX					
01	RIA	Enhancing cell therapies with genomic techniques	5	8-10	50
02	RIA	Advancing cell secretome-based therapies	3	9~13	40

공고 번호	유형	클러스터 1 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
03	RIA	Leveraging multimodal data to advance Generative Artificial Intelligence applicability in biomedical research (GenAI4EU)	3	15~17	50
05	RIA	Boosting the translation of biotech research into innovative health therapies	10	4~8	80
Destination IND (보건산업)					
HORIZOZ-HLTH-2025-01-IND-XX					
01	IA	Optimising the manufacturing of Advanced Therapy Medicinal Products (ATMPs)	5	6-8	40
02	CSA	Digitalisation of conformity assessment procedures of medical devices and in vitro diagnostic medical devices	1	4	4
HORIZOZ-HLTH-2025-03-IND-XX-two-stage					
03	RIA	Facilitating the conduct of multinational clinical studies of orphan devices and/or of highly innovative ("breakthrough") devices	5	6-8	40

클러스터 2 - Culture, Creativity and Inclusive Society

공고 번호	유형	클러스터 2 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Destination DEMOCRACY (민주주의 및 거버넌스)				
HORIZON-CL2-2025-01-DEMOCRACY-XX				
01	CSA	Advisory services and network to counter disinformation and foreign information manipulation and interference (FIMI)	1	3-3.5	3.5
02	CSA	Fostering the consolidation of European science diplomacy	1	2.5-3	3
03	RIA	Preparing the EU for future enlargement: challenges and opportunities	3	3-3.5	10.5
04	RIA	Open strategic autonomy, economic and research security in EU foreign policy	2	3-3.5	7
05	RIA	Countering and preventing radicalisation, extremism, hate speech and polarisation	3	3-3.5	10.50
06	CSA	Towards a European research hub on contemporary antisemitism and Jewish life and culture	1	3-3.5	3.5
07	RIA	The autocratic appeal: nature, drivers and strategies	3	3-3.5	10.5
08	RIA	Economic inequalities and their impact on democracy	3	3-3.5	10.5
09	RIA	Fighting against disinformation while ensuring the right to freedom of expression	3	3-3.5	10.5
10	RIA	The role of civic and citizenship education for strengthening civic and democratic participation and support for common European values	3	3-3.5	10.5

공고 번호	유형	클러스터 2 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
11	RIA	Independence of the judiciary as an aspect of rule of law compliance	3	3–3.5	10.5
12	CSA	Community of democracy practitioners and researchers	1	3–3.5	3.5
Destination HERITAGE (유럽문화유산 및 문화창작산업)						

공고 번호	유형	클러스터 2 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
HORIZON–CL2–2025–03–HERITAGE–XX						
01	COF UND	Co-funded European partnership for Resilient Cultural Heritage	1	60	60
HORIZON–CL2–2025–02–HERITAGE–XX–two-stage						
02	RIA	Innovative approaches to intangible cultural heritage for societal resilience	3	3–4	12
HORIZON–CL2–2025–01–HERITAGE–XX						
03	IA	A European Collaborative Cloud for Cultural Heritage – Innovative use cases	8	2.5–4	26
04	RIA	Leveraging artificial intelligence for creativity-driven innovation	3	4–5	15
05	RIA	Evolution of culture in a virtualising world	3	2.5–3.5	10.5
06	RIA	Europe as a global powerhouse of design for sustainable competitiveness	3	3.5–4.5	13.5
07	RIA	Cultural Strategies for Peace: culture and creativity as catalysts for conflict prevention and post-conflict reconciliation	3	3–4	12
08	CSA	Bridging historical past and future potential through conservation, preservation, and adaptive use of Europe's contentious and dissonant heritage	1	2.5–3.5	3.5
09	CSA	Impacts of culture and the arts on health and well-being	1	2	2

공고 번호	유형	클러스터 2 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
		Destination TRANSFO (사회·경제 변혁))			
		HORIZON-CL2-2025-01-TRANSFO-XX			
01	RIA	Tackling gender-based violence in different social and economic spheres	3	around 3.4	10.2
02	RIA	Historical and regional analyses of industrial transitions and their lessons for ensuring a fair green transition	3	around 3.4	10.2
03	RIA	Working time reduction: barriers, challenges, benefits and policy implications	3	around 3.4	10.2
05	RIA	Improving fairness in the economy through a better understanding of undeclared and underdeclared work	3	around 3.4	10.2
06	RIA	Evaluation and use of evidence in education policy and practice	3	around 3.4	10.2
07	RIA	Impact of the learning environment and the use of digital tools in everyday life on key skills and competence development	3	around 3.4	10.2
08	RIA	Improving mental health outcomes for people in education, training and work	3	3-5	15
09	RIA	Good practices for increased autonomy of persons with disabilities, including physical, mental, intellectual and sensory disabilities	3	around 3.4	10.2
10	RIA	Intergenerational fairness in the context of demographic change in the EU	3	3-4	10.20
11	CSA	Migration and climate change: building resilience and enhancing sustainability	1	2	2
		HORIZON-CL2-2025-02-TRANSFO-XX-two-stage			
04	RIA	Gender differences in career trajectories of parents and their implications for gender equality and family well-being	3	around 3.4	10.2

클러스터 3 - Civil security for Society

공고 번호	유형	클러스터 3 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Destination FCT (범죄 및 테러 예방)					
HORIZON-CL3-2025-01-FCT-XX					
01	RIA	Open topic on modern information and forensic evidence analysis and on frontline policing	6	3	18
02	RIA	Open topic on prevention, detection and deterrence of various forms of crime and terrorism through an enhanced understanding of the related societal issues	4	3	12
03	IA	Open topic on improved intelligence picture and enhanced prevention, detection and deterrence of various forms of organised crime	2	3.75	7.5
04	IA	Humanitarian demining / Unexploded Ordnance Disposal (UXO) of civil areas and unexploded ordnance risk education	1	6	6
Destination BM (국경 관리)					
HORIZON-CL3-2025-01-BM-XX					
01	IA	Open topic on efficient border surveillance and maritime security	3	3.3	10
02	RIA	Open topic on secured and facilitated crossing of external borders	3	3	9
03	IA	Open topic on better customs and supply chain security	3	3	9
Destination INFRA (인프라)					
HORIZON-CL3-2025-01-INFRA-XX					

공고번호	유형	클러스터 3 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
01	IA	Open topic for improved preparedness for, response to and recovery from large-scale disruptions of critical infrastructures	3	5	15
02	RIA	Open topic for role of the human factor for the resilience of critical infrastructures	2	3.5	7
Destination DRS (재난 대응)					
HORIZON-CL3-2025-01-DRS-XX					
01	RIA	Open topic on citizen and regional and/or local authorities' engagement in enhanced disaster risk awareness, including education, and preparedness	3	4	12
02	RIA	Open topic on Improving disaster risk management and governance to ensure self-sufficiency and sustainability of operations in support of enhanced resilience	3	3.5	10.5
03	IA	Open topic on Testing / validating tools, technologies and data used in cross-border prevention, preparedness and responses to climate extreme and geological events and chemical, biological or radiological emergency threats	3	4.5	13.5
04	IA	Advancing autonomous systems and robotics for high-risk disaster response, strengthening disaster resilience in conflict-afflicted crisis zones	1	5	5
Destination SSRI (보안)					
HORIZON-CL3-2025-01-DRS-XX					

공고 번호	유형	클러스터 3 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
01	CSA	National Contact Points (NCPs) in the field of security and cybersecurity fostering the links with National Community building for Safe, Secure and Resilient Societies	1	3	3
02	CSA	Uptake Acceleration Services	1	5	5
03	CSA	Open grounds for pre-commercial procurement of innovative security technologies	2	1	2
04	IA	Accelerating uptake through open proposals for advanced SME innovation Specific conditions	2	1.5	3
05	IA	Data repository for security research and innovation	1	3	3
06	PCP	Demand-led innovation for civil security through Pre-Commercial Procurement (PCP)	1	5.5	5.5
Destination CS (사이버보안)					
HORIZON-CL3-2025-02-CS-ECCC-XX					
01	RIA	Generative AI for Cybersecurity applications	3	12-14	40
02	IA	New advanced tools and processes for Operational Cybersecurity	4	4.5-6	23.55
03	RIA	Privacy Enhancing Technologies	3	3-4	11
04	RIA	Security evaluations of Post-Quantum Cryptography (PQC) primitives	2	2-3	4
05	RIA	Security of implementations of PostQuantum Cryptography algorithms	2	2-3	6
06	RIA	Integration of Post-Quantum Cryptography (PQC) algorithms into high-level protocols	2	2-3	6

□ 클러스터 4 – Digital, Industry and Space

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Destination TWIN-TRANSITION (쌍둥이 전환)					
HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-XX					
Manufacturing					
01	IA	Integrated approaches for remanufacturing (Made in Europe Partnership)	6	5-7	35
02	RIA	Physical and cognitive augmentation in advanced manufacturing (Made in Europe Partnership)	7	4-6	35
05	IA	Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (Made in Europe Partnership)	6	5-7	42
Energy-Intensive Industries – Decarbonisation and Energy Efficiency					
31	IA	From heat-driven processes to the use of mechanical and electric forces (Processes4Planet partnership)	3	8-10	25
32	IA	Green and resilient flexible production processes (Processes4Planet partnership)	3	8-10	25
33	RIA	Integrated use of renewable energy carriers in industrial sites (Processes4Planet partnership)	3	6-8	25
34	IA	Smart integration of net zero technologies into Energy Intensive industries (Processes4Planet and Made in Europe partnership)	3	5-9	25
37	RIA	Solving issues in carbon-neutral iron and steel making processes with diverse input materials of varying quality (Clean Steel Partnership)	2	14	28

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Energy-intensive Industries - Circularity and Zero Pollution				
36	RIA	Safe and clean processing technologies and products (Processes4Planet partnership)	4	6-8	24
38	CSA	Synergies and mutual learning with national and regional initiatives in Europe on Industrial decarbonisation (Processes4Planet and Clean Steel partnerships)	1	1	1
39	CSA	Towards human-centric, sustainable and resilient energy-intensive industries (Processes4Planet and Clean Steel partnerships)	1	2	2
HORIZON-CL4-INDUSTRY-2025-05-TWIN-TRANSITION-XX-two-stage				
35	IA	Developing and embedding upcycling technologies into viable business (Processes4Planet partnership)	5	8-12	48
Construction				
11	IA	Enhanced logistics and operations of construction sites	2	6.5	13
Social Circular Enterprises				
21	IA	Demonstrators for cluster of social circular enterprises	2	5	10
Destination MATERIALS (소재)				
HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-XX				
Raw Materials				
61	IA	Technologies for critical raw materials and strategic raw materials from End of Life products	3	8	24
62	IA	Strategic Partnerships for Raw Materials: Innovative Approaches for sustainable production of Critical Raw Materials	4	7.5	30

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
63	IA	Innovative solutions for the sustainable production for Semiconductor raw materials	3	8	24
64	COF UND	EU Co-funded Partnership on raw materials for the green and digital transition	1	45	45
Innovative Advanced Materials					
44	CSA	Innovative Advanced Materials Innovation Procurement	1	2	2
45	IA	Materials Commons for Europe	1	28	28
HORIZON-CL4-INDUSTRY-2025-03-MATERIALS-XX					
46	RIA	Innovative Advanced Materials (IAMs) for photonics, enabling low-power and ultra-broadband performance for telecommunication (IAM4EU Partnership)	2	5	10
47	RIA	Innovative Advanced Materials (IAMs) for conformable, flexible or stretchable electronics (IAM4EU Partnership)	3	5	15
Safe and Sustainable by Design					
52	RIA	Accelerate the uptake of life-cycle assessment (LCA) for Safe and Sustainable by Design (SSbD) chemicals and materials and resulting products	3	4-5	15
Textiles					
31	IA	Digitally enabled local-for-local textile and apparel production (Textiles for the Future Partnership)	2	5	10
HORIZON-CL4-INDUSTRY-2025-05-MATERIALS-XX-two-stage					
Innovative Advanced Materials					

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
42	RIA	Innovative Advanced Materials (IAMs) for product monitoring, smart maintenance and repair strategies in the construction sector (IAM4EU Partnership)	5	6	30
43	IA	Innovative Advanced Materials (IAMs) for robust, fast curing sealants and coatings for manufacturing and final assembly (IAM4EU Partnership)	5	6	30
Safe and Sustainable by Design					
51	IA	Development of safe and sustainable by design alternatives to Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	4	7	30
Destination DATA (데이터)					
HORIZON-CL4-INDUSTRY-2025-03-DATA-XX					
Connected Collaborative Computing Networks (3C networks)					
08	RIA	Large-scale pilots for supply end-to-end infrastructures integrating device, network computing and communication capabilities for Telco Edge Cloud deployments, as a basis for Connected Collaborative Computing Networks (3C networks)	1	75	75
09	CSA	Alignment of stakeholders towards the supply-side large-scale pilot of end-to-end infrastructures integrating device, network computing and communication capabilities	1	1.8-2.5	2.5
10	CSA	Roadmap for next generation computing technologies from IoT device level to edge to cloud to HPC	1	1.8-2.5	2.5
11	RIA	Open Internet Stack: development of technological commons/open-source 3C building blocks	1	10	10

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
12	CSA	Preparing the Advancement of the state of the art of submarine cable infrastructures	1	1.9-2.1	2.1
AI-GenAI / Data / Robotics					
13	IA	Fostering Innovative and Compliant Data Ecosystems (AI, Data and Robotics Partnership)	6	7-9	45
HORIZON-CL4-2025-04-DATA-XX					
02	IA	Empowering AI/generative AI along the Cognitive Computing continuum (AI/Data/Robotics Partnership)	4	6-8	30
03	RIA	Software Engineering for AI and generative AI (AI/Data/Robotics Partnership)	3	4-6	15
Destination DIGITAL-EMERGING (신흥기술)					
HORIZON-CL4-2025-03-DIGITAL-EMERGING-XX					
Quantum and High Performance Computing					
01	CSA	Continuation of the Quantum Technologies Flagship	1	4.5	4.5
02	RIA	Quantum Computing – complementing the quantum computing FPAs with the development of a technology agnostic software stack	1	5	10
03	RIA	Supporting Digital Partnerships in Quantum technologies	3	2.5-2.7	8
04	CSA	Post-exascale HPC	1	2.5	2.5
semiconductor					
08	CSA	Strengthening the fabless Start-up and SME ecosystem in Europe (CSA)	1	1	1
AI-GenAI / Data / Robotics					

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
07	RIA	Robust and trustworthy Generative AI for Robotics and industrial automation (AI/Data/Robotics & Made in Europe Partnerships)	2	40-45	85
09	RIA	Challenge-Driven GenAI4EU Booster (RIA) (AI/Data/Robotics Partnership)	3	15	45
HORIZON-CL4-2025-04-DIGITAL-EMERGING-XX					
Photonics					
01	IA	Advanced sensor technologies and multimodal sensor integration for multiple application domains (Photonics Partnership)	5	4-6	25
AI-GenAI / Data / Robotics					
04	RIA	Assessment methodologies for General Purpose AI capabilities and risks (RIA) (AI/Data/Robotics Partnership)	2	3-4	7
05	IA	Soft Robotics for Advanced physical capabilities (IA) (AI/Data/Robotics Partnership)	2	10	20
07	RIA	Enhanced Learning Strategies for General Purpose AI: Advancing GenAI4EU (AI/Data/Robotics Partnership)	2	15	30
HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-XX					
Artificial Intelligence in Science					
61	RIA	AI Foundation models in science (GENAI4EU)	5	6	30
62	CSA	Facilitated cooperation for AI in Science	1	3	3
Destination SPACE (우주)					
HORIZON-CL4-2025-02-SPACE-XX					
Accessing Space					

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
11	CSA	CSA on access to European spaceports	1	1	1
12	RIA	Digital solutions for autonomy for space transportation systems, design and simulation tools – Digital enablers and building blocks	2	1-3	3
13	IA	Digital solutions for autonomy for space transportation systems, design and simulation tools – targeting demonstration	2	4-7	7
Acting in Space					
21	RIA	ISOS Pilot Mission Detailed Design – Servicing component	2	6-12	18
22	RIA	ISOS Pilot Mission Detailed Design – HOST component	1	12-17.5	17.5
23	RIA	ISOS Pilot Mission Detailed Design – Logistics component	1	10-12	12
24	RIA	ISOS Pilot Mission Detailed Design – satAPPS component	2	2-3	5
Using Space on Earth – Telecommunications					
31	RIA	Digital enablers and building blocks for Earth Observation and Satellite telecommunication for Space solutions	3	1-5	6
32	IA	Preparing demonstration missions for collaborative Earth Observation and Satellite telecommunication for Space solutions	3	2-6	11
Using Space on Earth – Earth Observation					
41	RIA	Copernicus Climate Change Service (C3S) evolution: new and innovative processing and methods for future Sentinels and other satellites for reanalyses	1	10	10

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
42	RIA	Copernicus Atmosphere Monitoring Service (CAMS) evolution: improved soil-vegetation-atmosphere modelling and data assimilation of atmospheric constituents	1	3	3
43	RIA	Copernicus Anthropogenic CO_2 Emissions Monitoring & Verification Support (CO2MVS) capacity: new and innovative methods to estimate the impact of fires on vegetation and related carbon fluxes	1	3	3
44	RIA	Copernicus Marine Environment Monitoring Service (CMEMS) evolution: new and innovative ocean data assimilation techniques	1	5	5
45	RIA	Supporting the AI/ML digital transition of Copernicus Services	1	12	12
46	IA	Innovative Earth observation services in support of maritime litter detection and ship source pollution policies	1	5	5
Boosting Space through non-dependence of the EU for key critical space technologies					
71	RIA	Space Critical EEE Components and Related Technologies for EU non-dependence -RISC-V Microprocessor on 7nm	1	4.5-5	5
72	RIA	Space Critical Equipment and Related Technologies for EU non-dependence - Chip Scale Atomic Clocks and Solar Cells	2	3.5-4	8
73	RIA	Space Critical EEE Components for EU no-dependence - Connectors	1	1	1
74	RIA	Space Critical EEE Components for EU no-dependence - Advanced Packages and Memories	2	2.5-3	6
Boosting Space through international cooperation					

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
81	RIA	EU-Japan cooperation on the exploitation of Quantum Space Gravimetry data	1	0.45-0.5	0.5
Destination HUMAN (인간중심 혁신 기술)					
HORIZON-CL4-2025-03-HUMAN-XX					
Virtual Worlds					
14	RIA	Core technologies for virtual worlds (RIA) (Virtual Worlds and Photonics Partnerships)	7	5-6	43
15	IA	GenAI4EU: Generative AI for Virtual Worlds: Advanced technologies for better performance and hyper personalised and immersive experience (IA) (AI/Data/Robotics & Virtual Worlds Partnerships)	5	4-5	20
16	RIA	Drive the evolution of the internet towards open and interoperable Web 4.0 and Virtual Worlds : building blocks in priority areas (RIA) (Virtual Worlds Partnership)	9	1-3	14.5
17	CSA	Specific support for the Virtual Worlds Partnership and the Web 4.0 initiative (CSA) (Virtual Worlds Partnership)	1	2.5	2.5
AI-GenAI / Data / Robotics					
18	CSA	GenAI4EU central Hub (CSA) (AI/Data/Robotics Partnership)	1	3	3
International Cooperation					
19	CSA	International cooperation in semiconductors (CSA)	1	3	3
HORIZON-CL4-INDUSTRY-2025-01-HUMAN-XX					
Standardisation and Knowledge Valorisation					
60	CSA	Horizon Standardisation Booster	1	1.5	1.5
61	CSA	Standardisation landscape analyses tool	1	1	1

공고 번호	유형	클러스터 4 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
62	CSA	Artificial Intelligence for knowledge valorisation	1	2	2
63	CSA	Value creation pilots for scaling up innovative solutions	1	2	2
64	CSA	Pilot initiatives on Technology Infrastructures	5	1	5
65	IA	System innovation experimentation for Industry 5.0	1	3	3
66	CSA	Assessment of Technology Infrastructure needs in Ukraine	1	1.5	1.5
HORIZON-CL4-2025-04-HUMAN-XX					
International Cooperation					
08	RIA	GenAI for Africa	2	1-2	5

□ 클러스터 5 - Climate, Energy and Mobility

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Destination 1: Climate sciences and responses for the transformation towards climate neutrality
HORIZON-CL5-2025-06-D1-XX
01	RIA	Climate simulations data and knowledge for optimal support of IPCC Assessments and International Policy	1	30	30
02	RIA	Advancing Earth System Models to increase understanding of Earth system change	2	7.5	15
03	RIA	Modelling of mitigation pathways for F-gases	3	2.5	7.5
04	RIA	The attribution to climate change, and improved forecasting of extreme and slow-onset climate- and weather-related events and their impacts	2	6	12
06	RIA	Fostering equity and justice in climate policies - Societal Readiness Pilot	3	4-5	15
07	CSA	Implementing the climate action pillar of the EU-African Union Partnership on Climate Change and Sustainable Energy	1	3-4	4
HORIZON-CL5-2025-05-Two-Stage-D1-XX
05	RIA	Adaptation to Climate Change: Effectiveness and Limits	3	6	18
Destination 2: Cross-sectoral solutions for the climate transition
HORIZON-CL5-2025-01-D2-XX
Batteries
03	IA	Sustainable processing and refining of raw materials to produce battery grade Li-ion battery materials (Batt4EU Partnership)	2	10	20

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
06	CSA	Fostering the European battery ecosystem by providing accurate and up-to-date information and stimulating excellence in the European battery R&I community (Batt4EU Partnership)	1	3	3
Communities and cities					
07	COF UND	Driving Urban Transitions to a sustainable future (DUT) Co-Funded Partnership	1	56	56
Cross-cutting					
08	RIA	Coordinated call with India on waste to renewable hydrogen	2	5	10
10	COF UND	Clean Energy Transition Co-Funded Partnership	1	69	69
11	CSA	Support to the SET Plan community	15	0.5	7.5
12	CSA	NZIA regulatory sandbox exchange forum support	1	0.5	0.5
HORIZON-CL5-2026-01-D2-XX					
Batteries					
01	IA	Development of sustainable and design-to-cost batteries with (energy-)efficient manufacturing processes and based on advanced and safer materials (Batt4EU Partnership)	3	8	24
04	RIA	Integrating advanced materials, cell design and manufacturing development for high-performance batteries aimed at mobility (Batt4EU Partnership)	3	10	30
05	IA	Accelerated multi-physical and virtual testing for battery aging, reliability, and safety evaluation (Batt4EU Partnership)	2	7.5	15
Cross-cutting					

공고번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
09	CSA	Monitoring and Evaluation of the Societal Readiness Pilot	1	1.5	1.5
HORIZON-CL5-2025-01-Two-Stage-D2-XX					
02	RIA	Cost-effective next-generation batteries for long-duration stationary storage (Batt4EU Partnership)	3	5	15
Destination 3: Sustainable, secure and competitive energy supply					
HORIZON-CL5-2025-02-D3-XX					
Global leadership in renewable energy					
03	IA	Novel approaches to geothermal resources development	2	10	20
04	RIA	Development of hydropower technologies and water management schemes allowing for win-win situation of flexible hydropower and biodiversity improvement – Societal Readiness Pilot	3	4	12
06	IA	Innovative manufacturing of wind energy technologies	4	7	28
09	IA	Optimised/Alternative Silicon Growth Technologies (from either liquid or gaseous phase) for PV Applications (EUPI-PV Partnership)	2	9	18
11	IA	Novel inverter technologies and flexibility in PV systems (EUPI-PV Partnership)	3	6	18
15	CSA	Building a Long-Term Africa Union (AU) and European Union (EU) Research and Innovation joint collaboration on Sustainable Renewable Energies	1	4	4
Energy systems, grids & storage					
16	CSA	Support to the BRIDGE initiative	1	1	1
17	IA	Control and operation tools for a RES-based energy system	2	10	20

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
21	IA	Cross-regional network and market model for optimisation of long duration storage	2	7	14
		Carbon Capture, Utilisation and Storage (CCUS)			
25	RIA	Effects of CO2-stream impurities on CO2 transport and storage	2	5	10
26	RIA	European investment atlas of potential CO2 storage sites	1	5	5
27	IA	Using captured CO2 as a resource to replace fossil hydrocarbons in industrial production	2	7	14
		HORIZON-CL5-2026-02-D3-XX			
01	IA	Large-scale production of liquid advanced biofuels and renewable fuels of non-biological origin	3	11	33
02	RIA	Competitiveness, energy security and integration aspects of advanced biofuels and renewable fuels of non-biological origin value chains	2	4	8
05	IA	Demonstration of thermal energy storage solutions for solar thermal plants and systems	2	7.5	15
07	RIA	Improved reliability and optimised operations and maintenance for wind energy systems	3	5	15
08	RIA	Understand and minimise the environmental impacts of offshore wind energy	3	5	15
10	IA	Towards commercialisation of Perovskite PV and development of dedicated manufacturing equipment (EUPI-PV Partnership)	3	8	24
12	RIA	Extending the lifetime of crystalline silicon PV modules (EUPI-PV Partnership)	2	4	8

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
13	PCP	De-risking wave energy technology development through transnational pre-commercial procurement of wave energy research and development	1	20	20
14	CSA	Development of innovative solutions strengthening the security of renewable energy value chains	3	2	6
18	IA	Next generation distribution substation for increasing the system resilience	2	9	18
19	IA	Innovative solutions for a generative AI-powered digital spine of the EU energy system	2	8	16
20	IA	Innovative tools and services to manage and empower energy communities	2	10	20
22	IA	Underground Thermal Energy Storage in dense urban areas	2	9	18
24	RIA	New CO2 capture technologies	3	6	18
HORIZON-CL5-2025-01-Two-Stage-D3-XX					
23	RIA	Critical elements for energy security of grid and storage technologies	3	3	9
Destination 4: Efficient, sustainable and inclusive energy use					
HORIZON-CL5-2026-02-D4-XX					
Highly energy-efficient and climate neutral European building stock					
01	RIA	On-site innovative robotic and automated solutions and techniques for more sustainable and less disruptive building renovation and construction	3	5	15
02	IA	Smarter buildings as part of the energy system for increased efficiency and flexibility – Societal Readiness Pilot	3	4	12

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
03	RIA	Innovative pathways for low carbon and climate resilient building stock and built environment (Built4People Partnership)	3	5	15
04	IA	Innovative approaches for the deployment of Positive Energy Districts	3	5	15
05	RIA	Optimal combination of low embodied carbon construction products, technical building systems and circularity principles for climate neutral buildings (Built4People Partnership)	3	4	12
Industry					
06	IA	Phase out fossil fuel in energy intensive industries through the efficient integration of renewable energy sources	2	7.5	15
Destination 5: Clean and competitive solutions for all transport modes					
HORIZON-CL5-2025-04-D5-XX					
Zero-emission road transport					
01	IA	Efficient wireless stationary bidirectional charging solutions for road Light Duty Vehicles (2ZERO Partnership) – Societal Readiness Pilot	2	10	20
02	IA	Cybersecure and resilient road e-mobility ecosystem (2ZERO Partnership)	1	10	10
03	IA	Safe post-crash management of road Light Duty Battery Electric Vehicles (BEVs) (2ZERO Partnership)	1	5	5
04	RIA	Extended lifetime of road Battery Electric Vehicles (BEV) (2ZERO Partnership)	1	7	7
05	IA	Road Battery Electric Vehicles (BEV) optimised user-centric solutions for energy efficiency design and consistent range throughout weather conditions (2ZERO Partnership)	2	6	12

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
06	IA	Strategies, tools and concepts for optimised road Battery Electric Vehicles (BEV) long-haul logistics use cases (2ZERO Partnership)	1	5	5
07	CSA	Accelerating the circular transformation of the EU automotive industry	1	2	2
Aviation					
08	RIA	Next generation testing capabilities in strategic EU wind tunnels	1	15	15
Waterborne transport					
10	IA	Innovative solutions for energy conversion and safety of low and zero-carbon fuels in waterborne transport (ZEWT Partnership)	2	11.25	22.50
11	IA	Demonstration of battery energy storage systems in existing and new vessels via novel energy storage and ship design concepts (ZEWT Partnership)	2	7.5	15
12	RIA	Real-time, adaptative and innovative energy management solutions to optimise fuel consumption and lower emissions pollutants in waterborne transport (ZEWT Partnership)	1	4	4
13	IA	Novel holistic intelligent tools for variable retrofit and decarbonised scenarios (ZEWT Partnership)	1	4	4
14	IA	Flexible and mobile solutions for Onshore Power Supply (ZEWT Partnership)	1	5	5
15	IA	Optimal integrated onboard renewable energy solutions, by considering Wind-Assisted Propulsion Systems (ZEWT Partnership)	1	7.5	7.5
16	CSA	Support of the new EU renewable and low carbon fuel ecosystem for waterborne transport	1	2	2
Cross-cutting					

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
18	CSA	Support to the organisation and dissemination of the Transport Research Arena (TRA) conference	1	1.6	1.6
19	CSA	Knowledge sharing and dissemination to support road transport R&I in EU and around the world increasing global EU competitiveness	1	2	2
HORIZON-CL5-2025-03-Two-Stage-D5-XX					
Aviation					
09	RIA	Next generation aircraft autonomy technologies for cockpit / pilot assistance applications	2	3.5	7
HORIZON-CL5-2026-04-D5-XX					
Transport-related health and environment					
17	IA	Real time monitoring of regulated and non-regulated emissions from all types of vessels and other port activities in order to enforce emission limits in waterfront cities	2	8	16
Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods					
HORIZON-CL5-2025-04-D6-XX					
Connected, Cooperative and Automated Mobility (CCAM)					
01	RIA	Advancing remote operations to enable the sustainable and smart mobility of people and goods based on operational and societal needs (CCAM Partnership) – Societal Readiness Pilot .	2	6	12
02	CSA	Preparing for large-scale CCAM demonstrations (CCAM Partnership) – Societal Readiness Pilot	1	4.5	4.5
Multimodal transport, infrastructure and logistics					

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
11	RIA	Innovative air mobility and services for sustainable and smart urban, peri-urban transport – Societal Readiness pilot	2	5	10
Safety and resilience					
12	IA	Safe Human-Technology Interaction (HTI) in the vehicle systems of the coming decade – Societal Readiness Pilot	2	4	8
HORIZON-CL5-2025-04-D6-XX					
Connected, Cooperative and Automated Mobility (CCAM)					
03	RIA	Next-generation environment perception for real world CCAM operations: Error-free and secure technologies to improve energy-efficiency, cost-effectiveness, and circularity (CCAM Partnership)	2	4	8
04	RIA	Integration of human driving behaviour in the validation of CCAM systems (CCAM Partnership)	1	5	5
05	RIA	Approaches, verification and training for Edge-AI building blocks for CCAM Systems (CCAM Partnership)	1	4	4
06	IA	Federated CCAM data exchange platform (CCAM Partnership)	1	4	4
Multimodal transport, infrastructure and logistics					
07	IA	Innovative construction and maintenance, with the use of new materials and techniques, for resilient and sustainable transport infrastructure	2	11	22
08	IA	Accelerating freight transport and logistics digital innovation	2	7-8	15
09	CSA	Reliable data and practices to measure and calculate transport emissions in multimodal transport chains	1	3.5	3.5

공고 번호	유형	클러스터 5 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
10	IA	Integrating inland waterway transport in smart shipping and multimodal logistics chains	2	8	16
Safety and resilience					
13	RIA	Safety of Cyclists, Pedestrians and Users of Micromobility Devices	2	5	10
14	RIA	Predicting and avoiding road crashes based on Artificial Intelligence (AI) and big data	2	5	10
15	RIA	Icing in the context of sustainable aviation	1	4	4

클러스터 6 – Food, Bioeconomy, Natural Resources, Agriculture and Environment

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Destination BIODIV (생물다양성)				
Horizon-CL6-2025-01-BIODIV-XX				
01	COF UND	Additional activities for the European Biodiversity Partnership: Biodiversa+	1	20	20
02	CSA	Strengthening the capacity of citizen science in biodiversity observation	1	4	4
03	RIA	Strengthening taxonomic approaches for biodiversity	2	12	24
04	RIA	Large-scale in situ biodiversity observations for better understanding of biodiversity state, drivers of its decline and impacts of policies	2	11	22
05	RIA	Assessing and modelling ecosystems' dynamic processes to guide restoration activities and to improve models used for climate	3	6	18
06	RIA	Assessing and modelling socio-economic impacts of nature restoration	3	5-6	16
07	RIA	Integrated and coordinated approaches for coral reefs and associated ecosystems (mangroves and seagrass beds) conservation, restoration, and adaptation potential	2	6	12
08	RIA	Strengthening pathways to alternative socio-economic models for continuous improvement of biodiversity	2	7	14

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
09	RIA	Understanding the perceptions of and improving communication on the biodiversity crisis and nature restoration benefits to sustain citizen engagement and democratic governance	2	3	6
10	RIA	Supporting the implementation of nature restoration measures for the social, economic and environmental sustainability of farming systems	2	5-6	11
Horizon-CL6-2025-01-BIODIV-XX-two-stage					
01	RIA	Living labs and lighthouses co-creating innovative solutions for forests and freshwater ecosystems restoration	2	7	14
02	RIA	Breeding for resilience: enhancing multistress tolerance in crops	2	7	14
Destination FARM2FORK (식품시스템)					
HORIZON-CL6-2025-02-FARM2FORK-XX					
Enabling sustainable farming systems					
01	COF UND	Additional activities for the European partnership on accelerating farming systems transition – agroecology living labs and research infrastructures	1	30	30
02	COF UND	Additional activities for the European partnership on animal health and welfare	1	40	40
03	IA	Overcoming the barriers for scaling up circular water management in agriculture	2	6	12
04	RIA	Enhancing plant protein production to bolster the resilience of agricultural systems and EU self-sufficiency in plant protein feed	2	5.5	11

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
05	RIA	Developing innovative phytosanitary measures for plant health – focus on systems approach for pest risk management	2	6	12
06	RIA	Improving grassland management in European livestock farming systems	2	8	16
07	RIA	Fostering animal breeding and genetics for climate change adaptation and mitigation, improved robustness and resilience	2	6	12
08	RIA	Exploring the potential of controlled environment agriculture (CEA)	1	6	6
09	CSA	Strengthening the EU crop breeding research and innovation ecosystem for competitive, resilient, and sustainable agriculture	1	3	3
Enabling sustainable fisheries and aquaculture					
10	IA	Diversifying aquaculture production with emphasis on low-trophic species	2	6	12
11	IA	Towards modern, integrated, and effective fisheries monitoring, control and surveillance (MCS) systems in Europe	2	6	12
Transforming food systems for health, sustainability and inclusion					
12	RIA	Nutrition and Mental Health	2	5	10
13	CSA	Raising citizen awareness on alternative proteins derived from biotechnology	1	2	2
14	IA	Nutrients produced by microorganisms utilising CO2 from the air, with the support of biotechnology	2	6	12
15	COF UND	Additional activities of the European partnership on sustainable food systems for people, planet and climate	1	35	35

공고번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
		Targeted international cooperation			
16	RIA	Developing a joint AU-EU Agricultural Knowledge and Innovation System (AKIS) supporting the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership	1	6	6
17	RIA	Nutrition in emergency situations – Ready-touse Supplementary Food (RUSF) and Ready-to-use Therapeutic Food (RUTF)	2	4	8
		HORIZON-CL6-2025-02-FARM2FORK-XX-two-stage			
		Enabling sustainable farming systems			
01	RIA	Emerging and future risks to plant health	2	6	12
02	IA	Open topic: Innovating for on-farm post-harvest operations, storage and transformation of crops into food and non-food products	2	6	12
		Transforming food systems for health, sustainability and inclusion			
03	IA	Making food systems more resilient to food safety risks through the deployment of technological solutions	2	6	12
04	RIA	Research and innovation for food waste prevention and reduction at household level through measurement, monitoring and new technologies	2	4	8
		Targeted international cooperation			
05	RIA	Developing agroecology living labs and lighthouses under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership	2	6	12
		Destination CIRCBIO (순환경제 및 바이오경제)			
		HORIZON-CL6-2025-01-CIRCBIO-XX			

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Enabling a circular economy transition				
01	IA	Novel circular business models to enable the just transition to a sustainable and circular economy	2	5	10
02	RIA	Improving ecodesign of products and development of testing methods for products prioritised under the Ecodesign for Sustainable Products Regulation	2	4	8
03	RIA	Product Environmental Footprint (PEF) of policy and market-relevant product groups	2	4	8
04	IA	Development and testing of Extended Producer Responsibility schemes (EPR) within the priority Circular Economy Action Plan value chains	2	5	10
05	IA	Consumption patterns and environmental awareness as enablers of transition to circular economy	2	6	12
06	RIA	Indicators for the transition to sustainable and circular economy	2	4	8
07	IA	Demonstration, deployment and upscaling of circular systemic solutions in cities and regions (Circular Cities and Regions Initiative)	2	9	18
Innovating for sustainable bio-based systems, biotechnology and the bioeconomy				
08	IA	Bioprospecting and optimized production of the terrestrial natural products: new opportunities for bio-based sectors	2	5.5	11
09	IA	Unleashing the potential and advancing the impact of the digitalization/AI of the bio-based value chains	2	5	10
10	CSA	Support to the EU Biotechnology and Biomanufacturing Initiative: scoping action	1	2	2

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
11	IA	Demonstration of reduced energy use and optimised flexible energy supply for industrial bio-based systems	2	5.5	11
12	CSA	Harmonizing and optimising composting plants performances in Europe	1	2	2
13	RIA	Reconstructing areas affected by conflicts: the role of the bio-based solutions	2	4	8
Innovating for blue bioeconomy and biotechnology value chains					
14	IA	Bioprospecting and optimised production of marine/aquatic natural products in the omics & artificial intelligence era	2	6	12
Safeguarding and sustainably innovating the multiple functions of EU forests					
15	COF UND	European partnership: Forests and Forestry for a Sustainable Future	1	10	10
HORIZON-CL6-2025-01-CIRCBIO-XX-two-stage					
Enabling a circular economy transition					
01	IA	Open Topic: Innovative solutions for the sustainable and circular transformation of SMEs	2	5	10
Destination ZEROPOLLUTION (무공해 청정환경)					
HORIZON-CL6-2025-01-ZEROPOLLUTION-XX					
01	RIA	Innovative and advanced monitoring and modelling systems for revised air quality policies	1	10	10
02	CSA	Environmental impacts from the production of agricultural crops for bio-based industrial systems	1	2	2
03	RIA	Environmental biotechnology applications in service of remediation of polluted ecosystems	2	4	8

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
04	RIA	Towards a comprehensive European strategy to assess and monitor aquatic litter including plastic and microplastic pollution	1	6	6
05	RIA	Cumulative impacts of marine pollution on marine organisms and ecosystems	2	6	12
06	IA	Provide digital solutions tailored to small and medium-sized farms to monitor and sustainably manage water, nutrients, other inputs and natural resources	1	8	8
07	IA	Reducing pollution from the food and drink industries	2	6	12
HORIZON-CL6-2025-01-ZEROPOLLUTION-XX-two-stage					
01	IA	Substances of concern and emerging pollutants from bio-based industries and products: mapping and replacement	2	5	10
Destination CLIMATE (기후 – 육지, 해양, 물)					
HORIZON-CL6-2025-02-CLIMATE-XX					
01	RIA	The ocean-climate-biodiversity nexus and marine carbon dioxide removal (mCDR)	2	6	12
02	RIA	The ocean-climate-biodiversity-people nexus: uncovering safe operating space for safeguarding the integrity and health of the global ocean	3	6.5	19.5
03	RIA	Understanding and managing medium and longer-term challenges and opportunities for agriculture stemming from shifting climatic zones and changing agroecological environments	2	5	10

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
04	RIA	Monitoring, reporting, verification and mitigation of non-CO2 greenhouse gas emissions and related air pollutants from agriculture	2	6	12
05	COF UND	Additional activities for the European Partnership Water Security for the Planet (Water4All)	1	23	23
HORIZON-CL6-2025-02-CLIMATE-XX-two-stage					
01	IA	Strengthening the resilience of water systems and water sector to climate and global socio-economic change impacts	3	6	18
Destination COMMUNITIES (지역 커뮤니티)					
HORIZON-CL6-2025-02-COMMUNITIES-XX					
01	RIA	Adapting to and mitigating demographic trends in rural areas through evidencebased planning and innovative solutions	2	6.5	13
02	RIA	Exploring and improving access to housing in rural areas and developing the houses and villages of the future	1	6	6
03	IA	Research and Innovation solutions for resilient coastal communities in the Atlantic	1	6	6
04	RIA	Creating urban co-creation spaces for driving sustainable food system transformation	2	6	12
Destination GOVERNANCE (거버넌스, 환경 관측, 디지털 솔루션)					
HORIZON-CL6-2025-03-GOVERNANCE-XX					
Innovating with governance models and supporting policies					

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
01	RIA	Improving analytical capacity and understanding of the bargaining power and interactions of farmers with the operators of the value chains	1	6	6
02	IA	Upscaling innovative payments to support farmers in the delivery of agri-environment-climate public goods	2	6	12
03	RIA	Boosting the attractiveness of agriculture and the connection between the farming community and society	2	6	12
04	RIA	Operationalisation of bioeconomy sustainability principles	2	4	8
05	RIA	Exploring options to resolve land and sea use competition	2	4.5	9
06	CSA	Strengthening and connecting bioeconomy networks	1	4.4	4.4
07	CSA	Strengthening the European Research Area by enhancing the bioeconomy research and innovation ecosystem in BIOEAST countries	1	4	4
Deploying and adding value to environmental observations					
08	RIA	Effective environmental observing systems and associated governance	2	5	10
09	IA	Delivering Earth Intelligence to accelerate the green and digital transition	2	7.5	15
10	RIA	Improving and integrating polar observation systems in response to user requirements at local, regional, and international level	2	8	16
Digital and data technologies as key enablers					
11	RIA	Enhancing sustainability and resilience of agriculture, forestry and rural development through digital twins	2	6	12

공고 번호	유형	클러스터 6 주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Strengthening agricultural knowledge and innovation systems (AKIS)					
12	CSA	Increasing knowledge flows to practice within Agricultural Knowledge and Innovation Systems (AKIS) via thematic networks	1	3	3
13	CSA	Strengthening knowledge and skills of advisors and integrating them into Agricultural Knowledge and Innovation Systems (AKIS) via an EU advisory network	1	10	10
14	RIA	Preparing farmers, their workforce and advisors to the future of agriculture by providing the relevant knowledge and skills at the right time and place	1	8	8