

워크프로그램 2025 클러스터 6 초안 주요 내용

<'25.02.10, 한-EU연구협력센터>

- ※ 동 내용은 '25년 2월자 [초안 문서](#)를 기반으로 하므로 '25년 초 공개 예정인 최종 워크프로그램 내용과 일부 다를 수 있음
- ※ 클러스터 6: 식품, 바이오경제, 천연자원, 농업 및 환경 (Food, Bioeconomy, Natural Resources, Agriculture and Environment)

□ 도달목표(DESTINATIONS)

구분	도달목표 (관련 분야)	주제 수 (개)	과제 수 (건)	예산 (백만€)
1	Biodiversity and ecosystem services (BIODIV) 생물다양성	12	24	172
2	Fair, healthy and environment-friendly food systems from primary production to consumption (FARM2FORK) 식품 시스템	21	36	292
3	Circular economy and bioeconomy sectors (CIRCBIO) 순환경제 및 바이오경제	16	29	170
4	Clean environment and zero pollution (ZEROPOLLUTION) 청정 환경 및 무공해	8	12	68
5	Land, ocean and water for climate action (CLIMATE) 기후 (육지, 해양, 수질)	6	13	94.5
6	Resilient, inclusive, healthy and green rural, coastal and urban communities (COMMUNITIES) 지역 커뮤니티	6	11	37
7	Innovative governance, environmental observations and digital solutions in support of the Green Deal (GOVERNANCE) 거버넌스, 환경 관측 및 디지털 솔루션	15	21	119.9
총계		84	146	953.40

□ 2025년도 공고(call) 예산 및 예정일

- 2025년도 클러스터 6의 공모는 도달목표에 따라 3개로 나뉘어 진행

공고번호	도달목표	신청 기간	예산(백만€)
Horizon-CL6-2025-01	<ul style="list-style-type: none"> • BIODIV • CIRCBIO • ZEROPOLLUTION 	5.6~9.17	410.00
Horizon-CL6-2025-02	<ul style="list-style-type: none"> • FARM2FORK • CLIMATE • COMMUNITIES 	5.6~9.4	423.50
Horizon-CL6-2025-03	<ul style="list-style-type: none"> • GOVERNANCE 	5.6~9.24	119.90
총 계			953.40

□ 주요 내용

- 한국 및 기타 국가와의 국제협력이 장려되는 2개 과제는 다음과 같음:

공고번호	연구주제	유형	과제수	과제당 예산
HORIZON-CL6-2025-01-CIRCBIO-10	생물 기반 가치 사슬의 디지털화 /AI의 잠재력 발휘 및 영향 확대	IA	2	5백만 유로
HORIZON-CL6-2025-01-CIRCBIO-11	EU 생명공학 및 생물제조 이니셔티브 지원	CSA	1	2백만 유로

※ 위 두 개의 공고는 한국, 미국, 일본, 인도 등과의 국제 협력을 장려

- 클러스터6 2025 워크프로그램에는 6개의 Cofund 과제가 포함되어 있음

- 총 6개 Co-funded 파트너십에는 총 2025년도에 총 178백만 유로가 배정

※ 일부 파트너십에는 26년, 27년에 걸쳐 추가 자금이 지원될 예정

※ 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)

[부록] 전체 연구 주제 목록

※ 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

1 DESTINATION BIODIV [생물다양성]

○ HORIZON-CL6-2025-01-BIODIV-XX

공고 번호	유형	주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
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	12	24
05	RIA	Assessing and modelling ecosystems' dynamic processes to guide restoration activities and to improve models used for climate	3	5	15
06	RIA	Assessing and modelling socio-economic impacts of nature restoration	3	5-6	16

공고 번호	유형	주제 (topic)	과제 수 (건)	과제당 예산 (백만 €)	총 예산 (백만 €)
07	RIA	Living labs and lighthouses co-creating innovative solutions for forests and freshwater ecosystems restoration	2	6	12
08	RIA	Integrated and coordinated approaches for coral reefs and associated ecosystems (mangroves and seagrass beds) conservation, restoration, and adaptation potential	2	6	12
09	RIA	Strengthening pathways to alternative socio-economic models for continuous improvement of biodiversity	2	7	14
10	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
11	RIA	Supporting the implementation of nature restoration measures for the social, economic and environmental sustainability of farming systems	2	5-6	11
12	RIA	Breeding for resilience: enhancing multistress tolerance in crops	2	7	14
총 12개 주제 / 24개 과제 / 172백만 유로					

2 DESTINATION FARM2FORK [식품 시스템]

○ HORIZON-CL6-2025-02-FARM2FORK-XX

광고 번호	유형	주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
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
05	RIA	Emerging and future risks to plant health	2	6	12
06	RIA	Developing innovative phytosanitary measures for plant health – focus on systems approach for pest risk management	2	6	12
07	RIA	Improving grassland management in European livestock farming systems	2	8	16
08	RIA	Fostering animal breeding and genetics for climate change adaptation and mitigation, improved robustness and resilience	2	6	12

공고 번호	유형	주제 (topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
09	IA	Innovating for on-farm post-harvest operations, storage and transformation of crops into food and non-food products	2	6	12
10	RIA	Exploring the potential of controlled environment agriculture (CEA)	1	6	12
Enabling sustainable fisheries and aquaculture					
11	IA	Diversifying aquaculture production with emphasis on low-trophic species	2	6	6
12	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					
13	RIA	Nutrition and Mental Health	2	5	10
14	CSA	Raising citizen awareness on alternative proteins derived from biotechnology	1	2	2
15	IA	Nutrients produced by microbes utilising CO2 from the air, with the support of biotechnology	2	6	12
16	IA	Making food systems more resilient to food safety risks through the deployment of technological solutions	2	6	12
17	RIA	Research and innovation for food waste prevention and reduction at household level through measurement, monitoring and new technologies	2	4	8
18	COF UND	Additional activities of the European partnership on sustainable food systems for people, planet and climate	1	35	35

공고 번호	유형	주제 (topic)	과제 수 (건)	과제당 예산 (백만 €)	총 예산 (백만 €)
Targeted international cooperation					
19	RIA	Developing agroecology living labs and lighthouses under the Food and Nutrition Security and Sustainable Agriculture (FNSSA) partnership	2	6	12
20	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
21	RIA	Nutrition in emergency situations – Ready-to-use Supplementary Food (RUSF) and Ready-to-use Therapeutic Food (RUTF)	2	4	8
총 21개 주제 / 36개 과제 / 292백만 유로					

3 DESTINATION CIRCBIO [순환경제 및 바이오경제]

○ HORIZON-CL6-2025-01-CIRCBIO-XX

광고 번호	유형	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	IA	Open Topic: Innovative solutions for the sustainable and circular transformation of SMEs	2	5	10
07	RIA	Indicators for the transition to sustainable and circular economy	2	4	8
08	IA	Demonstration, deployment and upscaling of circular systemic solutions in cities and regions (Circular Cities and Regions Initiative)	2	9	18

공고 번호	유형	주제 (topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Innovating for sustainable bio-based systems, biotechnology and the bioeconomy					
09	IA	Bioprospecting and optimized production of the terrestrial natural products: new opportunities for bio-based sectors	2	5.5	11
10	IA	Unleashing the potential and advancing the impact of the digitalization/AI of the bio-based value chains	2	5	10
11	CSA	Support to the EU Biotechnology and Biomanufacturing Initiative: scoping action	1	2	2
12	IA	Demonstration of reduced energy use and optimised flexible energy supply for industrial bio-based systems	2	5.5	11
13	CSA	Harmonizing and optimising composting plants performances in Europe	1	2	2
14	RIA	Reconstructing areas affected by conflicts: the role of the bio-based solutions	2	4	8
Innovating for blue bioeconomy and biotechnology value chains					
15	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					
16	COF UND	European partnership: Forests and Forestry for a Sustainable Future	1	30	30
총 16개 주제 / 29개 과제 / 170백만 유로					

4 DESTINATION ZEROPOLLUTION [무공해 청정환경]

○ HORIZON-CL6-2025-01-ZEROPOLLUTION-XX

공고 번호	유형	주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
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	IA	Substances of concern and emerging pollutants from bio-based industries and products: mapping and replacement	2	5	10
04	RIA	Environmental biotechnology applications in service of remediation of polluted ecosystems	2	4	8
05	RIA	Towards a comprehensive European strategy to assess and monitor aquatic litter including plastic and microplastic pollution	1	6	6
06	RIA	Cumulative impacts of marine pollution on marine organisms and ecosystems	2	6	12
07	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
08	IA	Reducing pollution from the food and drink industries	2	6	12
총 8개 주제 / 12개 과제 / 68백만 유로					

5 DESTINATION CLIMATE [기후 - 육지, 해양, 물]

○ HORIZON-CL6-2025-02-CLIMATE-XX

공고 번호	유형	주제 (topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
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
04	RIA	Monitoring, reporting, verification and mitigation of non-CO2 greenhouse gas emissions and related air pollutants from agriculture	2	6	12
05	IA	Strengthening the resilience of water systems and water sector to climate and global socio-economic change impacts	3	6	18
06	COF UND	Additional activities for the European Partnership Water Security for the Planet (Water4All)	1	23	23
총 6개 주제 / 13개 과제 / 94.5백만 유로					

6 DESTINATION COMMUNITIES [지역 커뮤니티]

○ HORIZON-CL6-2025-02-COMMUNITIES-XX

광고 번호	유형	주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
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
총 6개 주제 / 11개 과제 / 37백만 유로					

7 DESTINATION GOVERNANCE (거버넌스, 환경 관측, 디지털 솔루션)

○ HORIZON-CL6-2025-03-GOVERNANCE-XX

광고 번호	유형	주제(topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
Innovating with governance models and supporting policies					
01	RIA	Improving understanding and analytical capacity of farmers bargaining power and interactions with the upstream and downstream operators in the agriculture and food value chains	1	6	6
02	IA	Upscaling payments for environmental services with result-based, collective or spatially coordinated approaches for more support targeted towards 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	1	6	6
04	RIA	Operationalisation of bioeconomy sustainability principles	1	4.5	4.5
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

공고 번호	유형	주제 (topic)	과제 수 (건)	과제당 예산 (백만€)	총 예산 (백만€)
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 sustainable rural development through digital twins for rural communities, agriculture and forestry	2	6	12
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	7	7
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	5	5
15	CSA	Supporting the implementation of Horizon projects with multi-actor approach (MAA) and boosting the use of their results in practice	1	6	6
총 15개 주제 / 21개 과제 / 119.9백만 유로					