

ID	Title	Areas of expertise	Keywords	Link
CA23104	Water4Reuse: Mainstreaming water reuse into the circular economy paradigm	1. Earth and related Environmental sciences: Hydrology, water resources 2. Environmental biotechnology: Environmental biotechnology, e.g. bioremediation, biodegradation 3. Environmental engineering Sustainable engineering	1. water recycling and reuse 2. water resource management 3. wastewater treatment technology 4. sanitary and environmental risk assessment 5. water stress 4. Economics and business: Consumer choice, behavioural economics 5. Economics and business: Sustainability	<a href="https://www.cost.eu/actions/CA23104/">https://www.cost.eu/actions/CA23104/</a>
CA23106	AFFECT-EVO: An Evolutionary View to Understanding Affective States across Species	1. Biological sciences: Zoology, including animal behaviour 2. Basic medicine: Evolution of mind and cognitive functions 3. Basic medicine: Comparative physiology 4. Basic medicine: Cognition (e.g. learning, memory, emotions, speech) 5. Philosophy, Ethics and Religion: Epistemology, logic, philosophy of science and technology	1. Evolution of Affective States 2. Comparative Psychology 3. Affective Science 4. Animal Welfare 5. Affective Disorders	<a href="https://www.cost.eu/actions/CA23106/">https://www.cost.eu/actions/CA23106/</a>
CA23107	EU-NESA: Network for Evidence Synthesis in The Agri-Food Sector	1. Agriculture, Forestry, and Fisheries: Sustainable Agriculture 2. Computer and Information Sciences: Theoretical aspects of data curation, data mining and database handling	1. evidence synthesis 2. systematic review 3. agri-food systems 4. knowledge synthesis 5. decision making	<a href="https://www.cost.eu/actions/CA23107/">https://www.cost.eu/actions/CA23107/</a>
CA23108	MEDUSSE: Seasonal-to-decadal climate predictability in the Mediterranean: process understanding and services	1. Earth and related Environmental sciences: Climatology and climate change 2. Earth and related Environmental sciences: Meteorology, atmospheric physics and dynamics	1. climate variability 2. climate predictability 3. climate prediction 4. climate services	<a href="https://www.cost.eu/actions/CA23108/">https://www.cost.eu/actions/CA23108/</a>
CA23110	INFOGUT: International networking on in vitro colon models simulating gut microbiota mediated interactions	1. Health Sciences: Nutrition and dietetics 2. Clinical medicine: Gastroenterology and hepatology 3. Biological sciences: Biological systems analysis, modelling and simulation 4. Clinical medicine: Bacteriology 5. Biological sciences: Metabolomics	1. in vitro gut microbiota colon models 2. 3R principles 3. personalised medicine 4. omics 5. bioinformatic tools	<a href="https://www.cost.eu/actions/CA23110/">https://www.cost.eu/actions/CA23110/</a>
CA23111	SNOOPY: Searching for Nanostructured or pOre fORMing Peptides for therapY	1. Chemical sciences: Supramolecular chemistry 2. Nano-technology: Nano-technology for pharmaceutical applications 3. Biological sciences: Biophysics	1. peptides 2. nanostructures 3. antimicrobial 4. amyloids 5. self-assembly	<a href="https://www.cost.eu/actions/CA23111/">https://www.cost.eu/actions/CA23111/</a>
CA23113	CliMent: Climate change impacts on mental health in Europe	1. Health Sciences: Public and environmental health 2. Psychology: Social psychology 3. Earth and related Environmental sciences: Climatology and climate change 4. Clinical medicine: Psychiatry	1. Climate Change 2. Mental Health 3. Public Health 4. Europe	<a href="https://www.cost.eu/actions/CA23113/">https://www.cost.eu/actions/CA23113/</a>
CA23116	PalaeOpen: Open Palaeoecological Data - analysing the past building foresight	1. Earth and related Environmental sciences: Paleoclimatology, paleoecology	1. Quaternary 2. Ecosystem analysis 3. Global change 4. Open Data	<a href="https://www.cost.eu/actions/CA23116/">https://www.cost.eu/actions/CA23116/</a>
CA23119	SENESCENCE2030: Targeting Cell Senescence to Prevent Age-Related Diseases	1. Biological sciences: Cell signalling and cellular interactions 2. Basic medicine: Metabolism, biological basis of metabolism related disorders 3. Clinical medicine: Non-communicable diseases 4. Economics and business: Public economics, political economics	1. ageing 2. healthspan 3. gero-diagnostic 4. senotherapies 5. cell senescence diseases	<a href="https://www.cost.eu/actions/CA23119/">https://www.cost.eu/actions/CA23119/</a>
CA23121	GENOA: Genetic Nature Observation and Action	1. Biological sciences: Conservation biology, ecology, genetics 2. Biological sciences: Population biology, population dynamics, population genetics, plant-animal interactions 3. Biological sciences: Biodiversity, comparative biology 4. Biological sciences: Environmental and marine biology	1. Genetic Diversity 2. Biodiversity Monitoring 3. Ecosystem Resilience 4. Capacity Building 5. Co-creation	<a href="https://www.cost.eu/actions/CA23121/">https://www.cost.eu/actions/CA23121/</a>

CA23122	10kLepGenomes: Utilizing 10,000 genomes of European Lepidoptera	1. Biological sciences: Genomics, comparative genomics, functional genomics 2. Biological sciences: Biodiversity, comparative biology 3. Biological sciences: Systems evolution, biological adaptation, phylogenetics, systematics	1. Lepidoptera 2. evolutionary genomics 3. population genomics 4. conservation genomics	<a href="https://www.cost.eu/actions/CA23122/">https://www.cost.eu/actions/CA23122/</a>
CA23123	weedingMAPs: Non-chemical weed management in medicinal and aromatic plants (MAPs)	1. Agriculture, Forestry, and Fisheries: Sustainable Agriculture 2. Agriculture, Forestry, and Fisheries: Agriculture related to crop production, soil biology and cultivation, applied plant biology, crop protection 3. Mechanical engineering: Product design, ergonomics, mechanical engineering aspects of man-machine interfaces	1. mechanical weeding 2. innovative weeding technologies 3. organic herb production	<a href="https://www.cost.eu/actions/CA23123/">https://www.cost.eu/actions/CA23123/</a>
CA23127*	GIN-TONIC: Group on Insect Nutrition: To Open Nutritional Innovative Challenges	1. Animal and dairy science: Agriculture related to animal husbandry, dairying, livestock raising, animal welfare 2. Other agricultural sciences: Sustainable production 3. Biological sciences: Zoology, including animal behaviour 4. Agricultural biotechnology: Other bioproducts (products manufactured using biological material as feedstock)	1. Circular economy 2. Animal nutrition 3. Nutritional requirements 4. Entomology	<a href="https://www.cost.eu/actions/CA23127/">https://www.cost.eu/actions/CA23127/</a>
CA23131*	ICPLASTIC: ISO compatible, efficient and reproducible protocols/equipment for mICro-nanoPLASTIC detection through machine-learning	1. Environmental engineering: Water management and technology 2. Nano-technology: Optics, non-linear optics for nano-technology applications 3. Chemical sciences: Spectroscopic and spectrometric techniques 4. Chemical engineering: Characterization methods of materials 5. Chemical sciences: Electrochemistry, electrodialysis, microfluidics, sensors	1. Microplastics 2. ISO 3. Machine learning 4. environmental, drinking and bottled water 5. analytical techniques	<a href="https://www.cost.eu/actions/CA23131/">https://www.cost.eu/actions/CA23131/</a>
CA23133	LILY: Large-scale Interdisciplinary Alliance on Nature-based Solutions and Health: Indicators, Inequality and Innovation	1. Health Sciences: Public and environmental health 2. Earth and related Environmental sciences: Databases, data mining, data curation, computational modelling 3. Civil engineering: Sustainable engineering, adaptation to long-term environmental changes 4. Biological sciences: Ecology 5. Political Science: Environmental regulations and climate negotiations (policy and political aspects)	1. One Health, health co-benefits and unintended consequences 2. Nature-based Solutions, monitoring, assessment, evaluation 3. Climate change, mitigation, sustainability, adaptation 4. Vulnerabilities, inequalities, spatio-temporal indicators 5. Technology-based monitoring, data and network platform	<a href="https://www.cost.eu/actions/CA23133/">https://www.cost.eu/actions/CA23133/</a>
CA23135	ARiF: Bringing Digital Data and Reality Together - Augmented Reality in Forestry	1. Agriculture, Forestry, and Fisheries: Forestry: fauna and flora 2. Other engineering and technologies: Sustainability for other engineering and technologies 3. Agriculture, Forestry, and Fisheries: Sustainable forest management 4. Agriculture, Forestry, and Fisheries: Biomass production from forestry	1. Forestry 2. Augmented Reality 3. Digital Transformation 4. Digital Forest Twin 5. Industry 4.0	<a href="https://www.cost.eu/actions/CA23135/">https://www.cost.eu/actions/CA23135/</a>
CA23139	Net4CleanAir: Network for Indoor Air Cleaning	1. Environmental engineering: Air pollution 2. Earth and related Environmental sciences: Atmospheric chemistry and composition	1. Indoor Air Pollution 2. Air Cleaning Technologies 3. Airborne contaminants 4. Healthy Buildings	<a href="https://www.cost.eu/actions/CA23139/">https://www.cost.eu/actions/CA23139/</a>
CA23148	INTUF: European Network for the Integrative Approach of Urban Forestry	1. Agriculture, Forestry, and Fisheries: Non wood forest products - environmental services	1. urban forestry 2. green cities 3. urban tree management 4. ecosystem services	<a href="https://www.cost.eu/actions/CA23148/">https://www.cost.eu/actions/CA23148/</a>

CA23150	EUROBIG: pan-EUROpean BioGeodynamics network	1. Earth and related Environmental sciences: Geology, tectonics, volcanology 2. Earth and related Environmental sciences: Climatology and climate change 3. Biological sciences: Biodiversity, comparative biology 4. Biological sciences: Biogeography 5. Earth and related Environmental sciences: Physics of earth's interior, seismology	1. Geodynamics 2. Life evolution 3. Atmosphere, ocean, climate evolution 4. Landscape evolution 5. Biodiversity	<a href="https://www.cost.eu/actions/CA23150/">https://www.cost.eu/actions/CA23150/</a>
CA23154*	ENVIRANT: Environmental impact of anthelmintics in livestock and alternatives to minimize their use	1. Veterinary science: Veterinary medicine (miscellaneous) 2. Earth and related Environmental sciences: Environment chemistry	1. Anthelmintics 2. Ecotoxicity 3. Livestock 4. Sustainable methods	<a href="https://www.cost.eu/actions/CA23154/">https://www.cost.eu/actions/CA23154/</a>
CA23157	MultiViewLCSA: European Network for Multiple View Life Cycle Sustainability Assessment	1. Environmental engineering: Environmental impact, Life Cycle Assessment 2. Computer and Information Sciences: Theoretical aspects of data curation, data mining and database handling 3. Economics and business: Sustainability 4. Electrical engineering, electronic engineering, Information engineering: Development of scientific computing, data processing, simulation and modelling tools 5. Sociology: Social structure, inequalities, social mobility, social exclusion, income distribution, poverty	1. Life Cycle Sustainability Assessment 2. Multiple View Modeling 3. Sustainable Business Models 4. Data Governance 5. Sustainable Development Goals	<a href="https://www.cost.eu/actions/CA23157/">https://www.cost.eu/actions/CA23157/</a>
CA23159	DeWaTra: Decarbonising Waterborne Transportation	1. Environmental engineering: Ocean engineering, sea vessels 2. Environmental engineering: Air pollution 3. Environmental engineering: Sustainable engineering 4. Mechanical engineering: Sustainable engineering 5. Civil engineering: Transport engineering	1. waterborne transportation 2. ship performance 3. energy efficiency 4. decarbonisation 5. greenhouse gas emissions	<a href="https://www.cost.eu/actions/CA23159/">https://www.cost.eu/actions/CA23159/</a>
CA23160	CYANOACTION: Effective Lake management: reducing cyanobacteria by actions in the catchment	1. Biological sciences: Environmental and marine biology 2. Agriculture, Forestry, and Fisheries: Sustainable Agriculture 3. Earth and related Environmental sciences: Terrestrial ecology, land cover change 4. Chemical sciences: Analytical chemistry	1. Cyanobacteria 2. Catchment 3. Bloom control 4. preventive control actions 5. curative control actions	<a href="https://www.cost.eu/actions/CA23160/">https://www.cost.eu/actions/CA23160/</a>
* Actions already with members of CESAM				