Consiglio Nazionale delle Ricerche

Nuovo sistema degli ambiti disciplinari per ricercatori e tecnologi del Consiglio Nazionale delle Ricerche

Il Consiglio di Amministrazione nella riunione del 30 aprile 2024, ha adottato all'unanimità dei presenti la seguente deliberazione n. 126/2024 – Verb. 498

IL CONSIGLIO DI AMMINISTRAZIONE

VISTO il Decreto Legislativo del 4 giugno 2003, n. 127 recante "*Riordino del Consiglio Nazionale delle Ricerche*";

VISTO il Decreto Legislativo 31 dicembre 2009, n. 213 "*Riordino degli Enti di Ricerca in attuazione dell'art. 1 della Legge 27 settembre 2007, n. 165*";

VISTO il Decreto Legislativo 25 novembre 2016, n. 218 recante "*Semplificazione delle attività degli Enti Pubblici di Ricerca ai sensi dell'articolo 13 della legge 7 agosto 2015, n. 124*";

VISTO lo Statuto del Consiglio Nazionale delle Ricerche, emanato con provvedimento del Presidente n. 93, prot. AMMCNT-CNR n. 0051080 del 19 luglio 2018, di cui è stato dato l'avviso di pubblicazione sul sito del Ministero dell'Istruzione, dell'Università e della Ricerca in data 25 luglio 2018, entrato in vigore in data 1° agosto 2018;

VISTO il Regolamento di organizzazione e funzionamento del Consiglio Nazionale delle Ricerche, emanato con provvedimento del Presidente n. 14, prot. AMMCNT-CNR n. 0012030 del 18 febbraio 2019, di cui è stato dato l'avviso di pubblicazione sul sito del Ministero dell'Istruzione, dell'Università e della Ricerca, in data 19 febbraio 2019, entrato in vigore in data 1° marzo 2019;

VISTA la Legge 30 dicembre 2021, n. 234 "Bilancio di previsione dello Stato per l'anno finanziario 2022 e bilancio pluriennale per il triennio 2022-2024";

VISTO in particolare l'art. 1, comma 315 della succitata Legge, che dispone l'adozione di un "Piano di riorganizzazione e rilancio del Consiglio Nazionale delle Ricerche (CNR)" da parte dell'Ente entro sei mesi dall'entrata in vigore della Legge di Bilancio 2022;

VISTA la delibera n. 201 adottata dal Consiglio di amministrazione nella seduta del 28 giugno 2022 di approvazione del Piano di riorganizzazione e rilancio del Consiglio Nazionale delle Ricerche (CNR);

VISTA la delibera n. 256 adottata dal Consiglio di Amministrazione nella riunione del 13 settembre 2022, con cui è stata approvata la rimodulazione del Piano di riorganizzazione e rilancio del CNR;

CONSIDERATO che uno degli obiettivi strategici del Piano di Riorganizzazione e Rilancio del CNR riguarda la riforma del sistema organizzativo della ricerca il quale sarà basato su un sistema di Ambiti Disciplinari ispirati alla struttura dei Panel dello European Research Council;

RILEVATO che tale innovazione è considerata una delle componenti primarie per ottenere una organizzazione scientifica più aperta alla interdisciplinarietà, più flessibile e che consenta maggiore libertà di ricerca alla rete scientifica del CNR;

VISTO il processo di revisione degli Ambiti Disciplinari che ha coinvolto i Direttori di Dipartimento, i Consigli Scientifici di Dipartimento ed i Direttori di Istituto;

VISTA la documentazione presentata dai Direttori di Dipartimento, contenenti proposte di integrazione di ambiti già esistenti oltre all'aggiunta di nuovi ambiti;

VISTO il parere del Consiglio Scientifico della seduta del 18 marzo 2024 dove si ritiene che le proposte di modifica ed integrazione al sistema di ambiti disciplinari ispirati alla struttura dei Panel dello European Research Council, presentate dai Direttori di Dipartimento, appaiono troppo frammentate e si raccomanda quindi che il Consiglio Nazionale delle Ricerche adotti un sistema con ambiti più ampi, che ricalchino il sistema ERC.

CONSIDERATO inoltre che il Consiglio Scientifico ha rielaborato le proposte pervenute dai Direttori di Dipartimento al fine di confluirle in macrosettori più ampi, oltre che ad evitare sovrapposizioni con settori già ampiamente rappresentati.

VISTO il parere del Consiglio Scientifico della seduta del 22 aprile 2024 di proposta ed approvazione del Nuovo sistema degli ambiti disciplinari per ricercatori e tecnologi del Consiglio Nazionale delle Ricerche;

CONSIDERATO che in corso di riunione, il Consiglio di Amministrazione, ha proposto una ulteriore integrazione agli ambiti disciplinari proposti;

RAVVISATA la necessità di provvedere;

DELIBERA

1. Di approvare il documento relativo al "Nuovo sistema degli ambiti disciplinari per ricercatori e tecnologi del Consiglio Nazionale delle Ricerche", di cui all'allegato parte integrante della presente deliberazione.

2. Di dare mandato ai competenti uffici dell'Amministrazione di porre in atto tutte le procedure conseguenti alla presente deliberazione.

LA PRESIDENTE
F.to digitalmente Maria Chiara Carrozza

IL SEGRETARIO
F.to digitalmente Laura Ravazzi

VISTO DIRETTORE GENERALE
F.to digitalmente Giuseppe Colpani

ALLEGATO

Physical Sciences and Engineering

PE1	Mathematics
COD. ERC	**NOME FUTURO AMBITO CNR**
PE1_1	Logic and foundations
PE1_2	Algebra
PE1_3	Number theory
PE1_4	Algebraic and complex geometry
PE1_5	Lie groups, Lie algebras
PE1_6	Geometry and global analysis
PE1_7	Topology
PE1_8	Analysis
PE1_9	Operator algebras and functional analysis
PE1_10	ODE and dynamical systems
PE1_11	Theoretical aspects of partial differential equations
PE1_12	Mathematical physics
PE1_13	Probability
PE1_14	Mathematical statistics
PE1_15	Generic statistical methodology and modelling
PE1_16	Discrete mathematics and combinatorics
PE1_17	Mathematical aspects of computer science
PE1_18	Numerical analysis
PE1_19	Scientific computing and data processing
PE1_20	Control theory, optimisation and operational research
PE1_21	Application of mathematics in sciences
PE1_22	Application of mathematics in industry and society

PE2	Fundamental Constituents of Matter
COD. ERC	**NOME FUTURO AMBITO CNR**
PE2_1	Theory of fundamental interactions
PE2_2	Phenomenology of fundamental interactions
PE2_3	Experimental particle physics with accelerators
PE2_4	Experimental particle physics without accelerators
PE2_5	Classical and quantum physics of gravitational interactions
PE2_6	Nuclear, hadron and heavy ion physics
PE2_7	Nuclear and particle astrophysics
PE2_8	Gas and plasma physics
PE2_9	Electromagnetism
PE2_10	Atomic, molecular physics
PE2_11	Ultra-cold atoms and molecules
PE2_12	Optics, non-linear optics and nano-optics
PE2_13	Quantum optics and quantum information
PE2_14	Lasers, ultra-short lasers and laser physics
PE2_15	Thermodynamics

PE2_16	Non-linear physics
PE2_17	Metrology and measurement
PE2_18	Equilibrium and non-equilibrium statistical mechanics: steady states and dynamics
------	Nuclear Fusion Science and Technology

PE3	Condensed Matter Physics
COD. ERC	**NOME FUTURO AMBITO CNR**
PE3_1	Structure of solids, material growth and characterization
PE3_2	Mechanical and acoustical properties of condensed matter, lattice dynamics
PE3_3	Transport properties of condensed matter
PE3_4	Electronic properties of materials, surfaces, interfaces, nanostructures
PE3_5	Physical properties of semiconductors and insulators
PE3_6	Macroscopic quantum phenomena, e.g. superconductivity, superfluidity, quantum Hall effect
PE3_7	Spintronics
PE3_8	Magnetism and strongly correlated systems
PE3_9	Condensed matter – beam interactions (photons, electrons, etc.)
PE3_10	Nanophysics, e.g. nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics
PE3_11	Mesoscopic quantum physics and solid-state quantum technologies
PE3_12	Molecular electronics
PE3_13	Structure and dynamics of disordered systems, e.g. soft matter (gels, colloids, liquid crystals), active matter, granular matter, liquids, glasses, defects
PE3_14	Fluid dynamics (physics)
PE3_15	Statistical physics: phase transitions, condensed matter systems, models of complex systems, interdisciplinary applications, e.g. economic complexity, network science, opinion dynamics
PE3_16	Physics of biological systems
------	Computational physics, modeling and simulation of matter, materials and biosystems
------	Physics for cultural heritage and environment
------	Physics for the energy and green transitions

PE4	Physical and Analytical Chemical Sciences
COD. ERC	**NOME FUTURO AMBITO CNR**
PE4_1	Physical chemistry
PE4_2	Spectroscopic and spectrometric techniques
PE4_3	Molecular architecture and Structure
PE4_4	Surface science and nanostructures
PE4_5	Analytical chemistry
PE4_6	Chemical physics
PE4_7	Chemical instrumentation
PE4_8	Electrochemistry, electrodialysis, microfluidics, sensors
PE4_9	Method development in chemistry
PE4_10	Heterogeneous catalysis
PE4_11	Physical chemistry of biological systems
PE4_12	Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions
PE4_13	Theoretical and computational chemistry
PE4_14	Radiation and Nuclear chemistry
PE4_15	Photochemistry

PE4_16	Corrosion
PE4_17	Characterisation methods of materials
PE4_18	Environment chemistry
------	Chemistry for energy

PE5 Synthetic Chemistry and Materials

COD. ERC	NOME FUTURO AMBITO CNR
PE5_1	Structural properties and characterization of materials
PE5_2	Solid state materials chemistry
PE5_3	Surface modification
PE5_4	Thin films
PE5_5	Ionic liquids
PE5_6	New materials: oxides, alloys, composite, organic-inorganic hybrid, nanoparticles
PE5_7	Biomaterials synthesis
PE5_8	Intelligent materials synthesis – self assembled materials
PE5_9	Coordination chemistry
PE5_10	Colloid chemistry
PE5_11	Biological chemistry and chemical biology
PE5_12	Chemistry of condensed matter
PE5_13	Homogeneous catalysis and biocatalysis
PE5_14	Macromolecular chemistry
PE5_15	Polymer chemistry
PE5_16	Supramolecular chemistry
PE5_17	Organic and bioorganic chemistry
PE5_18	Medicinal chemistry
------	Green chemistry and circular economy

PE6 Computer Science and Informatics

COD. ERC	NOME FUTURO AMBITO CNR
PE6_1	Computer architecture, embedded systems, operating systems, pervasive systems
PE6_2	Distributed systems, parallel computing, sensor networks, cyber-physical systems
PE6_3	Software engineering, programming languages and systems
PE6_4	Theoretical computer science, formal methods, automata
PE6_5	Security, privacy, cryptology, quantum cryptography
PE6_6	Algorithms and complexity, distributed, parallel and network algorithms, algorithmic game theory
PE6_7	Artificial intelligence, intelligent systems, natural language processing
PE6_8	Computer graphics, computer vision, multimedia, computer games
PE6_9	Human computer interaction and interface, visualisation
PE6_10	Web and information systems, data management systems, information retrieval and digital libraries, data fusion
PE6_11	Machine learning, statistical data processing and applications using signal processing (e.g. speech, image, video)
PE6_12	Scientific computing, simulation and modelling tools
PE6_13	Bioinformatics, bio-inspired computing, and natural computing
PE6_14	Quantum computing (formal methods, algorithms and other computer science aspects)

PE7	Systems and Communication Engineering
COD. ERC	**NOME FUTURO AMBITO CNR**
PE7_1	Control engineering
PE7_2	Electrical engineering: power components and/or systems
PE7_3	Simulation engineering and modelling
PE7_4	(Micro-, nano-, and bio-) systems engineering
PE7_5	(Micro-, nano- and bio-) electronic, optoelectronic and photonic components
PE7_6	Communication systems, wireless technology, high-frequency technology
PE7_7	Signal processing
PE7_8	Networks, e.g. communication networks and nodes, Internet of Things, sensor networks, networks of robots
PE7_9	Man-machine interfaces
PE7_10	Robotics
PE7_11	Components and systems for applications (in e.g. medicine, biology, environment)
PE7_12	Electrical energy production, distribution, applications

PE8	Products and Processes Engineering
COD. ERC	**NOME FUTURO AMBITO CNR**
PE8_1	Aerospace engineering
PE8_2	Chemical engineering, technical chemistry
PE8_3	Civil engineering, architecture, offshore construction, lightweight construction, geotechnics
PE8_4	Computational engineering
PE8_5	Fluid mechanics
PE8_6	Energy processes engineering
PE8_7	Mechanical engineering
PE8_8	Propulsion engineering, e.g. hydraulic, turbo, piston, hybrid engines
PE8_9	Production technology, process engineering
PE8_10	Manufacturing engineering and industrial design
PE8_11	Environmental engineering, e.g. sustainable design, waste and water treatment, recycling, regeneration or recovery of compounds, carbon capture & storage
PE8_12	Naval/marine engineering
PE8_13	Industrial bioengineering
PE8_14	Automotive and rail engineering; multi-/inter-modal transport engineering

PE9	Universe Sciences
COD. ERC	**NOME FUTURO AMBITO CNR**
PE9_1	Solar physics – the Sun and the heliosphere
PE9_2	Solar system science
PE9_3	Exoplanetary science, formation and characterization of extrasolar planets
PE9_4	Astrobiology and astrochemistry
PE9_5	Interstellar medium and star formation
PE9_6	Stars – stellar physics, stellar systems
PE9_7	The Milky Way
PE9_8	Galaxies – formation, evolution, clusters
PE9_9	Cosmology and large-scale structure, dark matter, dark energy
PE9_10	Relativistic astrophysics and compact objects

PE9_11	Gravitational wave astronomy
PE9_12	High-energy and particle astronomy
PE9_13	Astronomical instrumentation and data, e.g. telescopes, detectors, techniques, archives, analyses

PE10 Earth System Science

COD. ERC	NOME FUTURO AMBITO CNR
PE10_1	Atmospheric chemistry, atmospheric composition, air pollution
PE10_2	Meteorology, atmospheric physics and dynamics
PE10_3	Climatology and climate change
PE10_4	Terrestrial ecology, land cover change
PE10_5	Geology, tectonics, volcanology
PE10_6	Palaeoclimatology, palaeoecology
PE10_7	Physics of earth's interior, seismology, geodynamics
PE10_8	Oceanography (physical, chemical, biological, geological)
PE10_9	Biogeochemistry, biogeochemical cycles, environmental chemistry
PE10_10	Mineralogy, petrology, igneous petrology, metamorphic petrology
PE10_11	Geochemistry, cosmochemistry, crystal chemistry, isotope geochemistry, thermodynamics
PE10_12	Sedimentology, soil science, palaeontology, earth evolution
PE10_13	Physical geography, geomorphology
PE10_14	Earth observations from space/remote sensing
PE10_15	Geomagnetism, palaeomagnetism
PE10_16	Ozone, upper atmosphere, ionosphere
PE10_17	Hydrology, hydrogeology, engineering and environmental geology, water and soil pollution
PE10_18	Cryosphere, dynamics of snow and ice cover, sea ice, permafrosts and ice sheets
PE10_19	Planetary geology and geophysics
PE10_20	Geohazards
PE10_21	Earth system modelling and interactions

PE11 Materials Engineering

COD. ERC	NOME FUTURO AMBITO CNR
PE11_1	Engineering of biomaterials, biomimetic, bioinspired and bio-enabled materials
PE11_2	Engineering of metals and alloys
PE11_3	Engineering of ceramics and glasses
PE11_4	Engineering of polymers and plastics
PE11_5	Engineering of composites and hybrid materials
PE11_6	Engineering of carbon materials
PE11_7	Engineering of metal oxides
PE11_8	Engineering of alternative established or emergent and textile materials also for innovative membranes
PE11_9	Nanomaterials engineering, e.g. nanoparticles, nanoporous materials, 1D & 2D nanomaterials
PE11_10	Soft materials engineering, e.g. gels, foams, colloids
PE11_11	Porous materials engineering, e.g. covalent-organic, metal-organic, inorganic, porous aromatic frameworks
PE11_12	Semi-conducting and magnetic materials engineering
PE11_13	Metamaterials engineering

PE11_14	Computational methods for materials engineering
------	Engineering of materials for green energy applications
------	Engineering of functional materials

Life Sciences

LS1	Molecules of Life: Biological Mechanisms, Structures and Functions
COD. ERC	**NOME FUTURO AMBITO CNR**
LS1_1	Macromolecular complexes including interactions involving nucleic acids, proteins, peptides, lipids and carbohydrates
LS1_2	Biochemistry
LS1_3	DNA and RNA biology
LS1_4	Protein biology
LS1_5	Lipid biology
LS1_6	Glycobiology
LS1_7	Molecular biophysics, biomechanics, bioenergetics
LS1_8	Structural biology, peptides and peptidomimetics
LS1_9	Molecular mechanisms of signalling processes
LS1_10	Synthetic biology
LS1_11	Chemical biology
LS1_12	Protein design
LS1_13	Early translational research and drug design
LS1_14	Innovative methods and modelling in molecular, structural and synthetic biology

LS2	Integrative Biology: from Genes and Genomes to Systems
COD. ERC	**NOME FUTURO AMBITO CNR**
LS2_1	Genetics
LS2_2	Gene editing
LS2_3	Epigenetics
LS2_4	Gene regulation
LS2_5	Genomics and non-coding RNAs
LS2_6	Metagenomics
LS2_7	Transcriptomics
LS2_8	Proteomics
LS2_9	Metabolomics
LS2_10	Glycomics/Lipidomics
LS2_11	Bioinformatics and computational biology
LS2_12	Biostatistics
LS2_13	Systems biology
LS2_14	Genetic diseases
LS2_15	Integrative biology for personalised medicine
LS2_16	Innovative methods and modelling in integrative biology

LS3 Cellular, Developmental and Regenerative Biology

COD.ERC	NOME FUTURO AMBITO CNR
LS3_1	Cell cycle, cell division and growth
LS3_2	Cell senescence, cell death, autophagy, cell ageing
LS3_3	Cell behaviour, including control of cell shape, cell migration
LS3_4	Cell junctions, cell adhesion, the extracellular matrix, cell communication
LS3_5	Cell signalling and signal transduction, exosome biology
LS3_6	Organelle biology and trafficking
LS3_7	Mechanobiology of cells, tissues and organs
LS3_8	Embryogenesis, pattern formation, morphogenesis
LS3_9	Cell differentiation, formation of tissues and organs
LS3_10	Developmental genetics
LS3_11	Evolution of developmental strategies LS3_12 Organoids
LS3_13	Stem cells
LS3_14	Regeneration
LS3_15	Development of cell-based therapeutic approaches for tissue regeneration
LS3_16	Functional imaging of cells and tissues
LS3_17	Theoretical modelling in cellular, developmental and regenerative biology

LS4 Physiology in Health, Disease and Ageing

COD. ERC	NOME FUTURO AMBITO CNR
LS4_1	Organ and tissue physiology and pathophysiology
LS4_2	Comparative physiology
LS4_3	Physiology of ageing
LS4_4	Endocrinology
LS4_5	Non-hormonal mechanisms of inter-organ and tissue communication
LS4_6	Microbiome and host physiology
LS4_7	Nutrition and exercise physiology, nutrition and human health (including molecular mechanisms of dietary components)
LS4_8	Impact of stress (including environmental stress) on physiology
LS4_9	Metabolism and metabolic disorders, including diabetes and obesity
LS4_10	The cardiovascular system and cardiovascular diseases
LS4_11	Haematopoiesis and blood diseases
LS4_12	Cancer
LS4_13	Other non-communicable diseases (except disorders of the nervous system and immunity-related diseases)

LS5 Neuroscience and Disorders of the Nervous System

COD. ERC	NOME FUTURO AMBITO CNR
LS5_1	Neuronal cells
LS5_2	Glial cells and neuronal-glial communication
LS5_3	Neural development and related disorders
LS5_4	Neural stem cells
LS5_5	Neural networks, plasticity and neuromodulation
LS5_6	Neurovascular biology and blood-brain barrier
LS5_7	Sensory systems, sensation and perception, including pain
LS5_8	Neural basis of behaviour

LS5_9	Neural basis of cognition
LS5_10	Ageing of the nervous system
LS5_11	Neurological and neurodegenerative disorders
LS5_12	Mental disorders
LS5_13	Nervous system injuries and trauma, stroke
LS5_14	Repair and regeneration of the nervous system
LS5_15	Neuroimmunology, neuroinflammation
LS5_16	Systems and computational neuroscience
LS5_17	Imaging in neuroscience
LS5_18	Innovative methods and tools for neuroscience

LS6 Immunity, Infection and Immunotherapy

COD. ERC	NOME FUTURO AMBITO CNR
LS6_1	Innate immunity
LS6_2	Adaptive immunity
LS6_3	Regulation of the immune response
LS6_4	Immune-related diseases
LS6_5	Biology of pathogens (e.g. bacteria, viruses, parasites, fungi)
LS6_6	Infectious diseases
LS6_7	Mechanisms of infection
LS6_8	Biological basis of prevention and treatment of infection
LS6_9	Antimicrobials, antimicrobial resistance
LS6_10	Vaccine development
LS6_11	Innovative immunological tools and approaches, including therapies

LS7 Prevention, Diagnosis and Treatment of Human Diseases

COD. ERC	NOME FUTURO AMBITO CNR
LS7_1	Medical imaging for prevention, diagnosis and monitoring of diseases
LS7_2	Medical technologies and tools (including genetic tools) for prevention, diagnosis, monitoring and treatment of diseases
LS7_3	Nanomedicine
LS7_4	Regenerative medicine
LS7_5	Applied gene, cell and immune therapies
LS7_6	Other medical therapeutic interventions, including transplantation and radiotherapy
LS7_7	Pharmacology and toxicology
LS7_8	Effectiveness of interventions, including resistance to therapies
LS7_9	Public health and epidemiology including clinical and behavioral studies
LS7_10	Preventative and prognostic medicine
LS7_11	Environmental health, occupational medicine
LS7_12	Health care, including care for the child, adolescent and ageing population
LS7_13	Palliative medicine
LS7_14	Digital medicine, e-medicine, health informatics, medical applications of artificial intelligence
LS7_15	Medical ethics
------	Psychosocial studies and health technologies

LS8 Environmental Biology, Ecology and Evolution

COD. ERC	NOME FUTURO AMBITO CNR
LS8_1	Ecosystem and community ecology, macroecology
LS8_2	Biodiversity
LS8_3	Conservation biology
LS8_4	Population biology, population dynamics, population genetics
LS8_5	Biological aspects of environmental change, including climate change
LS8_6	Evolutionary ecology
LS8_7	Evolutionary genetics
LS8_8	Phylogenetics, systematics, comparative biology
LS8_9	Macroevolution and paleobiology
LS8_10	Ecology and evolution of species interactions
LS8_11	Behavioural ecology and evolution
LS8_12	Microbial ecology and evolution
LS8_13	Marine biology and ecology
LS8_14	Ecophysiology, from organisms to ecosystems
LS8_15	Theoretical developments and modelling in environmental biology, ecology, and evolution
------	Forest ecology

LS9 Biotechnology and Biosystems Engineering

COD. ERC	NOME FUTURO AMBITO CNR
LS9_1	Bioengineering for synthetic and chemical biology
LS9_2	Applied genetics, gene editing and transgenic organisms
LS9_3	Bioengineering of cells, tissues, organs and organisms
LS9_4	Microbial biotechnology and bioengineering
LS9_5	Food technology, biotechnology and bioengineering
LS9_6	Marine biotechnology and bioengineering
LS9_7	Environmental biotechnology and bioengineering
LS9_8	Applied plant sciences, plant breeding, agronomy, agrobiodiversity, agroecology and soil biology
LS9_9	Plant pathology, environmental stress and pest resistance
LS9_10	Veterinary and applied animal sciences, livestock breeding
LS9_11	Biomass production and utilisation, biofuels**,** biomaterials
LS9_12	Ecotoxicology, biohazards and biosafety
------	Food quality, nutraceuticals, nutrition and consumer acceptance
------	Silviculture, urban forest and Nature Based Solutions

Social Sciences and Humanities

SH1 Individuals, Markets and Organisations

COD. ERC	NOME FUTURO AMBITO CNR
SH1_1	Macroeconomics; monetary economics; economic growth, labour economics
SH1_2	International trade; international business; spatial economics
SH1_3	Development economics political economics
SH1_4	Finance; financial markets

SH1_5	Corporate finance; international finance
SH1_6	Banking, insurance, Risk Management
SH1_7	Accounting, asset prices, auditing
SH1_8	Econometrics, game theory, decision theory
SH1_9	Behavioural economics; experimental economics; neuro-economics;
SH1_10	Microeconomics, industrial organisation, applied microeconomics
SH1_11	Innovation, R&D, Entrepreneurship, Knowledge economics
SH1_12	Management; operations management, international management; Network organization and management
SH1_13	Human resource management; organisational behaviour
SH1_14	Strategy, operation research
SH1_15	Marketing, consumer behaviour
SH1_16	Quantitative economic history, economic systems, institutional economics

SH2 Institutions, Governance and Legal Systems

COD. ERC	NOME FUTURO AMBITO CNR
SH2_1	Political systems, governance
SH2_2	Democratisation and social movements
SH2_3	Conflict resolution, war, peace building
SH2_4	Legal studies, comparative law, law and economics, agricultural and law
SH2_5	Constitutions, human rights, international law, European Union Law
SH2_6	International relations, global and transnational governance
SH2_7	Humanitarian assistance and development
SH2_8	Political and legal philosophy, political ecology
SH2_9	Digital and technological approaches to political science, justice administration and law

SH3 The Social World and Its Interactions

COD. ERC	NOME FUTURO AMBITO CNR
SH3_1	Social structure, social mobility, social innovation
SH3_2	Inequalities, discrimination, prejudice
SH3_3	Aggression and violence, antisocial behaviour, crime; cooperation studies
SH3_4	Social integration, exclusion, prosocial behaviour
SH3_5	Social conditioning, socialization, attitudes and beliefs
SH3_6	Social influence; power and group behaviour
SH3_7	Social policies, welfare, work and employment
SH3_8	Poverty and poverty alleviation
SH3_9	Technological, methodological and social aspects of teaching and learning, curriculum studies, education and educational policies
SH3_10	Communication and information, networks, media
SH3_11	Digital social research
SH3_12	Social studies on science and technology, social media and interaction among societal actors

SH4 The Human Mind and Its Complexity

COD. ERC	NOME FUTURO AMBITO CNR
SH4_1	Cognitive basis of human development, developmental disorders; comparative cognition, cognitive computing and modelling
SH4_2	Personality and social cognition; emotion
SH4_3	Clinical and health psychology
SH4_4	Neurocognitive psychology
SH4_5	Attention, perception, action, consciousness
SH4_6	Learning, memory; cognition in ageing
SH4_7	Reasoning, decision-making; intelligence
SH4_8	Language learning and processing (first and second languages); Multimodal communication
SH4_9	Theoretical linguistics; computational linguistics
SH4_10	Language typology; historical linguistics
SH4_11	Pragmatics, sociolinguistics, linguistic anthropology, discourse analysis

SH5 Texts and Concepts

COD. ERC	NOME FUTURO AMBITO CNR
SH5_1	Classics, ancient literature
SH5_2	Theory and history of literature, comparative literature
SH5_3	Book studies
SH5_4	Philology; text and image studies
SH5_5	Palaeography and codicology
SH5_6	Philosophy of mind, philosophy of language
SH5_7	Philosophy of science, epistemology, logic
SH5_8	Metaphysics, philosophical anthropology; aesthetics
SH5_9	Ethics and its applications; social philosophy
SH5_10	History of philosophy
SH5_11	Digital humanities; computational and digital approaches in the cultural sphere
------	Philosophy education

SH6 The Study of the Human Past

COD. ERC	NOME FUTURO AMBITO CNR
SH6_1	Archaeological methods and theory, history of archaeology
SH6_2	Prehistoric archaeology, archaeology of non-literate societies
SH6_3	Archaeology of early literate societies and early civilizations
SH6_4	Medieval and post-medieval archaeologies
SH6_5	Archaeological science, bioarchaeology, environmental archaeology, geoarchaeology
SH6_6	Digital, computational, virtual and geospatial archaeologies
SH6_7	Historiography, theory and methods of history, including the analysis of digital data
SH6_8	Ancient history, medieval history
SH6_9	Early modern, modern, and contemporary history
SH6_10	Colonial and post-colonial history
SH6_11	Global, transnational, and comparative history
SH6_12	Social, economic, religious and political history

SH6_13	Cultural history, intellectual history
SH6_14	History of science and technologies, environmental history

SH7 Human Mobility, Environment, and Space

COD. ERC	NOME FUTURO AMBITO CNR
SH7_1	Human, economic, social and historical geography
SH7_2	Migration and residential mobility
SH7_3	Population dynamics: households, family and fertility
SH7_4	Social aspects of health and wellbeing, including ageing, intergenerational studies, developmental health and society
SH7_5	Sustainability sciences, environment and resources, ecosystem services
SH7_6	Environmental and climate change; hazards, risks or disasters; societal impact and policy
SH7_7	Cities; urban, regional and rural studies
SH7_8	Land use and planning
SH7_9	Energy, transportation and mobility
SH7_10	GIS, spatial analysis; digital geography

SH8 Studies of Cultures and Arts

COD. ERC	NOME FUTURO AMBITO CNR
SH8_1	Kinship; diversity and identities, gender, interethnic relations
SH8_2	Religious studies, ritual; symbolic representation
SH8_3	Cultural studies and theory, cultural identities and memories, cultural heritage, architectural heritage
SH8_4	Museums, exhibitions, conservation and restoration
SH8_5	History of art and of architecture
SH8_6	Architecture, design, craft, heritage, knowledge, conservation, creative industries
SH8_7	Music and musicology; history of music
SH8_8	Visual and performing arts, screen, arts-based research
SH8_9	Digital approaches to anthropology, cultural studies and art
------	Science and Technologies for Cultural Heritage