

List of identified projects on national and European level

National projects

Country	Project ID	Project title	Project description, contacts
Lithuania	National research programme „Healthy Ageing“: SEN-16048	Smart Gerontechnology for Healthy Aging [Išmanioji gerontechnologija sveikam senėjimui]	habil. dr. Vita Lesauskaitė Lietuvos sveikatos mokslų universitetas (2016-2018)
Lithuania	National research programme „Healthy Ageing“: SEN-16074	Effects of air pollution on the lungs: monitoring indicators and regulation by phytochemicals [Oro taršos poveikiai plaučiuose: stebėsenos rodikliai ir reguliavimas fitocheminėmis medžiagomis]	dr. Rūta Aldonytė Valstybinis mokslinių tyrimų institutas Inovatyvios medicinos centras (2016-2018)
Lithuania	National Research Programme „Welfare Society“: GER-15056	Transformations in the older people care sector: the need for services, labor force and the quality of employment [Pagyvenusių žmonių globos sektoriaus transformacijos: paslaugų, darbo jėgos poreikis ir užimtumo kokybė]	habil. dr. Laimutė Žalimienė Vilniaus universitetas (2015-2017)
Lithuania	National Research Programme „Welfare Society“: GER-17001	Older people living alone: trends, profiles and challenges for the integration of generations [Vieni gyvenantys vyresnio amžiaus žmonės: tendencijos, profiliai ir iššūkiai kartų integracijai]	dr. Sarmitė Mikulionienė Lietuvos socialinių tyrimų centras (2017-2018)
Lithuania	European Social Fund under Global	“Air quality management in low energy buildings”	Kaunas University of technology (2013 – 2015) Dainius Martuzevicius dainius.martuzevicius@ktu.lt Andrius Jurelionis Andrius.jurelionis@ktu.lt Lina Seduikyte lina.seduikyte@ktu.lt

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	Grant Scheme Project		The selection of a ventilation strategy and air distribution method, as well as the air change rate, may affect both building energy consumption and indoor environmental health. The aim of this project was to examine the effect of various air supply strategies on the dispersion of aerosol particles in a full-scale test chamber by utilising highly time and size resolved measurements of aerosol concentration. The effectiveness of certain ventilation strategies were evaluated by several calculated indicators, such as the age of air and the particle removal efficiency.
Lithuania	EC Life+ program	Improving Energy Efficiency of Housing Stock: Impacts on Indoor Environmental Quality and Public Health in Europe (INSULATE) http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&n_proj_id=3725	Tampere University of Technology, Kaunas University of Technology, World Health Organization-European Centre for Environment and Health, (2010 – 2015) Ulla Haverinen-Shaughnessy ulla.haverinen-shaughnessy@thl.fi Dainius Martuzevicius dainius.martuzevicius@ktu.lt The INSULATE project focused on the assessment of national programmes to improve the energy performance of existing housing stock, including cost-effective and proven measures such as government-supported improvements in thermal insulation. The project's specific objectives included developing a common protocol for assessing the impacts of a building's energy performance on indoor environmental quality and health; establishing an integrated approach for the assessment of environmental and health information, including demonstrating the use of relevant environmental and health indicators; demonstrating the effects (both positive and negative) of energy efficiency on Indoor Environment Quality (IEQ) and health in up to three different European countries; developing guidelines to support the implementation of related policies; and facilitating transnational networking and the dissemination of information.
Lithuania	High-level R & D (SMART) the EU Structural Funds Investment Program for 2014-2020, measure 01.2.2-LMT-K-718 "Targeted research in the area of smart specialization", activity "Research carried out by high-level research teams" [2014–2020 metų ES fondų investicijų veiksmų programos priemonės 01.2.2-LMT-K-718 „Tiksliniai moksliniai tyrimai sumamos specializacijos srityje“ veiklos „Aukšto lygio tyrėjų grupių vykdomi moksliniai tyrimai“]		

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	01.2.2-LMT-K-718-01-0016	Hybrid air ventilation unit with superior functionality [Padidinto funkcionalumo hibridinis vėdinimo įrenginys]	Vytautas Martinaitis, Vilniaus Gedimino technikos universitetas
	01.2.2-LMT-K-718-01-0021	Creation of technology for wood-modifying, which is environmentally friendly and giving added value to products [Aplinką tausojančios ir produktams aukštesnę pridėtinę vertę suteikiančios medienos modifikavimo technologijos sukūrimas]	Marius Aleinikovas, Lietuvos agrarinių ir miškų mokslų centras
	01.2.2-LMT-K-718-01-0060	Complex research on complementary reality for socially disadvantaged persons (blind and visually impaired) [Papildančios tikrovės kompleksiniai tyrimai socialiai neįgaliesiems (akliems ir silpnaregiams)]	Darius Plikynas, Vilniaus Gedimino technikos universitetas
	P-REP-18-41	Citizens' opportunities to provide themselves with housing and measures to increase the availability of housing [Gyventojų galimybės apsirūpinti būstu ir priemonės būsto prieinamumui didinti]	Lietuvos energetikos institutas (2018-2019)
Portugal	PTDC/SAU - SAP/11656 3/2010	(2011-2015) GERIA - -Geriatric study in Portugal on Health Effects of Air Quality in Elderly Care Centers	National Institute of Health Dr. Ricardo Jorge, Porto, Portugal Institute of Public Health, University of Porto, Portugal Ana Mendes asestevao@gmail.com a.sofia.mendes@insa.min-saude.pt
	6/2018_CI E_6	(2019-2020) ConTerMa - Analysis of thermal comfort in nursing homes for the elderly in the cross-border cooperation area of Spain-Portugal. Funded by 'Fondo Europeo de Desarrollo Regional en el marco del Programa de Cooperación Interreg V-A España –	National Institute of Health Dr. Ricardo Jorge, Porto, Portugal Institute of Public Health, University of Porto, Portugal Ana Mendes asestevao@gmail.com a.sofia.mendes@insa.min-saude.pt Universitat Politècnica de Catalunya, Barcelona, Spain Nuria Forcada nuria.forcada@upc.edu

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		Portugal, (POCTEP) 2014-2020. Expediente: 6/2018_CIE_6'.	
	SFRH/BPD /100948/20 14	(2016-2020) BioFrail - An Exposome Approach to Frailty in Older Adults	National Institute of Health Dr. Ricardo Jorge, Porto, Portugal Institute of Public Health, University of Porto, Portugal Solange Costa solange.costa2@gmail.com solange.costa@insa.min-saude.pt

COST Actions

Project ID	Project title	Project description, contacts
CA15122	Reducing Old-Age Social Exclusion: Collaborations in Research and Policy (ROSEnet) (2016-2020)	<p>Reducing the number of people at risk of social exclusion is a headline target of the Europe 2020 strategy. Population ageing and low economic growth pose major challenges to meeting this target, emphasising the necessity to tackle old-age exclusion. While risks of exclusion of older people are widening and deepening, damaging gaps in understanding old-age exclusion exist across Europe. Existing knowledge is poorly developed, lacks synthesis and is spread across highly disparate disciplines. This Action aims to overcome fragmentation and critical gaps in conceptual innovation on old-age exclusion across the life course, in order to address the research-policy disconnect and tackle social exclusion amongst older people in Europe. The action will engage with researchers and policy stakeholders to develop shared understandings and to direct the development of new policy and practice interventions, that can be practically and effectively implemented, for reducing exclusion in diverse European ageing societies. The Action will establish an innovative participatory, interdisciplinary and cross-European collaboration that will: (1) synthesise existing knowledge; (2) critically investigate the construction of life-course old-age exclusion (3) assess the implications of old-age exclusion across the life course; (4) Develop new conceptual frameworks on old-age exclusion; and (5) identify innovative, and implementable, policy and practice for reducing old-age exclusion. The Action focuses on economic, social, service, civic rights, and community/spatial exclusion. With deliverables that include conferences, workshop-policy events, briefing papers, early-career investigator development, and a repository of innovative practice and policy, the Action will forge much-needed new links between research and policy, enhancing evidence-based and effective innovation.</p> <p>Dr Kieran WALSH</p>

		<p>Chair +35391495460 kieran.walsh@nuigalway.ie https://www.cost.eu/actions/CA15122/#tabs Name:overview</p>
219ter	<p>Accessibility for all to services and terminals for next generation networks (2003-2007)</p>	<p>The main objective of the Action is to increase the accessibility of next generation telecommunication network services and equipment to elderly people and people with disabilities by design or, alternatively, by adaptation when required. In cases where this cannot be achieved, the Action will aim at promoting the establishment of appropriate supplementary assistive services and equipment. Taking always into account the "Design for All" concept in telecommunications and teleinformatics, especially in the mobile field, the objectives of the Action can be specified in operational terms as follows: Information Collaction · Extend the existing COST 219 database and the knowledge required for designers on consumers and their requirements, so that many more disabled and elderly people can be catered for in mainstream design, · Support the exchange of Inclusion and Accessibility issues so that these can be freely explored with developers, researchers and representatives of the telecommunications industries and service providers, so that · disabled or elderly people are enabled to share in the benefits of new communication systems as discriminating consumers from the onset, but not being discriminated against.</p> <p>Mr Patrick ROE Chair +41 76 329 47 36 patrick.roe@epfl.ch https://www.cost.eu/actions/219ter/#tabs Name:overview</p>
TD1105	<p>European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability – EuNetAir (2012-2016)</p>	<p>This Action will focus on a new detection paradigm based on sensing technologies at low cost for Air Quality Control (AQC) and set up an interdisciplinary top-level coordinated network to define innovative approaches in sensor nanomaterials, gas sensors and devices, wireless sensor-systems, distributed computing, methods, models, standards and protocols for environmental sustainability within the European Research Area (ERA). The state-of-the-art showed that research on innovative sensing technologies for AQC based on advanced chemical sensors and sensor-systems at low-cost, including functional materials and nanotechnologies for eco-sustainability applications, the outdoor/indoor environment control, olfactometry, air-quality modelling, chemical weather forecasting, and related standardisation methods is performed already at the international level, but still needs serious efforts for coordination to boost new sensing paradigms for research and</p>

		<p>innovation. Only a close multidisciplinary cooperation will ensure cleaner air in Europe and reduced negative effects on human health for future generations in smart cities, efficient management of green buildings at low CO2 emissions, and sustainable economic development. The objective of the Action is to create a cooperative network to explore new sensing technologies for low-cost air-pollution control through field studies and laboratory experiments to transfer the results into preventive real-time control practises and global sustainability for monitoring climate changes and outdoor/indoor energy efficiency. Establishment of such a European network, involving Non-COST key-experts, will enable EU to develop world capabilities in urban sensor technology based on cost-effective nanomaterials and contribute to form a critical mass of researchers suitable for cooperation in science and technology, including training and education, to coordinate outstanding R&D and promote innovation towards industry, and support policy-makers.</p> <p>Dr Michele PENZA Chair +390831201422 michele.penza@enea.it https://www.cost.eu/actions/TD1105/#tabs Name:overview</p>
CA17136	Indoor Air Pollution Network (2018-2022)	<p>In developed countries, we spend 80-90% of our time indoors, where we receive most of our exposure to air pollution. However, regulation for air pollution focuses mainly on outdoors and the indoor environment is much less well characterised. The concentrations of many air pollutants can be higher indoors than out, particularly following activities such as cleaning and cooking. With increasing climate change impacts, related energy efficiency measures are making buildings considerably more airtight. Such measures can increase indoor pollutant concentrations even further. Therefore, to reduce our exposure to air pollution, we must consider both the indoor and outdoor environments and the role of ventilation, in order to mitigate through appropriate building operation, use and design.</p> <p>INDAIRPOLLNET (INDoor AIR POLLution NETwork) will improve our understanding of the cause of high concentrations of indoor air pollutants. It will assemble experts in laboratory and chamber experiments, modelling studies and measurements of relevance to indoor air quality (IAQ), including outdoor air chemists. Our network includes experts in chemistry, biology, standardisation, particulate matter characterisation, toxicology, exposure assessment, building materials (including those manufactured specifically to improve IAQ such as green materials), building physics and engineering (including ventilation and energy) and building design. This Action aims to significantly advance the field of indoor air pollution science, to highlight future research areas and to bridge the gap between research and business to identify appropriate</p>

		<p>mitigation strategies that optimise IAQ. The findings will be disseminated to relevant stakeholders such as architects, building engineers and instrument manufacturers.</p> <p>Dr Nicola CARSLAW Chair +441904324777 nicola.carslaw@york.ac.uk https://www.cost.eu/actions/CA17136/#tabs Name:overview</p>
CA16229	European Network for Environmental Citizenship (2017-2021)	<p>European Network for Environmental Citizenship (ENEC) aims to improve understanding and assessment of environmental citizenship in European societies and participating countries. Environmental Citizenship is a key factor in EU's growth strategy (Europe 2020) and its vision for Sustainable Development, Green and Cycle economy and Low-carbon society (EU-roadmap 2050). The Integrated Network of the Action will diminish the barriers between human, economic, social, political and environmental sciences multiplying the knowledge, expertise, research and insights of different stakeholders (researchers, scholars, teachers, practitioners, policy officials, NGOs, etc.) related in Environmental Citizenship. The different macro- and micro- level dimensions of formal and non-formal education that could lead to Environmental Citizenship will be focused. By developing National, European and International collaborations ENEC will enhance the scientific knowledge and attention to Environmental Citizenship. Expected deliverables include: a) the creation of a web-site, b) a repository database of scientific measures and evidence based interventions that target Environmental Citizenship, c) the facilitation of scientific training schools, short term scientific missions, conferences and d) the dissemination of collaborative working papers, scientific reports, proceedings, academic publications, policy and recommendation papers and an edited book on Environmental Citizenship. The Action will conceptualize and frame the Environmental Citizenship and will develop new research paradigms and metrics for assessing the Environmental Citizenship. Good examples and best educational practices leading to pro-environmental attitudes, behaviour and values will be highlighted and promoted. Policy measures and recommendations will be proposed. The Action will serve as a vehicle to defragment the knowledge and expertise in Environmental Citizenship.</p> <p>Dr Andreas HADJICHAMBIS Chair +35799477309 a.chadjihambi@cytanet.com.cy https://www.cost.eu/actions/CA16229/#tabs Name:overview</p>

EU projects

Project ID	Project title	Project description, contacts
	<p>Health monitoring and sOcial integration environMEnt for Supporting WidE ExTension of independent life at HOME (HOME SWEET HOME)</p>	<p>From 2010-03-01 to 2014-02-28, closed project HOME SWEET HOME brings together a set of services which, combined, allow extending the independent life of elderly people. HOME SWEET HOME (HSH) is trialling a new, economically sustainable home assistance service which extends elders independent living. HSH intends to achieve this by providing a comprehensive set of services which support elders in their daily activities and allows carers to remotely assess their ability to stay independent. HSH privileges features which the elders themselves can use and limits the need for other people to interfere with their private life, unless the system detects a clear need. The project measures the impact of monitoring, cognitive training and e-Inclusion services on the quality of life of the elderly, on the cost of social and healthcare delivered to them, and on a number of social indicators. https://cordis.europa.eu/project/rcn/191712_en.html https://cordis.europa.eu/docs/projects/cnect/9/250449/080/reports/001-HomeSweetHomePublishableSummary.pdf</p>
	<p>Integrated Cognitive Assistive and Domotic Companion Robotic Systems for Ability and Security</p>	<p>From 2008-01-01 to 2012-06-30, closed project The main unique selling point of the CompanionAble project lies in the synergetic combination of the strengths of a mobile robotic companion with the advantages of a stationary smart home, since neither of those approaches alone can accomplish the demanding tasks to be solved. Positive effects of both individual solutions shall be combined to demonstrate how the synergies between a stationary smart home solution and an embodied mobile robot companion can make the care and the care person's interaction with her assistive system significantly better. Starting with a profound requirement engineering for ICT-supported care and therapy management for the care persons, basic technologies for multimodal user observation and human-machine interaction will provide the fundamentals for the development of a stationary smart home assistive system and a mobile robot assistant, building the cornerstones of the overall system integrating the promising solutions of both parts. Substantial support comes from the research activities focusing on an architectural framework, allowing such a complex care scenario solution be achievable. After the realization of the respective scenarios, long lasting field experiments will be carried out to evaluate and test the system, and both scenarios can be evaluated to show their strength and weaknesses. This will initiate the development of an overall, integrated care scenario (smart home with embedded robot companion).</p>

COST Action CA 16226
Indoor living improvement: Smart Habitat for the Elderly (Sheldon)
WG 3 report_November 2018_Attachment 3

		https://cordis.europa.eu/project/rcn/85553_en.html
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http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&n_proj_id=3725