

Collaboration Activities between the JRC and Finland

Summary

JRC and Finn partners have a good level of collaboration, established mainly through competitive activities and projects), nevertheless there is also a substantial number of institutional agreements.

At present JRC Institutes are collaborating with Finn partners in:

- 10 Collaboration Agreements (on topics such as: radiological data, nuclear emergency information, environment)
- 14 Competitive Activities (on topics such as: biorefinery, air quality, land use, early warning, remote sensing)
- 42 FP7 Projects (on topics such as: nuclear data, energy planning, rural development, security, interoperability, forest fires, climate change, mobile security, climate change, atmospheric pollution, nanomaterials, photovoltaic)
- 23 Institutional Networks (on topics such as: nuclear power plants, air quality, atmospheric emission, GMO, nuclear safeguards, spatial information, neutron data, environmental monitoring)

The JRC collaborates with different type of partners in Finland ranging from national authorities and laboratories to academia, research institutes and businesses.

The partners with whom the JRC has collaborations are:

1. Valtion Teknillinen Tutkimuskeskus - 17
2. Finnish Environment Institute, Syke – 11
3. Radiation And Nuclear Safety Authority – 9
4. Technical Research Centre of Finland – 6
5. Ilmatieteen Laitos – 6
6. Suomen Ympäristökeskus – 6
7. Finnish Institute of Marine Research - 5
8. University of Helsinki – 4
9. Helsingin Yliopisto – 4
10. Manufacturing Technology – 4
11. Terveystieteiden ja Hyvinvoinnin Laitos – 3
12. Finnish Meteorological Institute – 3
13. Työterveyslaitos – 2
14. Finland's Environmental Administration – 2
15. Finnish Customs Laboratory – 2

And,

16. Ajeco Oy, Crisis Management Initiative, Ecocat Oy, Elektrobit Wireless Communications Oy, European Forest Institute, Fortum Nuclear Services Ltd, Furuno Finland Oy, Geologian Tutkimuskeskus, Helsinki University of Technology, Jyvaskylan Yliopisto, Lassila, Tikanoja Oyj, Metsantutkimuslaitos, Metso Power Oy, Ministry of Agriculture And Forestry, Ministry of Trade And Industry, National Food Agency Of Finland, National Land Survey of Finland, National Product Control Agency For Welfare and Health, National Public Health Institute, National Veterinary and Food Research Institute, Oulun Yliopisto, Posiva Oy, Poyry Forest Industry Oy, Seed Testing Department, Statistics Finland, Stora Enso Oyj, Suomen Akatemia, Tampereen Teknillinen Yliopisto, Tullihallitus National Board of Customs, University of Kuopio, University of Oulu, University of Turku, Upm-Kymmene Oyj - 1

Collaboration Agreements

- **Collaboration Agreement**, between Radiation and Nuclear Safety Authority and ITU
- **Euraqua Network**, between Finnish Environment Institute – SYKE and IES
- **EURDEP**, between Radiation and Nuclear Safety Authority and IES
- **IDEP/CN8 S/W - Finnish National Board Customs**, between Tullihallitus National Board Of Customs and BSSB
- **Memorandum of Understanding EURDEP- EUropean Radiological Data Exchange Platform with Radiation and Nuclear Safety Authority (STUK)**, between Radiation and Nuclear Safety Authority and IES
- **Mou-Aquila-Network Air Quality Laboratories** between ILMATIETEEN LAITOS, and IES
- **Non disclosure agreement with University of Oulu**, between University of Oulu and IPSC
- **Nuclear emergency information**, between Radiation and Nuclear Safety Authority and IES
- **Partnership for European Environmental Research**, between Finnish Environment Institute – SYKE and IES
- **REMdB**, between Radiation and Nuclear Safety Authority and IES

Competitive Activities

- **Exiopol**, between Finnish Environment Institute - Syke & European Forest Institute and IPTS
- **Biosynergy**, between Technical Research Centre Of Finland and IE
- **Ensembles Consortium Agreement**, between Finnish Meteorological Institute & Finnish Environment Institute - Syke and PSC
- **Ip Eucaari**, between Finnish Meteorological Institute & University Of Kuopio & University Of Helsinki and IES

- **Project Eusaar**, between Finnish Meteorological Institute & University Of Helsinki and IES
- **Biocop**, between University Of Turku and IRMM
- **Nulife**, between Technical Research Centre Of Finland and IE
- **Ip Plurel**, between Finnish Environment Institute – Syke and IES
- **Ca For Preview**, between Finnish Meteorological Institute and ES
- **Project Seadatanet**, between Finnish Institute Of Marine Research and IES
- **Nitroeuropa Ip Neu**, between Finnish Meteorological Institute & University Of Helsinki & Finnish Environment Institute – Syke and IES
- **Moniqa**, between Technical Research Centre Of Finland and IRMM
- **Consortium Agreement For Eucaari (Ip)**, between University Of Helsinki and IES
- **Crescendo Consortium Agreement**, between Technical Research Centre Of Finland and IPSC

FP7 Projects

- **ACRIMAS**, Demonstration; cross-border cooperation; knowledge transfer; CD&E, scenario approach; testbed - Crisis Management Initiative
- **AEGOS**, Africa, georesource, sustainable development, data management, interoperability, Inspire, Geoss - Geologian Tutkimuskeskus
- **ANDES**, Nuclear Data Fast Reactor Actinides Covariances Measurements Evaluation Validation Sustainability ADS Transmutation - Jyväskylän Yliopisto
- **ATEST**, Systemic energy planning, transition planning tools for the energy system, low carbon integrated energy systems - Valtion Teknillinen Tutkimuskeskus
- **CAPRI-RD**, Rural Development Modelling, Rural Development Indicators, Policy Impact Assessment, Large Scale Economic Modelling, Spatial Downscaling - Helsingin Yliopisto
- **CCTAME**, Land use efficiency, adaptation, mitigation, climate change, carbon sink, biomass/-fuel production, cross-benefit-analysis, policy impact, biophysical and economic land-use modeling - Metsäntutkimuslaitos
- **CONFIDENCE**, Food, feed, contaminant, detection, rapid, screening, multi, control, monitoring, exposure, safety - Tampereen Teknillinen Yliopisto
- **CONTAIN**, containers security - Valtion Teknillinen Tutkimuskeskus
- **COPHES**, Hbm, Cophes II, Human Biomonitoring, EU network, E&H Action Plan - Terveystieteiden ja Hyvinvoinnin Laitos
- **CRESCENDO**, security network, innovation process, security supply chain, r&d roadmaps, european security equipment market - Valtion Teknillinen Tutkimuskeskus
- **DECOTESSC1**, Cbrne, system, state-of-the-art, gap analysis, strategic roadmap, demonstration, dissemination - Valtion Teknillinen Tutkimuskeskus
- **EFFISEC**, portal, detection, biometrics, portable terminals, video-analysis, land checkpoint, explosive, X-Ray - Valtion Teknillinen Tutkimuskeskus

- **EICOON**, India, Forum, synergies - Valtion Teknillinen Tutkimuskeskus
- **ERA.NET RUS**, Russia, ERA-Net, S&T, Pilot Joint Call - Suomen Akatemia
- **EULER**, Interoperability, Crisis management, Wireless communications, Software defined radio - Oulun Yliopisto & Elektrobitt Wireless Communications Oy
- **EUROPAIRS**, htr vhttr, industrial process heat steam hydrogen, oil, chemical & steel industries, coal-to-liquid - Fortum Nuclear Services Ltd
- **FACET**, Food chemical exposure; additives; flavouring; packaging; food chemical occurrence; probabilistic modeling - Terveyden Ja Hyvinvoinnin Laitos
- **FUME**, forest fires, climate change, socioeconomic change, climate change impacts, climate change adaptation, vulnerability, fire risk, climate extremes - Ilmatieteen Laitos
- **GEOLAND2**, Gmes; Land Monitoring Core Service - European Forest Institute & Valtion Teknillinen Tutkimuskeskus & Suomen Ymparistokeskus
- **GETMAT**, Materials, Generation IV, ADS, Fusion, ODS & F/M alloys, corrosion protection, weld, irradiation, modeling - valtion teknillinen tutkimuskeskus (vtt) & helsingin yliopisto
- **HYQ**, Hydrogen fuel quality - Impurities - Contaminants - Fuel Cells - ICE - Methodologies - Regulation , Codes and Standards - Valtion Teknillinen Tutkimuskeskus
- **I2C**, System for intelligent sea border traffic picture up to identify threats from suspicious vessels - Furuno Finland Oy & Ajeco Oy
- **IMSK**, integrated Mobile Security Kit large event terrorist rapid detection - Valtion Teknillinen Tutkimuskeskus
- **INTEG-RISK**, emerging risks, new technologies, lead markets, time to market, EU competitiveness, key performance indicators (KPIs) for emerging risks - Valtion Teknillinen Tutkimuskeskus & Poyry Forest Industry Oy
- **LOGMAN**, logistics and manufacturing systems, sustainable transport, carbon footprint, recycling , carbon emission, socio-economic effects, new trends, scenarios , european transport policies - Suomen Ymparistokeskus
- **LONGLIFE**, RPV Neutron irradiation embrittlement, Long Term Operation, Ageing Management, Late Blooming Effect, Flux Effect - Valtion Teknillinen Tutkimuskeskus
- **MACC**, Pilot GMES Atmospheric Service - Ilmatieteen Laitos
- **MEDIATION**, climate change impacts, vulnerability, adaptation, assessment methods - Suomen Ymparistokeskus
- **MEGAPOLI**, urban, regional and global atmospheric pollution; megacities; hot spots; climate effects, intrgated models and tools; assessment; mitigation - Helsingin Yliopisto & Ilmatieteen Laitos
- **MYOCEAN**, Gmes, Marine core services, operational oceanography, space, global, regional, climate change, oil spill management, marine safety, marine resources and ecosystems, coastal management, polar operation - Suomen Ymparistokeskus & Ilmatieteen Laitos

- **NANOIMPACTNET**, nanomaterial, nanoparticles, health, human, environment, impact, risk, (eco)toxicity, screening, predictive models, life-cycle, public perception, EU Actionplan - Työterveyslaitos.
- **NANOSUSTAIN**, nanoproducts, nanomaterials, nanotoxicology, toxicology, ecotoxicology, hazard, impact, exposure, transport, transformation, fate, sustainability, use, re-use, recycling, treatment, disposal - Valtion Teknillinen Tutkimuskeskus & Upm-Kymmene Oyj
- **POWERFUL**, Powertrain; CO2 reduction - Ecocat Oy
- **QNANO**, nano - Työterveyslaitos.
- **RECOMBIO**, recovered fuels, biomass, on-line analysis, sensor based sorting technology, co-combustion, power plant, Lca - Valtion Teknillinen Tutkimuskeskus & Metso Power Oy & Lassila & Tikanoja Oyj & Stora Enso Oyj
- **RECOASY**, redox reactions, radionuclide transport, Safety case - Helsingin Yliopisto & Posiva Oy
- **REFRESH**, Freshwater ecosystems, climate & land use change, adaptation, mitigation, restoration, integration - Suomen Ympäristökeskus
- **SARNET2**, Sarnet ; severe accident ; network of excellence ; ASTEC ; corium ; containment ; source term - Valtion Teknillinen Tutkimuskeskus
- **SOPHIA**, photovoltaic - Valtion Teknillinen Tutkimuskeskus
- **STYLE**, Structural integrity assessment, lifetime management, assessment tools, ageing , weld repair - Valtion Teknillinen Tutkimuskeskus
- **TRANSPHORM**, Transport; Air pollution; Particulate matter; Health impacts; Integrated assessment; Full chain; Exposure; Modelling; Concentration-response functions; Ultrafine; Pm1; Pm2.5; Pm10; Particle Number - Ilmatieteen Laitos & Terveystieteiden ja Hyvinvoinnin Laitos
- **WISER**, Water Framework Directive, indicators, uncertainty, lakes, coastal and transitional waters, recovery - Suomen Ympäristökeskus

Institutional Networks

- **Ageing Materials Evaluation And Studies** between Manufacturing Technology and IE
- **Air Quality Laboratories Association** between Finnish Meteorological Institute and IES
- **Combustion and Industry Expert Panel** between Finland's environmental administration and IES
- **Connect** between Finnish Environment Institute – SYKE and IES
- **Developers and practitioners of composite indicators** between Statistics Finland and IPSC
- **Eu Exposure Assessment Network** between Finnish Environment Institute - SYKE & National Product Control Agency for Welfare and Health & Ministry of Trade and Industry – FIN and IHCP
- **EurAqua** between Finnish Environment Institute – SYKE and IES

- **European Network For Inspection Qualification** between Manufacturing Technology and IE
- **European Network Of Gmo Laboratories** between National Veterinary and Food Research Institute & Finnish Customs Laboratory & Seed Testing Department and IHCP
- **European Renewable Energy Centres Agency** between Technical Research Centre Of Finland & Helsinki University of Technology and IES
- **European Safeguards Research and Development Association** between Radiation and Nuclear Safety Authority and IRMM
- **Global Cem Net Consumer Exposure Modeling** between National Public Health Institute – FIN and IHCP
- **Infrastructure For Spatial Information In Europe** between Finland's environmental administration & National Land Survey of Finland & Ministry of Agriculture and Forestry and IES
- **Network For Evaluating Structural Components** between Manufacturing Technology and IE
- **Network On Neutron Techniques Standardization** between Manufacturing Technology and IE
- **Official Crl-Nrl Network On Food Contact Material** between National Food Agency of Finland & Finnish Customs Laboratory and IHCP
- **Partnership For European Environmental Research – PEER** between Finnish Environment Institute – SYKE and IES
- **Radioactivity Environmental Monitoring** between Radiation and Nuclear Safety Authority and IES
- **Radioactivity Environmental Monitoring** between Radiation and Nuclear Safety Authority and IES
- **Radioactivity Environmental Monitoring** between Radiation and Nuclear Safety Authority and IES
- **REM - ENSEMBLE** Finnish Meteorological Institute and IES
- **The EU Working Group on (Q)SARs** between Finnish Environment Institute – SYKE and IHCP
- **World Metereological Organisation WMO/UNEP** between Finnish Meteorological Institute and IHCP