

## **Collaboration Activities between the JRC and UK**

### **Summary**

JRC and UK 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 UK partners in:

- 16 Collaboration Agreements (on topics such as: radiological data, air quality, nuclear emergency, environment, chemical measurement)
- 26 Competitive Activities (on topics such as: chemical contaminants, climate change, environmental accounting, robotics, land use, nuclear fuel, groundwater soil protection)
- 108 FP7 Projects (on topics such as: nuclear energy, electrolysis, nuclear data, energy planning, biodiversity, biofuel, nuclear fission, climate change, energy security, transport, crisis management, nanotechnology, photovoltaic)
- 43 Institutional Networks (on topics such as: security, nuclear power plants, air quality, GMO, nuclear safeguards, satellite remote sensing, nuclear forensics, isotopic measurements, environment, emergency response)

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

The partners with whom the JRC has collaborations are:

1. University Of Manchester - 16
2. Imperial College Of Science, Technology And Medicine – 10
3. European Centre For Medium-range Weather Forecasts - 9
4. Health And Safety Executive – 9
5. Natural Environment Research Council - 9
6. Central Science Laboratory - 8
7. Laboratory Of The Government Chemist – 8
8. University Of Edinburgh - 8
9. Met Office - 7
10. Institute Of Occupational Medicine - 7
11. King's College London - 6
12. National Physical Laboratory - 6
13. University Of Birmingham - 6
14. University Of Reading - 6
15. Centre For Ecology And Hydrology - 6
16. The Chancellor, Masters And Scholars Of The University Of Oxford - 5
17. The Secretary Of State For Environment, Food And Rural Affairs - 5

18. University College London - 5
  19. University Of Leeds - 5
  20. University Of Nottingham - 5
  21. University Of East Anglia - 5
  22. Amec Nuclear Uk Limited - 4
  23. Food Standard Agency - 4
  24. Infoterra Limited - 4
  25. NPL Management Limited - 4
  26. Queen's University Belfast - 4
  27. University Of Liverpool - 4
  28. University Of Plymouth - 4
  29. Department For Environment, Food And Rural Affairs - 4
  30. United Kingdom Atomic Energy Authority - 4
  31. University Court Of The University Of Aberdeen - 4
  32. Serco Limited - 4
  33. British Nuclear Fuels Plc - 3
  34. Aea Technology Plc – 3
  35. Edinburgh Napier University - 3
  36. Loughborough University - 3
  37. National Nuclear Laboratory Limited - 3
  38. University Of Bath - 3
  39. Rolls-Royce Power Engineering Plc - 3
  40. The Chancellor, Masters And Scholars Of The University Of Cambridge - 3
  41. Nexia Solutions Limited - 3
  42. University Of Bristol - 3
  43. University Of The West Of Scotland - 3
  44. University Of Hertfordshire Higher Education Corporation - 3
  45. University Of Surrey - 3
  46. University Of Sheffield – 3
47. Aston University, Cambridge Environmental Research Consultants Ltd, Cardiff University, Centre For Process Innovation Limited, Cranfield University, Department Of Trade And Industry, Environment Agency, Institute For European Environmental Policy, Institute Of Nanotechnology, John Wiley and Sons, Johnson Matthey Plc., Lancaster University, London School Of Hygiene And Tropical Medicine, Mapaction Trust, Materials Engineering Research Laboratory Limited, National Environmental Technology Centre, Natural History Museum, New And Renewable Energy Centre, Plymouth Marine Laboratory, Qinetiq Limited, Rwe Npower Plc, Sei Oxford Office Limited Stockholm environment Institute Oxford Office Sei Ltd, Technology (Uk) Limited, Thales E-Security Limited, Thales Research, Unilever Uk Central Resources Limited, University Of Exeter, University Of Newcastle Upon Tyne, University Of Oxford, University Of Portsmouth Higher Education Corporation, University Of Salford, University Of Southampton, University Of Ulster - 2
- And,
48. Adelard Llp, Air Products Plc, Airbus Uk Limited, Allied Associates (Geophysical) Limited, Xenosense Limited, Wood, University Of Wales, University Of Westminster, Weather Informatics Ltd, Wildlife Dna Services Limited Wdnas, Willis Limited, University Of Leicester, University Of Hull, University Of Keele, University Of Dundee, University Of Glasgow, University Of Gloucestershire, University Hospitals Bristol Nhs

Foundation Trust, The Macaulay Land Use Research Institute, The Manchester Metropolitan University, The School Of Pharmacy, University Of London, Trl Limited, Tyhe British Met. Office, The Automation Partnership (Cambridge) Limited, The CCS Global Group Ltd., Tennant David Robin, Severn Trent Laboratories Ltd, Sheffield Hallam University - School Of Science, Simcyp Ltd, Southampton Oceanography Centre, St Mary's University College Twickenham, Syngenta Ag, Tech4i2 Limited, Selex Sensors And Airborne Systems Ltd, Safety Of Chemicals In Consumer Products, Savi Technology Ltd, Scensive Technologies Ltd, Scottish Agricultural College, Scottish Agricultural Science Agency, Scottish Association For Marine Science, Royal Society For The Protection Ofbirds, Rutherford Appleton Laboratory, Radioactive Incident Monitoring Network, Radioactive Substances Division, Queen Mary And Westfield College, University Of London, Prismtech Limited, Progressive Energy Limited, Nuclear Consultations And Liabilities Unit- Department Of Business, Enterprise And Regulatory Reform, Nuclear Decommissioning Authority – Nda, Nuclear Industries Directorate, Department Of Trade And Industry, Nuovoprobe Ltd, Open Geospatial Consortium (Europe) Limited, Ordnance Survey, Ove Arup, Partners International Limited, Paul Watkiss Associates Ltd, Norsk Institutt For Luftforskning, Northumbria University, National Information Security Coordination Centre, National Institute For Biological Standards And Control, National Nuclear Corporation Limited, Metroeconomica Limited, Middlesex University, Mjc2 Limited, Naneum Limited, Nanotechnology Industries Association, Napier University, National Biological Standards Board, Liverpool John Moores University, London Metropolitan University, London School Of Economics And Political Science, Intrinsic Materials Limited, It Power Ltd., Institute Of Food Research, Inlecom Systems Ltd, Industrial Chemicals Unit, Health And Safety Laboratory, Health Protection Agency Hpa, Heriot-Watt University, Hr Wallingford Ltd, Imperial College London, Forum For The Future, Fusion Antibodies Ltd., Garrad Hassan, Hamilton Erskine Ltd, Harper Collins Publishers Limited, Euspen - European Society For Precision Engineering And Nanotechnology, Flasse Consulting, Flexitallic Ltd, Food Consultancy (Dmc) Ltd, Envision Management Ltd, Eosphere Limited, Edinethics Limited, Element Energy Limited, Energy And Environment Office - Imperial College London, Environment Agency Of England And Wales, Doosan Babcock Energy Limited, E.On Uk Plc, Edinburgh College Of Art, Cyprotex Discovery Limited, De Montfort University, Centre For Terrestrial Carbon Dynamics (CTCD), Department Of Geography, Chalex Research Ltd., City University Of London, Climate And Land Surface Systems Interaction Centre, Department Of Geography, Cotecna Inspection Limited, Countryside Council Wales, Cass Business School, Cemmnt Hub Limited - The Centre Of Excellence In Metrology For Micro And Nano Technologies, Campden And Chorleywood Food Research Association, British Publishers Limited, British Telecommunications Public Limited Company, Astrium Limited, Atomic Weapons Establishment, Aviation House, Bae Systems (Operations) Ltd, Bangor University, Bapco Limited, Berry Environmental Ltd, Birdlife International, Bmt Group Limited, Bournemouth University Natural Environment Research Council, Bradtec Decon Technologies Ltd, British Coatings Federation, British Energy Generation Ltd, British Energy Group Plc, Archer Technicoat Ltd – 1.

### **Collaboration Agreements**

1. **Euraqua** Network between Centre for Ecology and Hydrology and IES
2. **EURDEP** between Central Science Laboratory and IES

3. **Memorandum of Understanding EURDEP- European Radiological Data Exchange Platform with Nuclear Consultations Liabilities Unit - Department of Business, Enterprise and Regulatory Reform** between Nuclear consultations and Liabilities Unit- Department of Business, Enterprise and Regulatory Reform and IES
4. **MoU-Aquila Air Quality Reference Laboratories** between NPL Management Ltd & AEA Technology PLC and IES
5. **Nuclear emergency information** between Department of Trade and Industry - UK & Central Science Laboratory and IES
6. **Nuclear safeguards - process monitoring** between University Of Glasgow and IPSC
7. **Partnership for European Environmental Research** between Centre for Ecology and Hydrology and IES
8. **REMdB** between Food Standard Agency & Central Science Laboratory and IES
9. **Research Agreement With Wood Mackenzie - Right Of Information, Data, Professional Services** Between Wood and IES
10. **Sensitivity Analysis In Practice** Between John Wiley & Sons and IPSC
11. **Serve public interest for a reliable European chemical measurement system** between Laboratory of the Government Chemist and IRMM
12. **The development and validation of analytical methods, and studies involving issues of food safety and consumer protection** between Central Science Laboratory and IRMM
13. **The extent and scope of traceability of analytical measurements to the SI, within the remit of the work of CCQM of the CIPM** between National Physical Laboratory and IRMM
14. **To contribute more effectively to understanding and resolving scientific issues in the field of neutron measurements and nuclear technology** between University of Birmingham and IRMM
15. **To improve and better understand the characteristics of trace metal reference materials and of the various steps in their preparation** between Sheffield Hallam University - School of Science and IRMM
16. **Traceability of chemical measurements and reference materials** between Laboratory of the Government Chemist and IRMM

### Competitive Activities

1. **BIOCOP** between Queen's University of Belfast & XenoSense Limited & Food Consultancy (dmc) Ltd & Fusion Antibodies Ltd. & Central Science Laboratory & Chalex Research Ltd. And IRMM
2. **Biosynergy** between Aston University and IE
3. **Ca For Preview** between European Centre For Mediumrange Weather Forecasts & Met Office and IES
4. **Ca Macc** between European Centre For Mediumrange Weather Forecasts and IES
5. **Copyright License Agreement** between Harper Collins Publishers Limited and BSSA

6. **Ensembles Consortium Agreement** between University Of Oxford & University Of Reading & University Of Liverpool & Met Office & University Of East Anglia & University Of Bristol & Weather Informatics Ltd & European Centre For Mediumrange Weather Forecasts & London School Of Hygiene And Tropical Medicine & London School Of Economics And Political Science and IPSC
7. **Euracom Consortium Agreement** between Thales E-Security Limited and IPSC
8. **Exiopol** between Queen's University Of Belfast & University College London & University Of Bath & Institute For European Environmental Policy & Institute Of Occupational Medicine and IPTS
9. **Extremat Ip** between United Kingdom Atomic Energy Authority & University Of Oxford & Materials Engineering Research Laboratory Ltd & National Nuclear Corporation Limited & Archer Technicoat Ltd and IE
10. **Freesubnet** between University Of Southampton & Heriot-Watt University and IPSC
11. **Ip Eucaari** between University Of Manchester & Met Office & University Of Leeds & University Of East Anglia & University Of Birmingham and IES
12. **Ip Plurel** between University Of Manchester & University Of Bath & Queen's University Of Belfast & Edinburgh College Of Art and IES
13. **Ip Sesame** between University Of Plymouth and IES
14. **Ip Spicosa** between University Of Wales & Envision Management Ltd & Napier University & University Of Plymouth & University Of East Anglia & Middlesex University & Scottish Association For Marine Science and IES
15. **Lwr-Deputy** between Nexia Solutions Limited and ITU
16. **Moniqa** between Department For Environment, Food And Rural Affairs & Campden And Chorleywood Food Research Association & Institute Of Food Research and IRMM
17. **Nesshy** between University Of Birmingham & Johnson Matthey Plc. & University Of Salford and IE
18. **Nitroeuropa Ip Neu** between University Of Manchester & University Of Edinburgh & Met Office & Natural Environment Research Council & Scottish Agricultural College & University Court Of The University Of Aberdeen and IES
19. **Nulife** between Serco Ltd & British Energy Group Plc and IE
20. **Osiris** between University Of Exeter & Cyprotex Discovery Limited & Liverpool John Moores University and IHCP
21. **Project Eusaar** between University Of Birmingham and IES
22. **Project Seadatanet** between Natural Environment Research Council and IES
23. **Safer Consortium Agreement** between European Centre For Mediumrange Weather Forecasts & Mapaction Trust & Infoterra Limited and IPSC
24. **Sens-It-Iv** between University Of Liverpool & University Of The West Of England, Bristol & Unilever Uk Central Resources Limited & Syngenta Ag and IHCP
25. **Sensitivity Analysis In Practice** between John Wiley & Sons and IPSC
26. **Training Network Aquatrain** between University Of Manchester & University Court Of The University Of Aberdeen & De Montfort University and IES

## **FP7 Projects**

1. **Acropolis**, Cognitive Radio, Network Of Excellence - University Of Leeds & University Of Surrey & King's College London
2. **Acsept**, Partitioning ; Actinides Recycling ; Waste Management ; Sustainable Nuclear Energy Systems - The University Of Edinburgh & The University Of Reading & Nexia Solutions Limited
3. **Actinet-I3**, Actinide, Nuclear Energy, Chemistry - The University Of Manchester
4. **Adel**, Electrolysis, High Temperature, Intermediate Temperature, Renewable Sources, Soec, Sofc, System Outlay, Materials Research - Flexitallic Ltd
5. **Advancectv**, Verification, International Harmonisation, Mutual Recognition, Co-Verification Case Study, Standardisation Support - Environment Agency Of England And Wales
6. **Advise**, Safety, Design, Finite Element Analysis, Fea, Optical Technique, Image Correlation, Validation, Traceability, Dynamic Measurement, Impact, Deformation, Measurement Uncertainty - The University Of Liverpool & Airbus Uk Limited
7. **Aegos**, Africa, Georesource, Sustainable Development, Data Management, Interoperability, Inspire, Geoss - Natural Environment Research Council
8. **Andes**, Nuclear Data Fast Reactor Actinides Covariances Measurements Evaluation Validation Sustainability Ads Transmutation - National Nuclear Laboratory Limited
9. **Apollon**, III-M Multijunction Solar Cells, High Concentration, Long-Term Stability, High-Throughput Module Assembly, Point Focus System, Dense Array System - New And Renewable Energy Centre
10. **Argomarine**, Oil Spill Monitoring, Sea Traffic Monitoring, Geopositioning, Airborne And Shipborne Sensors, Satellite Image Processing, Thermal Sensors, Electronic Nose, Mathematical Modelling, Auv - Scensive Technologies Ltd
11. **Atest**, Systemic Energy Planning, Transition Planning Tools For The Energy System, Low Carbon Integrated Energy Systems - The University Of Westminster
12. **Biofresh**, Biodiversity, Conservation, Sustainability, Water Policy, Data Platform, Ecosystem Services - University College London & The Chancellor, Masters And Scholars Of The University Of Oxford
13. **Biomonar**, Multiplexing, Sensor Platform Engineering, Dynamic Pollutant Speciation, Biological Impact - Severn Trent Laboratories Ltd
14. **Biorema**, Biofuel; Biodiesel; Bio-Ethanol; Reference Materials; Interlaboratory Comparison; Certification - Npl Management Limited
15. **Cap-Ire**, Rural Economy, Common Agricultural Policy, Cap, Farm, Household, Scenarios, Governance, Cohesion - The University Court Of The University Of Aberdeen
16. **Capri-Rd**, Rural Development Modelling, Rural Development Indicators, Policy Impact Assessment, Large Scale Economic Modelling, Spatial Downscaling - University Of Gloucestershire & Institute For European Environmental Policy
17. **Carbowaste**, Nuclear Fission, Irradiated Graphite, Disposal, Treatment, Carbonaceous Waste, Graphite-Moderated Nuclear Reactors, Generation Iv Systems, Vhtr, Msr - The University Of Manchester & Nuclear Decommissioning Authority -

- Nda & Nexia Solutions Limited & Doosan Babcock Energy Limited & Bradtec Decon Technologies Ltd & Amec Nuclear Uk Limited
18. **Cctame**, Land Use Efficiency, Adaptation, Mitigation, Climate Change, Carbon Sink, Biomass/-Fuel Production, Cross-Benefit-Analysis, Policy Impact, Biophysical And Economic Land-Use Modeling - The University Court Of The University Of Aberdeen & Imperial College Of Science, Technology And Medicine
  19. **Climatecost**, Climate Change, Greenhouse Gases, Stabilisation, Kyoto, Economics, Adaptation, Mitigation, Abatement, Cost Of Inaction, Benefits, Socially Contingent Events, Ancillary Impacts, Models, Quantification - University Of Southampton & Sei Oxford Office Limited Stockholmenvironment Institute Oxford Office Sei Ltd & Metroeconomica Limited & Aea Technology Plc & Paul Watkiss Associates Ltd & London School Of Hygiene And Tropical Medicine & University Of East Anglia
  20. **Co-Nanomet**, Instrumentation, Sensors, Metrology, Measurement, Standards, Nanotechnology, Nanosciences, Nanomaterials, Coordination - Euspen European Society For Precision Engineering And Nanotechnology & Qinetiq Limited & Npl Management Limited & Cemmt Hub Limited The Centre Of Excellence In Metrology For Micro And Nano Technologies
  21. **Confidence**, Food, Feed, Contaminant, Detection, Rapid, Screening, Multi, Control, Monitoring, Exposure, Safety - Queen's University Belfast & The Secretary Of State For Environment, Food And Rural Affairs
  22. **Contain**, Containers Security - Thales Research & Technology (Uk) Limited & Bmt Group Limited & Cotecna Inspection Limited & Inlecom Systems Ltd & Savi Technology Ltd & Mjc2 Limited
  23. **Cophes**, Hbm, Cophes Ii, Human Biomonitoring, Eu Network, E&H Action Plan - Health Protection Agency Hpa
  24. **Cp-Esfr**, Innovative Nuclear Systems; Sodium Fast Reactor; Generation Iv - Amec Nuclear Uk Limited
  25. **Crossroad**, Roadmap, Ict, Governance, Policy Modeling, Egovernment - Tech4i2 Limited
  26. **Devcoast**, Geonetcast, Environmental Monitoring, Developing Countries, Natural Resources, Africa, South-America, Asia, Geo, Geoss - Natural Environment Research Council & Plymouth Marine Laboratory
  27. **Ebone**, Biodiversity, Habitat, Monitoring, Institutional Network - The University Of Edinburgh & Natural Environment Research Council
  28. **Ecco**, Co2 Value Chain Ccs Capture Eor Egr - Progressive Energy Limited & E.On Uk Plc & Rwe Npower Plc
  29. **Effisec Portal**, Detection, Biometrics, Portable Terminals, Video-Analysis, Land Checkpoint, Explosive, X-Ray - The University Of Reading
  30. **Efp**, Foresight - Monitoring - Policy Advice - Mutual Learning - Efmn - Forlearn - Metris - The University Of Manchester
  31. **EicoonIndia**, Forum, Synergies - Institute Of Nanotechnology
  32. **Ennah Noise**, Health, Environment, Network, Noise Exposure - The Manchester Metropolitan University & Queen Mary And Westfield College, University Of London

- & Berry Environmental Ltd & Imperial College Of Science, Technology And Medicine & Cardiff University
33. **Enpra**, Engineering Nanoparticles, Oxidative Stress, Inflammation, Fibrogenicity, Genotoxicity, Pulmonary, Cardio-Vascular, Hepatic - The University Of Edinburgh & Institute Of Occupational Medicine & Edinburgh Napier University
  34. **Eo2heaven**, Earth Observation, Environmental Monitoring, Health Effects, Gis, Risk Mapping, Epidemiological Modelling - Open Geospatial Consortium (Europe) Limited
  35. **Esnats**, Alternative Testing, Embryonic Stem Cells, Reproductive Toxicity, Cns Toxicity, Toxicogenomics, Hepatic Metabolism, Cocktail Effects - The University Of Edinburgh & University Of Newcastle Upon Tyne & The Automation Partnership (Cambridge) Limited & National Biological Standards Board & The School Of Pharmacy, University Of London & Edinethics Limited
  36. **E-Soter**, Soil And Terrain Database, Remote Sensing, Applications, Web Portal - The University Of Nottingham & Cranfield University
  37. **Euler**, Interoperability, Crisis Management, Wireless Communications, Software Defined Radio - Astrium Limited & Prismtech Limited
  38. **Euracom**, Energy Security Risk Assessment Management Contingency Planning Interconnected Network Methodology Operator User Forum - Thales E-Security Ltd
  39. **Eurogeoss**, Inspire, Geoss, Biodiversity, Drought, Forestry, Multi-Disciplinary Interoperability, Environment, Seis - The University Of Nottingham & Royal Society For The Protection Ofbirds & Birdlife International
  40. **Europairs**, Htr Vhtr, Industrial Process Heat Steam Hydrogen, Oil, Chemical & Steel Industries, Coal-To-Liquid - Rolls-Royce Power Engineering Plc & Amec Nuclear Uk Limited
  41. **Evol**, Gen Iv System Innovative Fast Neutron Reactor Fuel Processing Molten Salt Chemistry High Temperature Materials - The Chancellor, Masters And Scholars Of The University Of Oxford
  42. **Facet**, Food Chemical Exposure; Additives; Flavouring; Packaging; Food Chemical Occurrence; Probabilistic Modeling - University Of Ulster & The Secretary Of State For Environment, Food And Rural Affairs & Tennant David Robin
  43. **Fairfuels**, Transmutation, Nuclear Fuels And Targets, Reprocessing, Minor Actinides, Fuel Irradiation And Modelling, Pie - Imperial College Of Science, Technology And Medicine & Serco Limited
  44. **F-Bridge**, Nuclear Particle Fuel Generation Iv Sphrepac Sfr Gfr Lfr Scwr Vhtr - The University Of Manchester & Imperial College Of Science, Technology And Medicine & The Chancellor, Masters And Scholars Of The University Of Cambridge
  45. **Fishpoptrace**, Traceability, Fish Population Structure, Iuu Fishing, Enforcement, Conservation, Snp, Otolith Analysis - Bangor University & Wildlife Dna Services Limited\*Wdnas
  46. **Genesis**, Generic Information System Set-Up Framework, Environment Management And Health Risk - University Of The West Of Scotland & Imperial College Of Science, Technology And Medicine & Cambridge Environmental Research Consultants Ltd & British Publishers Limited



47. **Geoland2**, Gmes; Land Monitoring Core Service - University Of Leicester & European Centre For Medium-Range Weather Forecasts & Infoterra Limited
48. **Getmat**, Materials, Generation Iv, Ads, Fusion, Ods & F/M Alloys, Corrosion Protection, Weld, Irradiation, Modelling - The University Of Liverpool & The University Of Edinburgh
49. **Ghg-Transpord**, Transport, Ghg-Emissions, Eu Research Strategy And Policy, Ghg-Targets - University Of Leeds
50. **Glowasis**, Water Scarcity, Earth Observation, In-Situ Data, Gmes, Water Accounting, Forecast, Geoland2, Service, Wfd. - European Centre For Medium-Range Weather Forecasts
51. **G-Mosaic**, Crisis Management, Gmes, Security, Geo-Spatial Intelligence, Crisis Indicators, Regional Crises, Threat Warning Factors - King's College London & Infoterra Limited
52. **Gofastr**, Gas, Cooled Fast Reactor, Gfr, Generation Iv, Fast Reactors, Sustainable Nuclear Energy Systems, Transmutation, Sne-Tp - Imperial College Of Science, Technology And Medicine & Amec Nuclear Uk Limited & National Nuclear Laboratory Ltd & Rolls-Royce Power Engineering Plc
53. **Greenair**, Fuel Processing, Fuel Reforming, Hydrogen, Fuel Cells, Jti Cleansky, Jti Hydrogen And Fuel Cells, Greening Of Air Transport, Green Aircraft - Qinetiq Limited & Johnson Matthey Plc.
54. **Help**, Emergency Communications, Network Sharing, Spectrum Sharing, Composite Radio Networks, Interworking, Public Safety Communications - Bapco Limited
55. **Hereplus**, Metropolitan Areas; Human Health; Cardio Respiratory Diseases; Ozone; Particulate Matter; Epidemiology; Gis; Statistical Approaches; Urban Green; Risk Maps. - University Of Keele
56. **Hycycles**, Silicon Carbide; Sulphuric Acid Decomposition; Hybrid Sulphur Cycle; Sulphur-Iodine Cycle; Decomposer; Heat Exchanger; Separator - The University Of Sheffield
57. **Hyprofessionals**, Training, Hydrogen Technologies, Fuel Cells, Education, H2, Fc, Vocational, Skills - Centre For Process Innovation Limited
58. **Hyq**, Hydrogen Fuel Quality - Impurities - Contaminants - Fuel Cells - Ice - Methodologies - Regulation , Codes And Standards - Element Energy Limited & Npl Management Limited & The Ccs Global Group Ltd.
59. **Imprints**, Flash Floods;Flood Forecasting;Debris Flows;Rainfall Forecasting;Hydrological Forecasting;Probabilistic Forecasting;Early Warning System;Operational Tools;Flash Flood Risk; Climate Change Impacts - Lancaster University
60. **Imsk**, Integrated Mobile Security Kit Large Event Terrorist Rapid Detection - The University Of Reading & Thales Research & Technology (Uk) Limited & Selex Sensors And Airborne Systems Ltd
61. **Integ-Risk**, Emerging Risks, New Technologies, Lead Markets, Time To Market, Eu Competitiveness, Key Performance Indicators (Kpis) For Emerging Risks - Imperial College Of Science, Technology And Medicine & Health And Safety Executive & British Telecommunications Public Limited Company & Materials Engineering Research Laboratory Limited

62. **Iris**, Industrial Safety, Online Risk Assessment, Safety Concept, Monitoring Systems, Decision Support System - The University Of Manchester & The University Of Sheffield
63. **Isoil**, Geophysics, Spectroscopy, Pedophysics, Pedometrics, Soil Mapping, Soil Properties, Functions,Threats - Cranfield University & Allied Associates (Geophysical) Limited
64. **Lc-Impact**, Life Cycle Impact Assessment Methods; Characterisation Factors; Normalisation Factors; Uncertainty Analysis; Lca Case Studies - Unilever Uk Central Resources Limited
65. **Livediverse**, Sustainability, Livelihoods, Riparian, Scenarios, Vulnerability - University Of Dundee
66. **Logman**, Logistics And Manufacturing Systems, Sustainable Transport, Carbon Footprint, Recycling , Carbon Emission, Socio-Economic Effects, New Trends, Scenarios , European Transport Policies - University Of Portsmouth Higher Education Corporation & The Chancellor, Masters And Scholars Of The University Of Oxford
67. **Longlife**, Rpv Neutron Irradiation Embrittlement, Long Term Operation, Ageing Management, Late Blooming Effect Flux Effect - The Chancellor, Masters And Scholars Of The University Of Oxford & Serco Limited & Rolls-Royce Power Engineering Plc
68. **Macc**, Pilot Gmes Atmospheric Service - University Of Leeds & Imperial College Of Science, Technology And Medicine & Met Office & European Centre For Medium-Range Weather Forecasts & King's College London & Cambridge Environmental Research Consultants Ltd & University Of The West Of Scotland
69. **Mediation**, Climate Change Impacts, Vulnerability, Adaptation, Assessment Methods - Sei Oxford Office Limited Stockholmenvironment Institute Oxford Office Sei Ltd
70. **Megapoli**, Urban, Regional And Global Atmospheric Pollution; Megacities; Hot Spots; Climate Effects, Intgrated Models And Tools; Assessment; Mitigation - King's College London & Met Office & The University Of Hertfordshire Higher Education Corporation & The Chancellor, Masters And Scholars Of The University Of Cambridge
71. **Mirage**, Temporary Rivers, Pom, River Basin Management Plans, Iwrm, Terrestrial And Aquatic Ecology, Ecohydrology, Reference Conditions - University Of Leeds & Natural Environment Research Council
72. **Monfispol**, Macromodeling, Econometric Models, Optimal Policy, Fiscal Policy, Monetary Policy, Dsge Models, Bayesian Estimation, Var, Imperfect Information - University Of Surrey & London Metropolitan University
73. **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 - The University Of Reading & Met Office & Natural Environment Research Council & Plymouth Marine Laboratory & Hr Wallingford Ltd & The Secretary Of State For Environment, Food And Rural Affairs & University Of Plymouth & European Centre For Medium-Range Weather Forecasts
74. **Nanex**, Nanotechnology, Exposure Scenarios, Occupational Exposure, Consumer Exposure, Environmental Release, Reach, Risk Assessment - Institute Of Occupational Medicine & Naneum Limited & Nanotechnology Industries Association

75. **Nanoimpactnet**, Nanomaterial, Nanoparticles, Health, Human, Environment, Impact, Risk, (Eco)Toxicity, Screening, Predictive Models, Life-Cycle, Public Perception, Eu Actionplan - University Of Plymouth & St Mary's University College Twickenham & Health And Safety Executive & University Of Surrey & Institute Of Occupational Medicine & Edinburgh Napier University
76. **Nanolyse**, Engineered Nanoparticles, Food Safety, Reference Materials, Imaging, Electron Microscopy, Mass Spectrometry - The Secretary Of State For Environment, Food And Rural Affairs
77. **Nanorettox**, Nanoparticles, Risk, Environment, Human Health, Toxicity, Reactivity, In Vitro, In Vivo, Cell Lines, Aquatic Invertebrates - King's College London & Natural History Museum & Imperial College Of Science, Technology And Medicine & Intrinsic Materials Limited
78. **Nanosustain**, Nanoproducts, Nanomaterials, Nanotoxicology, Toxicology, Ecotoxicology, Hazard, Impact, Exposure, Transport, Transformation, Fate, Sustainability, Use, Re-Use, Recycling, Treatment, Disposal - Institute Of Nanotechnology
79. **Nanotest**, Nanoparticles. Alternative Tests. (Q)Sar. Medical Devices. In Vitro Toxicity - University Hospitals Bristol Nhs Foundation Trust & Institute Of Occupational Medicine & Norsk Institutt For Luftforskning
80. **Nanother**, Nanoparticle, Diagnosis, Therapy, Cancer, Toxicology, Biodistribution, Efficiency, Hyperthermia - Rnai Nuovoprobe Ltd
81. **Nereids**, Gmes, Maritime Surveillance, Sar, High Resolution Optical, Data Fusion, Vessels Anomalies, Toolbox, Interoperable, Security, Fisheries, Maritime Transport, Integrite, Decision Support, Innovation - Eosphere Limited
82. **Neuronano**, Health Effects Of Nanoparticles, Risk Assessment, Blood-Brain Barrier, Nanoparticle Surface Characteristics, Nanoparticle-Biomolecule Corona, Nanoparticle Safety, Cellular And Molecular Mechanisms - The University Of Edinburgh & University Of Ulster
83. **Pegaso**, Iczm, Governance, Mediterranean, Black Sea, Ecosystem Approach, Climate Change, End-Users, Integrated Regional Assessment, Marine Spatial Planning, Participation, Sustainability Tools, Multi-Scale, Sdi, Responses - The University Of Nottingham
84. **Predict-Iv**, Pharmaceuticals, Toxicity Testing, Alternative Methods - Simcyp Ltd\*
85. **Qnano**, Nano - University Of Leeds & Natural History Museum & Institute Of Occupational Medicine & The University Of Exeter & Edinburgh Napier University
86. **Realisegrid**, Infrastructure Development, Grid Technologies, Scenario Analysis, Transmission Costs, Benefits - The University Of Manchester
87. **Recosy**, Redox Reactions, Radionuclide Transport, Safety Case - The University Of Manchester & Loughborough University
88. **Refresh**, Freshwater Ecosystems, Climate & Land Use Change, Adaptation, Mitigation, Restoration, Integration - The University Of Reading & University College London & Natural Environment Research Council & The Macaulay Land Use Research Institute

89. **Responses**, Climate Change, Emissions, Mitigation, Adaptation, Response Strategies, Scenarios, Modelling, Policy Analysis, Cost-Benefit Analysis, Sector Analysis - University Of East Anglia
90. **Safeland**, Landslides, Climate Change, Remote Sensing, Early Warning, Landslide Hotspots, Risk Management - King's College London & Trl Limited
91. **Safer**, Emergency Response, Civil Protection, Humanitarian Aid, Crisis Management, Risk, Rapid Mapping, Inscrit, Ercs, Floods, Fires, Volcanoes, Landslides, Earthquakes, Reference Maps, Assessment Maps - European Centre For Medium-Range Weather Forecasts & Infoterra Limited & Mapaction Trust
92. **Sarnet2**, Sarnet ; Severe Accident ; Network Of Excellence ; Astec ; Corium ; Containment ; Source Term - University Of Newcastle Upon Tyne & National Nuclear Laboratory Limited
93. **Seabilla**, Integrated Sea Border Surveillance, Maritime Security, Data Fusion, User Driven Project., Operamar, Eurosur, Non Conventional Sensors Improvements, Imagery Chain Management, Vessel Behaviour Analysis - University College London & Bae Systems (Operations) Ltd & University Of Portsmouth Higher Education Corporation
94. **Secure**, Geopolitical Risks, High Energy Prices, Costs Of Energy Interruption, Liberalised Energy Markets, Infrastructure Investments, Limits Of Cross-Border Capacities, Accidents To Energy Infrastructures, Im - University Of Bath
95. **Series**, Seismic Testing, Earthquake Engineering, Seismic Engineering, Testing Facilities - University Of Bristol & The Chancellor, Masters And Scholars Of The University Of Cambridge & The Chancellor, Masters And Scholars Of The University Of Oxford
96. **Sesti**, Weak Signals, Horizon Scanning, Emerging Issues, Science & Technology, Policy Support - The University Of Manchester
97. **Shel**, Fuel Cell; Materials Handling; Hydrogen; Hydrogen Refuelling; Certification; Hydrogen Infrastructure; Forklift Truck; Fuel Cell Vehicles - The University Of Hertfordshire Higher Education Corporation & Centre For Process Innovation Limited & Air Products Plc
98. **Soiltrec**, Soil Critical Zone; Mathematical Model; Soil Life-Cycle; Sustainability; Soil-Functions; Soil-Processes; Ecosystem Services; Policy - The University Of Sheffield & Natural Environment Research Council
99. **Somalox**, Oxy-Fuel Combustion, Lignite Power Plants, Retrofitting, Carbon Storage - The University Of Nottingham & Rwe Npower Plc
100. **Sophia**, Photovoltaic - Loughborough University
101. **Spard**, Rural Development, Policy Targeting, Spatial Econometrics, Modelling, Decision Support Tool, Common Monitoring And Evaluation Framework, Causal Relationships, Validation, Stakeholder, Expert Knowledge - The University Of Edinburgh
102. **Spirit**, Safety Based Design, Vulnerability Assessment, Cbre-Threat, Built Infrastructure - Hamilton Erskine Ltd & Ove Arup & Partners International Limited
103. **Style**, Structural Integrity Assessment, Lifetime Management, Assessment Tools, Ageing , Weld Repair - The University Of Manchester & University Of Bristol & British Energy Generation Ltd & Serco Limited

104. **Syner-G**, Earthquakes, Vulnerability, Seismic Risk, Buildings, City, Lifelines, Socio-Economic, Losses, Systems, Infrastructures - Willis Limited
105. **Technolife**, Sts, Participative Democracy, Imagined Communities, Icts, Converging Technologies, Gis - Cardiff University & Lancaster University
106. **Transphorm**, Transport; Air Pollution; Particulate Matter; Health Impacts; Integrated Assessment; Full Chain; Exposure; Modelling; Concentration-Response Functions; Ultrafine; Pm1; Pm2.5; Pm10; Particle Number - The University Of Hertfordshire Higher Education Corporation & Institute Of Occupational Medicine & Imperial College Of Science, Technology And Medicine
107. **Uncertweb**, Service Discovery, Service Chains, Uncertainty Propagation, Geoss, Interoperability - Aston University & The Secretary Of State For Environment, Food And Rural Affairs
108. **Wiser**, Water Framework Directive, Indicators, Uncertainty, Lakes, Coastal And Transitional Waters, Recovery Bournemouth - University & Natural Environment Research Council & University Of Hull & University College London

### **Institutional Networks**

1. **ACWG** between City University of London & ADELARD LLP and IPSC
2. **AMES** between University of Birmingham & National Physical Laboratory & British Nuclear Fuels plc & National Environmental Technology Centre & Health and Safety Executive of Great Britain and IE
3. **AQUILA** between United Kingdom Atomic Energy Authority & National Physical Laboratory and IES
4. **C&I** between United Kingdom Atomic Energy Authority & Environment Agency - UK & AEA Technology PLC & Energy and Environment Office - Imperial College London & British Coatings Federation and IES
5. **CEM NET** between Health and Safety Laboratory and IHCP
6. **CIPM-CCQM-OAWG** between Laboratory of the Government Chemist and IRMM
7. **Connect** between Centre for Ecology and Hydrology and IES
8. **ENERO** between National Environmental Technology Centre and IES
9. **ENGL** between Central Science Laboratory & Scottish Agricultural Science Agency & Food Standard Agency & Laboratory of the Government Chemist and IHCP
10. **ENSEMBLE** between University of Manchester & Tyhe British Met. Office and IES
11. **ERM** between Laboratory of the Government Chemist and IRMM
12. **ESARDA** between United Kingdom Atomic Energy Authority & British Nuclear Fuels plc & Department of Trade and Industry and IRMM
13. **E-SCSIE** between National Information Security Coordination Centre and IPSC
14. **EU ExpoNet** between Department for Environment, Food and Rural Affairs & Safety of Chemicals in Consumer Products and IHCP
15. **EU NCTM** between Health and Safety Executive of Great Britain and IHCP
16. **EurAqua** between Centre for Ecology and Hydrology and IES

17. **EUREC** between Loughborough University & Northumbria University & Rutherford Appleton Laboratory & New and Renewable Energy Centre - NaREC & IT Power Ltd. & Garrad Hassan and IES
18. **EUROMET** between Laboratory of the Government Chemist and IRMM
19. **GBA 2000** between Flasse Consulting and IES
20. **INSPIRE** between Environment Agency - UK & Department for Environment, Food and Rural Affairs & Ordnance Survey and IES
21. **IOCCG** between Southampton Oceanography Centre and IES
22. **ITWG** between Atomic Weapons Establishment and ITU
23. **JCTLM** between National Institute for Biological Standards and Control & Laboratory of the Government Chemist and IRMM
24. **JEPPIM** between National Physical Laboratory & Laboratory of the Government Chemist and IRMM
25. **JRC TF MATHMOD** between Central Science Laboratory and IHCP
26. **Landscape Europe** between University of Nottingham & Forum for the Future & Countryside Council Wales & Centre for Ecology and Hydrology and IES
27. **NESC** between University of Birmingham & British Nuclear Fuels plc & Health and Safety Executive of Great Britain and IE
28. **NET** between University of Manchester & National Physical Laboratory & University of Salford & Imperial College London and IE
29. **PEER** between Centre for Ecology and Hydrology and IES
30. **QSAR WG** between Industrial Chemicals Unit and IHCP
31. **RAMI** between Centre for Terrestrial Carbon Dynamics (CTCD), Department of Geography & Climate and Land Surface Systems Interaction Centre, Department of Geography and IES
32. **REM – ECURIE** between Nuclear Industries Directorate, Department of Trade and Industry & Radioactive Incident Monitoring Network and IES
33. **REM – EURDEP** between Radioactive Substances Division and IES
34. **REM – REMdb** between Food Standard Agency & Aviation House & Department for Environment, Food and Rural Affairs and IES
35. **Sensitivity-analysis** between Cass Business School and IPSC
36. **TC C&L** between Health and Safety Executive of Great Britain and IHCP
37. **TC NES** between Health and Safety Executive of Great Britain and IHCP
38. **TM Biocides** between Health and Safety Executive of Great Britain and IHCP
39. **Official Crl-Nrl Network On Food Contact Material** between Food Standard Agency and IHCP
40. **VERMI** between National Physical Laboratory and IRMM
41. **WG PBT** between Health and Safety Executive of Great Britain and IHCP
42. **WMO/GAW and WOUDC** between University of Manchester and IHCP

43. **Member States Official Laboratories For The Eu Wine Databank** between Central Science Laboratory and IHCP