

# Inventory of research on sustainability at the VU

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This document is an inventory of the research on sustainability at the VU. The scope of the inventory is Individual researchers. The inventory will be updated annually to keep track on the change in the amount of research performed.

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## **1. Introduction**

As a university we have an obligation towards society: provide it with the information necessary for development. As sustainability is becoming more and more of a main topic for mankind our research should focus on this topic as well.

We noticed that a lot of researchers at the Vrije Universiteit (VU) Amsterdam are doing individual research on sustainability, sometimes without working together. The Green Office would like to see more interdisciplinary research on sustainability. This wish led to the development of an inventory of sustainability in all research conducted at the VU.

This inventory is the third version to create an overview of all the research on sustainability conducted at the VU Amsterdam . This inventory is and always will be a work in progress. Academic research is an ever-changing subject. All researchers are categorized on the topics Ecosystem services, Waste management, Water management, Environmental economics, Energy, Environmental policy, and others. All the names of the researchers are links that will send you to their respective VU pages, so you can find more about them if you wish.

Hopefully this inventory will incite students, researchers and Education- and Program directors to reach out and update the information.

For updates or questions, please email [research@greenofficevu.nl](mailto:research@greenofficevu.nl)

## 2. Ecosystem services

### 2.1 Faculty of Economics and Business Administration

**Dr. R.H. Oostendorp** Soil and water conservation techniques

**Prof. dr. ir. G. van der Laan** River sharing problem

**Dr. R. Heijungs** LCA

**Dr. H.E.D. Houba** River sharing problem

**Dr. M.A. Estevez Fernandez** River sharing problem

### 2.2 Faculty of Earth and Life Sciences

**Prof. dr. J.W. Erisman** Optimizing food production and energy use while minimizing the environmental impacts

**Dr. A.G.C.A. Meesters** Optimum vegetation characteristics,

**Dr. Ir. C.A.M. van Gestel** Soil organisms as bioindicators of metal toxicity in metal-mine waste polluted soils under different scenarios of climate change

**O. Franken MSc.** Community responses to extreme events explained by life-history traits of species

**A. Ooms MSc.** Linking traits of plants and macro-detritivores to ecosystem services

**Prof. Dr. R. Aerts** Global change factors on ecosystem biogeochemistry and species diversity (atmospheric nitrogen deposition, elevated CO<sub>2</sub> concentrations, warming, changes in hydrology)

**Prof. Dr. J.H.C. Cornelissen** How different plant species control carbon cycling processes, and how this help us to understand the consequences of global changes through shifts in vegetation composition.

**E. van Egmond MSc** Coastal systems

**I. L. Leewis MSc** Coastal ecology

**Dr P.J.H. van Beukering** Natural resource management and economic valuation focused on ecosystem services and renewable energy.

**Dr J.A. Bouma** Design and evaluation of policy instruments, Governance of ecoystems, Analysis of self-enforcement and natural resource management

**Y. Budiyo MSc.** Decision support system, dynamic model, wetland ecosystem

**S.S.K. Scholte MSc.** Ecosystem services valuation, landscape ecology, environmental policy, environmental communication

**Dr. Ir. C.I.E. Schulp** Spatial modelling, ecosystem services, biodiversity, GIS, soil science, land use change, land use history

**J. Stuerck MSc.** Spatial analysis, ecosystem services, multifunctional landscapes, flood regulation

**Dr. A.J.A. van Teeffelen** Spatial modelling, EU biodiversity policy, biodiversity policy instruments (e.g. protected area networks offsetting, habitat banking), climate change impacts and adaptation strategies, metapopulation ecology, landscape ecology, ecosystem services, resilience and ecosystem restoration

**Prof. dr P.H. Verburg** Land change analysis, spatial analysis and modeling, landscape ecology, ecosystem services, interdisciplinary analysis of human-environment interactions, decision support systems, scenarios, multi-functional land use

**W. Verhagen MSc.** Landscape ecology, Ecosystem Services, Spatial analysis, Land use Land cover, Human-environment systems, Sustainable Development, ArcGIS, R statistical software

**Drs. A.J. Wagtendonk** Environmental economics (GIS based valuation of ecosystem services) and land use modelling (evaluation of land use change)

**S. Wolff MSc.** Ecosystem Services, Spatial Planning, Policy Analysis, Urban Flood Management, Coastal Zone Management

**B.T. van Zanten MSc.** Ecosystem Services Valuation Studies, Geographical Information Systems (GIS), Spatial Modelling

**M.L. Derkzen MSc.** Urban ecology, climate adaptation, international development, spatial planning, land use and geospatial analysis

**Dr. E.H. van der Zanden** Land use change analysis, soil erosion measurement and modeling

**Dr M.J. Koetse** Environmental economics; Energy economics; Transport economics; Meta-analysis; Choice theory; Choice modelling; Environmental and non-market valuation; Cost-benefit analysis. Ecosystem services

### *2.3 Faculty of Social Sciences*

**Andriamarovololona, M.** Human-Environment interactions, Institutions (formal and informal) and mechanisms (incl. REDD+ and CBNRM) of natural resource management, Environmental values: diversity and representations, Human rights/indigenous people and nature conservation

### 3. Waste management

#### 3.1 Faculty of Economics and Business Administration

**Prof. dr. R.H.J.M. Gradus** Unit-based pricing on household waste collection demand, cost effectiveness of recycling of household waste

**Dr. Ir. D.A.M. Inghels** Sustainable waste recovery, network design, system dynamics, LCA, network optimization

### 4. Water management

#### 4.1 Faculty of Economics and Business Administration

**Prof. Dr. M.W. Hofkes** Economic Effects of Floods

#### 4.2 Faculty of Earth and Life Sciences

**Prof. dr. H.L.F. de Groot** Flood protection and endogenous sorting of households

**Dr. A.G.C.A. Meesters** Rainfall runoff and erosion modelling

**Dr. P. Ziveri** Alkalinity and inorganic carbon in sea and ocean water

**Dr. D. G. Miralles** Climate hydrology

**Dr. H. Kooi** Natural and anthropogenic land subsidence, Global change impacts on subsurface thermal regime, Coastal and offshore groundwater resource dynamics, Permafrost hydrology, CO<sub>2</sub> storage and geothermal applications, Paleohydrology

**Prof. dr. F. Witte** Hydrology, Ecology, Effects of climate change on evapotranspiration and groundwater recharge of natural vegetation, Climate versatile modelling of vegetation patterns

**Prof. dr J.C.J.H. Aerts** Water management, Risk Management, Insurance, Decision support, Adaptation, Optimization techniques, climate change

**J. Englhardt MSc.** Flood damage modelling, risk assessment, climate change

**T. Haer MSc.** Agent-Based Modelling, Flood Risk Assessment, Climate Change, Adaptation

**Prof. dr M.W. Hofkes** Economic Modelling, Environmental Economics, Environment-Economy Trade-off, Green Accounting, Sustainable Economic Development, Economic Effects of Floods

**Dr. B. Jongman** Natural hazards; climate change adaptation; flood risk assessment and management; disaster risk reduction

**T.N. Kahsay MSc.** Sustainable agriculture, water resource management

**Dr. E.E. Koks** GIS, flood risk management and flood damage modelling, land-use change analysis, (spatial) economic analysis

**Dr R. Lasage** Climate change impacts, adaptation strategies, adaptive capacity and vulnerability research, water management, stakeholder workshops, project management

**Dr H. de Moel** GIS and spatial analyses, flood risk analysis and management, hydrological modelling, climate change impacts on hydrology

**S. Muis MSc.** The joint probability of extreme river discharge and storm surges and the implications for coastal risk management and adaptation

**Dr S. Munaretto** Policy analysis, water governance, climate policy, science-policy interactions, climate adaptation

**Drs. C.C.D.F. van Ree** Soil and groundwater issues including environmental impact assessment and sustainable development of the subsurface

**Dr P. Scussolini** Climatology, climate impacts, climate change, paleoclimatology, oceanography, ecology, micropaleontology, marine geochemistry

**J. Stuerck MSc.** Spatial analysis, ecosystem services, multifunctional landscapes, flood regulation

**Prof. dr R.S.J. Tol** Time series analysis, valuation, decision analysis, game theory, and integrated modelling, to environmental problems, in particular climate change, tourism, land use, and water management

**Dr P.J. Ward** Flood risk, water resources management, drought risk, hydrology, global modelling, storm surge modelling, GIS, climate change impacts; climate variability impacts, climate-water interaction

**S. Wolff MSc.** Ecosystem Services, Spatial Planning, Policy Analysis, Urban Flood Management, Coastal Zone Management

**M.C. de Ruiter Msc.** Natural hazards; flood risk assessment and management; disaster risk reduction; damage modelling

**D.L. de Voogt MSc.** Water governance, climate adaptation, flood risk management

**Dr. J. Dell'Angelo** Multilevel dimensions of cooperation and conflict over freshwater resources

## **5. Environmental economics**

### *5.1 Faculty of Economics and Business Administration*

**Prof. Dr. M.W. Hofkes** Economic Modelling, Environment-Economy trade-off, Green Accounting

**Prof. dr. F.A.G. den Butter** Groene Groei, Future studies, Economics of regulation, Environmental economics, Time series analysis.

**Dr. K.M.R. Boudt** Sustainability constraint on the mean-tracking error efficient frontier

**Dr. R.J.A. Klein Woolthuis** Sustainable innovation

**Prof. dr. E. Masurel** Sustainable entrepreneurship, SME's, Innovation

**Dr. K. van Bommel** CSR, evolution of sustainability reporting

**Prof. dr. J.C.J.M. van den Bergh** Environmental and resource economics, ecological economics

**Prof. dr. F. van der Ploeg** Carbon Tax, Green growth, Green Paradox

**Prof. dr. C.A.A.M. Withagen** Resource economics, Environmental economics and international trade, Green income accounting

**Prof. dr. P. Nijkamp** Environmental management, Sustainable development

**Dr. F.R. Bruinsma** Transport infrastructure, regional/urban economics

**Prof. dr. R.J.G.M. Florax** Spatial econometrics, spatial and environmental economics

**Dr. R. Janssen** Spatial decision support, Interactive geodesign workshops, Multicriteria analysis, Cost-benefit analysis, Valuation of ecosystem services

**Dr. E. Koomen** Land-use change analysis, Spatial modelling, Policy support

**Dr. S. Poelhekke** Foreign direct investments, Green havens and Pollution havens

**Dr. J.E.C. Dekkers** Land prices, Land use modelling, Geographical information systems, Regional economics, Geomarketing

**Dr. H.R.A. Koster** Natural gas extraction, earthquakes and house prices



**Dr. P. Mulder** Energy economics

**Dr. ir. J.H. Ansink** Water resource economics, cooperative resource management

**Dr. G.C. van der Meijden** Resource economics, environmental economics, growth theory

**Prof. dr. A.B. Dorsman** Energy and value issues, Energy economics and financial markets

## *5.2 Faculty of Earth and Life Sciences*

**Dr P.J.H. van Beukering** Natural resource management and economic valuation focused on ecosystem services and renewable energy.

**Dr W.J.W. Botzen** Natural disaster insurance, Climate policy, Natural disaster risk assessment and management, Individual risk perceptions and decision making

**T. Chatzivasileiadis MSc** Cost-effectiveness modelling, meta-analysis, applied econometrics

**E. Dellas MSc.** market-based instruments for environmental governance

**G. Doci MSc.** Joint investment, ways of collective action for investing in renewable energy at community level

**F. Estrada Porrua MSc.** Time-series econometrics, integrated assessment modeling, climate change scenarios and uncertainty

**Prof. dr M.W. Hofkes** Economic Modelling, Environmental Economics, Environment-Economy Trade-off, Green Accounting, Sustainable Economic Development, Economic Effects of Floods

**Dr M.J. Koetse** Environmental economics; Energy economics; Transport economics; Meta-analysis; Choice theory; Choice modelling; Environmental and non-market valuation; Cost-benefit analysis

**Dr. O.J. Kuik** CGE modelling, mitigation and adaptation to climate change, international trade and the environment, the economics of renewable energy

**Y. M. Kutluay MSc.** Meta-analysis, applied micro econometrics, economic valuation of climate change sensitive disease outbreaks

**M.T. Mattmann MSc.** Public preferences and economic valuation of hydropower production expansion in Switzerland as foreseen in the Swiss Energy Strategy 2050

**Drs. F.H. Oosterhuis** Economic analysis and assessment of environmental policies, Design and evaluation (ex ante and ex post) of economic instruments

**O. Sheremet MA.** Environmental economics, econometrics, economic valuation of ecosystem services, cost-benefit analysis, cost-effectiveness analysis, risk and uncertainty

**M.A. Talpur Msc** Natural Resource Economics, Mathematical Economics, Applied Econometrics

**Prof. dr R.S.J. Tol** Time series analysis, valuation, decision analysis, game theory, and integrated modelling, to environmental problems, in particular climate change, tourism, land use, and water management

**T.I.E. Veldkamp MSc.** GIS, natural hazards, risk assessment, land-use change analysis, spatial and environmental economic analysis, and catchment hydrology

**Dr K.F. van de Woerd** Social and economic drivers for the implementation of sustainable energy systems, focused on climate neutral neighbourhoods; Environmental strategies of energy and other companies. The role of companies in international environmental governance; Changing interactions between companies and environmental authorities; effectiveness of business environmental management and communicative policy instruments; Costs and business economic consequences of regulatory compliance.

**Dr. J.J. Dijk** Mechanism design, procurement auctions, payments for ecosystem services, environmental taxation, behavioural economics, experimental economics

**Dr. J.E. Blasch** (Applied) environmental, energy and climate economics; behavioural environmental economics; choice experiments; household surveys

### *5.3 Faculty of Social Sciences*

**Dr. F. den Hond** Corporate Social Responsibility, Institutional Theory, Organization Strategy

**I. Van Hille, Msc.** Organizing sustainable trade through multi-stakeholder partnerships

## 6. Energy

### 6.1 Faculty of Economics and Business Administration

**Dr. G.J. Franx** Electricity networks, electricity prices

**Prof. dr. E.T. Verhoef** Energy saving by firms

**Dr. P. Mulder** Energy economics, relationship energy use and urbanization in developing countries

### 6.2 Faculty of Earth and Life Sciences

**Y. Atalay MSc** Renewable energy policies of Middle Eastern countries

**Dr P.J.H. van Beukering** Natural resource management and economic valuation focused on ecosystem services and renewable energy.

**G. Doci MSc** Joint investment, ways of collective action for investing in renewable energy at community level

**B. van der Kroon MSc** Behaviour of households in Africa with respect to adopting renewable energy technologies

**Dr. O.J. Kuik** CGE modelling, mitigation and adaptation to climate change, international trade and the environment, the economics of renewable energy

**M.T. Mattmann MSc** Public preferences and economic valuation of hydropower production expansion in Switzerland as foreseen in the Swiss Energy Strategy 2050

**O.O. Osunmuyiwa MSc** CSR, Environmental management, Energy Policy, International Political Economics, International Law, Diplomatic Practice and Sustainable Development

**Dr M.J. Koetse** Environmental economics; Energy economics; Transport economics; Meta-analysis; Choice theory; Choice modelling; Environmental and non-market valuation; Cost-benefit analysis

**Dr. J.E. Blasch** (Applied) energy and climate economics; residential energy efficiency; behavioral biases; energy feedback; adoption of efficient electric appliances; household surveys; field experiments

### 6.3 Faculty of Law

**Drs. M Dieperink** Investments in wind energy, Legal framework for shale gas in The Netherlands.

## 6.4 Faculty of Science

**Prof. Dr. P. Lago** Green IT and Sustainability management, Service oriented architecting, Service oriented migration

**Dr. G. Procaccianti** Research interests focus on *Energy-Efficient Software*, i.e. analyzing the energy consumption of Software systems, through statistical and empirical methods, and establish a sound methodology for increasing the energy efficiency of ICT and Software solutions, Green IT

**Prof. dr. R. van Grondelle** Biophysics, Photosynthesis, Energy

**Dr. J. P. Dekker** Biophysics, Photosynthesis, Energy

**Dr. Jan Dekker Science** Business and Innovation of Renewable and Sustainable Energy

## 7. Environmental policy

### 7.1 Faculty of Economics and Business Administration

**Dr. A.J. Porter** Environmental communication, policy UNFCCC, Responsible innovation

**Prof. dr. F. van der Ploeg** Green paradox, Climate policies

**Prof. dr. R.S.J. Tol** Climate policy, Policy instruments, Scenario development

**Prof. dr. H. Verbruggen** International environmental policy, Environmental policy instruments

### 7.2 Faculty of Earth and Life Sciences

**Dr W.J.W. Botzen** Natural disaster insurance, Climate policy, Natural disaster risk assessment and management, Individual risk perceptions and decision making

**Dr J.A. Bouma** Design and evaluation of policy instruments, Governance of ecosystems, Analysis of self-enforcement and natural resource management

**T.F.M. Etty, LL.M** European Union law, Transnational environmental law and policy, Agricultural biotechnology governance, Risk regulation and novel technologies, Food safety law and ethical and sustainable food production, Implementation and enforcement of EU environmental policy, Trade and environment nexus

**Dr N.M. van der Grijp** Environmental law and policy at the international, EU and national level, Applying social scientific research methods to evaluate how legal instruments are implemented in practice

**Dr D. Huitema** Policy learning & experimentation, policy entrepreneurs, policy innovation in polycentric systems, the and bioregional approach in environmental governance

**M. Isailovic MSc.** Fragmentation of global environmental governance in the issue area of climate change, biodiversity and maritime governance; Role of non-state agency and emerging institutional arrangements; North-South dynamics; Discourse analysis; Social network analysis; Project management and change management

**Dr. O.J. Kuik** CGE modelling, mitigation and adaptation to climate change, international trade and the environment, the economics of renewable energy

**Drs. E.M. Kunseler** Environmental Health, Policy Assessment, Science-Policy Interface

**Dr R. Lasage** Climate change impacts, adaptation strategies, adaptive capacity and vulnerability research, water management, stakeholder workshops, project management

**Dr. E.E. Massey** Climate change adaptation as a policy field, The evaluation of climate policy

**B.K. McFadgen MSc.** Environmental law, Environmental policy, Environmental management, Planning, and Resource management.

**P. Morseletto Mphil MA** Political side of the science-policy interface

**Dr S. Munaretto** Policy analysis, water governance, climate policy, science-policy interactions, climate adaptation

**O.O. Osunmuyiwa MSc.** CSR, Environmental management, Energy Policy, International Political Economics, International Law, Diplomatic Practice and Sustainable Development

**Prof. dr P.H. Pattberg** global environmental politics, with a focus on climate change governance, biodiversity, forest and marine governance, transnational relations, public-private partnerships, network theory and institutional analysis

**S.S.K. Scholte MSc.** Ecosystem services valuation, landscape ecology, environmental policy, environmental communication

**Dr A.J.A. van Teeffelen** Spatial modelling, EU biodiversity policy, biodiversity policy instruments (e.g. protected area networks offsetting, habitat banking), climate change impacts and adaptation strategies, metapopulation ecology, landscape ecology, ecosystem services, resilience and ecosystem restoration

**O.E. Widerberg MSc.** The research focuses on changing structure and agency in global environmental governance (GEG)

**Dr K.F. van de Woerd** Social and economic drivers for the implementation of sustainable energy systems, focused on climate neutral neighbourhoods; Environmental strategies of energy and other companies. The role of companies in international environmental governance; Changing interactions between companies and environmental authorities; effectiveness of business environmental management and communicative policy instruments; Costs and business economic consequences of regulatory compliance.

**Dr M.J. Koetse** Environmental economics; Energy economics; Transport economics; Meta-analysis; Choice theory; Choice modelling; Environmental and non-market valuation; Cost-benefit analysis

### *7.3 Faculty of Social Sciences*

**Prof. dr. Fred Fleurke** Spatial planning, public housing, urban renewal, environment policy, social security, waste management.

**Dr. J. E. Ferguson** Knowledge-intensive organizing toward sustainable development, Sustainable water governance

## **8. Others**

### *8.1 Faculty of Economics and Business Administration*

**Dr. S.G.M. van de Bunt-Kokhuis** Servant-Leadership

**Dr. B.R. Spisak** Sustainable Leadership

**Dr. A. Grinstein** Marketing, Sustainability

**Dr. F. van Horen** Green marketing

**M.H. van Dijk MSc** Sustainable behavior, Value profiles

**Drs. A.J. van der Wal** Sustainable consumer behavior, Sustainable marketing

**Dr. ir. E.S. van Leeuwen** Climate change, Rural development

**A. Shabani MSc.** Performance benchmarking, data envelopment analysis, logistics greenhouse gas emissions

**Prof. dr. W.E.H. Dullaert** network optimization, transport and distribution planning, vehicle routing

## 8.2 Faculty of Earth and Life Sciences

**Drs. Ir. M.G. van der Meij** Sustainable development

**Dr. B.J. Regeer** Sustainable development, sustainability innovation programs

**Prof. dr. A.J. Dolman** Ecohydrology, Carbon, CO<sub>2</sub>, methane

**Dr. M.A. Prins** Impact of climate change on sedimentary systems

**Dr. G.R. van der Werf** The global carbon cycle and interactions with the climate system

**Drs. C.T. Berridge** Terrestrial carbon cycle

**Drs. D.C. Kitoover** Integrating permafrost into an Earth System Model

**W.A.M. Jesse** Invasive species, exotic species

**Prof. Dr. J. Rozema** Interactions between climate change and the biosphere

**Dr. J.T. Weedon** Ecology, biogeochemistry, microbial ecology

**S. Bokhorst** System ecology, Antarctic

**L. Blauw MSc** System ecology, fire ecology

**Ir. S.C. Dijkstra** Affect of a green environment on health

**Prof. dr J. de Boer** Analytical chemistry, Environmental chemistry, Gas Chromatography/mass spectrometry, Preparation of (certified) reference materials, Proficiency tests and interlaboratory studies, Quality assurance, Polychlorinated biphenyls (PCBs), Flame retardants (BFRs, CFRs, PFRs), Marine litter and micro-plastics, Offshore pollution, Effect-directed analysis, Advice on highly toxic substances, Food safety (chemical)

**Dr W.J.W. Botzen** Natural disaster insurance, Climate policy, Natural disaster risk assessment and management, Individual risk perceptions and decision making

**Y. Budiyo MSc.** Decision support system, dynamic model, wetland ecosystem

**D.A. Eitelberg MSc.** Land use and land cover change modelling, landscape ecology, geospatial analysis, remote sensing and image analysis, time series analysis

**Dr A.J. van Hemert** Environmental issues from a science and technology studies (STS) perspective

**Dr. B. Jongman** Natural hazards; climate change adaptation; flood risk assessment and management; disaster risk reduction

**T.N. Kahsay MSc.** Sustainable agriculture, water resource management

**E.E. Koks MSc.** GIS, flood risk management and flood damage modelling, land-use change analysis, (spatial) economic analysis

**Dr. O.J. Kuik** CGE modelling, mitigation and adaptation to climate change, international trade and the environment, the economics of renewable energy

**Dr R. Lasage** Climate change impacts, adaptation strategies, adaptive capacity and vulnerability research, water management, stakeholder workshops, project management

**Prof. dr. ir. J. Legler** Environmental toxicology, molecular and cell biology, zebrafish developmental biology, bioassay development and validation, endocrine disruption, obesity, genomics, epigenetics

**C. Ornetsmueller MSc.** Land use and land system modelling, GIS, hazard & risk assessment, geomorphology, workshop facilitation

**Drs. C.C.D.F. van Ree** Soil and groundwater issues including environmental impact assessment and sustainable development of the subsurface

**Dr P. Scussolini** Climatology, climate impacts, climate change, paleoclimatology, oceanography, ecology, micropaleontology, marine geochemistry

**T.I.E. Veldkamp MSc.** GIS, natural hazards, risk assessment, land-use change analysis, spatial and environmental economic analysis, and catchment hydrology

**Prof. Dr. Ir. P.H. Verburg** Land change analysis, spatial analysis and modeling, landscape ecology, ecosystem services, interdisciplinary analysis of human-environment interactions, decision support systems, scenarios, multi-functional land use

**W. Verhagen MSc.** Landscape ecology, Ecosystem Services, Spatial analysis, Land use Land cover, Human-environment systems, Sustainable Development, ArcGIS, R statistical software

**Dr. Ir. J. van Vliet** Spatial analysis, Land use, Land change, GIS, Agent-based modeling

**Drs. A.J. Wagtendonk** Environmental economics (GIS based valuation of ecosystem services) and land use modelling (evaluation of land use change)

**B.T. van Zanten MSc.** Ecosystem Services Valuation Studies, Geographical Information Systems (GIS), Spatial Modelling

**K. Zelaya MSc.** Land use and land cover change modelling, land planning, remote sensing and image analysis, and geographic system information

**Dr L.A. Scherer** Agricultural practices and decision-making, Environmental impacts of water consumption, Degradation on regional and global scale, Sustainable



intensification of agriculture in the EU. Spatial analysis and modelling, water footprints, life cycle assessment, sustainable intensification.

**Dr. J. E. Vonk** Permafrost, Arctic, inland and coastal waters, biogeochemistry

**Dr. Ž. Malek** Land change, Spatial analysis and modeling, Scenarios, Multi-functional land use, Geographic Information Systems (GIS), Remote sensing

**Dr. R. Fuchs** Land change analysis, spatial analysis and modeling, landscape ecology, GIS, remote sensing, land dynamics, land history, historic land reconstructions, climate change

**Dr. J. Lehtomäki** Spatial conservation planning, spatial conservation prioritization, landscape ecology, conservation decision analysis, open science, data management

**Dr. J. van Huissteden** Wetlands and river plains, carbon fluxes from terrestrial environments, ice ages with an emphasis on modelling

**N. Debonne** Msc. modeling land system change, large-scale land acquisitions, global land markets

### *8.3 Faculty of Humanities*

**Prof. Dr. P.J.E.M. van Dam** Water management history, ecological- or environmental history, social-economic history, middle ages or early modern history

**Dr. S.J. Kluiving** Sedimentology, Structural geology, Glacial processes, Geophysics, Microstructural analysis (micromorphology), Interdisciplinary research

**Dr. S.W. Verstegen** Environmental history, Natural protection, Rural elite

### *8.4 Faculty of Law*

**Dr. Agnieszka A. Machnicka** The role of intellectual property law in the protection of global goods – environment, health and cultural heritage. It addresses issues of climate change, access to essential medicines, and the protection of cultural legacies

**R. Mellenbergh** Company law, financial law, property law, contract law, (environmental) liability law

**T. Last Msc** Concepts and theories of migration, human rights, human capabilities, migration and development, migration governance, adaptation to environmental change

### 8.5 *Faculty of Science*

**Prof. Dr. P. Lago** Green IT and Sustainability management, Service oriented architecting, Service oriented migration

**Prof.dr.ir. Bart Bossink** Corporate sustainable innovation

**Dr. I. Malavolta** Data-driven software engineering, empirical software engineering, software architecture, mobile software, robotics.

### 8.6 *Faculty of Social Sciences*

**Dr. H. Koerten** Collaboration among organizations and individual researchers in Europe for digital data sharing in biodiversity research.

## 9. Follow up

An annually follow up will be performed by a mailing to the faculties of the VU with the request of possible updates on the inventory.