

Research programme (chair group):

Changing Governance, Governing Change (Public Administration and Policy group)

Programme leader(s):

Prof. Dr. C.J.A.M (Katrien) Termeer

1. Objectives and Research Area

1.1 Vision, Mission, and Objectives

Vision

The Public Administration and Policy group is a young and enthusiastic team of researchers, fascinated by how current sustainability issues fundamentally challenge the practices and theories of public governance. Uncertainties, contested values, and complex interdependencies across scales¹ make problems such as adaptation to climate change² or sustainable agrifood chains³ inherently 'wicked'. Because it is impossible to handle wicked problems effectively with standard policies and within the usual administrative institutions, we focus on innovative governance strategies and arrangements, varying from local self-organising communities⁴ to global public-private partnerships⁵. Our research focuses on the Netherlands, the EU, developing countries, and global institutions⁶. By leveraging our disciplinary and interdisciplinary expertise, we aim to make inspiring and innovative contributions to both science and practice.

Mission

Our mission is to develop and combine theories to analyse how actors, embedded in institutions, govern wicked problems, and to use the generated insights to co-design governance arrangements that enable more sustainable outcomes.

Objectives

Our objectives are to (1) make world-leading contributions to governance theories in disciplinary and interdisciplinary fields (scientific quality); (2) contribute to critical reflection on, and improvement of, governance practices (policy impact); and (3) engage in reflexive debates worldwide with colleagues, societal actors, and students (societal debates).

1.2 Research lines

When innovative governance strategies and arrangements are brought into practice, they often run into tensions with existing institutions, making it necessary to change the governance system itself to enable them. To address this puzzle, we developed the research programme *Changing Governance and Governing Change* six years ago, and it has become even more relevant today. We therefore built on our previous programme along three cross-cutting research lines (Figure 1.1):

1. **Patterns of change:** This line analyses the mechanisms underlying continuity and change in policies and governance arrangements and how existing governance institutions enable or constrain these patterns⁷.
2. **Interconnectivity.** Wicked problems cut across the usual boundaries between sectors, scales, public and private spheres, science and policy, and diverse normative frameworks⁸. This line develops an understanding of (1) how actors operate across these boundaries and to what effect and (2) which institutional forms foster interconnectivity across these boundaries (e.g. boundary objects, collaborative networks, international norms, or mainstreaming instruments).
3. **Governance capabilities:** This line develops an integrative approach for assessing and co-designing governance arrangements⁹. We have structured various strands of scholarship into the novel framework of five governance capabilities that are crucial for coping with wicked problems: reflexivity, resilience, responsiveness, revitalisation, and rescaling.

Changing Governance Governing Change

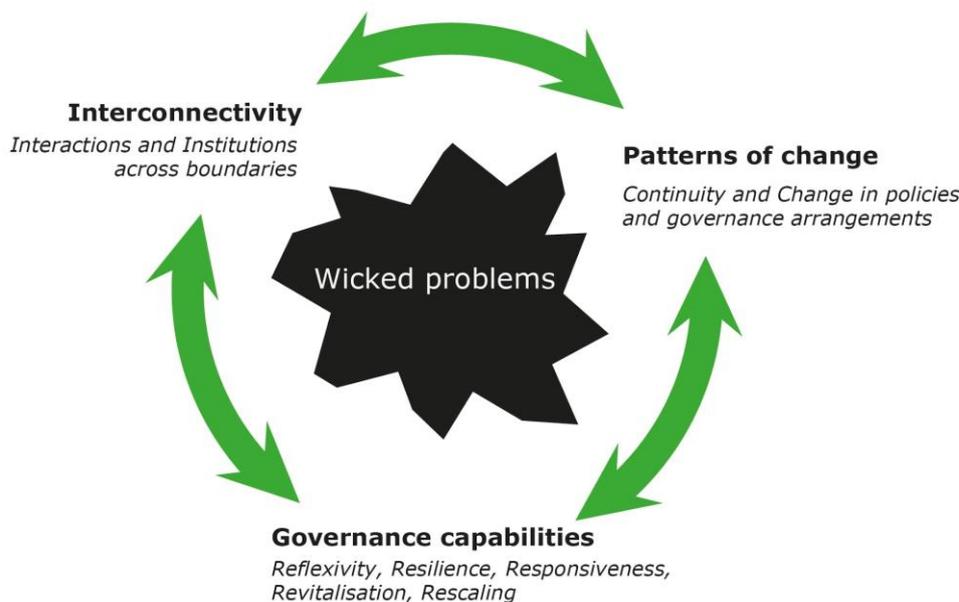


Figure 1.1 Three research lines within the Changing Governance, Governing Change programme

1.3 Strategy

To achieve our threefold ambitions, the following strategies have been developed:

Scientific quality

Our group makes optimal use of its unique position as a public administration group in a internationally oriented life-science university by focusing on the governance of wicked problems. We developed the following principles to guarantee scientific quality and develop a recognisable niche:

1. Research based on strong disciplinary foundations of public administration, political science, and organisational science, combined with interdisciplinary insights on environmental governance¹⁰;
2. The deliberate use of a variety of methods (multi-method) and theories (theoretical multiplicity¹¹);
3. Strong methodological approaches for revealing comparative insights within and across various research projects¹²;
4. An active publication strategy through courses, coaching, brainstorming in 'food for thought' meetings, and monthly discussions of draft papers

This has resulted in many articles in both disciplinary and interdisciplinary journals, with a very high impact. Key theoretical contributions include: a social mechanism perspective on policy change (research line 1), the concept of interactional framing (research line 2), and the novel framework of governance capabilities (research line 3).

Policy impact

We intensively engage stakeholders in our research in various ways, varying from collaborative action research to multi-stakeholder workshops and consultancy. This has resulted in leading positions in large-scale action research programmes with intensive collaboration with various societal stakeholders: Governance of Climate Adaptation (Knowledge for Climate), SUSPENSE project on Environmentally Sustainable and Equitable Palm Oil (INREF), Mountain-EVO project on Adaptive Governance of Mountain Ecosystem Services (UKRC). Through long-term relationships with stakeholders, we go beyond written recommendations and make a difference in policy practices.

Engagement in societal debates

Besides the intensive collaboration with groups of selected stakeholders, we also aim to reach a broader audience and to contribute to societal debates. For this purpose, we publish in professional journals, participate in discussion platforms, write blogs and tweets, give interviews, and contribute to training programs. The increased visibility of our group results in numerous invited keynotes and lectures at inspiring societal events.

1.4 Research environment and embedding

Social Science group and WASS research school

The Public Administration and Policy group is part of the section Sociology and Governance in the Social Science group. All staff members are embedded in the WASS graduate school. One of our PhD candidates chaired the PhD Council, and one of our core staff members chairs the WASS Research and Assessment Committee. We collaborate closely with other groups engaged in governance research, such as ENP, FNP, LAW, and COM. The awarded prestigious NWO Smart Governance grant on 'second generation governance arrangements for sustainable value chains' convincingly shows how three Wageningen governance groups strengthen one another.

Wageningen University

Through joint proposals, projects, and co-supervision of PhDs, we collaborate with various natural science groups from environmental sciences (on climate change, rural development, water management, ecosystem services), animal sciences (on intensive livestock), and plant sciences (on sustainable palm oil and seed governance). We co-lead the university-wide programmes *Scaling and Governance* and *Informational Governance*.

National

We collaborate intensively with water and climate governance groups at the universities of Rotterdam, Amsterdam, Utrecht, Nijmegen, and Twente. We are also well embedded in the Netherlands Institute of Government (NIG) and the Dutch School for Public Administration (NSOB). We have strong linkages with the Netherlands Environmental Assessment Agency (PBL), with several ministries (Economic Affairs, Interior, Foreign Affairs, Infrastructure and Environment), provinces, waterboards and municipalities, with private companies in the agrifood chain (e.g. Unilever, VION, UTZ), and with NGOs (e.g. Oxfam, Dutch Farmers' Organisation).

International

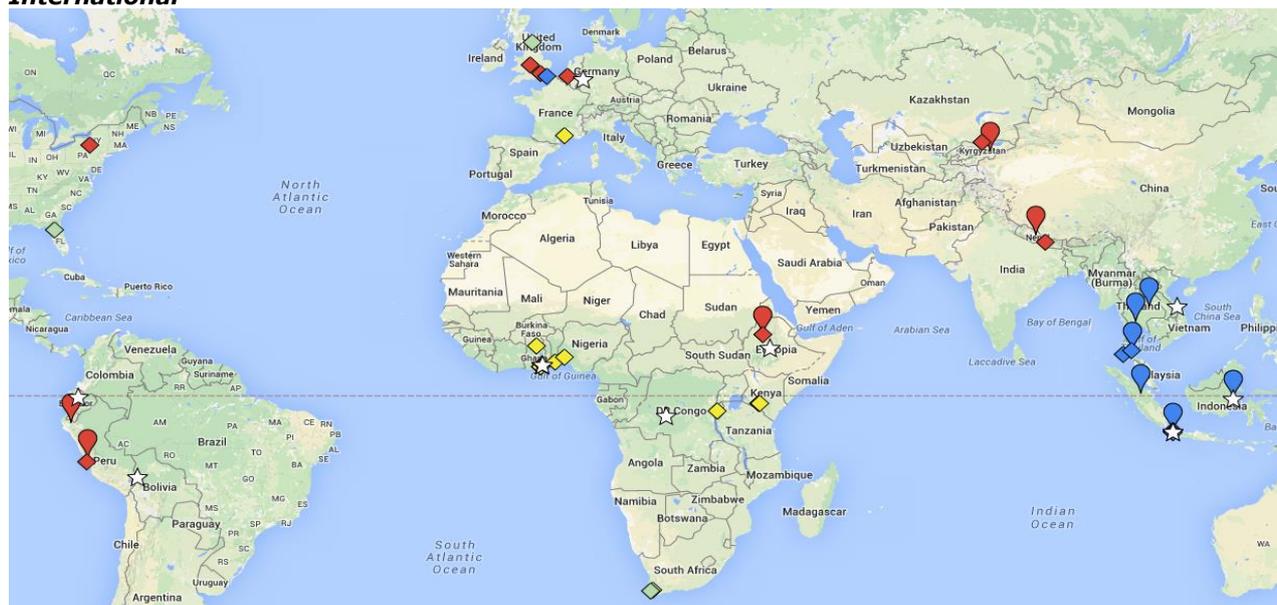


Figure 1.2. International project locations

EVOCA project partner ◆ ; Mountain-EVO project partner ◆ and case study site 📍 ; SUSPENSE project partner ◆ and case study site 📍 ; Food System Governance project partner ◆ ; International PhD projects ★

We collaborate with key international players by leading and participating in various international projects and networks, international seminars, joint applications, contributions to edited volumes, and co-authorships. In the field of water and climate governance, we collaborate with institutes like the University of East Anglia, Stockholm Resilience Centre, Imperial College London, McGill University, and Cornell University. In the field of agrifood chains, we collaborate with CIFOR (Indonesia) and the universities of Oxford, Florida, Newcastle, Stellenbosch, and Cape Town. Figure 1.2 gives an overview of project partners and case study sites in our international projects.

1.5 References

1. Termeer, C.J.A.M., Dewulf, A., & van Lieshout, M. (2010). Disentangling scale approaches in governance research: Comparing monocentric, multilevel, and adaptive governance. *Ecology and Society*, 15(4), article 29.
2. Biesbroek, G.R., Termeer, C.J.A.M., Klostermann, J.E.M., & Kabat, P. (2014). Rethinking barriers to adaptation: Mechanism-based explanation of impasses in the governance of an innovative adaptation measure. *Global Environmental Change*, 26, 108–118.
3. Schouten, G., & Glasbergen, P. (2012). Private multi-stakeholder governance in the agricultural market place: An analysis of legitimization processes of the roundtables on sustainable palm oil and responsible soy. *International Food and Agribusiness Management Review*, 15(B), 63–88.
4. Termeer, C.J.A.M., Stuiver, M., Gerritsen, A., & Huntjens, P. (2013). Integrating self-governance in heavily regulated policy fields: Insights from a Dutch Farmers' Cooperative. *Journal of Environmental Policy & Planning*, 15(2), 285–302.
5. Hospes, O. (2014). Marking the success or end of global multi-stakeholder governance? The rise of national sustainability standards in Indonesia and Brazil for palm oil and soy. *Agriculture and Human Values*, 31(3), 425–437.
6. Karlsson-Vinkhuyzen, S.I. (2012). From Rio to Rio via Johannesburg: Integrating institutions across governance levels in sustainable development deliberations. *Natural Resources Forum*, 36(1), 3–15.
7. Breeman, G., Scholten, P., & Timmermans, A. (2014). Analysing local policy agendas: How Dutch municipal executive coalitions allocate attention. *Local Government Studies*, 41(1), 1–24.
8. Dewulf, A., Mancero, M., Cardenas, G., & Sucozhanay, D. (2011). Fragmentation and connection of frames in collaborative water governance: A case study of river catchment management in Southern Ecuador. *International Review of Administrative Sciences*, 77(1), 50–75.
9. Termeer, C.J.A.M., Dewulf, A., Breeman, G., & Stiller, S. J. (2013). Governance capabilities for dealing wisely with wicked problems. *Administration & Society*. doi:10.1177/0095399712469195
10. Termeer, C.J.A.M., & van den Brink, M.A. (2013). Organizational conditions for dealing with the unknown unknown. *Public Management Review*, 15(1), 43–62.
11. Termeer, C.J.A.M., & Dewulf, A. (2012). Towards theoretical multiplicity for the governance of transitions: The energy-producing greenhouse case. *International Journal of Sustainable Development*, 15(1/2), 37.
12. Dupuis, J., & Biesbroek, R. (2013). Comparing apples and oranges: The dependent variable problem in comparing and evaluating climate change adaptation policies. *Global Environmental Change*, 23(6), 1476–1487.

2. Resources and Facilities

2.1 Researchers

The Public Administration and Policy group was founded in November 2005 and has steadily grown over the review period from 4.5 FTE research staff to 8.2 FTE research staff. Currently, it employs 6 scientific staff (a new colleague is currently being hired) and 3 postdocs, balanced in terms of age, gender, and nationalities. In addition to the 8 PhD candidates based at our group, we (co-) supervise over 10 (internal and external) PhD candidates based at other groups.

Table 2.1 - Research staff at Chair Group level

	2009		2010		2011		2012		2013		2014	
	#	FTE	#	FTE	#	FTE	#	FTE	#	FTE	#	FTE
Scientific staff ¹	5	1.71	5	1.64	6	1.9	6	2.0	7	1.91	6	2.32
Post-docs ²			1	0.15	1	0.45	2	0.47	3	1.62	4	1.71
PhD candidates ³	4	2.85	5	2.85	4	2.85	7	3..45	7	4.24	8	4.18
Total res. staff	9	4.56	11	4.64	11	5.2	15	5.93	17	7.77	17	8.21

#: Total number of staff members

FTE: Research Capacity in Full Time Equivalent (not for laboratory technicians)

Standards for Research Capacity (in case of part time appointment adjustment is needed):

¹Professor, Assistant Professor, and Associated Professor: Research Capacity = 40% of the appointment

²Post-doc: Research Capacity amounts to 90% of the appointment (if not otherwise specified)

³PhD candidate: Research Capacity amounts to 75% of the appointment (all categories)

2.2 Research Funds

The Public Administration and Policy group has succeeded in growing and remaining financially healthy in times of cuts in both internal and external funding sources. The total budget has grown from **750k€** in 2009 to **1.4m€** in 2014. We have never had a deficit, and we have built up a large capital of our own, which we have used to finance the development of new research lines.

Two thirds of the funding at chair group level is **direct funding** by the university. Apart from funding through education and a small lump sum for research allocated to each chair group, this includes substantial amounts of **competitively acquired funding** from the university's strategic research funds (*Scaling and Governance* programme, *Informational Governance* programme), and research for development funds (*Sustainable Palm Oil* programme, *Responsible Innovation* programme).

The other third of the funding at chair group level comes from contract research, consisting of three main sources: **smaller research assignments** commissioned by public and private actors; **large research grants** such as the Knowledge for Climate programme on Governance of Adaptation (4.5m€) or the Adaptive Governance of Mountain Ecosystem Services project funded by the UK Research Council (1.8m€); and teaching **post-academic courses** for Dutch and international professionals.

The research grants row in the funding table (Table 2.2) is empty because it only covers grants from the Dutch research council or individual ERC grants. We did obtain two research grants from the **UK Research Council** (*ESPA* programme, total budget over 2m€), but these are classified under Contract Research in Table 2.2. In 2014, the Public Administration and Policy group led and won two bids for research grants from the **Dutch Research Council (NWO)**: Smart Governance ('Next generation governance arrangements for sustainable global value chains' (700k€) and New Delta ('Towards governance arrangements that enable forward-looking decisions on critical water infrastructure' (305k€). As these projects will start running in 2015, this funding does not show up yet in Table 2.2.

Table 2.2 - Funding at chair group level

	2009	2010	2011	2012	2013	2014	Average 2009–2014
Chair Group							
<i>Funding:</i>							
Direct funding (1)	3.1/67%	2.7/59%	2.5/48%	3.9/67%	5.1/66%	5.4/66%	3.8/62%
Research grants (2)	-	-	-	-	-	-	-
Contract research (3)	1.5/33%	1.9/41%	2.7/52%	2.0/33%	2.7/34%	2.8/34%	2.3/38%
Total funding	4.6/ 100%	4.6/ 100%	5.2/ 100%	5.9/ 100%	7.8/ 100%	8.2/ 100%	6.1/ 100%
<i>Expenditure</i>	<i>(to be delivered by the central administration of the graduate school)</i>						
Personnel costs	557/74%	586/75%	712/68%	748/69%	907/83%	1.014/71%	754/73%
Other costs	194/26%	198/25%	333/32%	330/31%	188/17%	421/29%	277/27%
Total expenditure	750/ 100%	784/ 100%	1.045/ 100%	1.078/ 100%	1.095/ 100%	1.434/ 100%	1.031/ 100%

Note 1:	Direct funding by the university
Note 2:	Research grants obtained in national and international scientific competition (e.g. grants from NWO, KNAW, and European Research Council)
Note 3:	Research contracts for specific research projects obtained from external organisations, such as industry, governmental ministries, European Commission, charity organisations

3. Research Quality

Bibliometric analysis shows that our research and publication strategy has proved to be very successful. According to the bibliometric analysis done by the library, our Relative Impact score of 3.5 is the highest of all WASS groups and can be qualified as 'excellent.'

Key publications

Eisenack, K., Moser, S.C., Hoffmann, E., Klein, R.J.T., Oberlack, C., Pechan, A., Rotter, M., & **Termeer**, C.J.A.M. (2014). Explaining and overcoming barriers to climate change adaptation. *Nature Climate Change*, 4(10): 867–872.

This publication involves a cooperation between highly reputed scholars on climate change adaptation and was published in a very high impact journal (impact factor over 15).

Termeer, C.J.A.M., **Dewulf**, A., **Breeman**, G., & **Stiller**, S.J. (2013). Governance capabilities for dealing wisely with wicked problems. *Administration & Society*. doi:10.1177/0095399712469195

This publication is the result of a joint conceptual development process among staff members and lays the foundation for our innovative research line on governance capabilities.

Biesbroek, G.R., Swart, R.J., Carter, T.R., Cowan, C., Henrichs, T., Mela, H., ... Rey, D. (2010). Europe adapts to climate change: Comparing national adaptation strategies. *Global Environmental Change*, 20(3): 440–450.

This publication is a landmark study on climate change adaptation policies in Europe and is among the 1% best cited articles, with a relative impact of 16.85.

Termeer, C.J.A.M., **Dewulf**, A., & **Lieshout**, M. Van (2010). Disentangling scale approaches in governance research: Comparing monocentric, multilevel, and adaptive governance. *Ecology And Society*, 15(4), article 29.

This publication illustrates our theoretical multiplicity approach of bringing together insights from different theories on scaling and governance (Top 10% best cited, RI 6.37).

Dewulf, A., Gray, B., Putnam, L., Lewicki, R., Aarts, N., Bouwen, R., & van Woerkum, C. (2009). Disentangling approaches to framing in conflict and negotiation research: A meta-paradigmatic perspective. *Human Relations*, 62(2): 155–193.

This theoretical paper has advanced framing theory and has inspired framing researchers in organisation and policy science (Top 10% best cited, RI 6.79)

3.1 Demonstrable products – Research products for peers in science

A substantial increase in high quality research output can be observed throughout the review period: the number of **refereed articles** doubled between 2009 and 2014 (see Table 3.1), and the number of refereed articles in **high impact journals** (WoS Q1) increased fivefold from 3 (in 2009) to 15 (in 2014). Two articles have been published in the very high impact journal **Nature Climate Change**, and another article and two Correspondences are coming up in 2015. The Public Administration and Policy group has also **edited books** with high quality publishers such as Wiley (on scale-sensitive governance) and Routledge (on action research for climate change adaptation). Although we attended many conferences, the number of conference papers has decreased due to our policy of not publishing full papers on conference websites.

Table 3.1 - Main categories of research output

	2009	2010	2011	2012	2013	2014	Total
Academic publications							
a. Refereed articles	15	17	18	15	26	29	120
b. Non-refereed articles	0	0	1	0	0	0	1
c. Books	0	2	4	0	1	0	7
d.1. Refereed book chapters	12	5	11	7	3	12	50
d.2. Non-refereed book chapters	7	0	2	0	0	0	9
e. PhD theses	0	0	1	1	0	4	6
f. Conference papers	14	8	7	6	6	5	46

3.2 Demonstrable use of products – Use of research products by peers

The excellent quality of the research output of the Public Administration and Policy group is demonstrated by its intensive use by other researchers, reflected in the citation analysis. No less than **38%** of our publications are among the **top 10% best cited** in their respective fields. **Five** publications are among the **top 1% best cited** ones. Furthermore, the **overall relative impact** across all our Web of Science publications between 2008 and 2013 is **3.35** times higher than the world average.

About 75% of our peer-reviewed articles are in the fields Social Sciences, General, and Environment/Ecology. It is noteworthy that the articles in Social Sciences, General, have a relative impact of 5, i.e. **5** times the world average.

Table 3.2 – Bibliometric analysis of research output

Year of publication	N	C	Wavg	CPP	RI	%T10 (#T10)	%T1 (#T1)
2008	3	126	35	42.0	4.20	67% (2)	0% (0)
2009	7	167	60	23.9	3.10	57% (4)	0% (0)
2010	15	321	133	21.4	2.94	33% (5)	13% (2)
2011	8	85	43	10.6	2.44	38% (3)	0% (0)
2012	12	78	33	6.5	2.59	25% (3)	8% (1)
2013	19	90	23	4.7	4.49	37% (7)	11% (2)
all years	64	867	328	13.6	3.35	38% (24)	8% (5)

Research field	N	C	Wavg	CPP	RI	%T10 (#T10)	%T1 (#T1)
Social Sciences, General	30	422	92	14.1	5.00	60% (18)	13% (4)
Environment/Ecology	18	224	161	12.4	1.53	6% (1)	6% (1)
Agricultural Sciences	7	41	29	5.9	1.14	14% (1)	0% (0)
Economics & Business	7	143	32	20.4	3.38	43% (3)	0% (0)
Geosciences	1	28	10	28.0	2.84	100% (1)	0% (0)
Psychiatry/Psychology	1	9	4	9.0	2.24	0% (0)	0% (0)
All fields	64	867	328	13.6	3.35	38% (24)	8% (5)

Quartile	N	C	Wavg	CPP	RI	%T10 (#T10)	%T1 (#T1)	%NC (#NC)
1	33	543	168	16.5	4.84	52% (17)	12% (4)	3% (1)
2	17	210	96	12.5	1.66	24% (4)	6% (1)	29% (5)
3	7	67	42	9.6	1.55	14% (1)	0% (0)	14% (1)
4	5	23	13	4.6	1.81	20% (1)	0% (0)	20% (1)
All quartiles	62	843	319	13.6	3.35	37% (23)	8% (5)	13% (8)

3.3 Demonstrable marks of recognition – Marks of recognition from peers

Science awards, Scholarly prizes, Research grants awarded to individuals		
Year	Prize description...	Person
2014	Best PhD thesis award from Sociedade Brasileira de Economia, Administração e Sociologia Rural	Nakagawa (PhD candidate co-supervised by Hospes)
2014	Best Paper Award at 3rd International Symposium on Cross Sector Social Interactions	Schouten
2013	Best Paper Award on Cross-Sector Social Interactions at MOPAN Conference	Dewulf
2011	Fourth best cited article in Public Administration between 1986 and 2011	Termeer
Plenary/Keynote Lectures at major conferences		
Year	Person	Conference
2014	Termeer	Bremen: International Conference on Regional Climate Adaptation and Resilience

2014	Termeer	Copenhagen: Third Nordic International Conference on Climate Change Adaptation
2014	Hospes	Beijing: Conference Food Security, Sustainability and the Law: the Governance Challenges of Food Systems
2013	Biesbroek	Riga: BALTADAPT Conference Adaptation to Climate Change in the Baltic Sea Region
2013	Hospes	Lecce: International Workshop on Agroecology and Law: A Transdisciplinary Dialogue
2013	Karlsson-Vinkhuyzen	Reims: Third Rencontres Internationales de Reims on Sustainability Studies
Organisation of International Scientific Conferences		
<i>Year</i>	<i>Person</i>	<i>Conference</i>
2014	Termeer	Chair International Seminar on Informational Governance
2014	Dewulf	Organiser of Interpretive Policy Analysis Conference
2012	Dewulf	Chair of Multi-Organisational Alliances, Partnerships and Networks Conference
2011	Termeer	Convenor of the International Symposium Governance of Adaptation
2010	Termeer	Chair Scaling and Governance Conference
2013, 2014	Breeman & Candel	Organiser section on Food Governance (including 4-6 panels), General Conference ECPR
Editorships and editorial boards		
<i>Person</i>	<i>Journal</i>	<i>Editorship from... to...</i>
Karlsson-Vinkhuyzen	International Environmental Agreements	Editorial board (since 2015)
Termeer	Bestuurskunde (Dutch)	Editorial board (since 2005)
Termeer	International Journal on Water Governance	Editorial board (since 2013)
Dewulf	Sage Open	Editorial board (since 2013)
Dewulf	Journal of Water and Climate Change	Guest editor (2014)
Hospes	International Food and Agribusiness Management Review	Guest editor (2013)
Termeer	Ecology and Society	Guest editor (2013)
Memberships of academies		
<i>Person</i>		<i>Member of... from... to...</i>
Termeer	Van Poelje prize committee for best dissertation in Public Administration	2007–date
Karlsson-Vinkhuyzen	Wageningen Young Academy	2013–date
Karlsson-Vinkhuyzen	Senior Research Fellow of the Earth System Governance project	2014–date
Karlsson-Vinkhuyzen	Adjunct Professor in Global Environmental Governance, Helsinki University	2014–date
Hospes	Visiting Professor Nantes University	2011
Biesbroek	Brasz thesis award committee for best thesis in the Netherlands in Public Administration	2015–date

4. Relevance to Society

We are very proud of our extensive track record in engaging with both national and international public and private actors. This is a core part of many of our research trajectories and takes the form of long-term involvement with a policy network through coherent sets of activities such as contract research, consulting, invited lectures, training courses, workshops, media interviews, and practice-oriented reports. Below, we highlight two of these sets of activities in the domains of climate change adaptation and sustainable global value chains. Superscript numbers refer to specific examples of societally relevant research output in Table 4.1.

Governance of adaptation to climate change

Through collaborative action research in the 5-year Knowledge for Climate (KfC) programme on Governance of Adaptation, co-funded by societal stakeholders, Termeer, Vink, Van Vliet, and Dewulf contributed to evaluating, designing, and facilitating **local, regional, and national governance arrangements**^{1, 2, 21, 22}. As a spin off-of the same programme, Termeer led an intensive co-creation process between consortium scientists and societal stakeholders (including high-level officials from **Waterboards**, the **Delta Programme**, and **Rijkswaterstaat**) addressing eight practical governance challenges, such as flood-risk governance (Van Vliet), self-organisation (Termeer), and decision making for the long term (Dewulf). The involved stakeholders applied the new insights to their practices. We communicated the results to a broader group of stakeholders through intervention groups, a conference, a book on practical governance strategies for climate change adaptation³, media-interviews, and an on-line course for climate change adaptation professionals launched in April 2015 (Dewulf and Biesbroek). At national level, advice has been commissioned by the Delta Programme on adaptive delta management²³ (Termeer, Dewulf) and policy integration (Biesbroek, Dewulf, Termeer) – the latter report⁴ was produced jointly with the **Netherlands Environmental Assessment Agency** (PBL) and resulted in a new paragraph in the final Dutch Delta Programme that was presented to parliament. Through publications and workshops of the PEER project⁶, Biesbroek provided input for the development of the EU white paper on adaptation. Follow-up research commissioned by the European Environment Agency on national adaptation strategies⁵ (Biesbroek) has provided input for the baseline assessment for the **European Adaptation Strategy** Package.

Sustainable global agrifood chains

Through the co-funded SUSPENSE project on sustainable and equitable palm oil, led by Hospes, our group (Hospes, Schouten, Termeer, Pramudya) engages strongly with **private actors** that play key roles in this **global value chain**, such as Unilever, UTZ, and Oxfam. In palm-oil producing countries like Indonesia, Thailand, and Malaysia, the project works with national **governments and NGOs** who have different ideas about sustainably certified palm oil production. This has led to a vibrant **network** of governmental, business, scientific, and civil society actors on this topic in **South-East Asia**. In 2014, Hospes organised a Business–Science meeting²⁹ on sustainable palm oil with high-level representatives from the **agrifood sector** and was invited to several roundtable meetings on soy and palm oil. As a result, new strategic topics were adopted on the agenda of the RSPO, such as collaboration between private and public standards. In the Netherlands, our research on this controversial topic has led to extensive media coverage¹⁸⁻²⁰ (interviews for newspapers and television), advice commissioned by pension-fund investors²⁶ (Schouten), workshops²⁷ (Termeer, Hospes), and expert meetings²⁸ (Schouten) at the Dutch **Ministry of Foreign Affairs**, and key contributions (Hospes) to a **Cordaid** initiative on Biofuel Partnerships⁷. This research also provided a major contribution to the report on mainstreaming biodiversity commissioned by the **UN Convention on Biological Diversity**^{9,10} (Karlsson-Vinkhuyzen, Termeer, Hospes), feeding into a CBD COP meeting in South Korea in 2015 and the strategic decision of the CBD to develop a mainstreaming strategy.

4.1 Demonstrable products – Research products for societal target groups

Table 4.1 includes 10 examples for each of the three categories of societally relevant research output, limiting ourselves to examples relating to the impact narratives above.

Table 4.1 - Main categories of output for societal target groups

Professional publications and products (max. 10)

1. Boezeman, D., & Vink, M.J. (2012). Results of the workshop stakeholder analysis for the project "Dry feet 2050". Knowledge for Climate report (in Dutch).
2. Vink, M.J., & Mulligen, E. van (2012). Evaluation learning process Delta Programme IJsselmeer region. Knowledge for Climate report (in Dutch).
3. Termeer, C. (Ed.) (2014). Governance of climate adaptation: Practical strategies. Knowledge for Climate book (in Dutch).
4. Biesbroek, G.R., Termeer, C.J.A.M., Dewulf, A.R.P.J., Keessen, A.M., & Groothuijse, F. (2014). Integration in the Delta Programme. Exploration of challenges and possible strategies. Wageningen University (in Dutch).
5. Biesbroek, R., & Swart, R.J. (2014). National adaptation policy processes in European countries. Report for the European Environment Agency.

6. Swart, R.J., Biesbroek, G.R., Binnerup, S., Carter, T., Cowan, C., Henrichs, T., ... Rey, D. (2009). Europe adapts to climate change. Comparing national adaptation strategies in Europe . PEER project report.
7. Hospes, O., Rietberg, P., & Gevers, H. (2014). Seed governance: From seed aid to seed system security in fragile areas. Cordaid. Thematic overview.
8. Hospes, O. (2012). Conclusions and recommendations. In: J. Quinonez (Ed.), *Biofuel partnerships: From battleground to common ground? The effects of biofuel programs on smallholders' use of land and rights to land in four countries* (pp. 31–34). Cordaid.
9. Karlsson-Vinkhuyzen, S.I.S.E., Boelee, E., Cools, J., Visseren-Hamakers, I.J., Hoof, L.J. W. van, Hospes, O., & Termeer, C.J.A.M. (2014). *Mainstreaming biodiversity where it matters most*. Wageningen University & PBL Netherlands Environmental Assessment Agency.
10. Kok, M., Alkemade, R., Bakkenes, M., Boelee, E., Christensen, V., Eerdt, M. van, van der Esch, S., Janse, J., Karlsson-Vinkhuyzen, S., Kram, T., Lazarova, T., Linderhof, V., Lucas, P., Mandryk, M., Meijer, J., van Oorschoot, M. Teh, L., Van Hoof, L., Westhoek, H., & Zagt, R. (2014). *How sectors can contribute to sustainable use and conservation of biodiversity*. PBL Netherlands Environmental/Wageningen UR. CBD Technical Series No. 79.

Publications for the general public (max. 10)

11. Biesbroek, G.R. (2014). Barriers to adaptation: really? Blog of the International Institute for Applied Systems Analysis.
12. Biesbroek, G.R. (2014). Bestuurlijke uitdagingen voor klimaatadaptatie. *Rooilijn*, 66(4), 276–283.
13. Hammer, F., Termeer, C.J.A.M., & Thissen, W.A.H. (2012). Adaptief deltamanagement: slim omgaan met onzekerheden. *H2O: tijdschrift voor watervoorziening en afvalbehandeling*, 7: 4–7.
14. Termeer, C.J.A.M. (2012). Spraakwater. Contra intuïtief innoveren in de waterwereld. *Water Governance*, 1: 72–73.
15. Huntjens, P. (2011). Nederland is droog, heel droog. VARA radio interview.
16. Schouten, A.M. (2014). Breaking the deadlock around palm oil standards. Blog Sustainable Palm Oil Conversation and Debate.
17. Termeer, C.J.A.M. (2010). Nederland heeft klimaatwet nodig voor waterbeleid. *De Morgen*.
18. Vergaderen over betere olie. *NRC Handelsblad*. (22 November 2013). Based on interview with Greetje Schouten.
19. Concerns willen zelf duurzaam. *Trouw*. (12 November 2013). Based on interview with Greetje Schouten.
20. Duurzaamheid is kwestie van lange adem. *Boerderij Vandaag*. (6 November 2013). Based on interview with Greetje Schouten.

Other research output (max 10)

21. Termeer, C. (2011). Presentation Droge voeten en participatie. Groningen: Provincie Groningen: startup bijeenkomst PLUS Droge Voeten, 20110823.
22. Mulligen, E., & Vink, M. (2012). Presentation Proces Evaluation Deltaprogramma IJsselmeer Area Workshop.
23. Termeer, C.J.A.M., & Dewulf, A.R.P.J. (2013). Presentation uncertainties, strategies and the Delta Programme. International Advisory Commission Delta model, programme meeting 6. Deventer.
24. Dewulf, A., & Vink, M.J. (2014). Presentation Omgaan met frame-verschillen in bestuurlijke arrangementen. Wetenschappelijke Raad voor het Regeringsbeleid, Den Haag.
25. Termeer, C. (2011). Presentation governance of climate adaptation. London, UK: The Committee for Climate Change.
26. Schouten, A.M. (2014). Advice on sustainable investments and private governance arrangements to Senior Advisor Responsible Investment of the Dutch pension fund PGGM.

27. Termeer, C., & Hospes, O. (2013). Workshop Public & Private Water Governance, Ministry of Foreign Affairs.
28. Schouten, A.M. (2014). Participation in expert meeting Chains for Change (C4C), Voluntary partnerships, state responses and value chain dynamics: which way forward to increase sustainability and poverty reduction? at Netherlands Ministry of Foreign Affairs.
29. Hospes, O. (2014). Chair of business–science meeting Towards Environmentally Sustainable and Equitable Palm Oil. Wageningen.
30. Schouten, A.M. (2014). Processes of legitimization in global private governance: The Roundtable on Sustainable Palm Oil (RSPO), Paramadina Graduate School, Jakarta: invited lecture.

4.2 Demonstrable use of products – Use of research products by societal groups

In Table 4.2, we give 10 examples of how our research has societal impact, beyond the impact narratives above.

Table 4.2 - Use of research products by societal groups (max. 10)

1. Termeer, Breeman, and Van Lieshout analysed the decision-making process on megafarms in Horst a/d Maas, which was covered in the media; were asked to advise the minister about a national societal dialogue on this topic; and advised Vion food group, ZLTO, RIVM, and the province of Brabant on governance arrangements to increase trust. The advices resulted in new strategic agendas (including trust), intensification of local dialogues, and various pilot projects.
2. Termeer and Breeman analysed and facilitated the self-organising collective Noordelijke Friese Wouden, leading to various regional governance pilots and national policy impact (the collective approach for agri-biodiversity schemes).
3. Termeer evaluated the Dutch societal dialogue on EU CAP reform, designed process interventions, and monitored the impact of the implementation of these interventions.
4. Hospes facilitated Cordaid to newly position itself in the field of seed security by writing a state-of-the-art policy brief on seed security, developing the concept of seed governance, and organising an expert workshop.
5. Dewulf was contracted by the Flemish Public Waste Agency to undertake a prospective study on governance of sustainable materials management, and invited to address the OECD Global Forum on Environment.
6. Termeer published on the 'adaptive capacity wheel', co-organised workshops on its use as an assessment tool, which has been implemented by Bremen, Hamburg Hafencity, and other organisations across the world.
7. Karlsson-Vinkhuyzen organised a panel on the role of values for transforming lifestyles at the Planet Under Pressure conference in London in March 2012, which led to an interview by Swiss public radio. The outcome of the panel was later presented by the International Council for Science to the United Nations Conference on Sustainable Development (Rio+20).
8. Dewulf and Karpouzoglou collaborate with the Andean NGO CONDESAN and co-organised an expert seminar in Lima on adaptive governance of mountain ecosystem services, attended by the Peruvian Ministry of Environment.
9. Breeman and Termeer advised the FAO on involving stakeholders in the FAO Global Agenda for Sustainable Livestock, evaluated the resulting multi-stakeholder workshop in Ottawa, and published a joint article with FAO.
10. Termeer co-organised two multi-stakeholder workshops in South Africa with public, private, and social actors about food-system governance arrangements, resulting in a proposal for a large collaborative research programme

4.3 Demonstrable marks of recognition – Marks of recognition by societal groups

Table 4.3 – Marks of recognition by societal groups (max. 10)

1. Trustee of the One World Trust (OWT), an NGO based in London that works to strengthen the accountability of global governance actors (2007–) (Karlsson-Vinkhuyzen)
2. Board member of CIVICUS, a global alliance for civic activism and strengthening civil society participation in governance (2014–) (Karlsson-Vinkhuyzen)
3. Board member of the International Environment Forum (IEF), an international professional network organisation promoting sustainable development by highlighting the role of both science and ethical principles (Karlsson-Vinkhuyzen)
4. Scientific advisor of Cordaid programme on Biofuel partnerships: From Battleground to Common Ground (2012) (Hospes)
5. Founding member of Cycloop – network for action research and facilitation of multi-actor collaboration (Dewulf)
6. Member of Task Force European Innovation Partnerships Water (Termeer)
7. Member of The Netherlands National Commission for UNESCO (Termeer)
8. Member of the Dutch Council for the Environment and Infrastructure (Termeer)
9. Member of the advisory group government reforms of Minister Blok (Termeer)
10. Over 200 tweets and over 100 followers on Twitter account of the Public Administration and Policy group (@WURgovernance)

5. Viability

5.1 Benchmark

As a group, we have a unique position studying wicked problems in different domains from a public administration and policy perspective, making it difficult to find good benchmarks for our group. We identified two comparable groups, one in the Netherlands and one in Australia, and compared key indicators (see Table 5.1).

The **Environmental Governance** group of the Copernicus institute at **Utrecht University**, led by Prof. Peter Driessen, is a renowned group of comparable size that researches similar issues. In the 2014 SENSE assessment, the group was awarded excellent evaluation scores: 4.5 for scientific quality, 5 for productivity, 5 for societal impact, and 4.5 for viability. Although our group has slightly fewer publications indexed in the Scopus database over this period, the total number of citations (1041) these received is considerably higher than those received by the Environmental Governance group (636). In terms of research quality indicators, our group outperforms the Environmental Governance group in the number of citations per publication (13.5 compared to 9), the percentage of Top 10% best-cited articles (26% compared to 21.1%), and overall field-weighted citation impact (2.53 compared to 2.44).

The **Institute of Social Science Research** (ISSR) at the **University of Queensland** has the world-leading wicked-problem expert Brian Head¹ among its researchers. ISSR's research covers a broad range of domains from a policy analysis perspective, including sustainability issues. With 150 articles indexed in Scopus between 2008 and 2013, this large group produced about twice as many articles as our group (77 articles). In terms of indicators of research quality, our group outperforms the ISSR in the number of citations per publication (13.5 compared to 8.3), the percentage of Top 10% best-cited articles (26% compared to 19.3%), and overall field-weighted citation impact (2.53 compared to 2.48).

¹ Head, B.W., & Alford, J. (2013). Wicked problems: Implications for public policy and management. *Administration & Society*, doi:10.1177/0095399713481601

Table 5.1 – Benchmark²

Scopus bibliometric data (2008-2013)	Outputs in Top 10% best cited (%)	Field-weighted citation Impact	Citations per publication	International collaboration (%)
Environmental Governance (Utrecht University)	21.1	2.44	9.0	19.7
Institute for Social Science Research (University of Queensland)	19.3	2.48	8.3	18.7
Public Administration and Policy (Wageningen University)	26.0	2.53	13.5	41.6

5.2 SWOT analysis

Table 5.2 SWOT analysis of the Public Administration and Policy group

<p><i>Strengths</i></p> <ul style="list-style-type: none"> • The group has grown strongly and consolidated at a total of six core staff members • Stimulating working environment • Financially healthy group • Collective capacity to combine excellent research quality with excellent societal impact in different domains • Strong links with national and international natural science groups for interdisciplinary research • Large research grants have been awarded by Knowledge for Climate, INREF, UK Research Council, and NWO 	<p><i>Weaknesses</i></p> <ul style="list-style-type: none"> • Reorientation of publication strategy of new staff members towards the life sciences domains and/or to refereed articles takes time • No personal grants (NWO/ERC) acquired yet • High workload due to tenure track, and competitive acquisition limits joint time for collective reflection • Long-term leave of core staff members has affected the group
<p><i>Opportunities</i></p> <ul style="list-style-type: none"> • The much improved academic and publication profile of the group creates opportunities for acquiring further NWO/ERC funding • Governance issues are high on the agenda in the domains of climate change, agrifood chains and natural resources management • Expertise brought in by new staff members creates new opportunities for research projects 	<p><i>Threats</i></p> <ul style="list-style-type: none"> • Public investment in environmental issues and development cooperation has decreased substantially • Funding sources have disappeared or have become much more competitive, and/or require more investment in applying • Co-funding requirements of research calls (e.g. NWO/INREF) result in decreased opportunities for contract research • Individualistic incentives in the tenure track system put pressure on teamwork

Building upon our strengths will allow us to tackle some of the threats and weaknesses and to take advantage of upcoming opportunities. The moderate size of the group allows for a tightly-knit team, based on intensive interaction between faculty, postdocs, and PhD candidates. This team culture is strong enough to deal with pressures from the individualistic tenure track system, and to facilitate high-quality reflection and feedback among team members. The academic track record that the group has built up during the review period opens new doors for research funding. The group's track record in societal impact is becoming an important asset, because research funders are putting more and more emphasis on societal impact and co-funding.

² The benchmark data were obtained with the SciVal benchmarking tool, based on publications and citations indexed in the Scopus bibliographic database. We included the publications of the core staff members of each group, over the same period as in the bibliometric analysis discussed in section 3.2 (2008–2013). We focused on indicators of research quality that are less sensitive to differences in the size of the groups.

6. Reflection and future strategy

6.1 Reference to previous assessments

Compared with the previous evaluation period (2005–2008), the current evaluation period (2009–2014) shows huge improvements. In the 2009 evaluation, we received rather disappointing scores: productivity 3.0; scientific quality 3.0; relevance 3.5, and vitality and feasibility 4.0 (out of 5). The overall judgement was that our group was prematurely evaluated given that the group effectively existed for only three years; too short a time to be expected to achieve international excellence or to be judged on the relevance of its work. Nonetheless, the committee found that the group had a clear vision, an interesting research programme, a good international network, and a clear-cut research strategy. Therefore, the main recommendation was to keep up the initiated trajectory, so that the next review would see the Public Administration and Policy group at the top of the performance scale.

So we did, and the results are clearly visible. As indicated in the section on funding, we acquired major competitive research grants during the review period. Compared to the previous review period, the average number of refereed articles per year has increased from 3 to almost 30, and the quality is far above average, indicated by the high number of citations and the excellent relative impact. The relevance of our research has significantly increased given the over 100 stakeholders who collaborate with us, co-fund our research, and incorporate our scientific insights in their daily practices. The vitality and feasibility of our group is beyond any doubt as even in times of austerity we kept on growing, enjoying high levels of motivation, a continuous stream of innovative ideas, and a strong financial position.

Here, we describe how we have dealt with the more detailed recommendations.

- As recommended by the previous evaluation committee, we encouraged our staff to be scientifically active first – that is, to publish in journals that are central to the focus of their research – and to attend to the journal's impact factor second. After two years, we decided to change this strategy and to target high-ranking journals in the relevant domains.
- The evaluation committee encouraged us to build a 'group book' to articulate our own programme, which would serve as a catalyst for the expression of our research vision, and which is an important strategy for continuing vitality of the group. We organised several 2-day internal workshops to mature these ideas, which resulted in our innovative governance capabilities framework. To maximise the visibility of our work, we decided to go for a series of joint articles in high-ranking journals instead of a book: one published in 2013 and four already accepted for publication in 2015.
- The committee recommended the university to take steps to help us to get our own courses into the curriculum and to attract thesis students, especially at Master's level. This was needed because failure to do so limits our ability to integrate research and teaching and to 'grow' our own PhD students out of Bachelor's and Master's student pools. Now, we are teaching many courses on different Bachelor's and Master's programmes, but we still have limited access to thesis students in social science programmes.

6.2 Viability and future strategy

Our research programme and competences are key to coping with current sustainability problems. These problems are likely to become even more pressing over time with increasing population and environmental pressures, and governance is increasingly recognised as a bottleneck. The recent successes of our group and the increasing societal need to change governance to govern environmental and social change have motivated us to continue and advance our programme *Changing Governance, Governing Change* and align it to new developments. An upcoming trend for example is to go beyond the public versus private governance dichotomy and to search for hybrid forms of governance and new synergies.

Societal and budgetary developments will further urge scientists to collaborate with a variety of stakeholders. Capitalising on extensive experiences with various activities to engage stakeholders and broad societal networks, we will further reflect on and improve our methods of stakeholder engagement and organising co-funding. We have a strong track record in collaborating with policymakers and have recently expanded our collaboration with NGOs and private companies who increasingly play a role in the governance of sustainability issues. In addition, we aim to expand the number of prestigious individual research grants (VENI, VIDI, VICI, ERC).

For the future, we strive to maintain the group's current high quality, level of stakeholder involvement, and impact on governance practices. The spirit and the current age structure of the group guarantee continuity for the next period. As a relatively new group, we have worked hard to establish a good reputation in the sustainability governance world. Our aim is to consolidate this position without losing our innovativeness, inspiration, and collaborative, open attitude. Finally, we will continue to cherish a collaborative atmosphere with room for sharp academic debates and mutual learning.

University: Wageningen University
Research Institute: Graduate School
Research Group: Public Administration and Policy Group
Group Leader: Professor Dr. C.J.A.M. (Katrien) Termeer

7. Research integrity

Given the integrity incidents that have occurred in the scientific world over the last years, and the increasing emphasis on transparency and accountability in scientific research, more attention is now being given to integrity, ethical dilemmas, and self-reflection on actions. These issues have become more prominent in discussions among staff members and with PhD candidates. Supervisors' co-authorship of publications is not automatically assumed, but openly discussed and based on substantial contributions, in line with the Wageningen University guidelines for co-authorship.

The research culture in the group is based on trust, mutual feedback, and cooperation. Multiple researchers are generally involved in any research project, such that they can jointly reflect on data collection, analysis, and interpretation. Through an internal review system, selected papers and research proposals are critically discussed among all group members.

As part of the broader WUR and WASS efforts regarding the storage of data, the Public Administration and Policy group has developed a data management policy after in-depth discussions in the group about issues of data ownership, protection of research participants, and access rights. Special attention has been paid to sensitive data, such as transcripts of interviews with high-level politicians in developing countries or reports of participative observations of policy meetings. Our data management policy includes a comprehensive digitised storage of data that is systematically connected to the entry of publications in the research output system. These data are accessible only through our general administrator, can be used by other scholars only after explicit permissions of all researchers involved, and are on request available for verification by third parties.

Appendix 1 - Research staff at chair group level

Table I - Research staff input at chair group level								
		Funding	2009	2010	2011	2012	2013	2014
Scientific staff	<i>Name Scientific staff</i>	<i>1/2/3</i>	<i>FTE</i>	<i>FTE</i>	<i>FTE</i>	<i>FTE</i>	<i>FTE</i>	<i>FTE</i>
Full professors	Prof Dr Ir C.J.A.M. Termeer	1	0.4	0.4	0.35	0.24	0.35	0.4
	Prof Dr H.J.M. Goverde	1	0.13					
Associate professors	Dr A.R.P.J. Dewulf	1					0.4	0.4
	Dr Ir O. Hospes	1			0.4	0.4	0.4	0.4
Assistant professors	Dr G.R. Biesbroek	1					0.07	0.4
	Dr G.E. Breeman	1	0.4	0.4	0.4	0.4	0.4	0.4
	Dr S.I.S.E. Karlsson-Vinkhuyzen	1			0.07	0.24	0.21	0.32
	Dr S.J. Stiller	1		0.17	0.28	0.32	0.08	
	Dr A.R.P.J. Dewulf	1	0.4	0.4	0.4	0.4		
	Dr R.A. Werkman	1	0.38	0.27				
Post-docs	Dr P.M.J.M. Huntjens	3		0.15	0.45			
	Dr A.M. Schouten	1				0.17	0.45	0.45
	Dr K. Soma	1					0.45	0.54
	Dr Ir M. van Vliet	3				0.30	0.72	0.72
	Dr E. Oteros	3					0.75	0.15
	Dr Timothy Karpouzoglou	3						0.45
Total scientific staff			1.71	1.79	2.35	2.47	3.53	4.03

FTE reported in this table regards the research appointment part of the total appointment (e.g. tenured staff have 40% available for research, postdocs have 90% available for research)

University: Wageningen University
 Research Institute: Graduate School
 Research Group: Public Administration and Policy Group
 Group Leader: Professor Dr. C.J.A.M. (Katrien) Termeer

Appendix 4 – Mini Curriculum

Name: Katrien Termeer

E-mail: katrien.termeer@wur.nl

URL: <http://www.wageningenur.nl/en/Persons/prof.dr.ir.-CJAM-Katrien-Termeer.htm>



General Information

Date of birth: 14 June 1960

Current position: Full professor/Chair holder

Fields of Expertise: Governance of wicked problems in adaptation to climate change and transitions towards sustainable agrifood chains

Qualifications

PhD Public Administration, Erasmus University Rotterdam (1993)

MSc Landscape Planning, Wageningen University (1987)

Scientific Career

2005-now: Full Professor and Chair Holder Wageningen University

2001-2005: Consultant/co-dean, Sioo Centre for Organisational Change

1997-2001: Policy advisor, Ministry of Agriculture, Nature and Food

1993-1997: Associate Professor Technical University of Delft

Publications

	Number of publications	Total citations	h-index
Google Scholar	223	1549	19
Scopus	45	262	9
Web of Science	26	267	8

Supervision of PhD theses: Graduated: 7, Ongoing: 16

Scientific teaching: BSc, MSc, PhD Courses and masterclasses on Public Administration and Policy, Innovative Governance Arrangements, Political Theory, Climate governance and Food governance

Three key publications 2009–2014:

- Termeer, C.J.A.M., Dewulf, A., Breeman, G. & Stiller, S.J. (2013). Governance capabilities for dealing wisely with wicked problems. *Administration & Society*. doi:10.1177/0095399712469195.
- Termeer, C.J.A.M., Dewulf, A., & Lieshout, M. Van (2010). Disentangling scale approaches governance research: Comparing monocentric, multilevel, and adaptive governance. *Ecology and Society*, 15(4), 29. (Top 10% best cited)
- Termeer, C.J.A.M. (2009). Barriers to new modes of horizontal governance. *Public Management Review*, 11(3), 299–316.

Membership of editorial boards of international scientific journals: (1) Editorial board International Journal Water Governance (2013-now); (2) Guest editor Ecology and Society (2013-14); (3) Guest editor Current Opinion in Environmental Sustainability (2014-15)

Membership of national and international scientific organisations: (1) International Research Society for Public Management (IRSPM); (2) European Consortium of Political Research (ECPR); (3) Member of the Van Poelje jury for the best dissertation prize in Belgium and the Netherlands

Relevant job-related social positions: (1) Taskforce European Innovation Partnerships Water; (2) The Netherlands National Commission for UNESCO; (3) Dutch Council for the Environment and Infrastructure

Major scientific awards / prizes / grants: (1) Consortium leader 'The governance of adaptation to climate change' (2010-14, 4.5m€); (2) Consortium leader 'Next generation governance arrangements for sustainable global value chains' (2014-18, 700 k€); (3) Van Poelje year prize for best dissertation (1994)

University: Wageningen University
Research Institute: Graduate School
Research Group: Public Administration and Policy Group
Group Leader: Professor Dr. C.J.A.M. (Katrien) Termeer

Name: Art Dewulf

E-mail: art.dewulf@wur.nl

URL: <https://www.wageningenur.nl/en/Persons/dr.-ARPJ-Art-Dewulf.htm>



General information

Date of birth: 8 March 1975

Current position: Associate Professor

Fields of Expertise: sense-making and decision-making in water and climate governance

Qualifications

PhD Organisational Psychology, K.U. Leuven (2006)

MSc Organisational Psychology, K.U. Leuven (1999)

MA Social and Cultural Anthropology, K.U. Leuven (1998)

Scientific career

2012-date Associate Professor, Wageningen University

2007-2012 Assistant Professor, Wageningen University

2006-2007 Post-doc/lecturer, K.U. Leuven

2000-2006 Research and teaching assistant, K.U. Leuven

Publications

	Number of publications	Total citations	h-index
Google Scholar	139	1918	18
Scopus	34	889	14
Web of Science	27	643	13

Supervision of PhD theses: *Graduated: 3. Ongoing: 5.*

Scientific teaching: BSc, MSc and PhD Courses on Framing, Designing Innovative Governance Arrangements, Water Governance

Three key publications 2009 – 2014:

- Dewulf, A., Gray, B., Lewicki, R., Putnam, L., Aarts, N., Bouwen, R., & Van Woerkum, C. (2009). Disentangling approaches to framing in conflict and negotiation research: A meta-paradigmatic perspective. *Human Relations*, 69(2), 155-193. (*Top 10% best cited*)
- Dewulf, A., Mancero, M., Cardenas, G., & Sucozhanay, D. (2011). Fragmentation and connection of frames in collaborative water governance: A case study of river catchment management in Southern Ecuador. *International Review of Administrative Sciences*, 77(1), 50-75.
- Dewulf, A. (2013). Contrasting frames in policy debates on climate change adaptation. *Wiley Interdisciplinary Reviews: Climate Change*, 4(4), 321-330. (*Top 10% best cited*)

Membership of editorial boards of international scientific journals: (1) Editorial Board of Sage Open (2013-date); (2) Guest editor for Journal of Water and Climate Change (2014); (3) Guest editor for Futures journal (2014-2015)

Membership of national and international scientific organisations: (1) Chair of WASS Research and Assessment Committee; (2) Chair of the International Conference on Multi-Organisational Partnerships, Alliances and Networks (2012); (3) Organiser of the International Conference on Interpretive Policy Analysis (2014)

Relevant job-related social positions: (1) Founding member of Cycloop – network for action research and facilitation of multi-actor collaboration (2009-date); (2) Keynote speaker 'Governance for sustainable materials management' at OECD global forum on environment (2010); (3) Speaker on 'Adaptive Delta Management and Integration' at MSc Class Adaptive Delta Management (2014)

Major scientific awards / prizes / grants: (1) PI grant 'Deciding about the New Delta: Towards governance arrangements that enable forward-looking decisions on critical water infrastructure' (2015-18). Total budget of 305k€. Funded by Dutch Research Council (NWO); (2) PI grant 'Adaptive governance of mountain ecosystem services' (2014-16). Total budget of 1.8m€. Funded by UK Research Council, ESPA; (3) Co-I grant 'Towards a virtual observatory for ecosystem services and poverty alleviation' (2009-11). Total budget of 220k€. Funded by UK Research Council, ESPA.

University: Wageningen University
Research Institute: Graduate School
Research Group: Public Administration and Policy Group
Group Leader: Professor Dr. C.J.A.M. (Katrien) Termeer

Name: Otto Hospes

E-mail: otto.hospes@wur.nl

URL: <https://www.wageningenur.nl/en/Persons/Otto-Hospes.htm>



General information

Date of birth: 29 May 1963

Current position: Associate Professor

Fields of Expertise: public-private governance of agrifood production and value chains; food sovereignty and the human right to food

Qualifications

PhD Agricultural and Environmental Sciences, Wageningen University (1996)

MSc Non-Western Sociology, Wageningen University (1987)

Scientific career

1998–date Associate Professor, Wageningen University

2002–2007 Seconded to Netherlands Ministry of Foreign Affairs as senior evaluator

1988–1998 Assistant Professor, Wageningen University

Publications

	Number of publications	Total citations	h-index
Google Scholar	105	390	10
Scopus	8	34	4
Web of Science	5	20	3

Supervision of PhD theses: *Graduated:* 1. *Ongoing:* 6

Scientific teaching: BSc and MSc Courses on Globalisation and Governance; Law and Public Power; International Policies and Human Rights

Three key publications 2009–2014:

- Hospes, O., & Hadiprayitno, I. (Eds.) (2010). *Governing Food Security: Law, Politics and the Right to Food*. Wageningen Academic Publishers (p. 380).
- Hospes, O., & Kentin, A. (2014). Marking the success or end of global multi-stakeholder governance? The rise of national sustainability standards in Indonesia and Brazil for palm oil and soy. *Agriculture and Human Values*, 31(3), 425–437.
- Hospes, O. (2014). Food sovereignty: the debate, the deadlock, and a suggested detour. *Agriculture and Human Values*, 31(1), 119–130.

Membership of editorial boards of international scientific journals: Guest Editor Special Issue of Intl Food and Agribusiness Management Review (2013) on 'Managing Wicked Problems in Agribusiness: The Role of Multi-Stakeholder Engagements in Value Creation'

Membership of national and international scientific organisations: (1) Co-organiser of intl conference Managing Wicked Problems in Agribusiness (2012); (2) Chair of intl conference in Indonesia on sustainable pathways for palm oil production (2014); (3) Chair of intl conference in Thailand on sustainable pathways for palm oil production (2015)

Relevant job-related social positions: (1) Visiting professor Nantes University (fund: EU-LASCAUX food law, food policy & food values (2011); (2) Scientific advisor Cordaid programme Biofuel partnerships: From Battleground to Common Ground (2012); (3) Keynote speaker intl conference The Governance Challenges of Food Systems, Beijing (2014)

Major scientific awards/prizes/grants: (1) Main applicant and coordinator of interdisciplinary research programme (2012–17) Towards Environmentally Sustainable and Equitable Palm Oil: promoting sustainable pathways by exploring connections between flows, networks and systems at multiple levels. Funded by Interdisciplinary Research and Education Fund (INREF), WU. Total budget 1.3M€, incl. 8 PhDs of which 2 are graduating at PAP; (2) Co-applicant of research programme (2014–19) Next generation governance arrangements for sustainable global value chains. Funded by NWO, with 13 societal partners. Total budget 630k€, incl. 1 post-doc and 2 PhDs, of which 1 PhD is graduating at PAP.

University: Wageningen University
Research Institute: Graduate School
Research Group: Public Administration and Policy Group
Group Leader: Professor Dr. C.J.A.M. (Katrien) Termeer

Name: Sylvia Karlsson-Vinkhuyzen

E-mail: sylvia.karlsson-vinkhuyzen@wur.nl

URL: <http://www.wageningenur.nl/en/Persons/SISE-Sylvia-KarlssonVinkhuyzen-PhD-MSc.htm>



General information

Date of birth: 17 November 1970

Current position: Assistant Professor

Fields of Expertise: Global and multilevel sustainable development governance

Qualifications

PhD Political science, Linköping University (2000)

BA and MSc Biology/Ecotoxicology, Uppsala University (1995)

Development Studies, College of the Swedish Board for Education in International Development (1994)

Scientific career

2011–date Assistant Professor, Wageningen University

2009–2011 Visiting Fellow, Department of International Public Law/Leiden Law School, Leiden University

2006–2012 Academy Research Fellow, Finland Futures Research Centre, University of Turku, Finland

2005–2006 Senior Researcher, Finland Futures Research Center, Turku School of Economics, Finland

2003–2004 Post-doc Fellow, Yale University

Publications

	Number of publications	Total citations	h-index
Google Scholar	74	501	13
Scopus	13	97	6
Web of Science	11	109	5

Supervision of PhD theses: *Graduated:* 1. *Ongoing:* 4

Scientific teaching: BSc, MSc and PhD Courses on Sustainable Land Use Policy, Environmental Quality and Governance, Sustainability Leadership

Three key publications 2009 – 2014:

- Karlsson-Vinkhuyzen, S.I., & McGee, J. (2013). Legitimacy in an era of fragmentation: The case of global climate governance. *Global Environmental Politics*, 13, 56–78.
- Karlsson-Vinkhuyzen, S.I., Jollands, N., & Staudt, L. (2012). Global governance for sustainable energy: The contribution of a global public goods approach. *Ecological Economics*, 83, 11–18.
- Karlsson-Vinkhuyzen, S.I., & Vihma, A. (2009). Comparing the legitimacy and effectiveness of global hard and soft law: An analytical framework. *Regulation & Governance*, 3 (4), 400–420.

Membership of editorial boards of international scientific journals: Editorial Board of International Environmental Agreements: Politics, Law and Economics (2015–date)

Membership of national and international scientific organisations: (1) Senior Research Fellow of the Earth System Governance project (2014–to date); (2) Member of Wageningen Young Academy (2013–date); (3) Member of the Steering Committee of the Research and Independent Non-Governmental Organizations (RINGOs); a constituency of observer organisations towards the UN’s Framework Convention on Climate Change (UNFCCC) (2012–date)

Relevant job-related social positions: (1) Trustee One World Trust (OWT), London, research NGO working on strengthening accountability of global governance actors (2007–date); (2) Board member of CIVICUS, alliance for civic activism and participation in governance (2014–date); (3) Board member Intl Environment Forum (IEF), network organisation promoting sustainable development through highlighting the role of both science and ethical principles

Major scientific awards / prizes / grants: (1) Netherlands Environmental Assessment Agency (PBL). Research grant ‘Mainstreaming of biodiversity in governance contexts with 5 case studies’ 95k€ (2014 – project manager); (2) Academy of Finland: Legitimacy and Effectiveness in Global Environmental Governance, funded with 380k€ (2006–11) (3) Academy of Finland: Energy policy for sustainable development in the emerging global and multilevel governance framework (2005–08)

University: Wageningen University
Research Institute: Graduate School
Research Group: Public Administration and Policy Group
Group Leader: Professor Dr. C.J.A.M. (Katrien) Termeer

Name: Robbert Biesbroek

E-mail: robbert.biesbroek@wur.nl

URL: <http://www.wageningenur.nl/en/Persons/ir.-GR-Robbert-Biesbroek.htm>



General information

Date of birth: 23 October 1983

Current position: Assistant Professor

Fields of Expertise: Policy change and boundary spanning policy problems in the environmental domains

Qualifications

PhD Public administration and environmental science, Wageningen University (2014)

MSc Land Use planning, Wageningen University (2007)

Scientific career

2014–date: Assistant Professor, Wageningen University

2007–2008: Researcher, Wageningen University

Publications

	Number of publications	Total citations	h-index
Google Scholar	44	768	10
Scopus	12	259	7
Web of Science	9	163	5

Supervision of PhD theses: *Ongoing:* 4

Scientific teaching: Wageningen University courses: Environmental Quality and Governance, Climate Change Adaptation in Water Management, Public Administration and Policy Making, Analysis of a Problem Situation, Policy, Governance and Law, Management and Policy in the Health Sector

Three key publications 2009–2014

- Biesbroek, G.R., Termeer, C.J.A.M., Klostermann, J.E.M., & Kabat, P. (2013). On the nature of barriers to climate change adaptation. *Regional Environmental Change*, 13(5), 1119–1129 [Q1], TC: 11 (*Top 1% best cited*)
- Biesbroek, G.R., Swart, R.J., Carter, T.R., Cowan, C., Henrichs, T., Mela, H., Morcecroft, M.D., & Rey, D. (2010). Europe adapts to climate change: Comparing national adaptation strategies. *Global Environmental Change*, 20(3), 440–450. [Q1] TC: 90; (*Top 1% best cited*)
- Biesbroek, G.R., Swart, R.J., & Van der Knaap, W.G.M. (2009). The mitigation-adaptation dichotomy and the role of spatial planning. *Habitat International*, 33(3), 230–237. [Q2] TC: 40; (*Top 10% best cited*)

Membership of editorial boards of international scientific journals: n.a.

Membership of national and international scientific organisations: (1) Jury member of the Brasz thesis award for best thesis in the Netherlands in the field of Public Administration (chaired by Prof. S. van Thiel) (2015); (2) Co-founder of the TRAC3 consortium (www.TRAC3.ca) with Dr. J. Ford and Dr. Berrang-Ford (McGill University, Canada) (2014); (3) Member of the climate policy innovation network (INOGO, chaired by Prof. A. Jordan & Prof. D. Huiteima) (2013)

Relevant job-related social positions: (1) *Nationale adaptatie strategie: lessen uit andere landen*, Masterclass for the Ministry of Infrastructure and the Environment, 27.1.2015, the Hague, (2) *Barriers to climate change adaptation in the Netherlands*, Workshop for policy makers and practitioners, 23.6.2010, Wageningen; (3) *Europe adapts to Climate Change – Science-policy interactions in national adaptation policy*, workshop for policymakers and practitioners, 14–15.9.2009, Utrecht

Major scientific awards / prizes / grants: (1) Co-applicant grant 'Deciding about the New Delta: Towards governance arrangements that enable forward-looking decisions on critical water infrastructure' (2015–18). Total budget of 305k€. Funded by Dutch Research Council (NWO) (2015); (2) Advisory report on barriers to integrated decisions for the Dutch Delta Program. 40k€, funded by the Netherlands Environmental Assessment Agency (PBL) (2014); (3) Contributing author for the EEA report (2014) on how European countries are adapting to climate change. grant funded by the Austrian Environmental Agency; 24k€, funded by European Topic Centre/Austrian Department of the Environment (2013-14)