

Biodiversity and Health in the Face of Climate Change

—

Challenges, Opportunities and Evidence Gaps

Prof. Dr. Beate Jessel


**President of the German Federal Agency for Nature
Conservation (BfN)**




European Conferences on Biodiversity and Climate Change

2011:

Horst Korn, Katrin Kraus and Jutta Stadler (Eds.)
Proceedings of the European Conference on Biodiversity and Climate Change – Science, Practice and Policy –



Proceedings



BfN-Skripten 310
2012


2013:

Horst Korn, Jutta Stadler, Aletta Bonn, Kathrin Bockmühl and Nicholas Macgregor


Proceedings of the European Conference on Biodiversity and Climate Change in Europe – an ecological and economic perspective

Aletta Bonn, Nicholas Macgregor, Jutta Stadler, Horst Korn, Sarah Stiffel, Katrin Wolf and Nikki van Dijk


Helping ecosystems in Europe to adapt to climate change



Proceedings



Scientific study



BfN-Skripten 375
2014


2015:

Nadja Kabisch, Jutta Stadler, Simon Duffield, Horst Korn and Aletta Bonn


Proceedings of the European Conference on Biodiversity and Climate Change in Urban and Rural Surroundings

Nadja Kabisch, Jutta Stadler, Horst Korn and Aletta Bonn


Nature-based solutions to climate change mitigation and adaptation in urban areas



Proceedings



Scientific study




Book

Theory and Practice of Urban Sustainability Transitions

Nadja Kabisch, Jutta Stadler, Horst Korn and Aletta Bonn (Editors)

Nature-based Solutions to Climate Change Adaptation in Urban Areas



BfN-Skripten 446
2016

2017:

Biodiversity and Health in the Face of Climate Change – Challenges, Opportunities and Evidence Gaps

27 - 29 JUNE 2017, BONN / GERMANY



Starting Point of the Conference 2017

Biodiversity – Health – Climate Change



Physical health



Mental wellbeing



Social cohesion



**Vector-borne
diseases, allergies**

BfN's Role as “Science-Policy-Interface”

BfN as scientific advisory body of the German Ministry for the Environment (BMUB):

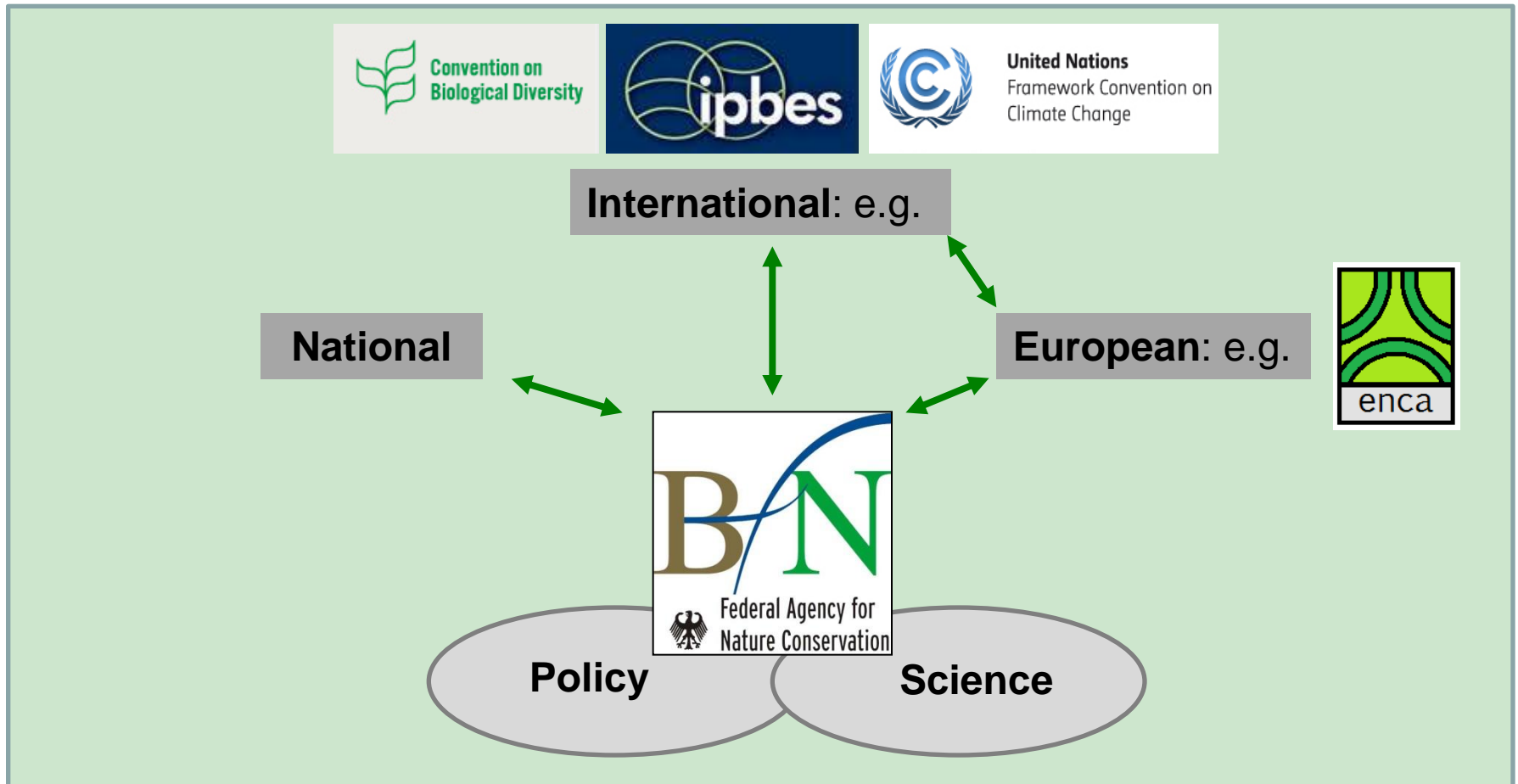
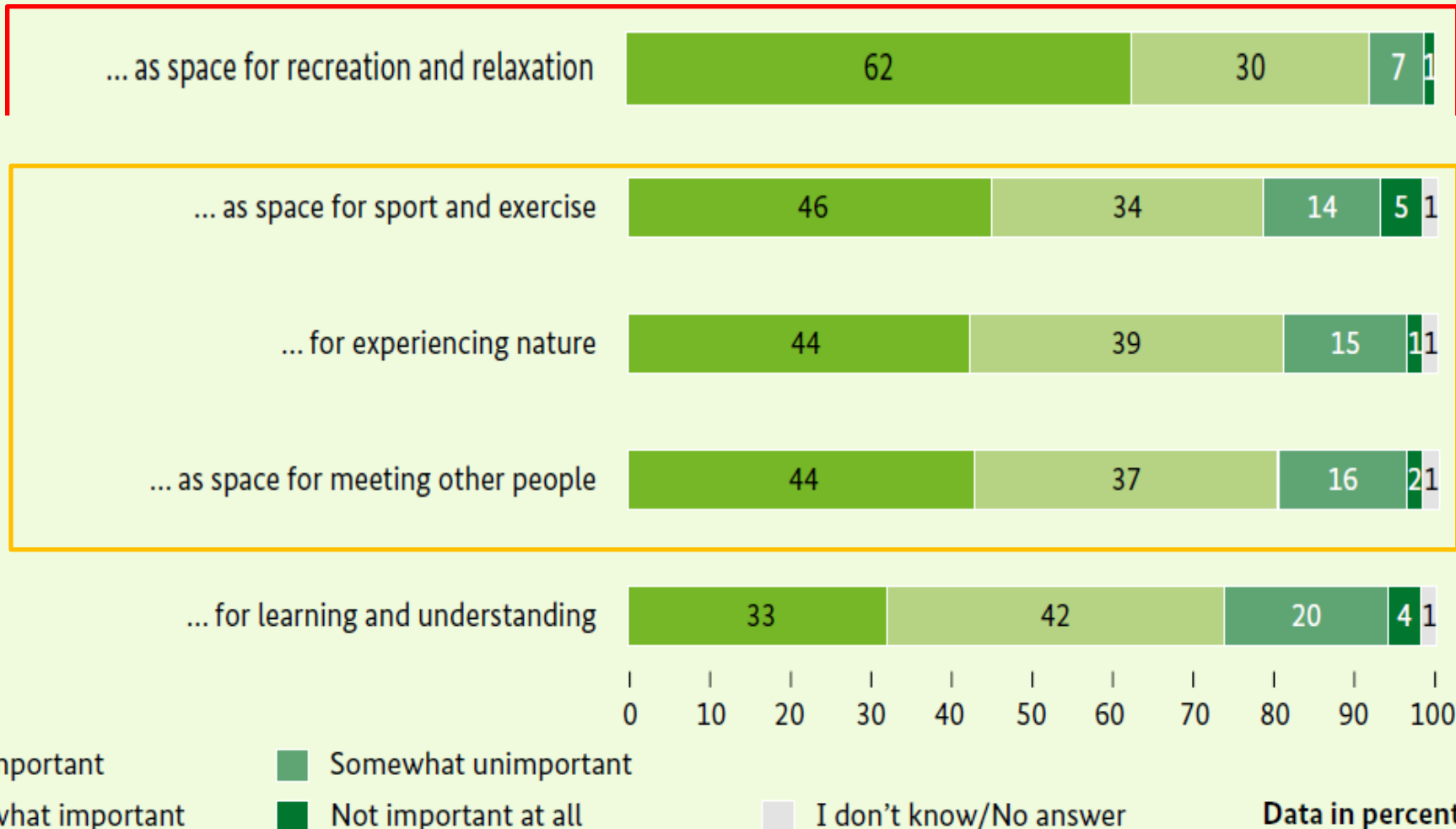


Figure 21: Personal importance of urban nature

How important to you personally is urban nature with regard to the following aspects?



BfN's Activities

KONFERENZDOKUMENTATION

NATURSCHUTZ & GESUNDHEIT

ALLIANZEN FÜR MEHR LEBENSQUALITÄT

26. - 27.05.2009
im LVR-LandesMuseum Bonn



BfN
Bundesamt für Naturschutz





Abchlussbericht

FuE-Vorhaben „Naturschutz und Gesundheit – Umsetzung eines Modellvorhabens“ (FKZ 806 82 820)

Matthias Schloßberger (Hrsg.)
Die Natur und das gute Leben

Ethics: Nature and the good life

BfN-Skripten 403
2015

Katrin Rittel, Laura Bredow, Eva Regina Wanka, Dorothea Hokema, Gesine Schuppe, Torsten Wilke, Dennis Nowak und Stefan Heiland

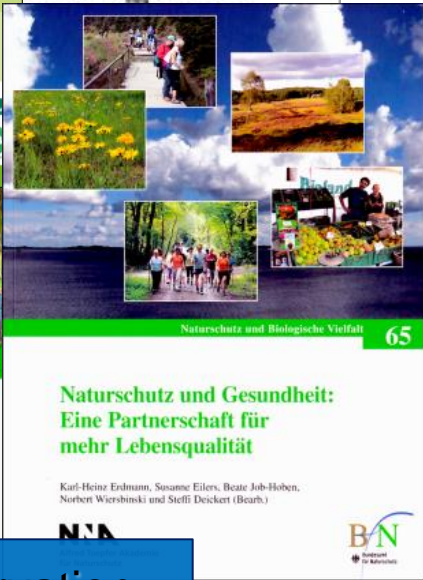
Grün, natürlich, gesund:
Die Potenziale multifunktionaler städtischer Räume

Health and urban nature

Demografischer Wandel
Ökologische Gerechtigkeit

BfN
Bundesamt für Naturschutz

BfN-Skripten 371
2014



Naturschutz und Biologische Vielfalt **65**

Naturschutz und Gesundheit: Eine Partnerschaft für mehr Lebensqualität

Karl-Heinz Erdmann, Susanne Eilers, Beate Job-Hoben, Norbert Wiersbinski und Steffi Deickert (Bearb.)

BfN
Bundesamt für Naturschutz

Gerhard Reese, Immo Fritsche, Norbert Wiersbinski, Andreas Mues und Anne-Kristin Röpcke (Hrsg.)

Psychologie in der Naturschutzkommunikation

Psychology and communication for nature conservation

BfN
Bundesamt für Naturschutz

BfN-Skripten 423
2015

Nature parks and health

Naturschutz und Biologische Vielfalt **23**

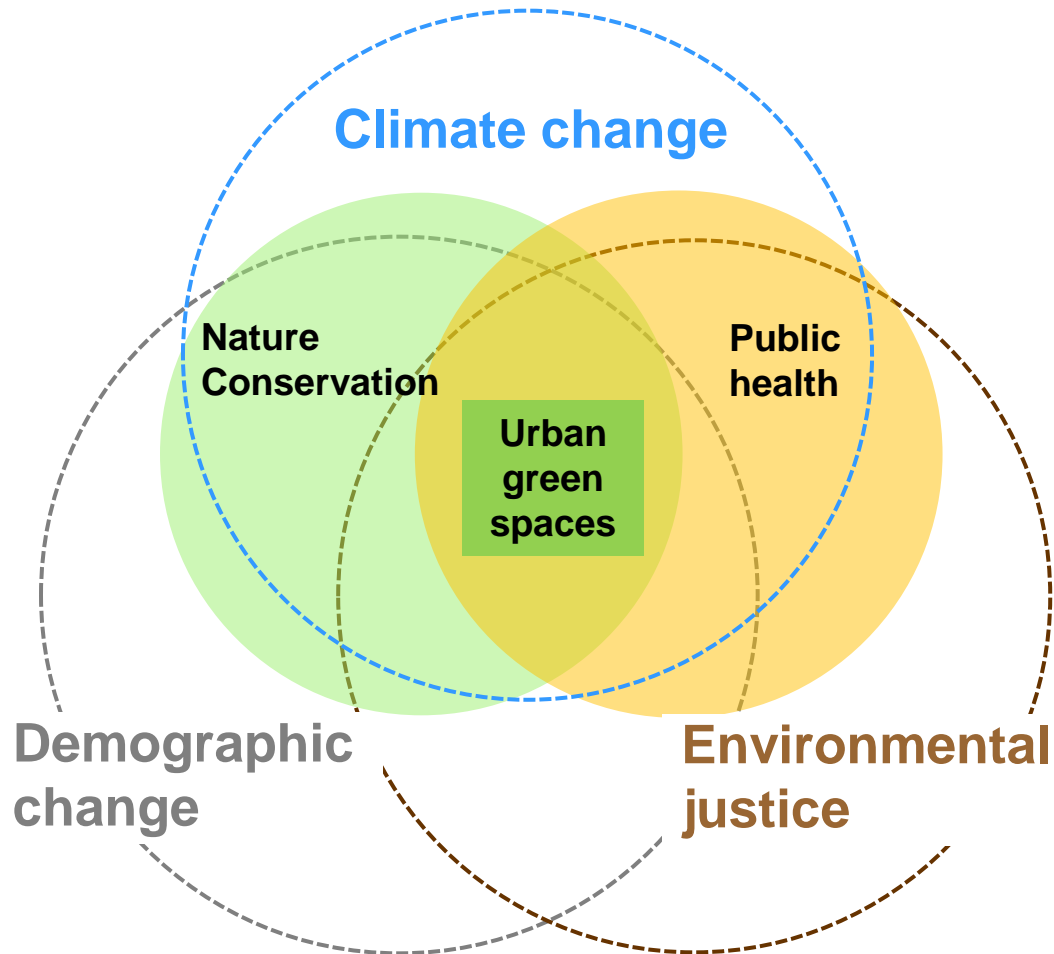
Naturschutz und Gesundheitsschutz: Identifikation gemeinsamer Handlungsfelder

Thomas Claßen, Thomas Kistemann und Kevin Schillhorn

BfN
Bundesamt für Naturschutz

Nature conservation and health protection

Research Project: „Green, natural, healthy”



English version: www.bfn.de/0321_veroe.html

Results

- Analysis of user groups
- Assessment criteria to determine health promoting potentials of urban green spaces
- ‘List of good arguments’ for planners



Research Projects: Ecosystem Services of Urban Green

Christian Krekel, Jens Kolbe, Henry Wüstemann

2014 - 2016



The Greener, The Happier? The Effects of Urban Green and Abandoned Areas on Residential Well-Being

-> Presentation of results by Jens Kolbe in session 5

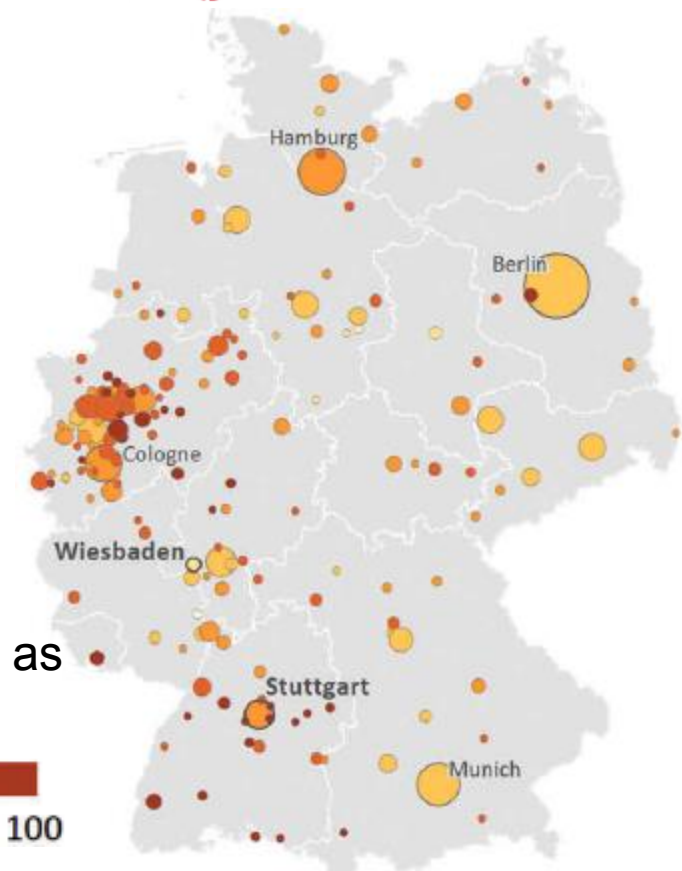
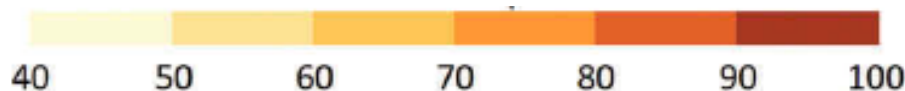
Proposal of indicators regarding the provision and accessibility of green spaces in cities



Leibniz-Institut
für ökologische
Raumentwicklung

2014 - 2016

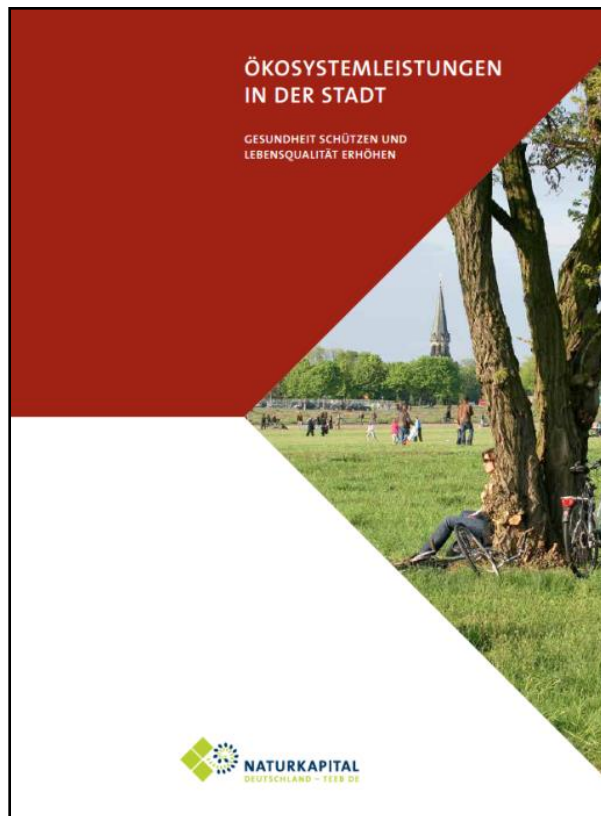
Percentage of inhabitants with walking
distance to green spaces ≥ 1 ha as well as
areas ≥ 10 ha at medium distance



Transfer of Results: „Biodiversity, Health and Climate Change“

Spreading scientific results to reinforce implementation

➤ **Example: TEEB-DE „Ecosystem Services in the City“**



- **Scientific Report:**
297 pp.
- **Summary for Policy Makers:**
77 pp.
- **Policy Brief on Urban Green, Health and Climate Change**

Transfer of Results: „Biodiversity, Health and Climate Change“

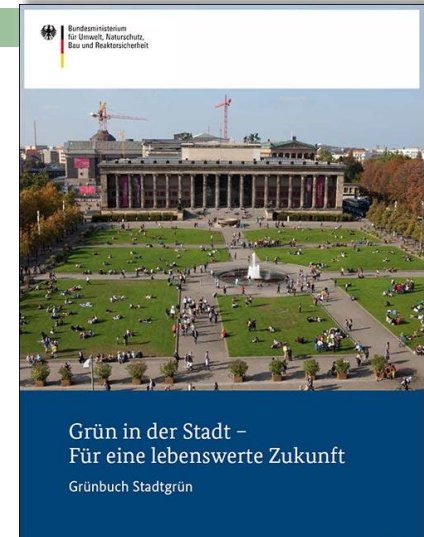
Initiative Green in the City

(German Environment and Building Ministry)

- Green Book on urban green (2015):
Analysis of functions and status quo of urban green
- White Book on urban green (May 2017):
Plan of action for urban green on national level
- New **urban development programme** “Future Urban Green”

Research Project “Urban green infrastructure” (2016-2017)

- Scientific project + input of **> 30 experts from science, municipalities and NGOs**
- Brochure with **definition, aims, principles, instruments etc. concerning urban green infrastructure** to support the white book



Communication: „Biodiversity, Health and Climate Change“

NatGesIS

- Communication tool
- Topics:
 - wellness and nature experience,
 - importance of nature conservation for prevention,
 - treatment of diseases with nature,
 - data on natural resources

www.natgesis.de



Communication: „Biodiversity, Health and Climate Change“

Wandertag Biologische Vielfalt
1. Mai - 31. Juli 2017

BN
Bundesamt
für Naturschutz

www.wandertag.bfn.de

leben.natur.vielfalt
der Wandertag

Scope of the Conference 2017

Day 1: 'Science'

Presentations on the “Nexus of Biodiversity, Health and Climate Change”,
Evening Lecture and reception

Day 2: 'Demonstrating good practice / implementation'

Parallel interactive sessions (+ plenum summary),
Poster session

Day 3: 'Biodiversity, Health and Climate Change – current processes and future perspectives'

Presentations and final plenary discussion

Thank you for your attention!



Foto: P. Grote

**Prof. Dr. Beate Jessel,
German Federal Agency for Nature Conservation (BfN)**

With contributions from: J. Stadler, A. Schröder, B. Schweppe-Kraft, B. Job-Hoben and J. Heyden (BfN)