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UNECE Conference of European Statisticians

Expert Forum for Producers and Users of Climate Change-Related Statistics

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# **Climate Change Adaptation in Germany – Monitoring climate change impacts and adaptation**

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FG I 1.6 KomPass – Climate Impacts and Adaptation

**German Environment Agency (UBA)**

## Overview

- Framework: German Strategy for Adaptation to Climate Change
- DAS Monitoring System, DAS Monitoring Report
- Development of the DAS Monitoring Indicator System



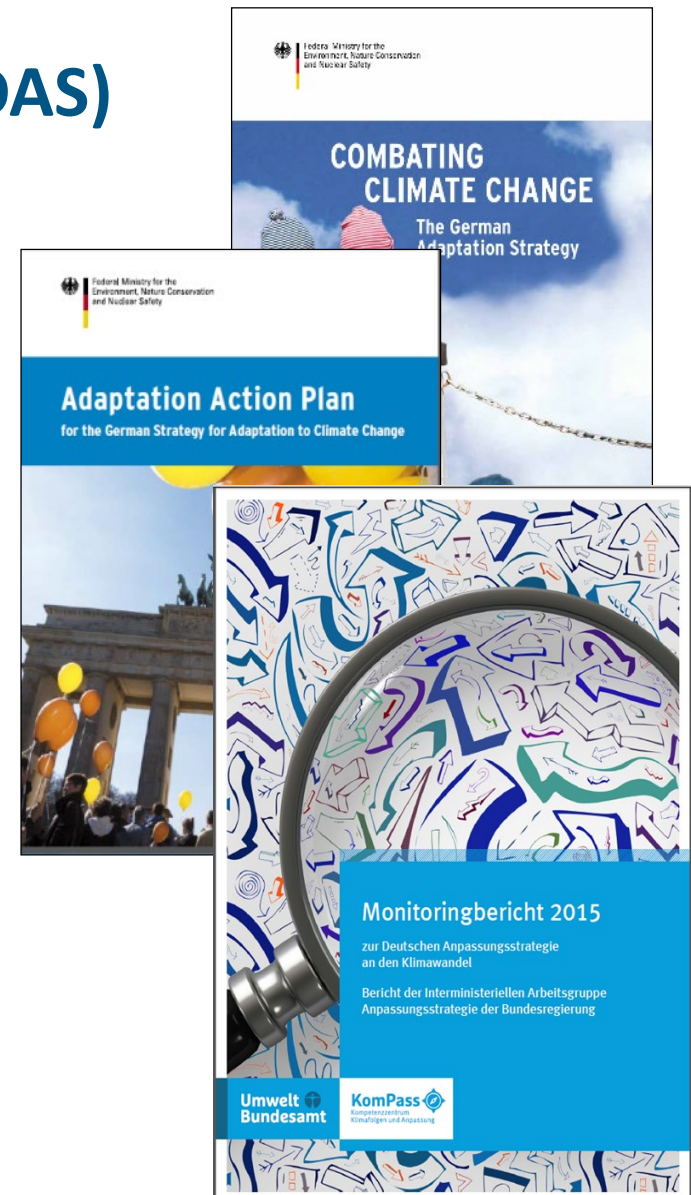
# National Adaptation in Germany (DAS)

## Process

- Federal Government adopted the National Adaptation Strategy (DAS) in 2008
- First Adaptation Action Plan APA I in 2011
- First Progress report in 2015, incl. DAS Monitoring Report 2015, Vulnerability Assessment, APA II
- Next DAS Monitoring Report 2019 (Autumn)
- Next Progress report 2020 incl. APA III

## Role of the Environment Agency (UBA)

- Policy advice on the NAS, drafting
- Research (assessments, methods, tools)
- Provision of information on adaptation
- Communication and Steering of participation process



# Mission: DAS Monitoring System

Strong connection to the National Adaptation Strategy (DAS)

Regular reporting on agreed indicators to measure impacts of climate change in Germany and progress of adaptation

## Impact Indicators:

- How does CC affect natural and socio-economic systems?

## Responses – Adaptation Indicators:

- How do we act and what comes out?

# DAS Monitoring Report 2015

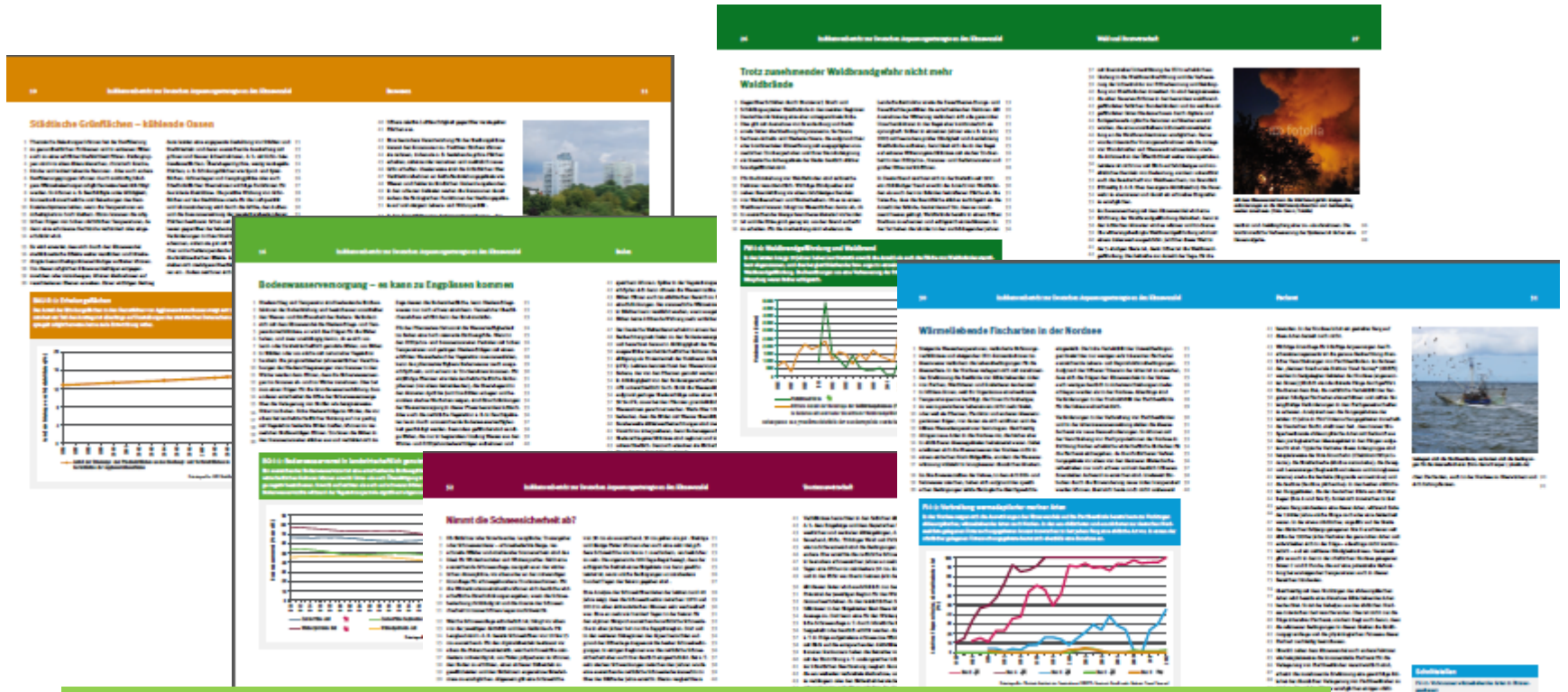
- ▶ Nationwide overview on climate change key impacts and activities
- ▶ Based on existing data
- ▶ Design of a documentation system and organisational structure suitable for regular updates of the report every 4 years

**English Summary of Methodology:**

<https://www.umweltbundesamt.de/en/publikationen/evaluation-of-the-german-strategy-for-adaption-to>



# DAS Monitoring Report



## DAS Monitoring System 2019: 105 Indicators

- Every indicator is presented on 2 pages, easy to read
- Time series are presented by figures
- Policy targets
- Connection to other indicators in the system

# Data availability and indicators 2019

Actions fields and cross-sectional fields	Impact indicators	Response indicators	Total
Water regime, water management, coastal and marine protection	9	4	13
Woodland and forestry	7	6	13
Biodiversity	3	2	5
Human health	5	3	8
Agriculture	4	6	10
Energy industry	3	4	7
Spatial, regional and physical development planning	-	6	6
Tourism industry	7		7
Transport, transport infrastructure	5	-	5
Soil	2	2	4
Civil protection	1	4	5
Fishery	2	-	2
Building sector	5	5	10
Financial services industry	1	1	2
Trade and industry	1	1	2
<b>Total (+ 5 overarching Indicators)</b>			<b>105</b>

# Stakeholder engagement

## Principle of indicator ownership in the cross-sectional indicator system

Monitoring System is **based on existing data** → collaboration with most of national agencies which provide data and experience

**Broad acceptance** needed: Small expert groups focussed on the Action Fields of the Adaptation Strategy, intensive bilateral consultations and workshops

**Elaborating joint products**: indicator factsheets and contributions to the report, almost 400 people involved during development, 75 people during updating.



## Involvement of technical experts

- Cooperation with most national agencies on the federal level
- Project Support Working Group (PAG)
- Expert meetings to discuss individual DAS action fields and cross-sectional themes
- Experts meeting to discuss indicator methodologies and data availabilities
- Workshops with broad participation by experts



**Technical agreement of the  
DAS Monitoring System (2009 – 2013)**

## Involvement of political decision-makers

- Federal Government's inter-ministerial working group on Adaptation Strategy (IMA Adaptation)
- Standing Committee of the Länder on Adaptation to the Consequences of Climate Change (AFK)



**Political agreement of the  
DAS Monitoring System (2012-2014)**

# Data sources DAS Indicators

## National Agencies:

<u>Weather and climate:</u>	DWD
<u>Statistics:</u>	Destatis
<u>Water:</u>	BfG, BSH, Federal States connected with WRRL
<u>Environment:</u>	BfN, UBA
<u>Agriculture:</u>	BLE, JKI, Thünen-Institute,
<u>Infrastructure:</u>	BBSR, BBR, BNetzA,
<u>Health:</u>	RKI
<u>Civil protection:</u>	BBK, THW

## Industry Federations:

<u>Energy, Water</u>	BDEW Bundesverband der Energie- und Wasserwirtschaft e.V.,
<u>Insurance</u>	GDV Gesamtverband der Deutschen Versicherungswirtschaft e.V.).

# DAS Monitoring System

## 4. Juli 2014 Commitment on the federal level

All federal ministries have agreed to reporting with the DAS monitoring system. Grundlage für den Monitoringbericht zur DAS und seine Fortschreibung

## May 2015: Publication of the first DAS Monitoring Report 2015

- Presentations coordinated with all federal ministries
- 102 indicators in 2015, 15 Action Fields + overarching Indicators on national Support to the Adaptation Process

## Updating of the monitoring report once in the legislature

- Central organisation (coordination office at UBA)
- Time series are already updated (Data cut 31.12.2017)
- Regular Review of the DAS Monitoring System  
2019: 17 Methodologically revised indicators

# Implementing DAS Monitoring

- Main target: avoiding additional operating expenses, making additional benefit from already existing data
  - No specific monitoring programmes to be launched for DAS Monitoring
  - Strengthening specific data interpretation activities
- Task sharing
  - Indicator based report as a joint product of all sectors  
→ all of them have to make their contributions
  - Centralized coordination in cooperation with manifold national agencies



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