

SDGs – Hitting the Targets

A GROW Cross-cutting topic

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First Product: GroW Position Paper

- GRoW position paper on SDG 6: "Strengthening the evidence base for the SDG process"
- Presented at the HLPF on SDGs in New York in July 2018
- Feedback and expressions of interest from a range of international stakeholders
- Key challenges identified



GRoW position paper on SDG 6 Strengthening the evidence base for the SDG process

21 June 2018

To help achieve the ambitious targets of Sustainable Development Goal 6 (SDS 6), the German Federal Ministry of Education and Research has initiated the "Water as a Global Resource" (GRoW) funding measure. GRoW has created a network of more than 90 institutions that are active in research, business and practice. The partners collaborating within GRoW very much welcome the fact that SDG 6 will be a focus during the 2018 United Nations High-Level Political Forum on Sustainable Development. They would like to take this opportunity to emphasise the significant role of science in sustainably manaping olobal freshwater resources.

GRoW stands ready to provide support for a stronger science-policy interface that will ensure sound reviewing, implementation, monitoring and evaluation of the ambitious targets for SDG 6 and related SDGs. With this position paper, GRoW would also like to highlight the challenges it sees with regard to achieving SDG 6, and to outline how its research programme can help achieve the SDGs in general and SDG 6 in particular.

KEY CHALLENGES TO ACHIEVING SDG 6

Agreeing on the SDGs was a tremendous accomplishment for the international community, and continuing on this path is essential for our joint future. Achieving the targets will require ongoing efforts and new approaches. Within this context, the GRoW research projects would like to highlight the following key challenges:

- Competing or even conflicting targets in different SDGs result in trade-offs and synergies
 (e.g. between SDG 6 and SDG 2, and SDG 6 and SDG 7). Trade-offs manifest differently
 depending on scale and region. These trade-offs need to be better understood and
 addressed openly with suitable governance structures to provide an integrated approach to
 achieving all SDGs.
- Measuring progress on achieving SDG 6 needs improved methodologies. Some of the existing
 indicators on achieving SDG 6 do not sufficiently represent the outlined targets, are not
 conceptually clear or measurable, or lack adequate data. Countries do not regularly record data for
 seven of the eleven SDG 6 indicators. In addition, indicators capturing potential synergies and
 conflicts between targets are largely lacking.
- The global community of water researchers and practitioners is rather fragmented. This
 results in fragmented knowledge and a high degree of uncertainty that paves the way for different
 interest groups to strategically misinterpret and even missue water-related knowledge and data.
 Improved knowledge management is required to provide the evidence base for water as a global
 resource.

Working Groups on Key Challenges Identified

WG 1 "Indicators, Data & Models"

(A. Smetanova, TU Berlin)

• Some of the existing indicators for measuring progress on achieving SDG 6 do not sufficiently represent the outlined targets, are not conceptually clear or measurable, or lack adequate data.

WG 2 "Conflicting targets and synergies between different SDG goals" (F.-A. Weber, FiW e. V., Aachen)

 Competing or even conflicting targets in different SDGs are not well understood, and neither are scale- and region-dependent trade-offs and synergies.



Innovative indicators and monitoring concepts to support achieving SDG 6 in an integrated manner

Working Group within GRoW cross-cutting topic "UN-Sustainable Development Goals"

Anna Smetanova (TU Berlin), Annika Kramer (adelphi), Falk Schmidt (IASS Potsdam), Martina Flörke (Ruhr University Bochum), Evelyn Lukat (Osnabrück University), Christoph Lorenz (KIT), Christian Knieper (Osnabrück University), Tobias Landwehr (Osnabrück University)

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WG 1 Indicators, Data & Models

- GRoW poliy brief
- SDG 6 monitoring as an opportunity for enhancing sustainable water management at the global and national level
- Main challenges:
 - Disaggregation
 - Interlinkages
 - Environmental data
 - Governance
 - Capacity

GRoW policy brief

Innovative indicators and monitoring concepts to support achieving SDG 6 in an integrated manner

In 2015, UN-Water launched the Integrated Monitoring Initiative for Sustainable Development Goal (SDG) 6 to support countries in monitoring and reporting on SDG 6 related progress. This international monitoring effort provides immense opportunity for establishing new global standards and datasets for improved water management. However, achieving SDG 6 and related SDGs requires sound management and planning at the national and sub-national level – and thus appropriate monitoring concepts and indicators to support decision making at these levels.

Within the research, programme "Water as a Global Resource" (GRAW), which was funded by the German Federal Ministry of Education and Research, professionals active in research, business and practice from 90 institutions worked together in more than 40 case studies around the world to develop new solutions in support of achieving SDG 6. This policy brief has been developed within a working group on the GRAW cross-culting topic SDG9 – Hitting the target". In this paper, GRAW experts argue that SDG monitoring can be coupled with cutting edge scence-based approaches to improve achievement of the ambitious SDGs targets at the national and sub-national level. It provides examples on how the current global SDG monitoring could be complemented at national and sub-national level by innovative monitoring concepts and integrated indicators that help to improve.

- · water management systems and SDG implementation,
- understanding of cross-sectoral interdependences to harness synergies to achieve more efficiently multiple SDGs
- · water governance, as a prerequisite for SDG implementation,

SDG 6 monitoring as an opportunity

Monitoring of water-related variables has a long tradition in existing national monitoring schemes, and international or global monitoring systems (such as the Joint Monitoring Programme, Global Environment Monitoring System for freshwater (GEMS/Water), the Ramsar convention on Wetlands, or overarching monitoring of the Millennium Development Goals (MDGs). In the past, these monitoring systems have helped to assess the actual dimension of the respective issue at hand and thus to raise awareness of its importance. For example, monitoring of the MDGs target 7.0 cn water and sanitation helped to close the hitherine suisting gap in knowledge about access to sanitation, enabled to more accurately understand the complexity of the issue, and defined new monitoring neptris.

Eight United Nations organizations have been formally mandated to compile country data on the SDB 6 global indicators. Together they launched the UN-Water Integrated Monitoring Initiative for SDB 6 with an ultimate aim to accelerate the achievement of SDB 6 through evidence-based policies, regulations, planning and investments. The comprehensive and concerted SDB 6 monitoring effort sets new standards to existing monitoring:

- Countries have committed to monitor a broader spectrum of water-related variables than before, possibly down to basin level. This helps to recognize sustainability challenges at (sub-inational level.
- The SDGs require monitoring of previously unconsidered water-related issues, such as water quality, water-related ecosystems, water governance (integrated water resources management and transboundary water cooperation).













WG 1 Indicators, Data & Models

Approaches developed within GRoW: three examples

- 1. Interlinked model and data chains to fill existing monitoring gaps at basin level
- SaWaM

2. Integrated indicators for measuring progress towards interlinked SDGs



3. Indicators and frameworks for assessing governance systems to better understand challenges in achieving interlinked SDGs















WG 1 Indicators, Data & Models

Key recommendations for policy and decision makers:

- make use of innovative approaches to fill existing data gaps
 (e.g., remote sensing, integrated modelling, stakeholder knowledge)
- combine new technologies (e.g., remote sensing) and monitoring approaches (e.g., crowdsourced monitoring) to simplify data acquisition on multiple levels and scales
- develop indicators in assessing SDG interlinkages
- include assessments of governance into monitoring efforts
- sound cross-sectoral monitoring paves the way for better coordination















New approaches towards assessing trade-offs and synergies between SDG 6 and other SDGs

Working Group within GRoW cross-cutting topic "UN-Sustainable Development Goals"

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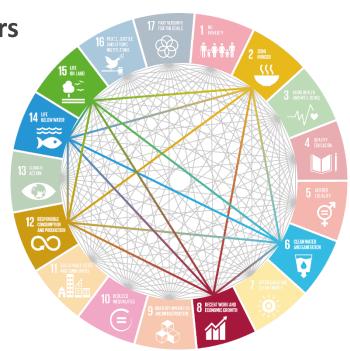
WG 2 Conflicting Targets and Synergies

Discuss a **new assessment procedure** by which decision makers can evaluate the effects of key projects / policy strategies on achieving UN-SDG targets including **indirect trade-offs and synergies**.

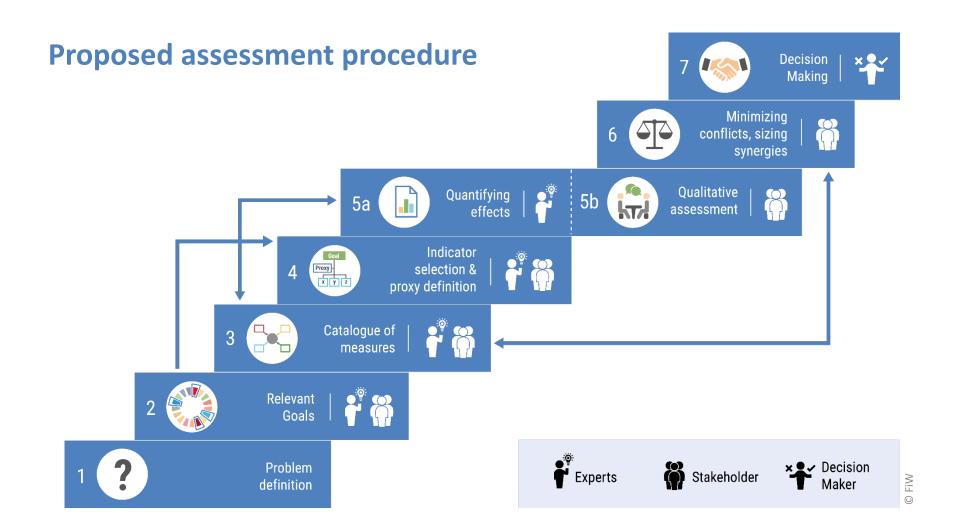
Holistic approach by looking on all 17 goals and 169 targets

 Participatory involvement of stakeholders to include local knowledge to minimize trade-offs and size synergies

- Be quantitatively as far as possible
- Handle data gaps
- Working across different scales

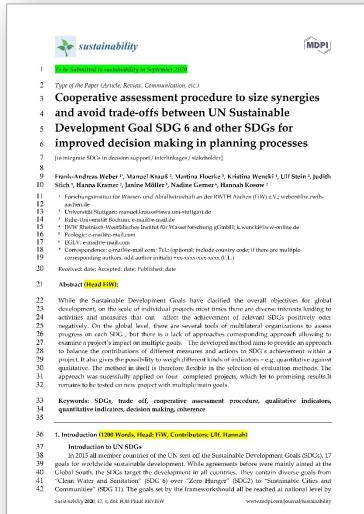


WG 2 Conflicting Targets and Synergies



WG 2 Conflicting Targets and Synergies

- Participation of relevant stakeholders early on minimizing trade-offs and sizing synergies
- Event on Stockholm World Water Week, 25 August 2019
- Paper to be submitted
- KfW Climate Adaptation
 Support to Sector Information
 "Water and Sanitation"
 contracted to FiW e. V.





























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