



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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Swiss Confederation

Federal Department of the Environment,
Transport, Energy and Communications DETEC

Federal Office for the Environment FOEN
Division

Hydro-CH2018: Synthesis report

Coordination meeting, 10 May 2017



Preliminary structure of Synthesis Report Hydro-CH2018

- **Summary and Preface**
- **1: Introduction**
- **2: Data basis: CH2018 Scenarios**
- **3: Future changes in Hydrology**
- **4: Impacts on water management**
- **5: Adaptation measures**
- **6: Methodology**
- **7: Conclusions**
- **References**



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3 Future changes in Hydrology

Chapter	assigned	Authors
Glaciers and Snow		WSL, SLF, ETH/UFR, UniGE
Groundwater		Uni NE, ISSKA
Soil moisture and ET		ETHZ
Lakes and Reservoirs		Potentialstudie Speicher
Watertemperature		EPFL, Eawag
Waterquality		-
Discharge regimes		Uni BE
Extreme precipitation and floods		ETHZ, Uni GE
Low flow		Uni Freiburg i. Br.
Sediment transport		HSR Rapperswil

DATA BASIS

CHANGES

IMPACTS

ADAPTATION

METHODS



Guidelines (to be discussed)

- Language: E or G
- Guidelines for authors will be compiled (minimal standards)
- Proposed structure:
 1. Extended Summary
 2. Introduction
 3. Thematic sub-chapters (to be discussed)
 4. Research needs
 5. Conclusions
 6. References

!Take-home message after sub-chapters 3&4!

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4: Impacts on water management

Chapter	assigned	Authors
Municipal water supply		K. Lanz (Int. Water affairs)
Agriculture, irrigation		
Heating and cooling water		
Industrial water use		
Hydropower production		
Tourism		SCCER SoE (M. Stähli et al.)
Aquatic ecology and fishery		E. Reynard (UniL)
Waste water dilution		
Rhine navigation and cross-border coordination (pot. downstream demand)		

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Guidelines (to be discussed)

- Language: E or G
- Proposed chapter structure (by K. Lanz)
 1. Welche Ansprüche an die Gewässer bestehen?
 2. Aktuelle Beanspruchung der Gewässer: Mengen, Flächen, Morphologie
 3. Zukunftsaussichten
 4. Konfliktpotenzial
 5. Potenzielle Lösungsansätze
 6. Forschungsbedarf



5: Adaptation measures (optional)

- Will be written by BAFU
- Only for Synthesis report
- Consists of «case studies» from the several adaptation projects at FOEN
- Internal discussion whether such a chapter will be included



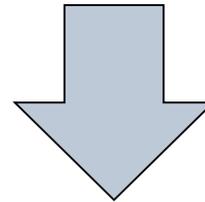
6 Methodology

- Written by WSL and UZH
- Dealing with uncertainty
- Communication of uncertainty
- Communication during extreme events
- Integration of climate change (aspects) in hydrological environmental monitoring
- Seasonal forecasts in Switzerland

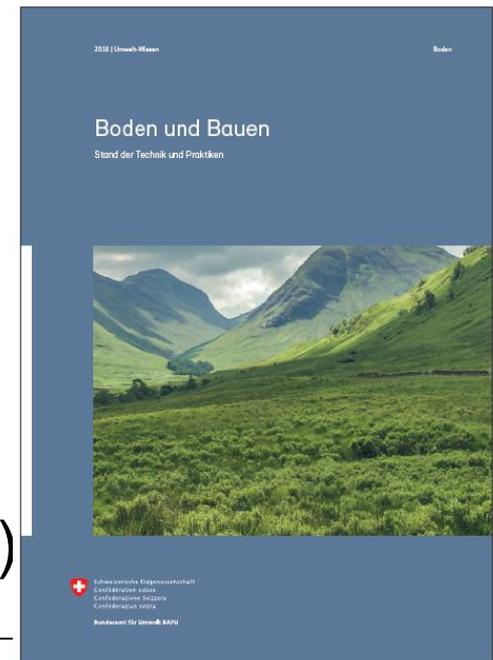


Planned publication procedure

1. *Online publication* of individual state-of-the-art chapters (full version, language German or English, target group = professionals and experts)



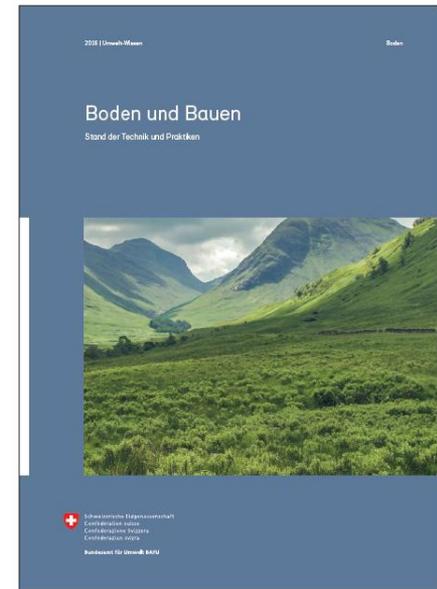
2. *Print publication* in BAFU-Publikation «Umwelt-Wissen»: condensed and streamlined version of chapters in a Synthesis Report, Language: German, 80 pages, CD Bund, target group: interested public)



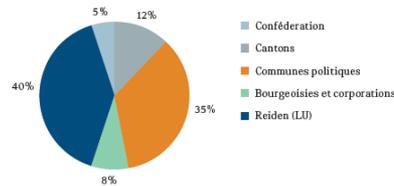


CD Bund: «Umwelt:Wissen»

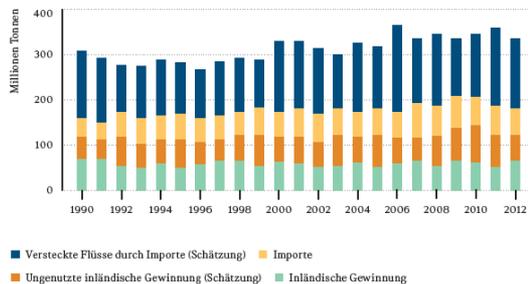
- Data for graphics must be provided in an appropriate form
- Formal guidelines (references, font, line spacing etc.) will be incorporated in the «Guidelines for Authors»



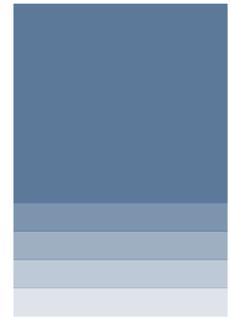
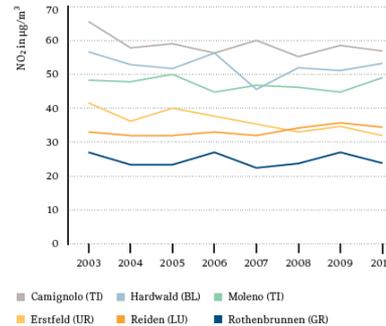
Kreisdiagramm



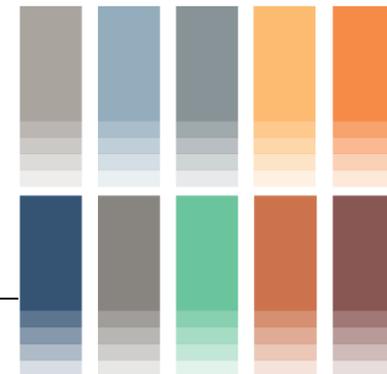
Balkendiagramm



Kurvendiagramm



Umwelt-Wissen





Timetable

10.5.17	Coordination meeting Hydro-CH2018
2017/2018(Q1)	First version of synthesis report chapters
2018	Feedback and revisions
2018 (Q2/Q3)	Author coordination workshop
2019	Second version of Synthesis report chapters (including updates) and compilation of synthesis report (and Input for 2. Aktionsplan)
2019	Review of synthesis report chapters
2020	Final version of Synthesis report and end of Hydro-CH2018



Discussion

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Aims of the discussion

- ✓ Coordination of individual chapters within part 3&4
- ✓ Towards consensus on the structure and formal standards of the chapters (guidelines for authors)
- ✓ Facilitate content alignment (thematic overlap) and identify need for further coordination



Discussion

Group 1: Future changes in Hydrology (Petra)

→ All authors of a synthesis report chapter in Part 3

Group 2: Impacts on water management (Fabia)

→ K. Lanz, E. Reynard, M. Stähli, S.Zahner

Others: upon interest!

A large, dynamic splash of clear blue water, with many droplets and bubbles, moving from left to right across the bottom half of the image.

THANK YOU!