



Anton vorauer/WWF



100+/ 5 Mio

WWF is active in more than 100 countries, and counts 5 mio supporters

1961

WWF was founded in 1961



6000+

More than 6.000 people worldwide are working with WWF

99%

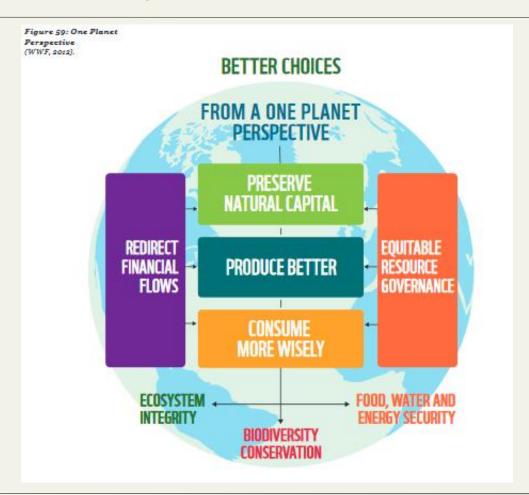
99% of the population recognize the Panda Logo

Photo: © Michel Roggo / WWF-Canon



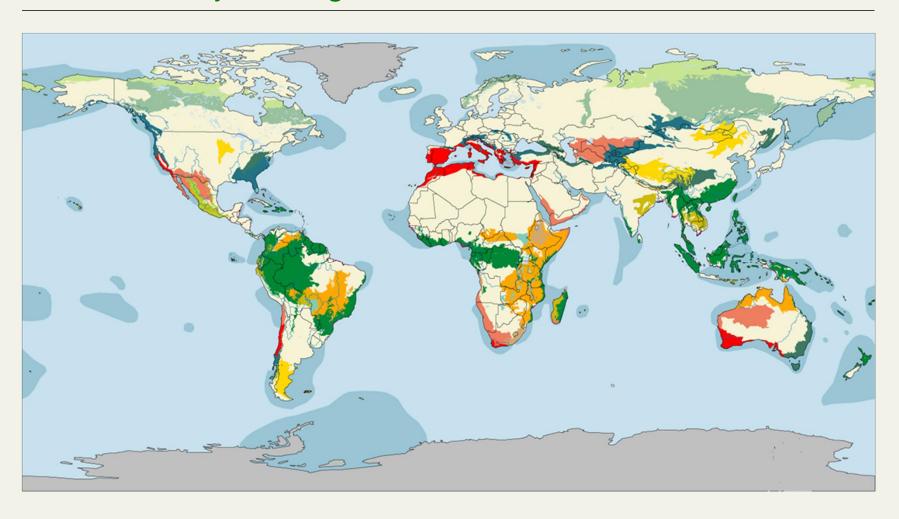
WWF Conceptual Model

Living Planet Report 2014



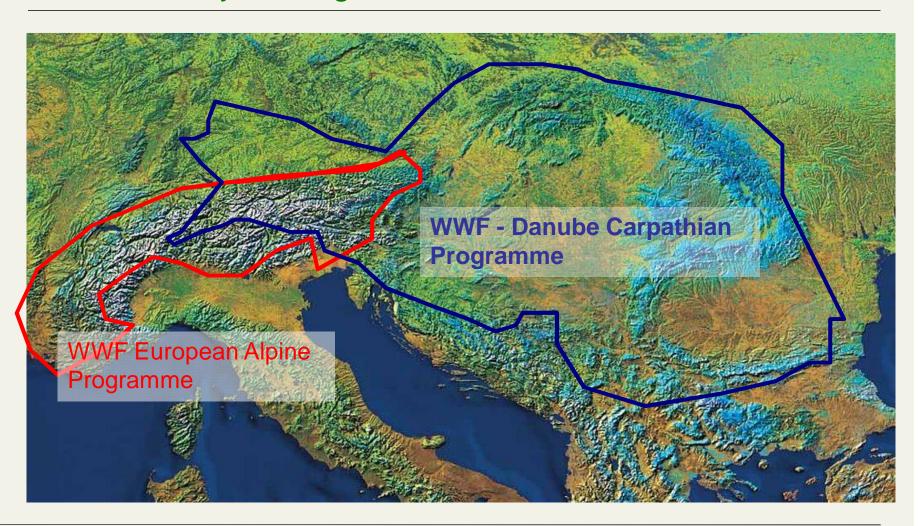


Global Priority Ecoregions



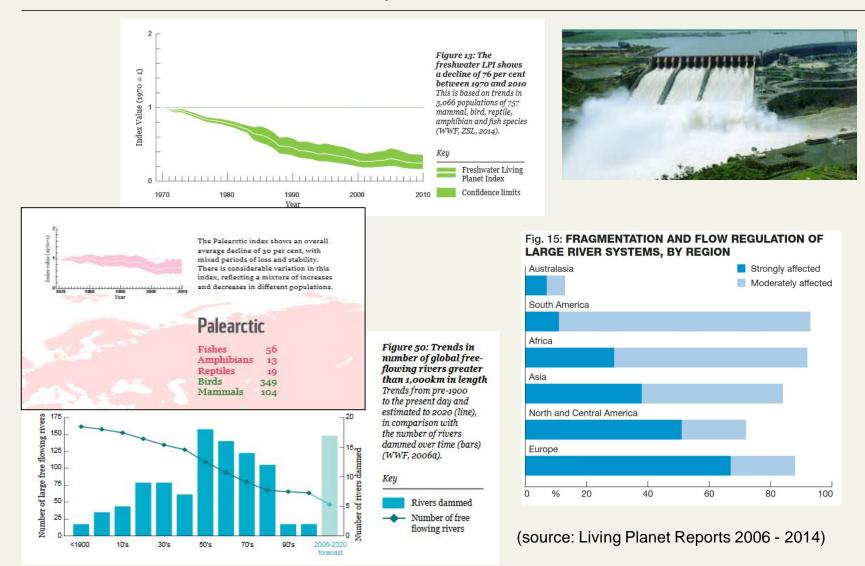


Global Priority Ecoregions





Decline of Freshwater species





Alpine Rivers

- is highly threatened by land use, settlement, economy, flood protection: CIPRA study 1992: only 10% of the alpine rivers are natural; WWF STAR 2014: 4% of larger rivers (15% of smaller ones) in good ecological status
- Main impact is hydromorphological change due to hydropower and to a lesser extent – Flood protection shoring (e.g. 81% of Austrian Rivers with hydromorphological alteration)
- only 8% (4.669 km) of the Alpine rivers are still bordered by floodplains or wetlands

Save the Alpine Rivers Scientific foundations for identifying ecologically sensitive river stretches in the Alpine Arc



University of Natural Resources and Life Sciences, Vienna Department of Water, Atmosphere and Environment



Institute of Hydrobiology and Aquatic Ecosystem Management Max-Emanuel-Straße 17, 1180 Vienna, Austria Project team: Susanne Muhar, Rafaela Schinegger, Stefan Fleck, Sabine Preis, Lisa Schülting, Clemens Trautwein & Stefan Schmutz



Funding Organisations: MAVA - Fondation pour la nature WWF - World Wide Fund For Nature December 2013



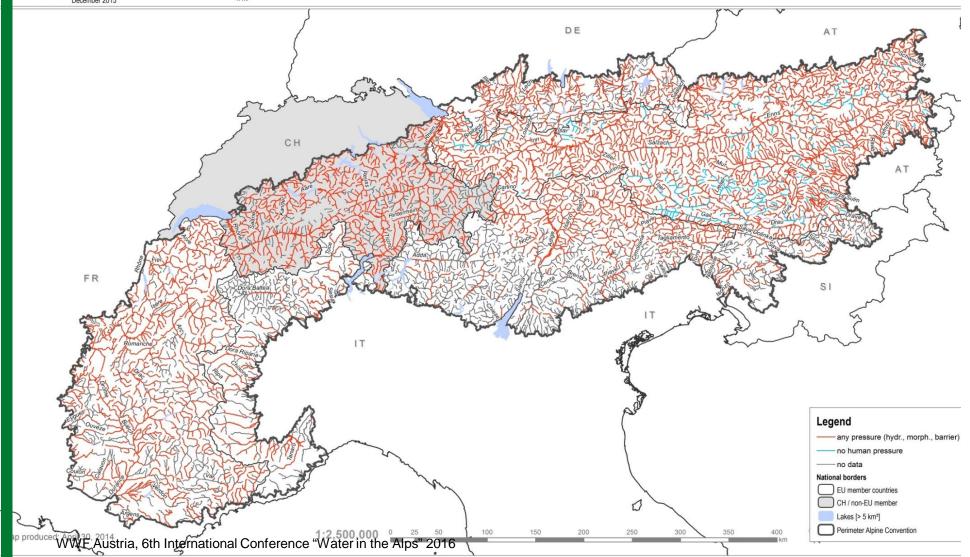
Human pressures on river units - Alpine Arc

Mapping of human pressures occuring on the river unit with catchment area > 10 km^2 : Water abstraction OR hydropeaking OR impoundment OR morphology > 2 OR any barrier. Pan-Alpine river network assembled from official national river networks.

Data sources

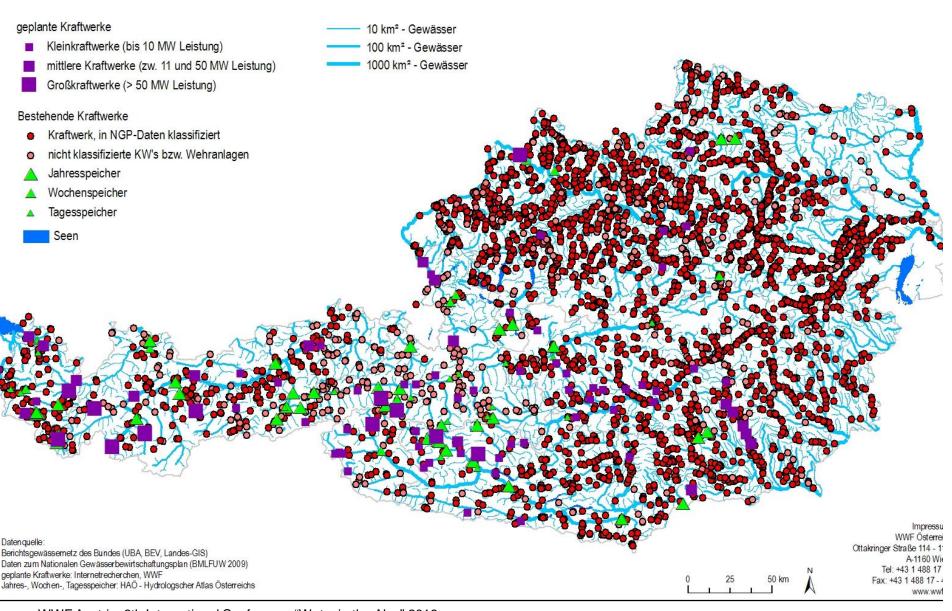
Perimeter of the Alpine Convention: Permanent Secretariat of the Alpine Convention National river networks: ADBPO, ADBVE, GURS, UBA, LFU, IRSTEA, Swisstopo Ecological status: UBA, LFU, Eau France, ADBPO, ADBVE, Region Liguria, ARSO Lakes (from ECRINS): EEA

Administrative boundaries: GADM database



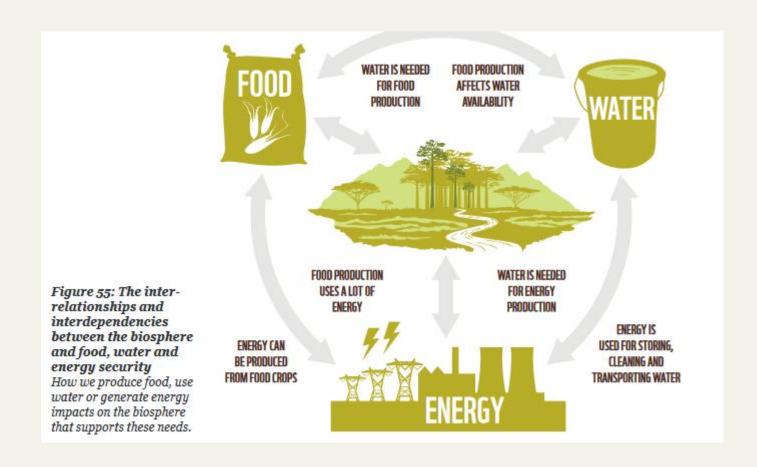
Österreichs Fließgewässer - lebendig oder gestaut?

Bestehende Kraftwerke an österreichischen Fließgewässern mit EZG > 10 km² sowie österreichweit geplante Kraftwerke





...so what to do?





Integrated River Basin Management

- Determination of ecologically most valuable/sensitive river stretches as "no-go areas"
- restoration of degraded areas
- definition of multifunctional spaces, e.g. flood retention combined with (extensive) agriculture and/or recreation areas
- inclusive dialogue with all stakeholders



map produced: April 30, 2014

Priority protection rivers - Alpine Arc Scientific foundations for identifying ecologically sensitive river stretches in the Alpine Arc Criteria for the identification of protection priorities for rivers with catchment area > 10 km²: University of Natural Resources and Life Sciences, Vienna Department of Water, Atmosphere and Environment Aggregated from ecological status, protection status and floodplain/wetland data on a river unit. Pan-Alpine river network assembled from official national river networks. Institute of Hydrobiology and Aquatic Ecosystem Management Max-Emanuel-Straße 17, 1180 Vienna, Austria Data sources Perimeter of the Alpine Convention: Permanent Secretariat of the Alpine Convention National river networks: ADBPO, ADBVE, GURS, UBA, LFU, IRSTEA, Swisstopo Ecological status: UBA, LFU, Eau France, ADBPO, ADBVE, Region Liguria, ARSO Control of the C Project team: Susanne Muhar, Rafaela Schinegger, Stefan Fleck, Sabine Preis, Lisa Schülting, Clemens Trautwein & Stefan Schmutz Funding Organisations: MAVA - Fondation pour la nature WWF - World Wide Fund For Nature December 2013 Lakes (from ECRINS): EEA Administrative boundaries: GADM database DE Legend - other river network very high protection priority insufficient data National borders EU member countries CH / non-EU member Lakes [> 5 km²]

1:2,500,000 0 25

Perimeter Alpine Convention



Official Journal of the European Communities No L 206/7 ALPINE CONVENTION | WATER AND WATER MANAGEMENT ISSU 22.12.2005 EN STATUS OF WATERS IN THE ALPS Official Journal of the European Union on the implementation of the Alpine Conven TRANSLATION integration in space (with the reference for planning and dec proach is generally known as In PROTOCOL GENERAL DESCRIPTION L 337/29 es Management (IWRM) (see § B.1.1 WATER MANAGEMENT -IWRM approach). AN INTEGRATED APPROACH instruments for water EN Water resources management covers all human activi-L 337/36 Official Journal of the European Union 22.12.2005 ties relating to the use of water, protection of water and protection against the hazards of water. Integrated wa-PROTOCOL ter resources management attempts to harmonise these on the implementation of the Alpine Convention of 1991 in the field of energy **Energy Protocol** The term water resources management has often been three main objectives. 3. They shall adopt measures and make provisions, partiunderstood to mean only one aspect: the economical reason cularly in the following areas: Hydroelectric power to mi use of water. However, the approach of pursuing particular interests independently of other objectives is now The Contracting Parties shall ensure that the ecological (a) improving insulation in buildings and the efficiency of In the Contracting rarties small ensure that the ecological functions of watercourses and the integrity of the landscape are maintained through appropriate measures, such as establishing minimum flows, implementing standards for the reduction of artificial fluctuations in water level and shall past history, because, the more demands that are made on a Watercourse, the more conflicts of interest arise. guarantee animal migration in the case of new hydroelectric plants, and existing ones where possible. (b) optimising the performance of heating, ventilation and air On pr used for ag onditioning systems; characterist From use to management (c) periodic monitoring and reduction, where appropriate, of The Contracting Parties may adopt measures aimed at polluting emissions from thermal plants; improving the competitiveness of existing hydroelectric plants, subject to compliance with their safety and environmental (d) saving energy through modern technological processes for energy use and conversion; variety of solutions which audress the requirements of the different sectors should be sought. So, where water was once "used", it must now be "managed". Accordnatural hy They shall also undertake to protect water resources in areas reserved for drinking water, in protected areas and their buffer zones, other protected and quiet zones as well as areas of unspoilt nature and countryside. ingly, the focus is no longer purely on the element water, Fig. B1-1: Schematic of In @ BAFU (e) individual calculation of the costs of heating and hot water; but on the Watercourse and the Watershed as a Whole. The planning of measures must also take into account Management the fact that the impacts of interventions are not only (f) planning and promoting new buildings which use lowenergy technologies; local, but also affect conditions further downstream. 4. The Contracting Parties shall recommend reopening disused hydroelectric plants rather than building new ones. The provision under paragraph (1) on the protection of aquatic ecosystems and other related systems shall also be (g) promoting and implementing municipal or local energy and climate projects in accordance with measures provided for in Article 2, paragraph 1.c; 5. The Contracting Parties may, in the framework of their (h) improving energy performance in buildings undergoing national legislation, examine how they can make end-consumers of Alpine resources pay market-related prices, and the extent to renovation and encouraging the use of environmentallyfriendly heating systems. which the local population can be fairly compensated for services supplied in the general interest. (c) aims at enhanced protection and improvement of the anus at ennanceu protection and improvenient of the adjustic environment, inter alia, through specific measures



Integrated River Basin Management

- Ownership with national/regional/local authorities
- Involvement of all stakeholders interested in water use, in disaster risk reduction and in nature protection
- role of NGOs: support to local civil initiatives, dissemination of information, cooperation with research
 e specific studies as contributions for planning, participation in institutionalized dialogue on all levels



E.g. "WWF Eco master plan"

39 ecological criteria, e.g. ecological state, indicator species, protected areas...

based on official data

è Identification of high-sensitives river stretches

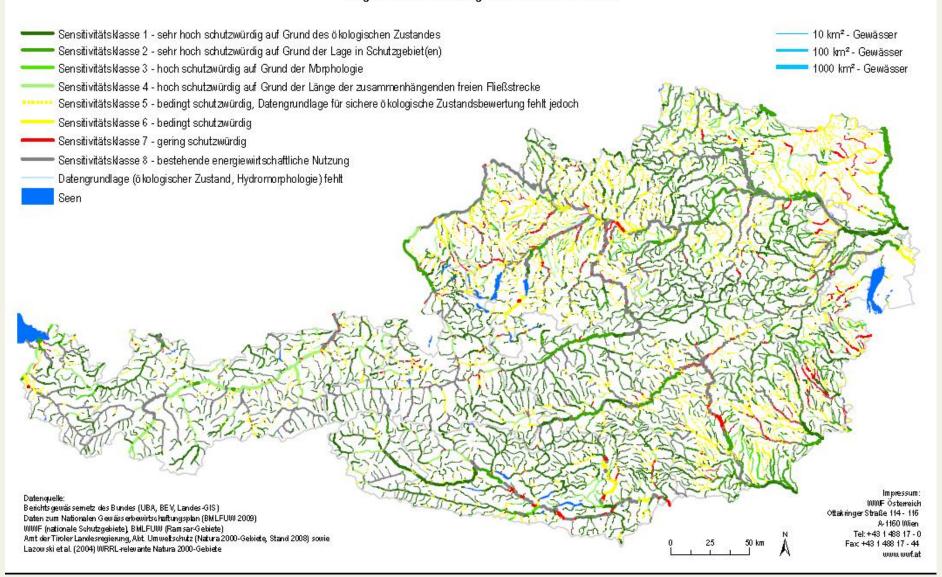
as WWF contribution in the selection process of exclusion areas





Schutz für die letzten intakten Fließgewässer-Strecken Österreichs

Darstellung der Schutzwürdigkeit der österreichischen Fließgewässer (Einzugsgebiet ≥ 10 km²) anhand der Kriterien "ökologischer Zustand", "Lage in Schutzgebieten", "morphologischer Zustand" sowie "Länge der zusammenhängenden freien Fließstrecke"





Lobbying for enhanced cooperation on priority rivers

Tagliamento

Soča / Isonzo

• Inn









