

NATURE REHABILITATION FOR THE RIVER RHINE: A SCENARIO APPROACH AT DIFFERENT SCALES

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Abstract

Nature rehabilitation has become a major policy in river management in the Netherlands. A scenario approach combined with an expert system can support decision making. The methodology is illustrated by two case studies at different scales. In the Rhine-Econet study three scenarios for river management are presented and evaluated for the network function of some bird species. A second case concerns the Gelderse Poort area with two scenarios both aimed to enlarge the surface of the natural areas but in a different way. By means of the GIS-based landscape ecological decision support system LEDESS the ecological impact on vegetation and fauna has been assessed. Results are discussed. Although a lot of assumptions have to be made the results of both studies facilitate discussion and decision making about which nature policy targets are desirable and realistic.

1. Introduction

During the last decade the concept of river rehabilitation was introduced in river management in the Netherlands (Van Dijk *et al.* 1995). This policy is related to political issues such as sustainable exploitation of natural resources and biodiversity and has been enhanced by the need to reduce the total area of agricultural land, due to increasing production surpluses. In the past, river floodplains were predominantly used by agriculture in spite of seasonal inundation. Nowadays, the same conditions give restricted use to agriculture, so that floodplain areas may be transformed into nature areas. Those floodplains are considered now as important areas for nature rehabilitation. Changes in land use, however, may have serious impact on other river functions which also have to be fulfilled. Situated within the most densely populated part of Europe, the River Rhine is intensively used for navigation. Extremely high discharges in 1993 and 1995 have stressed again the water discharge function and flood protection as high-priority issues (Silva & Kok 1996).

Thus, modern river management is confronted with conflicting interests and land use claims from various sectors. The outcome of the future developments in these sectors is uncertain. To cope with this uncertainty, scenario studies are believed to be useful tools in the decision making process. However, examples of scenario studies for nature policy are scarce. This paper will contribute to a methodology of scenario studies on nature policy for river systems.

First, the scenario approach will be introduced as well as the decision support instrument used for comparison of outcomes of the various scenarios for nature poli-

Rehabilitation Of The River Rhine

Josselin Garnier, J.-M. Mouchel



Rehabilitation Of The River Rhine:

Rehabilitation of the River Rhine J. A. van de Kraats, 1994 This volume covers many aspects of the Rhine ecosystem including biological communities in the river affected by environmental changes emission and fate of pollutants accidental spills ecotoxicological effects and restoration of fish stocks and floodplain ecosystems **Ecological Restoration of Aquatic and Semi-Aquatic Ecosystems in the Netherlands (NW Europe)** P.H. Nienhuis, Ramesh D. Gulati, 2013-03-14 This work presents the state of the art of aquatic and semi aquatic ecological restoration projects in The Netherlands Starting from the conceptual basis of restoration ecology the successes and failures of hundreds of restoration projects are described Numerous successful projects are mentioned In general ecological restoration endeavours greatly benefit from the progressive experience achieved in the course of the years Failures mainly occur through insufficient application of physical chemical or ecological principles Spontaneous colonization by plants and animals following habitat reconstruction is preferred However sometimes the re introduction of keystone species e.g. eelgrass salmon beaver is necessary in case the potential habitats are isolated or fragmented or if a seed bank is lacking thus not allowing viable populations to develop Re introducing traditional management techniques e.g. mowing without fertilization low intensity grazing is important to rehabilitate the semi natural and cultural landscapes that are so characteristic for The Netherlands Rehabilitation of the Lower River Rhine W. Admiraal, Netherlands, 1990 *River restoration: a strategic approach to planning and management* Speed, Robert, Tickner, David, Naiman, Robert, Lei Gang, Sayers, Paul, Wei Yu, Li Yuanyuan, Huang Houjian, Cao Jianting, Yu Lili, Zhao Zhongnan, 2016-09-19 Ecological rehabilitation of the river Rhine Rijksinstituut voor Zuivering van Afvalwater, Rijksinstituut voor Volksgezondheid en Milieuhygiëne, Rijksinstituut voor Visserijonderzoek, 1988 Habitat Rehabilitation for Inland Fisheries Philip Roni, Food and Agriculture Organization of the United Nations, 2005-01-01 This technical paper reviews current information on the effectiveness of habitat rehabilitation techniques for inland fisheries based on published evaluations of projects including studies on roads improvements and sediment reduction riparian and floodplain rehabilitation placement of habitat structures in lakes and streams and the addition of nutrients to increase aquatic production It also sets out information on planning prioritising and monitoring rehabilitation projects *Restoration of Degraded Rivers: Challenges, Issues and Experiences* D.P. Loucks, 2013-04-17 In the continued quest for increased economic benefits from our water resources numerous structures and operating policies for controlling the river flow have been built and implemented These structures and associated operating policies can facilitate navigation they can provide greater quantities of reliable water supplies to meet agricultural industrial and municipal water demands they can generate hydroelectric power and energy and they can provide increased flood protection recreation and other benefits Over the past half century we have converted many of our rivers into engineered waterways These straightened often periodically dredged engineered rivers are complete with dikes reservoirs weirs and diversion canals All this engineering has enhanced economic

development However as rivers and their floodplains become stressed from the excessive use and misuse of their resources their contribution to economic development can be threatened Evidence of economic and ecological degradation especially in relatively large river systems such as the Danube the Mississippi the Rhine and the Volga has increased our appreciation of beneficial roles natural aquatic and terrestrial ecosystems play in water quantity and quality management We have recognized the need to pay more attention to letting nature help us regulate water quantity and quality rather than working against nature and its variabilities and uncertainties Today there are efforts underway in many developed river basins to de engineer or return these straightened and controlled rivers to a more natural state Fisheries Review ,1994 **The**

Danube River Basin Igor Liska,2015-12-14 This volume offers a comprehensive review of the chemical biological and hydromorphological quality of the Danube The first part examines the chemical pollution of surface waters focusing on organic compounds with special emphasis given to EU WFD priority substances and Danube River Basin specific pollutants heavy metals and nutrients Attention is also given to pollution of groundwater and drinking water resources by hazardous substances and to radioactivity in the Danube The second part highlights the biology and hydromorphology of the Danube It focuses on benthic macroinvertebrates phytobenthos macrophytes fish phytoplankton as well as microbiology with chapters dedicated to gaps and uncertainties in the ecological status assessment and to invasive alien species Further chapters dealing with the hydromorphology sediment management and isotope hydrology complete the overall picture of the status of the Danube *Riverine Ecosystem Management* Stefan Schmutz,Jan Sendzimir,2018-05-08 This open access book surveys the frontier of scientific river research and provides examples to guide management towards a sustainable future of riverine ecosystems Principal structures and functions of the biogeosphere of rivers are explained key threats are identified and effective solutions for restoration and mitigation are provided Rivers are among the most threatened ecosystems of the world They increasingly suffer from pollution water abstraction river channelisation and damming Fundamental knowledge of ecosystem structure and function is necessary to understand how human activities interfere with natural processes and which interventions are feasible to rectify this Modern water legislation strives for sustainable water resource management and protection of important habitats and species However decision makers would benefit from more profound understanding of ecosystem degradation processes and of innovative methodologies and tools for efficient mitigation and restoration The book provides best practice examples of sustainable river management from on site studies European wide analyses and case studies from other parts of the world This book will be of interest to researchers in the field of aquatic ecology river system functioning conservation and restoration to postgraduate students to institutions involved in water management and to water related industries **Rehabilitation of the River Rhine** J.A. van de Kraats,1994 **Swiss Competences in River**

Engineering and Restoration Anton J. Schleiss,Jörg Speerli,Roger Pfammatter,2014-08-12 Every year the Swiss Commission for Flood Protection KOHS of the Swiss Association for Water Management SWV organizes a symposium where

professionals officers of public administrations and researchers exchange their experiences on special topics and key projects in river engineering and restoration In 2014 this symposium was organized as a *River Futures* Gary J. Brierley, Kirstie A. Fryirs, 2012-09-26 Across much of the industrialized world rivers that were physically transformed and ecologically ruined to facilitate industrial and agricultural development are now the focus of restoration and rehabilitation efforts *River Futures* discusses the emergence of this new era of river repair and documents a comprehensive biophysical framework for river science and management The book considers what can be done to maximize prospects for improving river health while maintaining or enhancing the provision of ecosystem services over the next fifty to one hundred years It provides a holistic overview of considerations that underpin the use of science in river management emphasizing cross disciplinary understanding that builds on a landscape template The book frames the development of integrative river science and its application to river rehabilitation programs develops a coherent set of guiding principles with which to approach integrative river science considers the application of cross disciplinary thinking in river rehabilitation experiences from around the world examines the crossover between science and management outlining issues that must be addressed to promote healthier river futures Case studies explore practical applications in different parts of the world highlighting approaches to the use of integrative river science measures of success and steps that could be taken to improve performance in future efforts *River Futures* offers a positive practical and constructive focus that directly addresses the major challenge of a new era of river conservation and rehabilitation that of bringing together the diverse and typically discipline bound sets of knowledge and practices that are involved in repairing rivers It is a valuable resource for anyone involved in river restoration and management including restorationists scientists managers and policymakers as well as undergraduate and graduate students

The Biodiversity Crisis and Crustacea - Proceedings of the Fourth International Crustacean Congress J. Carel von Vaupel Klein, 2000-06-01 The papers in this volume have been grouped according to the main sub themes of the congress and primarily deal with the biodiversity issues of invasive crustacea ecology and behaviour and fisheries and aquaculture **A River Flows Through It** Selina Ho, 2020-12-17 *A River Flows Through It* A Comparative Study of Transboundary Water Disputes and Cooperation in Asia explores water disputes in Asia and addresses the question of how states sharing a river system can be incentivized to cooperate Water scarcity is a major environmental societal and economic problem around the world Increasing demand for water as a result of rapid economic development high population growth and density has depleted the world's water resources leading to floods droughts environmental disasters and societal displacement Shared river basins are therefore often a source of tension and conflict between states In regions where relations between countries have historically been conflictual scarce river water resources have exacerbated tensions and have even sparked wars Yet more often than not states sharing a river basin are able to come to some form of agreement whether they are far reaching ones such as water sharing agreements or those that are more limited such as the sharing of hydrological data Why do

riparian states cooperate especially when power asymmetries between upstream and downstream countries are characteristic of transboundary river basins How do non state actors affect the management of international rivers What are the conditions that facilitate or hinder cooperation This book wrestles with these questions by exploring water disputes and cooperation in the major river systems in Asia and by comparing them with cases in Africa Europe and the United States This book will be of great value to scholars students and policymakers interested in transboundary water disputes and cooperation hydro diplomacy and river activism It was originally published as special issues of Water International

Making Space for the River Jeroen Frank Warner, Arwin van Buuren, Jurian Edelenbos, 2012-11-01 This book examines recent developments in river flood management from the viewpoint of Making Space for the River and the resulting challenges for water governance Different examples from Europe and the United States of America are discussed that aim to green rivers including increasing river discharge for flood management enhancing natural and landscape values promoting local or regional economic development and urban regeneration Making Space for the River presents not only opportunities and synergies but also risks as it crosses established institutional boundaries and touches on multiple stakeholder interests which can easily clash Making Space for the River helps the reader to understand the policy and governance dynamics that lead to these tensions and pays attention to a variety of attempts to organize effective and legitimate governance approaches The book helps to realize connections between policy domains problem frames and goals of different actors at different levels that contribute to decisive and legitimate action Making Space for the River has an international comparative character that sheds light upon both the country specific governance dilemmas which relate to specific state traditions and institutional characteristics of national water management but also uncovers interesting similarities which provide us with building blocks to formulate more generic lessons about the governance of Making Space for the River in different institutional and social contexts The authors of this book come from a variety of disciplines including public administration town and country planning geography and anthropology and these different disciplines bring multiple ways of knowing and understanding of Making Space for the River programs The book combines interdisciplinary scientific analyses of Space for the River projects and programs with practical knowing and lessons drawing Making Space for the River is written for both practitioners and scholars and students of environmental policy spatial planning land use and water management Editors Jeroen Warner Assistant Professor of Disaster Studies Wageningen University The Netherlands Arwin van Buuren Associate Professor of Public Administration Erasmus University Rotterdam The Netherlands Jurian Edelenbos Professor of Public Administration Erasmus University Rotterdam The Netherlands

Man and River Systems Josselin Garnier, J.-M. Mouchel, 2013-04-17 The volume focuses on the ecological functioning of rivers which has received less attention than functioning of lakes and reservoirs The selected papers cover a large range of topics relating to aquatic communities eutrophication nutrient dynamics and organic pollution erosion and sediment transport and fate of micropollutants at the basin scale Integrated

approaches developed in order to study the ecological functioning of fluvial systems perturbed by human activity are presented This functioning is analysed from the point of view of fundamental research but insights into system management are not neglected This book will be of interest to researchers in the field of aquatic ecology river system functioning and water surface pollution to postgraduate students to the institutions involved in water resource management and to the drinking water and waste water treatment industries It draws information from many large river systems in the world

Integrated Water Resources Management Miguel A. Mariño, Slobodan P. Simonović, 2001 Stream Restoration in Dynamic Fluvial Systems Andrew Simon, Sean J. Bennett, Janine M. Castro, 2013-05-08 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 194 Stream Restoration in Dynamic Fluvial Systems Scientific Approaches Analyses and Tools brings together leading contributors in stream restoration science to provide comprehensive consideration of process based approaches tools and applications of techniques useful for the implementation of sustainable restoration strategies Stream restoration is a catchall term for modifications to streams and adjacent riparian zones undertaken to improve geomorphic and or ecologic function structure and integrity of river corridors and it has become a multibillion dollar industry A vigorous debate currently exists in research and professional communities regarding the approaches applications and tools most effective in designing implementing and assessing stream restoration strategies given a multitude of goals objectives stakeholders and boundary conditions More importantly stream restoration as a research oriented academic discipline is at present lagging stream restoration as a rapidly evolving practitioner centric endeavor The volume addresses these main areas concepts in stream restoration river mechanics and the use of hydraulic structures modeling in restoration design ecology ecologic indices and habitat geomorphic approaches to stream and watershed management and sediment considerations in stream restoration Stream Restoration in Dynamic Fluvial Systems will appeal to scholars professionals and government agency and institute researchers involved in examining river flow processes river channel changes and improvements watershed processes and landscape systematics **Inland Flood Hazards** Ellen E. Wohl, 2000-07-03 This edited volume was originally published in 2000 and presents a comprehensive interdisciplinary review of issues related to inland flood hazards It addresses physical controls on flooding flood processes and effects and responses to flooding from the perspective of human aquatic and riparian communities Individual chapter authors are recognized experts in their fields who draw on examples and case studies of inland flood hazards from around the world This volume is unusual among treatments of flood hazards in that it addresses how the non occurrence of floods in association with flow regulation and other human manipulation of river systems may create hazards for aquatic and riparian communities This book will be a valuable resource for everyone associated with inland flood hazards professionals in government and industry and researchers and graduate students in civil engineering geography geology hydrology hydraulics and ecology

Whispering the Techniques of Language: An Mental Journey through **Rehabilitation Of The River Rhine**

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