

# INADAR –

INNOVATIVE APPROACHES FOR  
DAM RESTORATION AND ELEVATION  
(LIFE14 ENV/DE/000851)

## AFTER-LIFE-COMMUNICATION PLAN (Action D1)

**LEW**  
*Wasserkraft*

**VGB**  
POWERTECH



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## 1 BACKGROUND

The After-LIFE-Communication Plan for INADAR summarizes all activities for the dissemination of project results after the end of the EU-funded project. The aim is to keep information and materials available on the long term and to keep on motivating other stakeholders to take up the INADAR-approach and replicate the best practices from the project.

## 2 PROJECT DESCRIPTION

The banks of most water bodies with dams today are covered with wave breakers made of concrete. They usually do not provide a noteworthy ecological habitat. At restoration activities, the old concrete surface is just exchanged by new concrete elements, without improving the environment for flora and fauna. When dams have to be elevated, it becomes broader on the landside, which increases land consumption and has a negative impact on the floodplain forests (usually FFH - areas). The approval procedures are time-consuming and the cost for restoration and elevation of dams are quite high.

The INADAR - project successfully demonstrated a new approach for dam restoration by using eco-berms. They make it possible to do the restoration respectively the elevation of the dam and the improvement of the ecological potential as demanded by the Water Framework Directive (WFD) in one work step. This increases the efficiency and cost effectiveness of the measures.

### Key results of the INADAR project

#### Ecology

- At least **2ha of valuable habitats** for fauna and flora were created
- The number of **fish species increased from 8 to 17** and the **number of individual fishes increased by factor 8** in Offingen
- **3 endangered species** were already found in the new habitats
- The number of plant species increased by about 25, including some endangered species
- There was no impact on the existing **alluvial forests - 4.000m<sup>2</sup> have been saved**

#### Technology and economy

- The eco-berms were **successfully implemented at a total of 1km**
- Dam renovation / elevation and **implementation of the “good ecological potential”** were done in one working step
- The eco-berms are proven to be **save in terms of dam stability and flood protection**
- Construction **costs are significantly lower** than the traditional approach

#### Social aspects

- All stakeholders support the approach – Win-Win-Situation for all parties involved
- Increased accessibility and quality of the river for recreational activities

#### Climate

- CO<sub>2</sub>-emissions for transport of material and concrete production were reduced

## INADAR: Key Facts

<b>Project location</b>	German Danube Region
<b>Duration</b>	Start: 01/08/2015 End: 31/07/2019
<b>Project partners</b>	Lechwerke Wasserkraft GmbH (Coordinating Beneficiary) University of Innsbruck VGB Powertech e.V.
<b>More information</b>	<a href="http://www.inadar.eu">www.inadar.eu</a>

## 3 TARGET AUDIENCE

The dissemination activities of INADAR had the following target groups:

- Citizens who live in the project region along the Danube and experience the implementation of the eco-berms on site.
- Regional stakeholders, who are relevant for the permission and implementation processes (water authorities, environmental agencies, municipalities, district representatives etc.)
- Stakeholders who are responsible for river sections who could transfer the approach to their region.
- The “water community” including other EU-funded projects, research institutions consultants and public authorities from the regional to the EU-level.

The After-LIFE-Communication-Plan has a focus on the stakeholders and the “water community”, because they are most relevant for dissemination to other regions and countries.

## 4 INADAR COMMUNICATION

### INADAR Website

A website is available in German and English language



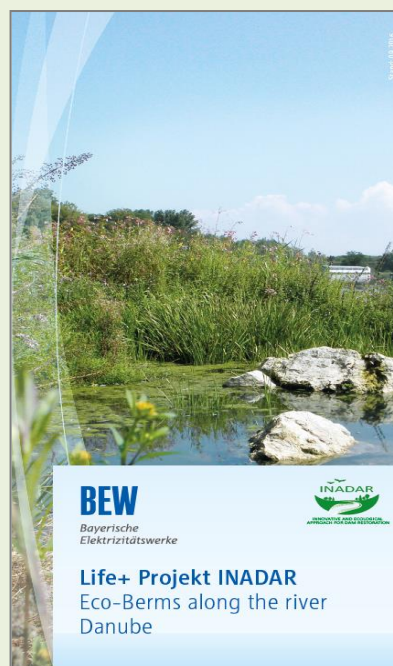
Link: [www.inadar.eu](http://www.inadar.eu)

### Public events

Presentation at the "Donau-Radlspaß" with about 5.000 visitors.



### Leaflets (DE / EN)





## Excursions with stakeholders

e.g. boat excursion with stakeholders at the “Hydropower day” in 2017.



## Info-Boards on site

Info-boards were installed at the project sites



## Press articles

Various articles were published in the regional press



### Artenvielfalt statt toter Donaulandschaft

**Umwelt** Mit der Damm-Sanierung an der Staustufe Oberelchingen hat ein einmaliges EU-weites Pilotprojekt begonnen. Von Thomas Vogel

**D**ie Donau vor dem Donaukraftwerk bei Eichingen hat sich etwas verändert. Seit dem Bau des Kraftwerks vor fast 100 Jahren ist die Landschaft hier fast ausschließlich aus Beton und Stahl. Jetzt wird sie wieder zu einer natürlichen Flusslandschaft. Im Rahmen des Pilotprojekts INADAR wird der Fluss wieder naturnäher gestaltet. Das bedeutet: Die Ufer werden abgetragen, die Bänke und Röhre werden wieder freigelegt. So entstehen neue Lebensräume für viele Arten. Die Donau wird wieder zu einem lebendigen Fluss. Das ist das Ziel des Pilotprojekts INADAR. Es ist ein einmaliges EU-weites Pilotprojekt. Es beginnt mit der Sanierung des Damms an der Staustufe Oberelchingen. Hier wird der Fluss wieder naturnäher gestaltet. Das bedeutet: Die Ufer werden abgetragen, die Bänke und Röhre werden wieder freigelegt. So entstehen neue Lebensräume für viele Arten. Die Donau wird wieder zu einem lebendigen Fluss. Das ist das Ziel des Pilotprojekts INADAR. Es ist ein einmaliges EU-weites Pilotprojekt. Es beginnt mit der Sanierung des Damms an der Staustufe Oberelchingen.

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Additionally, INADAR was presented at 4 national and 6 international conferences. 5 expert articles in scientific papers were published in the frame of these conferences.

## 5 AFTER-LIFE-COMMUNICATION

The project partners continue dissemination activities to actively provide information or answer requests from stakeholders. The following activities are foreseen:

### Dissemination of communication material

The existing communication materials like the leaflet or the Laymen's Report will be distributed at stakeholder meetings or conferences. Digital versions of the material are available via the website.

There are still requests by various stakeholders about the project. They will receive these documents via e-Mail or regular mail.



### Presentation on conferences

The project partners will continue to organise own conferences or to take part in other conferences with a focus on hydropower, river ecology or the implementation of the Water Framework Directive. For example, a paper was edited for the Hydrologic Engineering Conference in Zürich in 2020.



The next conference "Ecology and Hydropower", organized by the LEW, was scheduled for October 2020. Both events were postponed to 2021, due to the COVID-19-crises.

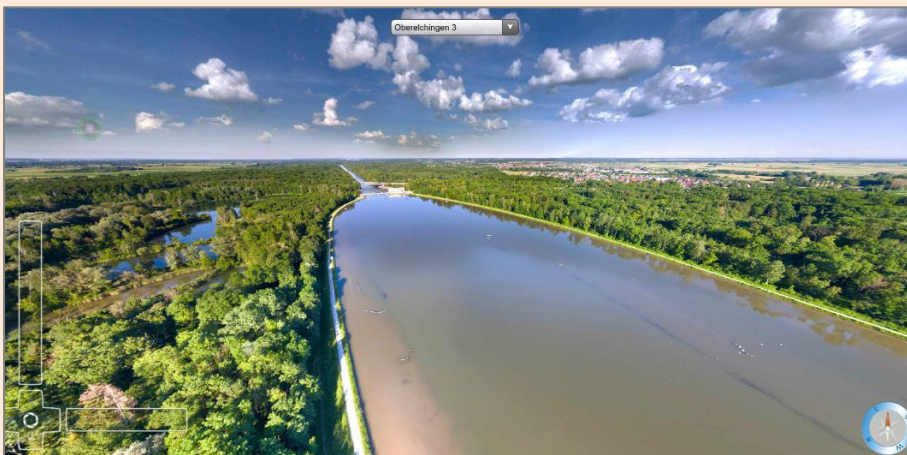
These events offer the opportunity to present the project, distribute dissemination material, exchange experiences and extend the contact network.

## C2M – Close to Market - initiative

The INADAR – project is in contact with the C2M – initiative of the LIFE program. The idea is to develop a “consulting product” to support other stakeholders for the successful construction of eco-berms.

## Maintenance of the project website

The website will be available and technically maintained at least 5 years after the end of the project. Interested persons will be able to find information about the project, download relevant documents and find contact persons.



## Field trips and consulting

Many stakeholders, especially those responsible for dam maintenance and safety, already got in contact with the project partners. They will receive information and consulting for their individual situation.



They also will have the opportunity to go the INADAR sites in the frame of an excursion. For example, the public service providers “Stadtwerke Ulm” and “Stadtwerke München” visited the sites and plan to transfer the approach to their cities.



## Continue the co-operation between partners / stakeholders

The INADAR project was very successful to create and improve regional networks for the development of the river. These networks will be extended and cultivated in the future. The LIFE projects Isobel and CityRiver are the cornerstones of the ongoing cooperation.



The LEW is in contact with the regional water authorities concerning the implementation of the EU Flood Protection Directive. In many cases the eco-berms are the best solution, also from an economic point of view. The aim is to develop standard implementation process, which will also include the participation of the citizens.

On an international level, the VGB is part of the “Technical Group Ecological Aspects of hydropower”. They meet twice a year to discuss strategic aspects of their business, including the 3rd phase of the implementation of the Water Framework Directive. The aim still is, to develop EU-guidelines for an easy permission and implementation of eco-berms.

## 6 RESOURCES FOR THE IMPLEMENTATION OF THE AFTER-LIFE-COMMUNICATION PLAN

The Coordinating Beneficiary will provide the necessary resources for the implementation of the After-LIFE-Communication Plan. The continuation of the website will be financed via the marketing budget of the LEW Wasserkraft GmbH. This will also cover costs for updating and printing the further communication material.

The LEW is very active in different projects, working groups and associations on a regional, national and international level. This will provide the opportunity for further presentations and distribution of materials like leaflets and the Laymen's Report. The co-operation with the partners and stakeholders involved in INADAR is also continued via these platforms.