

# WAMBAF | Water Management in Baltic Forests



*The aim of the WAMBAF and WAMBAF ToolBox projects was to determine the methods and tools of water management in forests, which would influence the quality of water flowing into the Baltic Sea.*

The scope of the projects included issues related to:

- operation and maintenance of drainage equipment,
- the beaver's impact on water quality,
- forest management in the vicinity of surface waters,
- modern tools supporting water management in forests.

Among the main practical results of the projects there are:

- Mobile apps:

- WAMBAF (available on Android and iOS), developed to support the ditch inventorying and ditch management in forests. Application is connected to the GIS system available on: [http://www.wambaf.com/?page\\_id=154&lang=en](http://www.wambaf.com/?page_id=154&lang=en),
- Blue Targeting (available on Android and iOS), a forestry planning tool which helps you design a riparian forest buffer. The aim is to protect water quality and biodiversity by proposing the right measure, at the right place, to the right extent.

- Wet Area Maps – available for Sweden, Poland, Finland and Latvia, based on airborne laser scanning data. Maps illustrate the occurrence of groundwater and may be used in the planning of wood harvesting operations.

- Developing the algorithm for drainage ditches detection basing on airborne laser scanning data. It will be published as open source in 2022.

In the projects several Good Practice Manuals have been developed, regarding: water management in riparian forests, structures for water retention in forests and beaver population management. The manuals are available in several language versions. Main target groups were: forest managers, harvesting machines' operators, land owners, hunters and nature conservation units. The coordinator of the projects was Swedish Forest Agency (Skogsstyrelsen).

## DETALHES

---

ORIGEM DA MADEIRA

--

TIPO DE MADEIRA

--

TIPO DE MADEIRA EM CAUSA

--

IMPACTE NO AMBIENTE E BIODIVERSIDADE

--

IMPACTE NAS RECEITAS

--

POTENCIAL DE EXPLORAÇÃO

--

HUB

Centro-Oriente Hub

IMPACTE ECONOMICO

--

CONHECIMENTOS ESPECIFICOS NECESSÁRIOS

--

POTENCIAL DE MOBILIZAÇÃO

--

SUSTENTABILIDADE POTENCIAL - VALOR

--

FACILIDADE DE IMPLEMENTAÇÃO

--

FACILIDADE DE IMPLEMENTAÇÃO

--

PRE-REQUISITOS CHAVE

--

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

--

IMPACTE NO EMPREGO

--

CUSTOS DE IMPLEMENTAÇÃO (EURO - EUR)

--

## MAIS DETALHES

---

### DESAFIO ABORDADO

1. Melhorar a resiliência e adaptação das florestas às alterações climáticas

### PALAVRAS-CHAVE

water management; riparian forests; beavers; drainage ditches

### PAÍS DE ORIGEM

Finlândia

### DOMÍNIO

Gestão florestal, silvicultura, serviços do ecossistema, resiliencia

### SOLUÇÃO DIGITAL

Sim

### ESCALA DE APLICAÇÃO

Além fronteiras/ multilateral

### TIPO DE SOLUÇÃO

Ferramentas de consultoria e prestação de serviços a proprietários florestais

### INOVAÇÃO

Sim

### ANO DE INÍCIO E FIM

2016 - 2019

## DADOS DE CONTACTO

---

### PROPRIETÁRIO OU AUTOR

Instytut Badawczy Leśnictwa

Mariusz Ciesielski

m.ciesielski@ibles.waw.pl

<https://www.ibles.pl/en/web/guest/home>

### REPÓRTER

Łukasiewicz Research Network - Wood Technology Institute (ITD)

Dobrochna Augustyniak-Wysocka

[dobrochna.augustyniak@itd.lukasiewicz.gov.pl](mailto:dobrochna.augustyniak@itd.lukasiewicz.gov.pl)

## REFERENCES AND RESOURCES

---

### WEBSITE PRINCIPAL

<http://www.wambaf.com/>

### WEBSITE DO PROJETO

<http://www.wambaf.com/>

### REFERÊNCIA AO PROJETO

Water Management in Baltic Forests, projekt co-financed by European regional

### RECURSOS

**Good practices for management of beavers and beaver ponds in the Baltic Sea Region**

**Manual for constructing water protection structures at ditch network maintenance sites and for water retention in forests**





WAMBAF Tool Box

PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

20 Dez 2021



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

