

# 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).

## DETAILS

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### ORIGIN OF WOOD

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### TYPE OF WOOD

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### KIND OF WOOD CONCERNED

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### IMPACT ON ENVIRONMENT & BIODIVERSITY

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### INCOME EFFECT

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### EXPLOITATION POTENTIAL

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### HUB

Central-East Hub

### ECONOMIC IMPACT

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### SPECIFIC KNOWLEDGE NEEDED

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### MOBILIZATION POTENTIAL

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### SUSTAINABILITY POTENTIAL - VALUE

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### EASE OF IMPLEMENTATION

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### EASE OF IMPLEMENTATION - EVALUATION

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### KEY PREREQUISITES

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### TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

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### JOB EFFECT

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### COSTS OF IMPLEMENTATION ( EURO - € )

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## MORE DETAILS

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### CHALLENGE ADDRESSED

1.- Improve forest resilience and adaption to climate change

### DOMAIN

Forest management, ecosystem, resilience

### TYPE OF SOLUTION

Advice and services for forest owners

### KEYWORDS

water management; riparian forests; beavers; drainage ditches

### DIGITAL SOLUTION

Yes

### INNOVATION

Yes

### COUNTRY OF ORIGIN

Finland

### SCALE OF APPLICATION

Cross-border/multi-lateral (several countries)

### START AND END YEAR

2016 - 2019

## CONTACT DATA

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### OWNER OR AUTHOR

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## REFERENCES AND RESOURCES

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### MAIN WEBSITE

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

### RESOURCES

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

### PROJECT WEBSITE

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

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

### PROJECT REFERENCE

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



LOGO OF BEST PRACTICE

LOGO OF MAIN ORGANIZATION



PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

20 Dec 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

