



HRVATSKI ŠUMARSKI INSTITUT
CROATIAN FOREST RESEARCH INSTITUTE



PES schemes and research in Croatia

Workshops, WG and MC meetings, Opatija 17th -19th October 2017.

Geographical position and regions in Croatia



- different geo-climatic conditions



- great diversity of forests
- social and economic importance

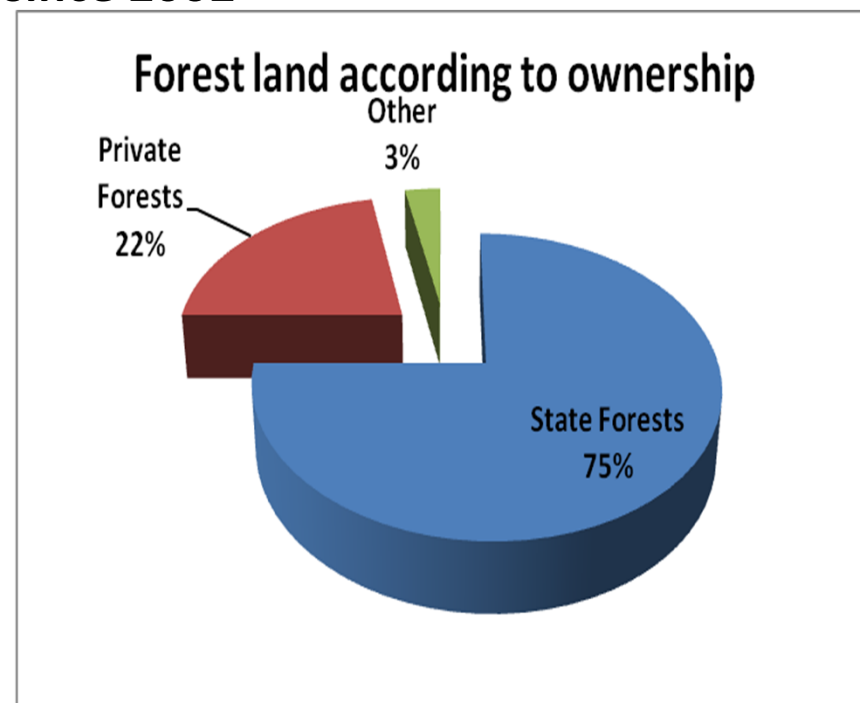
Overview of forests in Croatia

- 47% of land is covered with forests (2,5 mil ha)
- 43% forests are on karst
- 95% of close-to-nature managed forests
- SFM main principle
- tradition long 250 years
- FSC certificate for all state forests since 2002

- Croatia is rich with forests and waters both are natural resources of high importance and are under State protection.

- State owned forest are managed by one state owned company Hrvatske šume ltd.

- Waters are under jurisdiction of state owned public company Hrvatske vode public co.



PES (Forests) in Croatia

State established public payments to support management and protection of both resources (1990).

It means that by Forest law all companies and business in Croatia has to pay 0.025 % of their income to Fund for forest functions of general benefits (FFGB).

The forest functions of general benefits are defined by Forest law Article 3,(2) and water protection and purification function of forests are one from the list:

(2) The forest functions of general benefit are:

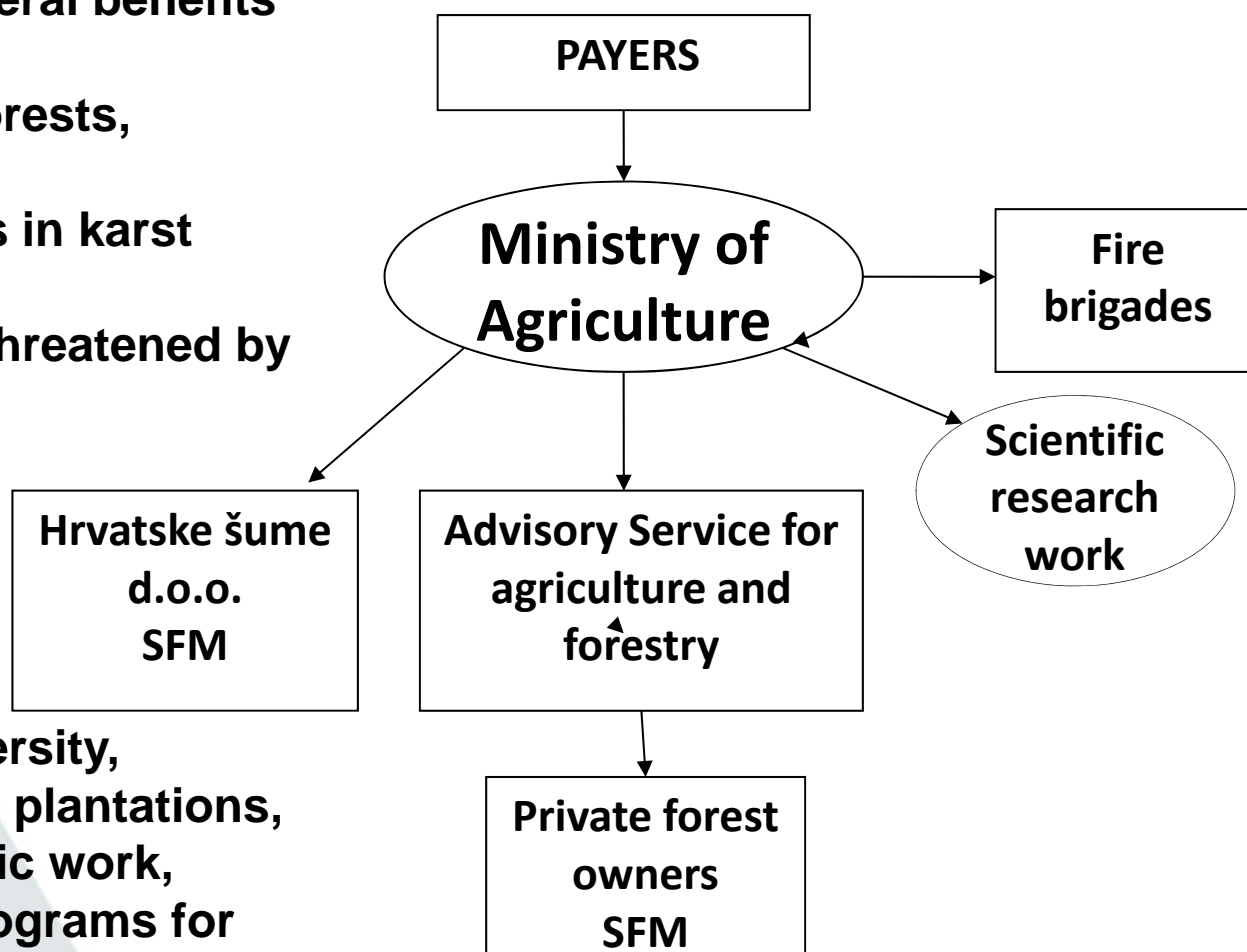
- protection of soil from erosion by water and wind,**
- balancing water ratios in the landscape and preventing floods and high water waves,**
- purification of water through percolation into forest soil and the supply of underground streams and water sources with drinking water,**

PES (Forests) distribution



According to the Forest Law, the fund for forest services of general benefits could be used for:

- financing renewal of forests,
- forest protection,
- management of forests in karst areas,
- restoration of forests threatened by dieback and diseases,
- forest fires fighting,
- forest roads' building,
- mine sweeping,
- protection of gene diversity, establishment of clone plantations,
- forestry-based scientific work,
- forest management programs for private forest owners [2005, article 64].



PES (Waters)

From the other side there are payments for water provision and water management.

Development of ecological economic instruments took place primarily in the framework of management of natural resources (waters, forests), and then environmental protection.

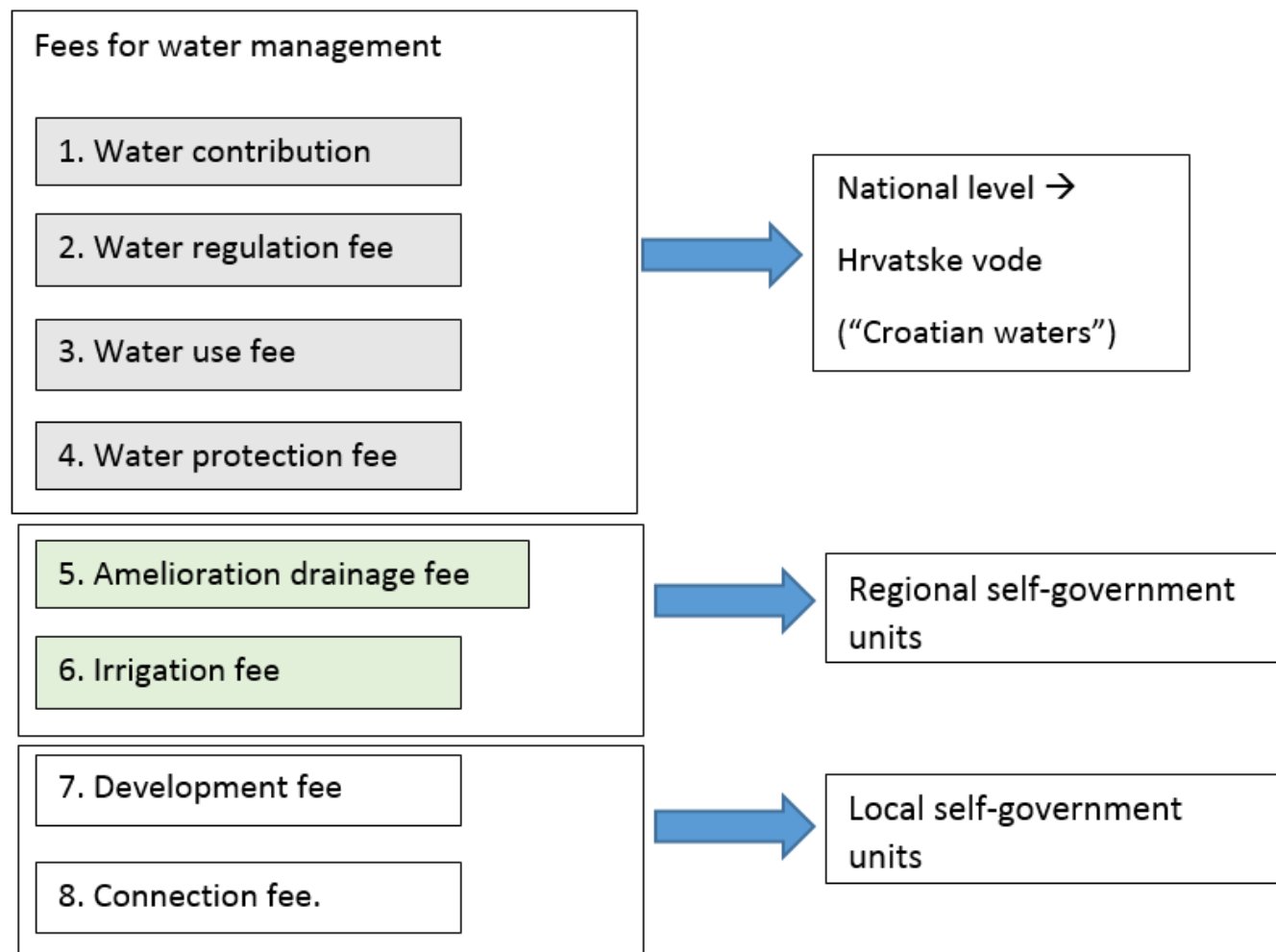
Financing of water management in Croatia is regulated by the Water Act and funds are based on: a) water fees, b) price of the water service, c) state budget, d) the budgets of units of local and/or regional self-government, and other sources.

The water fees are: 1. Water contribution, 2. Water regulation fee, 3. Water use fee, 4. Water protection fee, 5. Amelioration drainage fee, 6. Irrigation fee, 7. Development fee, and 8. Connection fee.

PES (Waters) distribution

They differ between the purpose for which they are intended, their permanence, the height and the baseline for the calculation.

The contribution fee is one-time payment, while others are collected continuously.



PES Research in Croatia

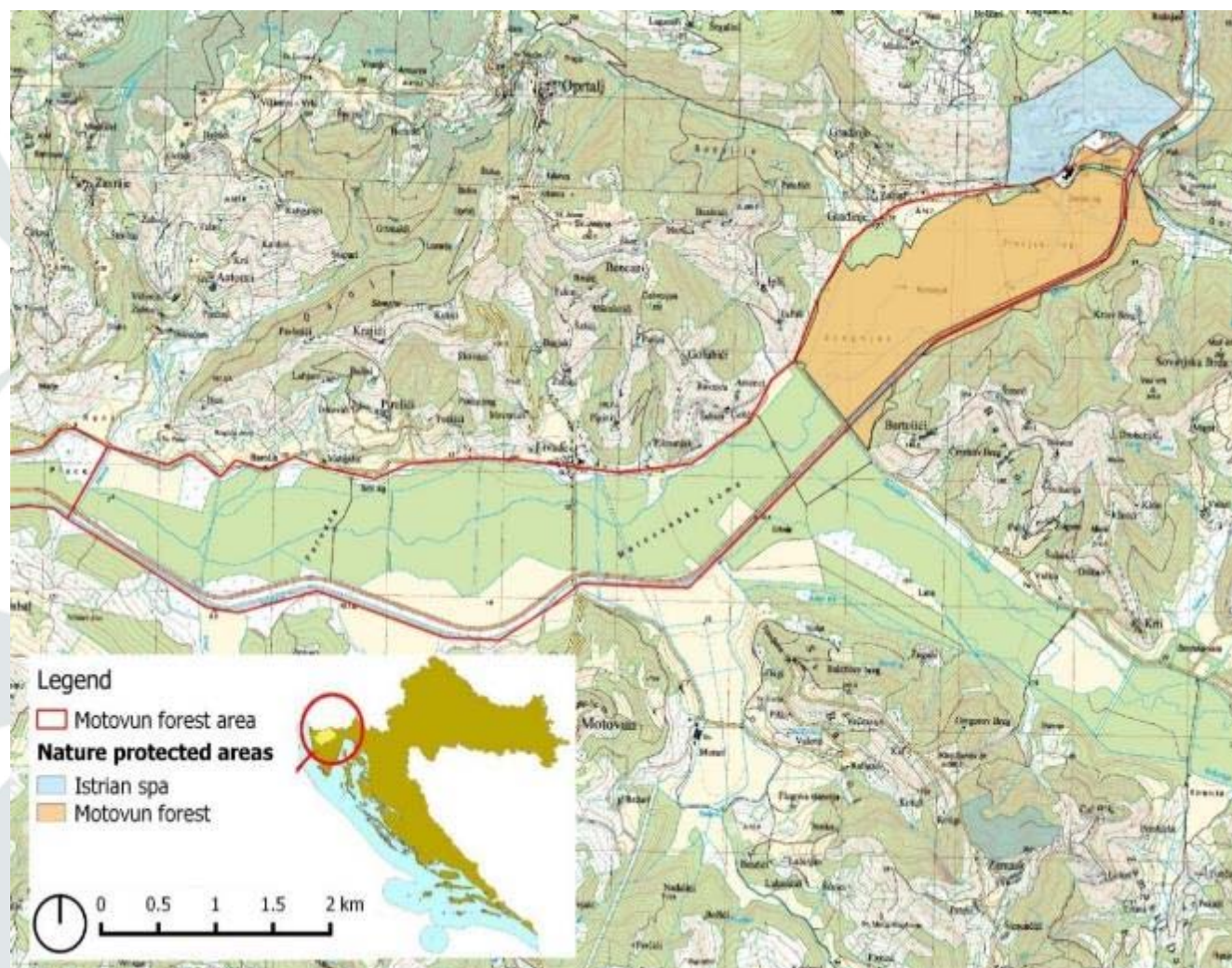
**Croatian Forest Research Institute
University of Zagreb, Forestry Faculty**

OIKON – private institute for applied ecology

- **Project of evaluation of Forest Services of General Benefits**
- **Medforex – TEV**
- **Several smaller national projects dealing with some services**
- **AFORENSA – ongoing**
- **...**

Field trip

SPECIAL RESERVE OF FOREST VEGETATION "MOTOVUN FORESTS" as water protection area and Mirna River Basin as source of fresh water





Workshops, WG and MC meetings, Opatija 17th -19th October 2017.

THANK YOU!

Workshops, WG and MC meetings, Opatija 17th -19 th October 2017.