

CROATIAN FOREST RESEARCH INSTITUTE

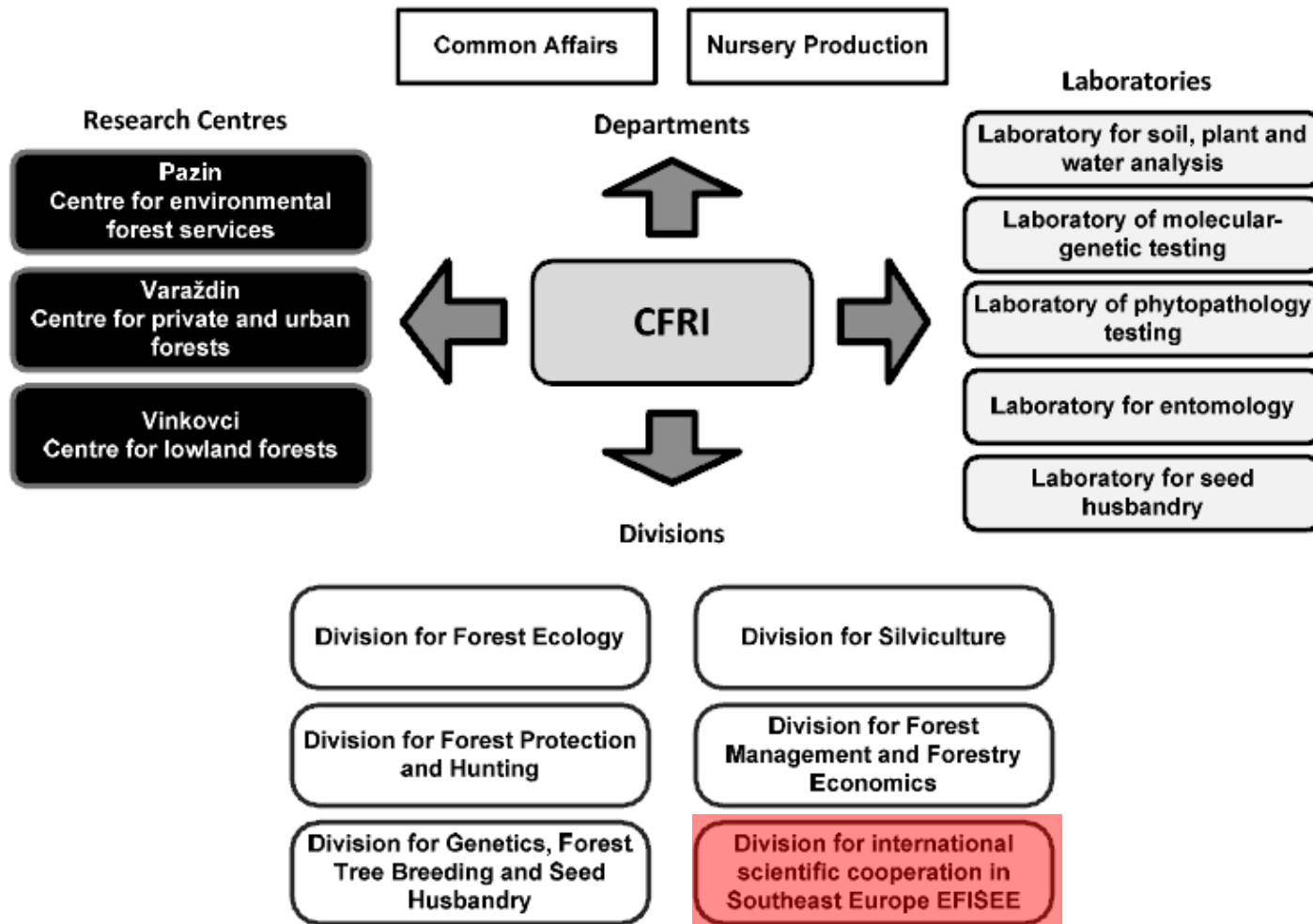
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CFRI Organization chart



PRIORITY RESEARCH AREAS

- Biotechnical scientific research in forestry
- Cooperation with other scientific and university institutions and sectoral stakeholders
- Sustainable management promotion and protection of forest resources
- National and international scientific programs implementation



OBJECTIVES

- Affirming CFRI's position in forestry research on national and international level
- Implementation of the top-quality scientific research, focus on excellence
- Ensuring the flow of know-how into economy
- Raising awareness on the role of forests

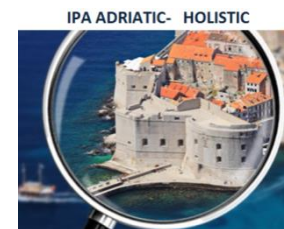


Main current and past projects

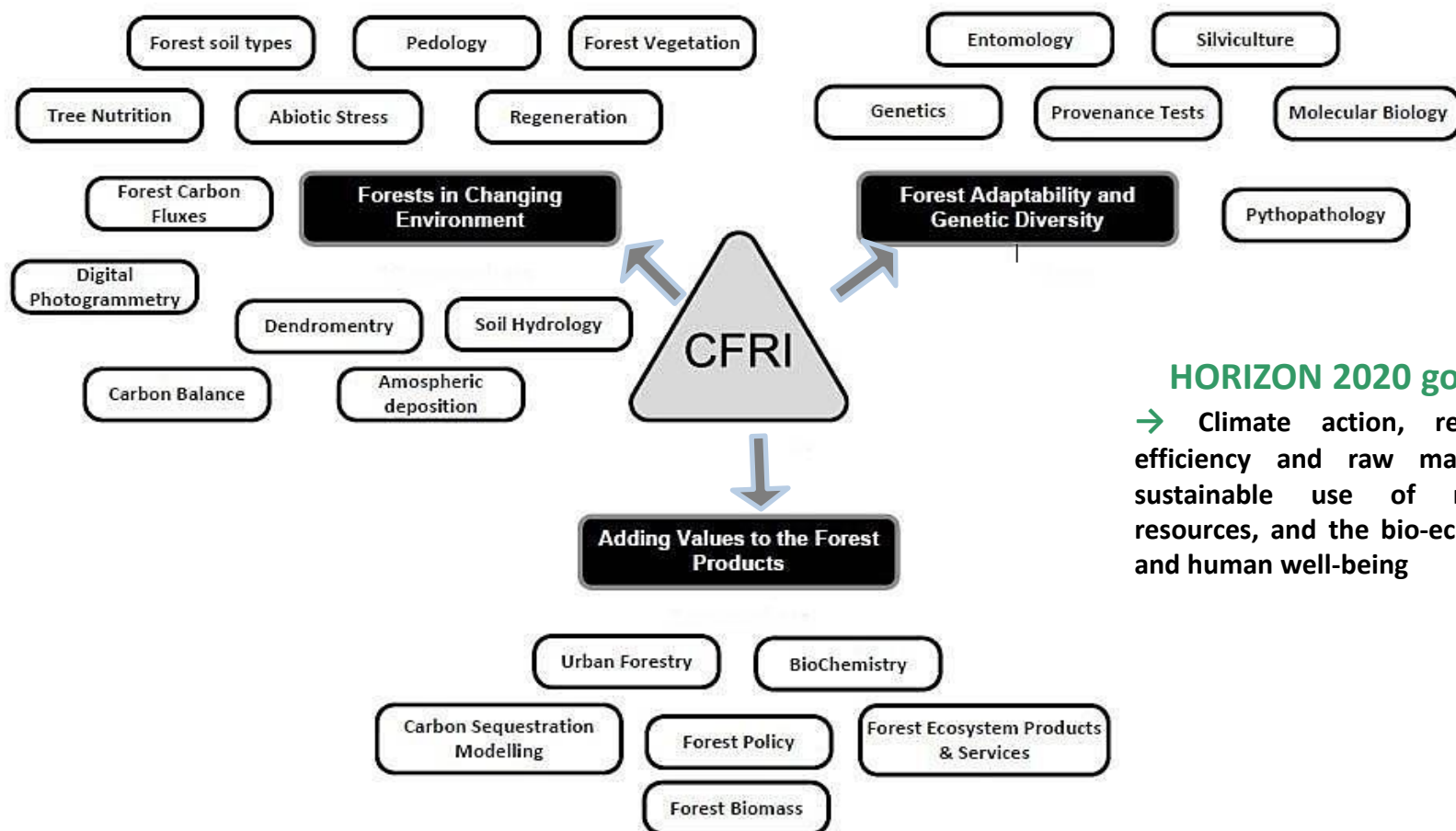
- **IPA Adriatic Holistic Wildfire Protection - HOLISTIC**
(2013-2016; 19 partners, 8 countries)
- **IPA Adriatic Model Forest – AMF** (2012-2014; 10 partners, 7 countries)
- **FOPER -Forest Policy And Economics Education And Research -**
led by European Forest Institute (2004-2013; 11 partners, 6 countries)
- **FORCITY- Citizens and urban forest governance in SEE collaborative regional**
research project within FOPER) (2012-2013; 10 partners, 7 countries)
- **FP7 RoK-FOR - Sustainable forest management providing renewable energy, sustainable**
construction and bio-based products (2010-2013; 20 partners , 5 countries)
- **INTERREG IIIB CADSES Carbon-Pro - Balance drafting and new resources management**
tools according to Kyoto PROtocol (2006-2008; 9 partners, 7 countries)

VARIOUS NATIONAL PROGRAMMES:

- diagnostic and prognostic service in forestry and UNECE-ICP Forests
for Ministry of Agriculture, Sector for Forestry;
- 5 for Ministry of Science;
- 26 projects for Croatian Forests Ltd.



Future perspectives in the forest research domain



HORIZON 2020 goals

→ Climate action, resource efficiency and raw materials, sustainable use of natural resources, and the bio-economy and human well-being



Available infrastructures in Mediterranean

Experimental sites along East Adriatic coast



- ★ *Pula, Istria*-**Holm oak**; stand structure, growth and development of young crops
- *Island Cres, Kvarner*- **Holm oak**; genetics, entomology, pathology, defoliation by insects, drought, fire
- ★ *Pazin, Istria*- **Black Pine**; provenance variability, response to climate change
- ▲ *Krka, North Dalmatia*- **Allepo pine, Black pine, Maritime pine, Sessile oak**; forest pathology, entomology, stand structure, growth and development of young crop
- *UNECE-ICP Forests network*- Level 1 (37) and Level 2 (*Poreč*-**Sessile oak**) plots- various Mediterranean and submediterranean forest ecosystems,, vitality assesement, crown condition and defoliation, atmospheric pollution, drought, insects &fungi



Available infrastructures

FACILITIES :

- Laboratory for seed testing
- Laboratory for physically-chemical analysis
- Laboratory for molecular-genetics analysis
- Laboratory for entomological analysis
- Laboratory for phytopathology analysis
- **Forest seed bank**- for long term storage of ortodox seed of Croatia
- **Seed saving bank**- for short-term storage of recalcitrant seed of Croatia (oak, ashes, castanea, ...)

**List of experimental sites, data bases, facilities and equipment
available on Foresterra webpage**





Istria



Krka

- Infrastructure: available to other scientific and educational institutions, mainly through joint research projects
- Policy: mutual consent/agreement
- Experience: different multinational and bilateral projects



Poreč

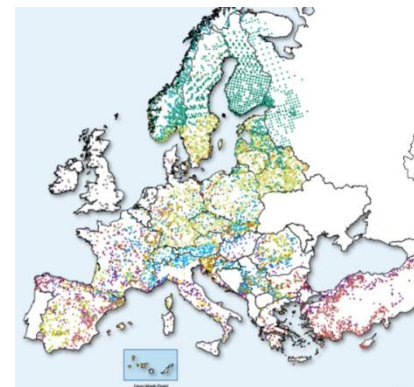


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EUROPEAN AND INTERNATIONAL NETWORK

UNECE-ICP Forests network (41 countries)

the International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests operating under the UNECE Convention on Long-range Transboundary Air Pollution; CFRI is the National Focal Centre



Level 1 plots classified according to forest type

EUFORGEN (31 countries)

Forest Genetic Resources Programme - promoting conservation of genetic diversity among conifers to ensure evolutionary adaptability under changing climatic conditions

ERA-NET FORESTERRA (2012-2015)- FP7, the scheme to reinforce the scientific coordination and integration of Mediterranean programmes in forest research

COST - European frameworks supporting cooperation among scientists and researchers across Europe (13 projects in 2 domains- (1) Earth System Science and Environmental Management and (2) Forests, their Products and Services)

IUFRO- The World's Network of Forest Science

MEDITERRANEAN MODEL FOREST NETWORK and **EUFGIS** - ended



Collaboration with institutions

EFISEE - Regional office, the unit of the European Forest Institute which focuses its activities in South-East Europe (9 forest research and education partner institutions)

COUNTRY	INSTITUTION	PROJECT/PUBLICATION
EFI	an international organisation, established by 25 European States	EFISEE
Austria	BOKU, Vienna EFICEEC	Bilateral projects
Albania	Forest and Pasture Research Institute, Tirana Agricultural University, Faculty of Forestry, Tirana Faculty of Economy and Agribusiness, Tirana	IPA Adriatic „AMF“ IPA Adriatic Holistic FOPER project FORCITY
Bosnia and Herzegovina	Faculty of Forestry, Sarajevo, Faculty of Forestry, University of Banja Luka	IPA Adriatic „AMF“ FOPER project FORCITY SEEFOR
Croatia	Faculty of Forestry, University of Zagreb Croatian Forests Ltd. Institute for Adriatic crops and Karst Reclamation, Split Institute of Agriculture and Turisam, Poreč Ministry of science Ministry of Agriculture (Forest sector) Ministry of Environmental and Nature Protection	Various programmes
Finnland	Finnish Forest Research Institute METLA University of Eastern Finland	LIFE + ForBioDiv ROK-FOR
France	Atlantic European Regional office of EFI Campus Bordeaux , Agro Science	ROK-FOR
Germany	Albert-Ludwigs-Universitaet Freiburg Landesforstverwaltung Baden-Württemberg, Stuttgart	ROK-FOR bilateral project
Greece	Region of Epirus – Regional Unit of Thesprotia	IPA Adriatic „AMF“ IPA Adriatic Holistic



Collaboration with institutions

COUNTRY	INSTITUTION	PROJECT/PUBLICATION/REGIONAL OFFICE
Hungary	Hungarian Forest Research Institute ERTI Hungarian Meteorological Service	SEEFOR Carbon Pro
Italy	Italian National Institute of Ecosystem study (CNR ISE) University of Padua (Departament for Agroforestry) University of Udine Regions on the West Adriatic coast	IPA Adriatic „AMF“ IPA Adriatic Holistic LIFE + AdriaFireFor ROK-FOR Carbon Pro
Macedonia	Ss. Cyril and Methodius University in Skopje	FOPER project FORCITY SEEFOR
Montenegro	Biotechnical Faculty, Univeristy of Montenegro, Podgorica	IPA Adriatic „AMF“ IPA Adriatic Holistic FORCITY
Serbia	Faculty of Forestry, University of Belgrade Institute of Forestry, Belgrade Institute of Lowland Forestry and Environment Novi Sad	IPA Adriatic „AMF“ FOPER project FORCITY SEEFOR
Slovenia	Slovenian Forestry Institute, Ljubljana University of Ljubljana	FORCITY IPA Adriatic Holistic LIFE + AdriaFireFor Carbon Pro
Spain	Forest Sciences Centre of Catalonia	ROK-FOR

IPA Adriatic Holistic - Wildfire Protection

IPA Adriatic „AMF“ – Adriatic Model forest

FOPER project – Forest Policy and Economics Education and Research

FORCITY- Citizens and urban forest governance in SEE: Case studies in selected cities

ROK-FOR- Sustainable forest management, renewable energy, sustainable construction and bio-based products

SEEFOR- International Scientific Journal In Field Of Forestry

LIFE+ - programme for supporting environmental and nature conservation projects throughout the EU

Networking Workshop. Marseille, France, 12-13 December 2013



Transnational collaboration

Interests in creating Transnational Joint Research Units

- Strengthening of the correlation and interdisciplinary cooperation between the scientific institutes
- Increase of the number of national and international competitive projects
- Encouragement of innovative activities
- Improvement of the funding for the scientific-research activity
- Improvement of knowledge through common research
- Increase of the funding resources through competitive and structural funds of the EU

Positive outputs expected from this type of collaboration

- Intensive association with the European and Mediterranean Scientific Networks
- Further integration into the European Research Area
- Assuring intensive specialization and adopting new methods and procedures for all researchers
- Encouragement of mobility (outward and inward)
- The possibility of acquiring new equipment for the development of facilities





THANK YOU !

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