

WG3 - Mainstreaming genetic diversity into sustainable forest management in the context of global change, considering both conservation and use of FGR.

Coordinator: Bruno Fady (FR)

Co-coordinator: Philippos Aravanopoulos (GR)

Participants (averaged): 30

Deliverables assigned to WG3

<p>Database of forest genetic resources for conservation and for use (genetic conservation units, basic material, genetic trials)(D4);</p>	<p>WG1, WG2, WG3 – Achieved. Collected and Inserted data and on this way</p> <p>WG3 produced also a <u>new expert-based database</u> for listing marginal populations in Europe. As a complement to activities of WG1 and WG2:</p> <p>http://map-fgr.entecra.it/wp-content/uploads/2013/07/WG3_DB.pdf</p> <p>This database will be passed in the system Euforgen/Eufgis as agreed during the MC in Arezzo, on September 2016.</p>
<p>List of most endangered/diverse species and populations and those key for the future of the EU forest sector under global change (D8);</p>	<p>WG2, WG3, WG1 – Deliverable achieved for the following species:<i>Abies alba, Fagus sylvatica, Picea abies, Pinus brutia, Pinus halepensis, Pinus nigra, Pinus sylvestris, Pinus pinea, Pinus pinaster, Quercus petraea, Quercus robur, Fraxinus excelsior.</i></p> <p>WG3 - Prepared a STSM report in the framework of WG3: by B. Fady and Nadine Wazen titled "<i>Geographic distribution of 24 major tree species in the Mediterranean and their genetic resources.</i>"</p> <p>http://map-fgr.entecra.it/wp-content/uploads/2013/07/STSM_final-report_Nadine-Wazen.pdf</p> <p>http://map-fgr.entecra.it/wp-content/uploads/2013/07/FAO_Wazen-Fady_24maps-report2.pdf</p>
<p>Identification of most relevant species (D8.1)</p>	<p>WG2, WG1, Wg3, WG4</p> <p>A list of relevant species was established.</p> <p>Species of interest for adaptive genetic variation: <i>Fagus sylvatica, Abies sp., Picea abies, Pinus halepensis/brutia, Pinus pinea, Pinus nigra</i></p> <p>Species of interest for neutral markers: <i>Fagus sylvatica, Fraxinus excelsior, Picea abies, Abies sp., Quercus robur, Pinus nigra, Pinus halepensis/brutia, Quercus petraea.</i></p>
<p>Guidelines for mainstreaming genetic diversity into sustainable forest management in the context of global change in Europe (including legal transfer issues) (D9).</p>	<p>WG3, WG1, WG2, WG4 –The very intense collaboration and interaction among WGs produced the significant Opinion paper, specifically addressed for the first time on the marginality topic on Forest tree species:</p> <p>Fady B., Aravanopoulos F. A., Alizoti P., Mátyás C., von Wühlisch G., Westergren M., Belletti P., Cvjetkovic B., Ducci F., Huber G., Kelleher C. T., Khaldi A., Dagher Kharrat M. B., Kraigher H., Kramer K., Mühlethaler U., Peric S., Perry A., Rousi M., Sbay H., Stojnic S., Tijardovic M., Tsvetkov I, Varela M. C., Vendramin G. G., Zlatanov T. <i>Evolution-based approach needed for the conservation and silviculture of peripheral forest tree populations.</i> Forest Ecology and Management 375 (2016) 66–75 DOI 0.1016/j.foreco.2016 .</p> <p>Links: http://ibbr.cnr.it/ibbr/publications/?a=51#&ui-state=dialog</p> <p>http://map-fgr.entecra.it/?page_id=386 [in the Restricted area] In the</p>

	framework of FAD Cost Funding it is forecasted the item regarding the Open access purchasing of the paper.
--	-------------------------------------------------------------------------------------------------------------------

New Projects

Based on the efforts and new concepts elaborated in the framework of the Actyion, WG3 in the person of the Leader Bruno Fady (FR) presented and have seen approved the European Ho2020 Project GenTree:

<http://www.gentree-h2020.eu/about/other-relevant-initiatives/>

The goal of GenTree is to provide the European forestry sector with better knowledge, methods and tools for optimising the management and sustainable use of forest genetic resources (FGR) in Europe in the context of climate change and continuously evolving demands for forest products and services.

To reach its goal, GenTree will make scientific, technological and implementation breakthroughs in:

- designing innovative strategies for dynamic conservation of FGR in European forests
- broadening the range of FGR used by European breeding programmes
- preparing new forest management scenarios and policy frameworks fully integrating genetic conservation and breeding aspects, to adapt forests and forestry to changing environmental conditions and societal demands.

GenTree focuses on economically and ecologically important tree species in Europe, growing in a wide range of habitats and covering different societal uses and values.

Quick info

Full project title: Optimizing the management and sustainable use of forest genetic resources in Europe

Duration: 1st March 2016 – 28 February 2020

Budget: 8 Million Euro (co-funded by the European Union's Horizon 2020 research and innovation programme)

Partners: GenTree brings together 22 public and private research organizations and enterprises, contributing a wide variety of skills, expertise and long-standing experience in the area of forest genetic resources.