Objective

The UN General Assembly has proclaimed 2011 as the International Year of Forests, since they play a crucial role in regulating the global climate and are also a vital resource for many countries. By the European side, the Commission Green Paper “On forest protection and information in the EU: preparing forests for climate change” [COM(2010)66] underlines that forests serve multiple and interrelated social, economic and environmental functions, often at the same time and place; forests are one of the main natural resources in the world.

Zephyr aims to introduce an innovative technology build on pre-cultivation of forest regeneration materials in a zero-impact and cost friendly production unit, not affected by outdoor climate and with LED lights providing an optimal spectrum for the photosynthesis. Light intensity, photo-period and further parameters will be automatically regulated by a control system that receives data from several sensors, while the energy will be provided by solar panels.
The project will integrate these technologies into a functional system for large scale production of pre-cultivated forest regeneration materials adapted to transplanting and further growth at forest nurseries all over Europe. The new integrated technology will make a drastic change to state-of-the-art in forest nursery production for reforestation purposes: apart from being more resource-efficient, it will also contribute to the environmental protection through: biodiversity defending, water recycling, strong reduction of fertilizers and avoidance of pesticides. Moreover, it will allow a CERTIFIED and STANDARDISED production of reforestation materials, with a noticeable increasing of the efficiency of the reforestation operations. Zephyr will focus on the interplay between several different innovative technologies, models and procedures. The exploitation of the results will strongly improve the competitiveness of the participating SMEs.

Field of science

/natural sciences/biological sciences/botany

Programme(s)

Topic(s)

Call for proposal

FP7-ENV-2012-two-stage

Funding Scheme

CP - Collaborative project (generic)

Coordinator

UNIVERSITA DEGLI STUDI DELLA TUSCIA

<table>
<thead>
<tr>
<th>Address</th>
<th>Activity type</th>
<th>EU contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Via S Maria In Gradi 4, 01100 Viterbo, Italy</td>
<td>Higher or Secondary Education Establishments</td>
<td>€ 450 500</td>
</tr>
</tbody>
</table>

Website Contact the organisation
## Participants (13)

### DIMOKRITIO PANEPISTIMIO THRAKIS

- **Greece**
- **EU contribution**: € 220 000
- **Address**: Panepistimioupoli Rectorate Building 69100 Komotini
- **Activity type**: Higher or Secondary Education Establishments

### CO.MET.ART. SAS DI MENTA ADRIANO, MENTA STEFANO & C.

- **Italy**
- **EU contribution**: € 163 150
- **Address**: Via Lazzaro Belli Snc 00044 Frascati
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)

### VALOYA OY

- **Finland**
- **EU contribution**: € 296 800
- **Address**: Lauttasaarentie 54 00200 Helsinki
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
ROBOSOFT Services Robots
FRANCE
EU contribution
€ 256 000
Address
45 Allée Théodore Monod - Technopole Izarbel
64210 Bidart
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
Administrative Contact
Lars Aikala (Mr.)

VIVAI TORSANLORENZO SOCIETA AGRICOLA SEMPLICE DI MARGHERITI MARIO EC
ITALY
EU contribution
€ 149 300
Address
Via Campo Di Carne 51
00040 Tor San Lorenzo Ardea Rm
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
Administrative Contact
Aubert Carrel (Mr.)

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
GERMANY
EU contribution
€ 268 094
Address
Hansastrasse 27C
80686 Munchen
Activity type
Research Organisations
RISE ACREO AB
Sweden
EU contribution
€ 312 320

Address
Box 1070
164 25 Kista

Activity type
Other

Website
Contact the organisation

Administrative Contact
Christoph Schulte (Mr.)

HOGSKOLAN DALARNA
Sweden
EU contribution
€ 317 600

Address
791 88 Falun

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

Administrative Contact
Cristina Rusu (Prof.)

VELTHA IVZW
Belgium
EU contribution
€ 242 472

Address
Hofkensstraat 3
3080 Tervuren

Activity type
Research Organisations

Website
Contact the organisation

Administrative Contact
Silvia Giannisi (Mrs.)
UNIVERSITÀ DEGLI STUDI DELL'INSUBRIA

Italy
EU contribution
€ 191 200

Address
Via Ravasi 2
21100 Varese

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

Administrative Contact
Donato Chiatante (Prof.)

ADVANTIC SISTEMAS Y SERVICIOS SL

Spain
EU contribution
€ 247 600

Address
C Zurbano 83 Escalera Izquierda 3A
28003 Madrid

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Jose De Las Heras (Mr.)

SOCIEDADE DE GESTAO AMBIENTAL E CONSERVACAO DA NATUREZA - AZORINA SA

Portugal
EU contribution
€ 184 800

Address
Rua De Sao Lourenco 23
9900 401 Horta Ilha Do Falal

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Administrative Contact
Josè Simas (Mr.)

EXERGY LTD

United Kingdom
EU contribution
€ 138 416

Address
Puma Way The Technocentre
Coventry University
Technology Park
CV1 2TT Coventry

Website

Administrative Contact
Alberto Gomez (Dr.)

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

Last update: 8 July 2016
Record number: 105177

Permalink: https://cordis.europa.eu/project/id/308313/

© European Union, 2020