

Southwest Anatolia Forest Research Institute (*SAFRI*)

Neşat Erkan
(Director)

nesaterkan@yahoo.com

Mehmet Çalikoğlu
(Deputy Director)

calikoglumehmet@hotmail.com

SAFRI

**Ministry of Forest and
Water Affairs**

**5 General Directorates
(General Directorate of Forestry)**

**17 Departments
(Foreign Relations, Training and Research Department)**

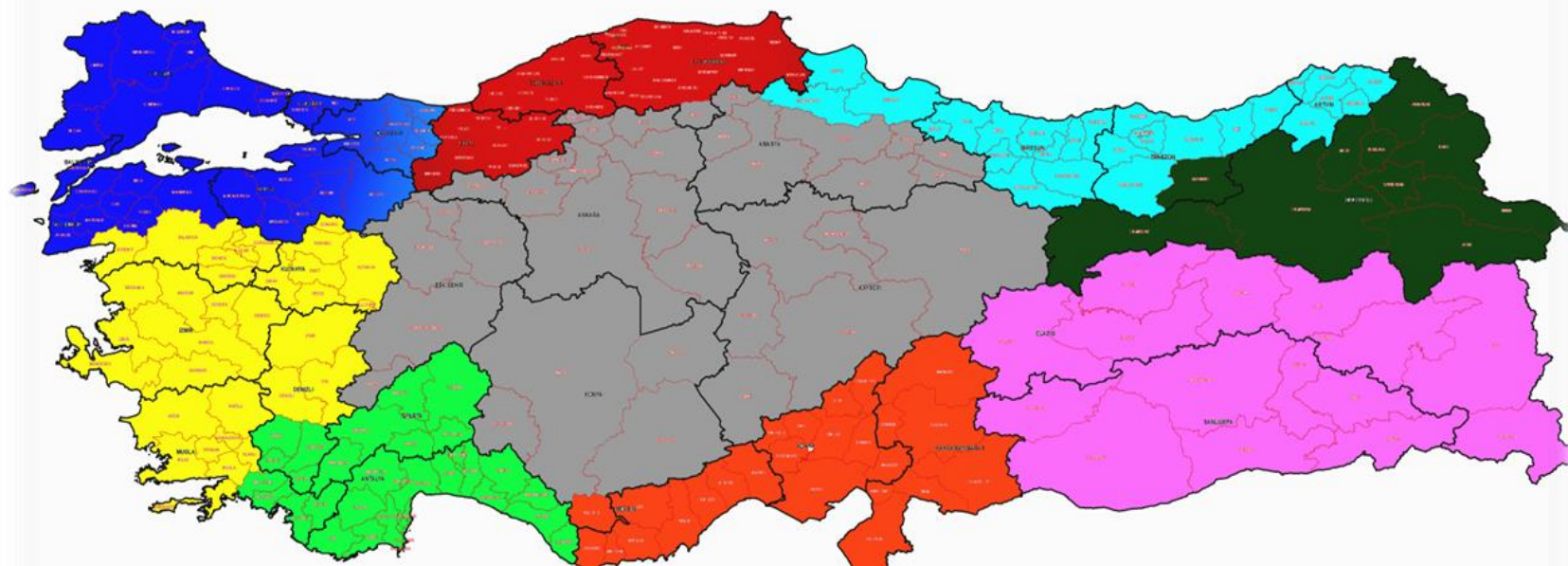
**27 Regional
Directorates**

**12 Research
Institutes**

Center (ANKARA)

Country

SAFRI



- | | |
|--|---|
| ■ Central Anatolia Forestry Research Institute | ■ Poplar and Fast Growing Forest Trees Research Institute |
| ■ Eastern Black Sea Region Forestry Research Institute | ■ Forest Tree Seeds and Tree Breeding Research Institute |
| ■ Western Black Sea Region Forestry Research Institute | ■ Forest Soil and Ecology Research Institute |
| ■ Ege Forestry Research Institute | |
| ■ Southwest Anatolia Forestry Research Institute | |
| ■ Eastern Mediterranean Forestry Research Institute | |
| ■ Eastern Anatolia Forestry Research Institute | |
| ■ South Eastern Anatolia Forestry Research Institute | |

SAFRI

- ✓ Established in 1958 in Antalya to solve the GDF's problems and working at regional level
- ✓ Responsible for the south-western part of Turkey
- ✓ Main tree species are *Pinus brutia*, *Cedrus libani*, *Juniperus L.*, *Pinus nigra*, *Abies cilicica*

SAFRI

Director
Deputy Director

Divisions

1. Tree Breeding

2. Silviculture

3. Forest Management and Yield

4. Forest Protection

5. Forest Business and Economics

6. Forest Ecology and Soil

7. Forest Products (Wood and Non-Wood)

8. Social Forestry

9. Forest Fires

Research Forests

Bük Lütfi Büyükyıldırım Research F.

Elmalı Çamkuyuları Cedar Research F.

1) Researcher : 28

PhD. (9)

M.Sc. (12)

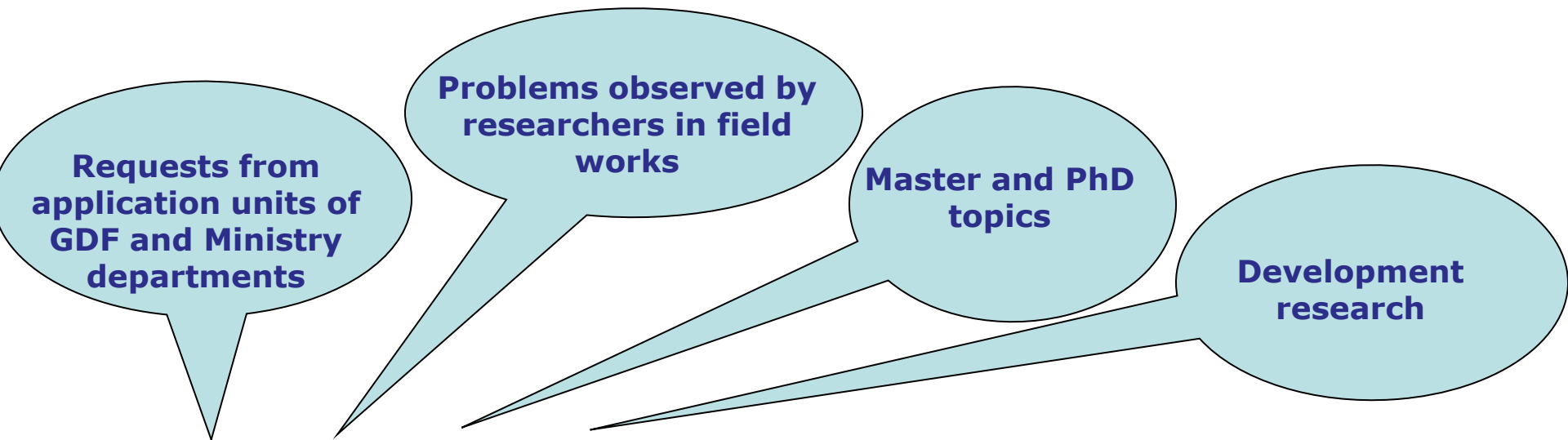
License (7)

2) Other(workers and official) : 18

TOTAL : 46

SAFRI

WORKING SYSTEM



How are the research project topics determined in the
Institute?

(during the year)

How a research topic become a research project?

Topic for research

PARTICIPANTS

**Pre-evaluation
meeting**

All the researchers of Institute

**Technical Committee
(in November)**

**Researchers, regional application units of the GDF,
universities, private sectors (Regional level)**

**Working Groups
(in January)**

**All the researchers from Institutes, representatives from
application units of the related departments of the GDF,
universities, private sectors (Country level)**

**Approval of project
(in January)**

GDF

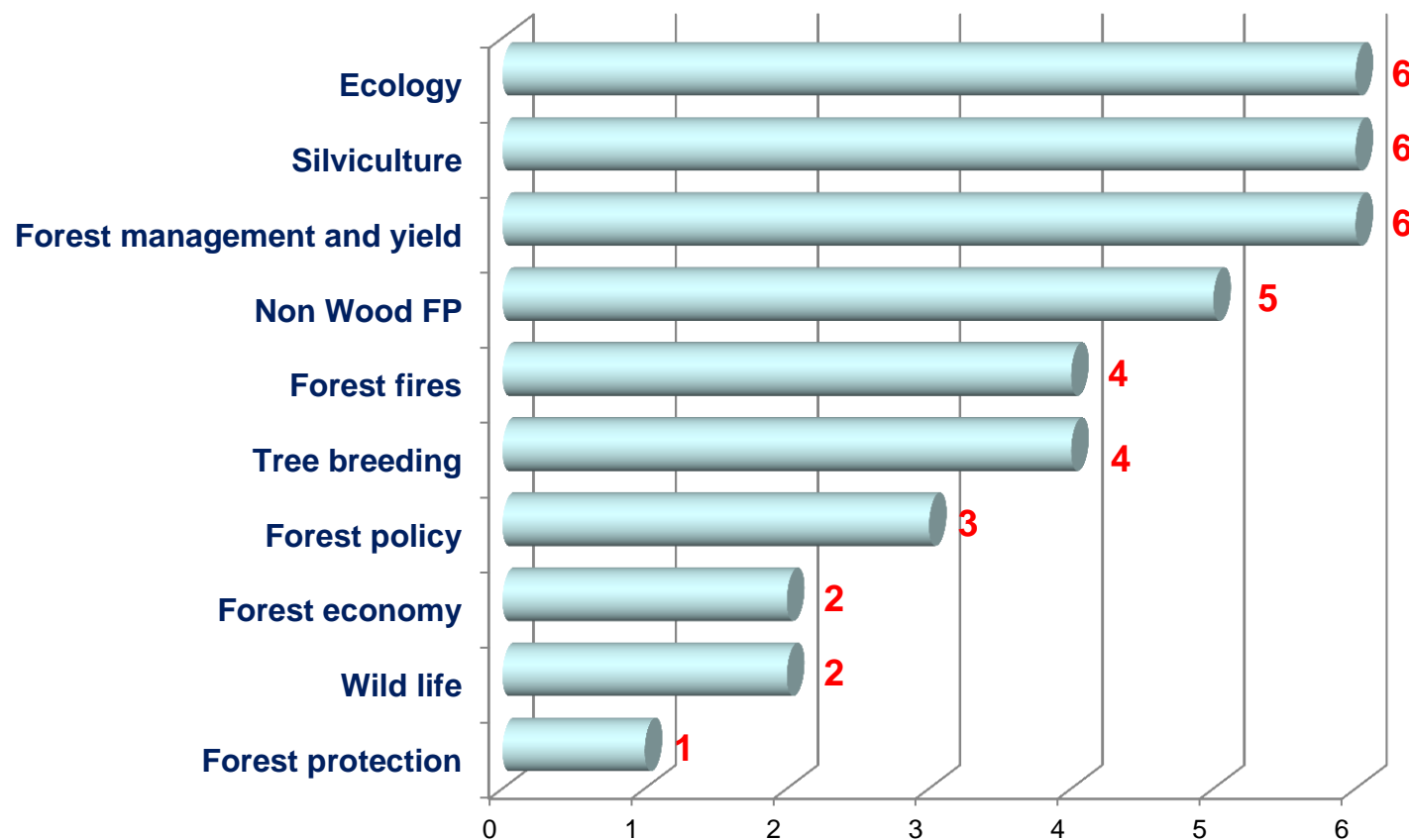
SAFRI

The studies completed so far

Departments	Technical Bulletin	Technical Report	TOTAL
Tree Breeding	8	-	8
Silviculture	29	8	39
Forest Management and Yield	11	4	15
Forest Protection and Environment	3	1	4
Forest Exploitation and Economics	6	1	7
Soil and Ecology	6	-	9
Social Forestry	3	-	3
TOTAL	66	14	85

SAFRI

Ongoing project numbers by disciplines



SAFRI

Priority research areas and future perspectives

- ✓ Fire prevention and post fire management (YARDOP)
- ✓ Non wood forest products
- ✓ Increase the resilience of forests in the region
(Mediterranean Region of Turkey) effected by climate change
- ✓ Increase the industrial wood production using the fast growing species (*P. brutia*)

SAFRI

Available Infrastructures

Bük-Lütfi Büyükyildirim Research Forest

- ◆ **Year of establishment :16.05.1959**
- ◆ **Total area: 1.822,7 ha**
- ◆ **Total forested area (*P. brutia*): 1.604 ha**
- ◆ **Altitude: 450-1400 m**
- ◆ **Buildings: Meteorology station, management buildings, two houses and a worker dormitory**
- ◆ **Number of project completed up to day: 31**
- ◆ **Number of ongoing research projects: 4**

SAFRI

Available Infrastructures

Bük-Lütfi Büyükyildirim Research Forest





FORESTERRA

Enhancing Forest REsearch in the MediTERRanean
through improved coordination and integration



SAFRI

Available Infrastructures

**Bük-Lütfi
Büyükyıldırım
Research Forest**



France, 12-13 December 2013

SAFRI

Available Infrastructures

Elmali Cedar Research Forest

- ◆ **Year of establishment : 12.02.1962**
- ◆ **Total area: 2.616,9 ha**
- ◆ **Total forested area (Cedar forest): 1.924,7 ha**
- ◆ **Altitude: 1030-2000 m**
- ◆ **Buildings in the forest area: Meteorology station, a guesthouse, six houses and nine bungalow, management building, two houses**
- ◆ **Number of resesrch projects completed up to day: 18**
- ◆ **Number of ongoing research projects: 5**

SAFRI

Available Infrastructures

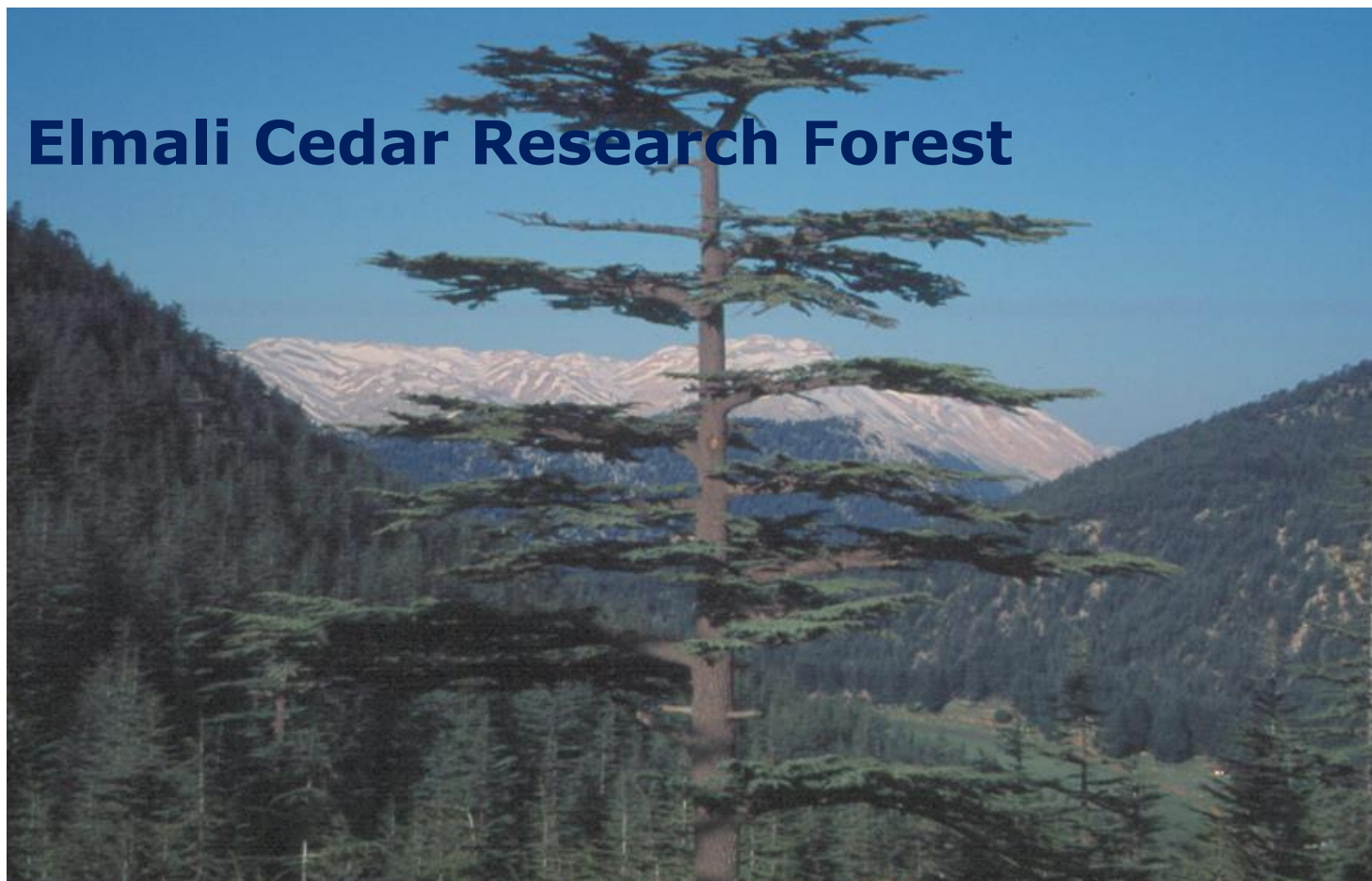
Elmali Cedar Research Forest



SAFRI

Available Infrastructures

Elmali Cedar Research Forest





FORESTERRA

Enhancing FOrest RESearch in the MediTERRAnean
through improved coordination and integration



SAFRI

Available Infrastructures



**Elmalı Cedar
Research Forest**



SAFRI

Available Infrastructures

❑ Laboratory for Soil and Water Analyses

Soil sample analyses

- pH
- Salt
- Total lime
- Texture
- Organics

Macro elements

- Sodium
- Potassium
- Magnesium
- Calcium
- Phosphor

Micro elements

- Cu, - Zn, - Mn, - Fe,

Water samples

- Salinity
- pH
- P
- Ca
- Mg
- Na
- Carbonate
- Bicarbonate
- Cl



Every year 6000 analyses



Laboratory building: Two floor
(Laboratories of nutrient, physical and chemical soil analysis)

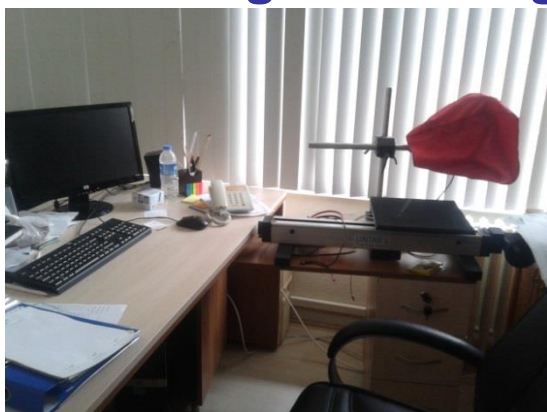
SAFRI

Available Infrastructures

☐ Seed test and germination lab.

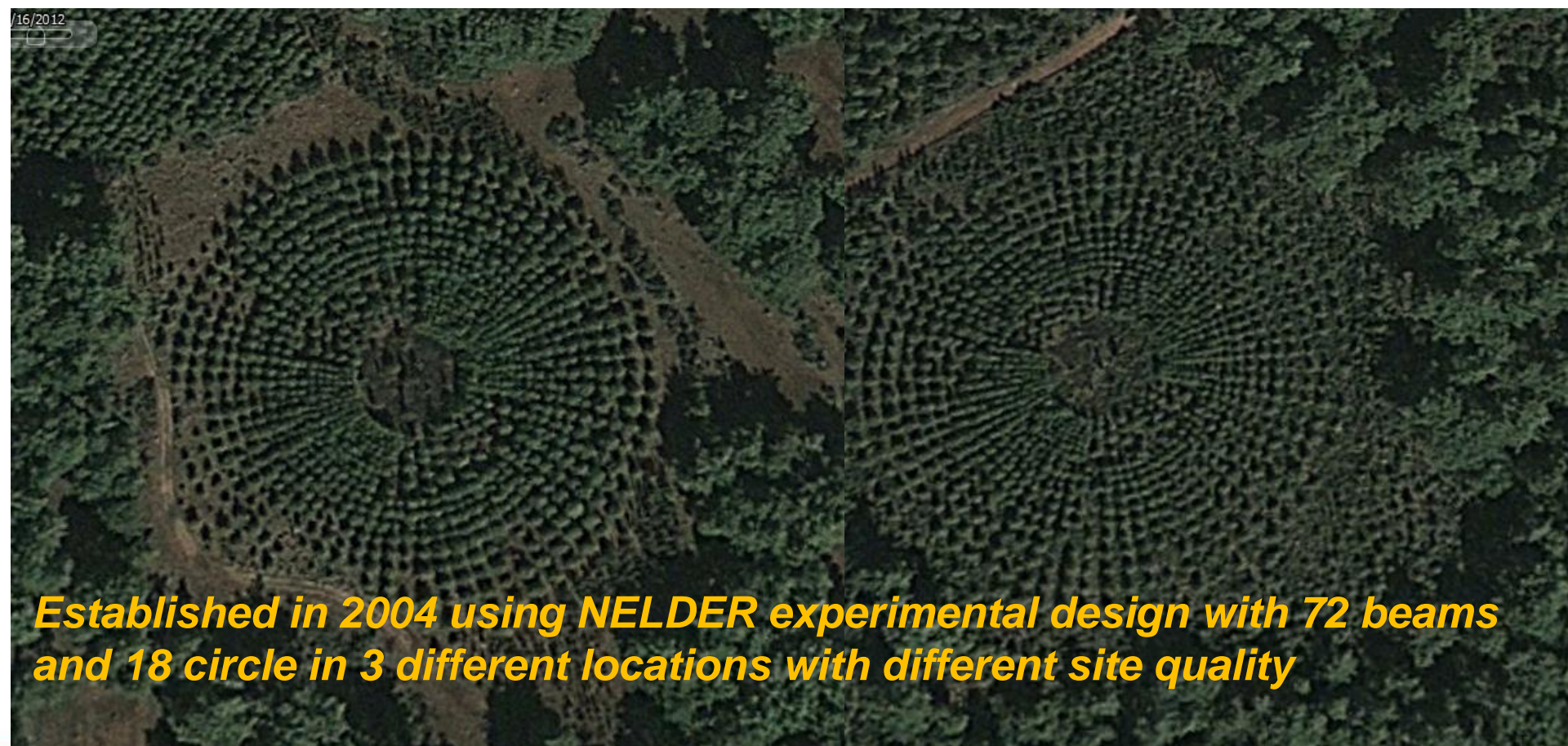


☐ Tree ring measuring system



SAFRI

P. brutia spacing trials (NELDER experimental site)



Established in 2004 using NELDER experimental design with 72 beams and 18 circle in 3 different locations with different site quality

SAFRI

Pinus brutia progeny trials



SAFRI

Mediterranean Cypress progeny trials





FORESTERRA

Enhancing Forest REsearch in the MediTERRanean
through improved coordination and integration



SAFRI

International Cooperation

☐ **Focal point of EFIMED**

[Kullanılanlar](#) [Araçlar](#) [Yardım](#)

EFIMED

Mediterranean Regional Office
of the European Forest Institute



EFIMED \

☐ **Member of board of AIFM**



ASSOCIATION INTERNATIONALE FORETS MEDITERRANEENNES

[Newsletter](#) | [News](#) | [Agenda](#) | [Gallery](#)



Rechercher...

Ok



SAFRI

International Cooperation

❑ Partnership of the FUME project (EU F7 research Project)

Coordinator: Castilla la Mancha University / Spain

Title: Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FUME)

❑ Partnership of the FFEM project

Coordinator: FAO & Plan Blue

Title: " Optimising the production of goods and services by Mediterranean forests in a context of global changes

SAFRI

International Cooperation

❑ German-Turkish partnership Project

Title of project

“Tree growth dynamics, carbon uptake and water use of *Cedrus libani* in its natural environment in the Taurus Mts. (Southern Turkey) and in plantations outside of its natural range – Response capacity to climate change and economic potential in Europe”

Duration: Start: September 2011 ,End: September 2014

German Partner

Institution: Universität Hohenheim

Division / Institute: Institut für Botanik / Stuttgart

Web address: <https://botanik.uni-hohenheim.de/>

Turkish Partner

Institution: Southwest Anatolian Forest Research Institute / Antalya

Type of organization: Research Institute

Web address: <http://www.baoram.gov.tr/>



FORESTERRA

Enhancing Forest RESearch in the MediTERRAnean
through improved coordination and integration



SAFRI

Thank you