Session n°6.
Access to forest research infrastructures: practices and lessons from Trees4Future

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Infrastructure: "a facility, a resource (or a coherent set of them) together with the related services, that are used by the scientific community to conduct research." (EU)

Integrated Infrastructure Initiative ("I3"), a place to:

- Structure and integrate research facilities
- Innovate
- Support research projects
- Provide a stable framework for research at European level

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- Provide and facilitate access to key forestry research resources

- Develop new tools and improve services for researchers

- Encourage synergies among scientists from various disciplines

- Facilitate their cooperation through standardisation

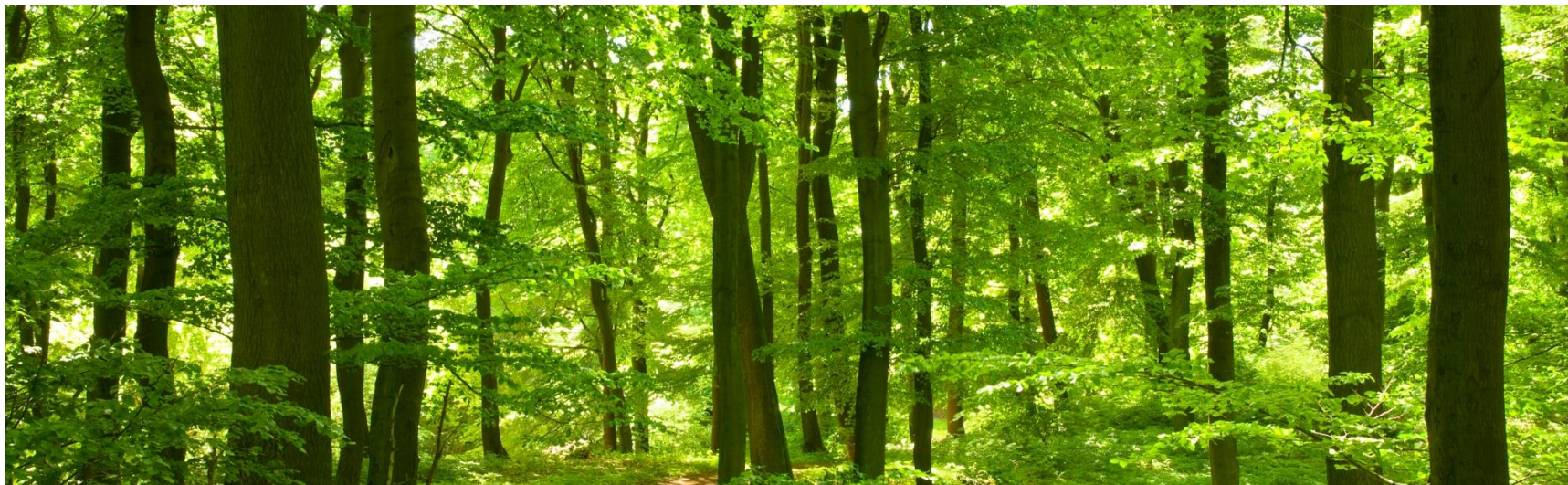- Integrate the facilities and resources on a long-term basis

Image: Metla

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Scientific aims

Image: Inga Nielsen / www.fotolia.com

"Improve services for researchers working on sustained and multifunctional production of goods and services as well as climate change adaptation and mitigation strategies, and preservation of biodiversity in industrial forests..."

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Image: Victor Zastol'skiy / www.fotolia.com

- Integrate, develop and improve multidisciplinary and multiscale resources in the context of forestry science

- Use genetics and breeding as a guiding line – but through generic enough activities

- No targeted species, but priority on cultivated forests

- Focus on adaptive traits, wood production traits

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Project organised around three main concerns in forestry research

Obtain data-sets

Experimentation

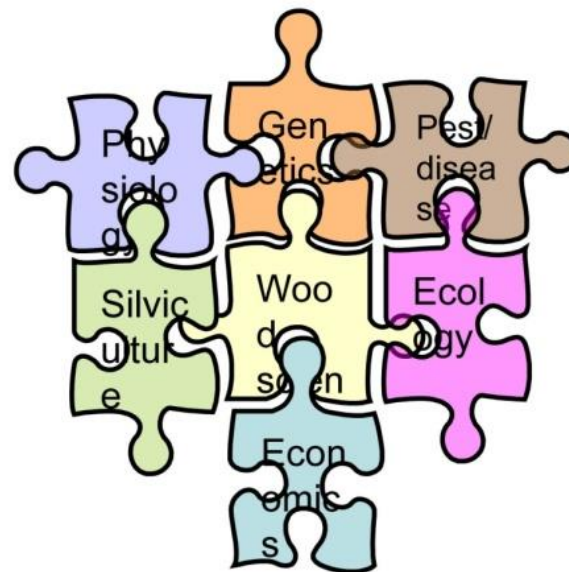High-throughput phenotyping

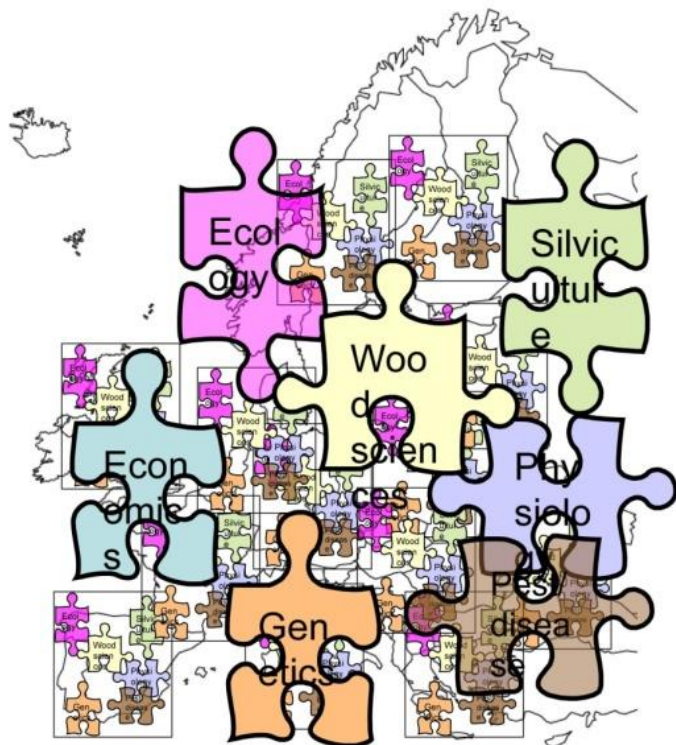Standardisation

Traceability

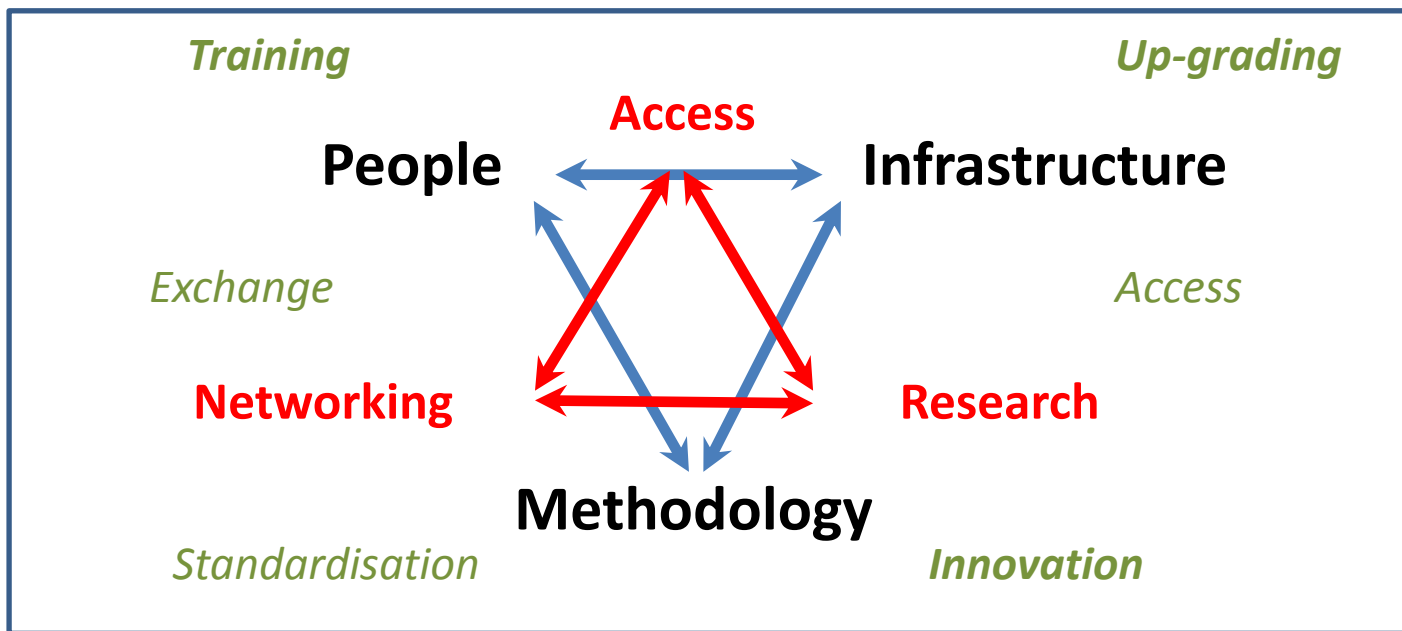**Manage data-sets**

Archive

Exchange of data

Explore data-sets

Data analysis

Modelling

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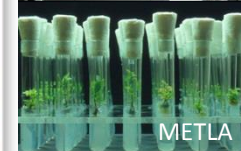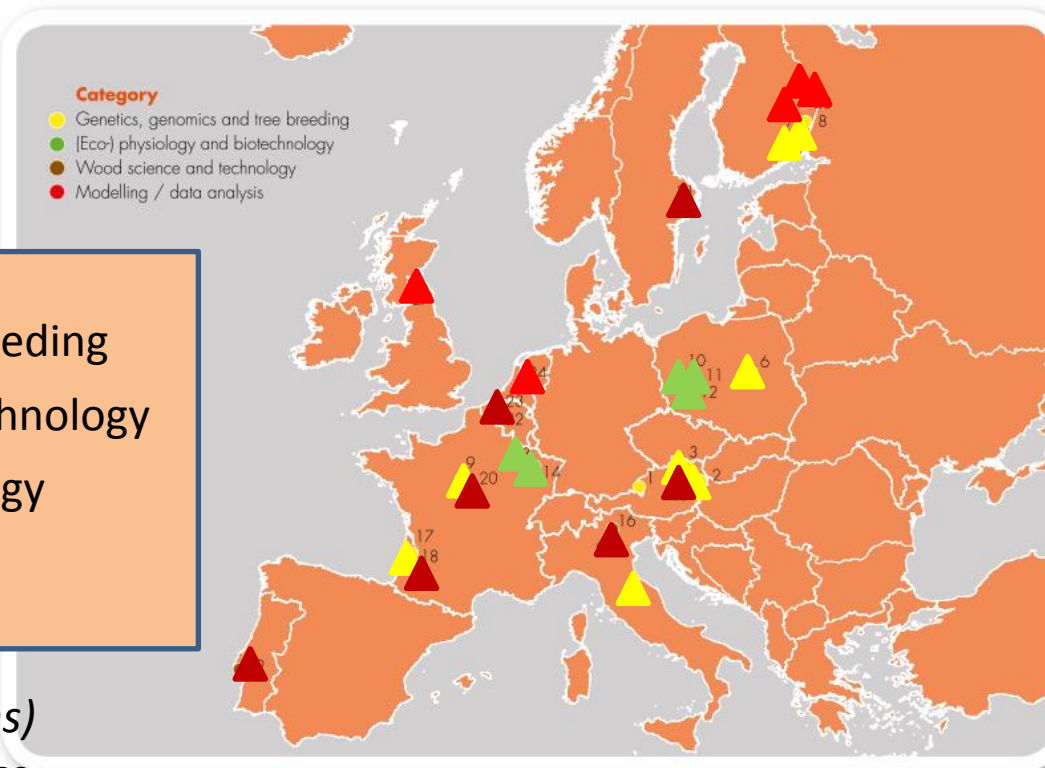through improved coordination and integration

Research infrastructure network

28 research infrastructures in access

- Genetics, genomics & breeding
- (Eco) physiology & biotechnology
- Wood science & technology
- Modeling

Physical visits (up to 3 months)
Remote services – Data access

Category
- Genetics, genomics and tree breeding
- (Eco-) physiology and biotechnology
- Wood science and technology
- Modelling / data analysis

TREES 4 FUTURE

SEVENTH FRAMEWORK PROGRAMME

INRA

IDPAN

METLA

IICT

UGCT

ALTERRA

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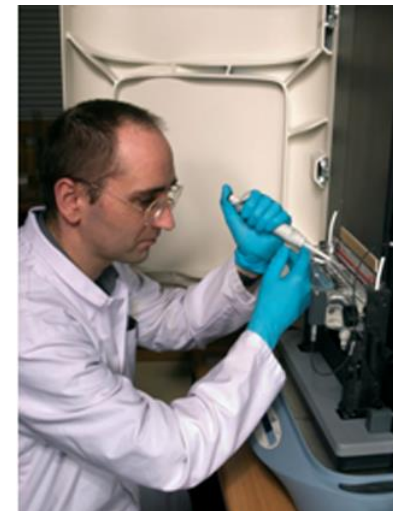
Opened until mid-2015!

Offers help with travel and
    subsistence costs

Visit **www.trees4future.eu**
    for more information about
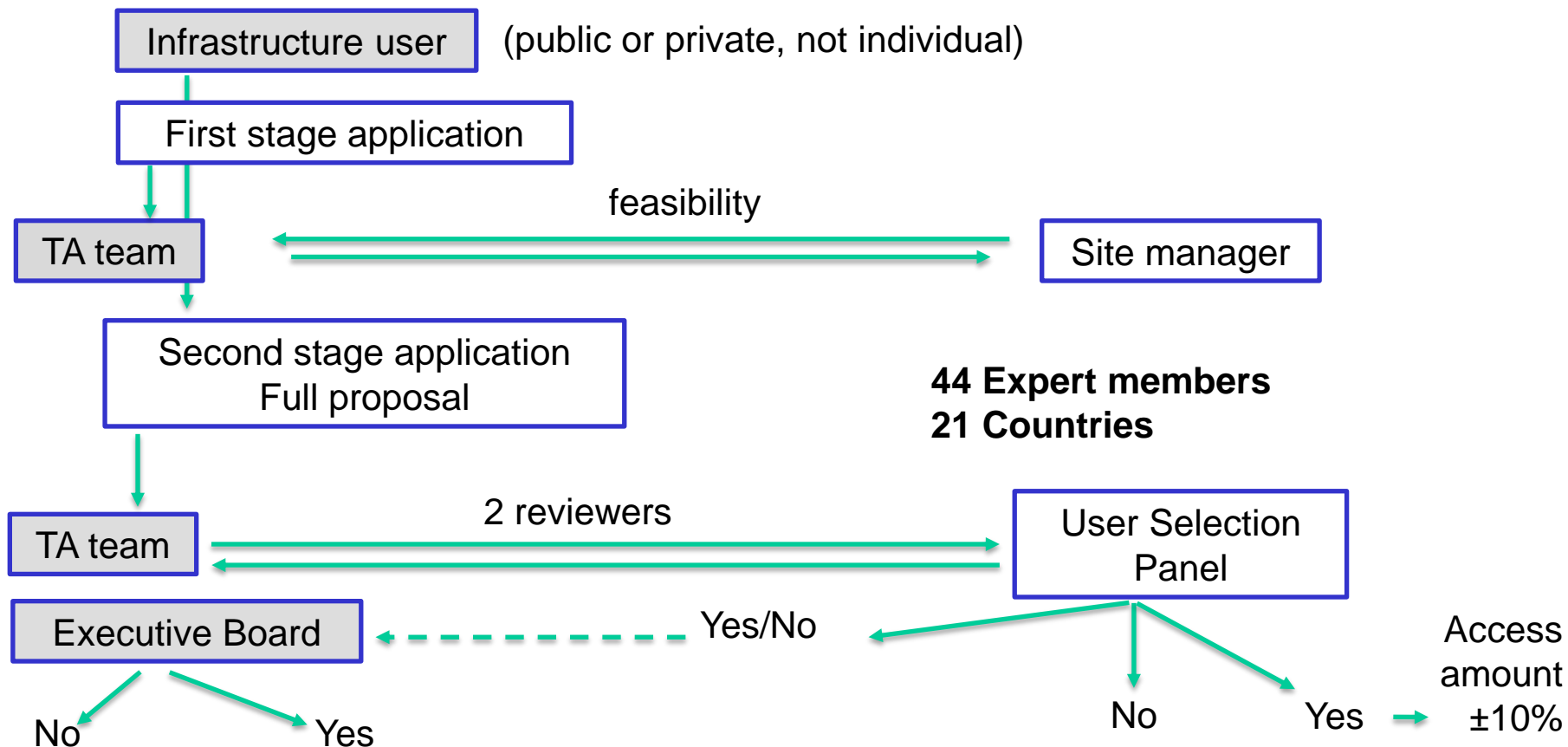   individual facilities

Online application

A total budget of 1.5 million
    euros available

Images: AIT / Forest Research

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Infrastructure user (public or private, not individual)

First stage application

feasibility

TA team ⟷ Site manager

Second stage application
Full proposal

44 Expert members
21 Countries

TA team — 2 reviewers → User Selection Panel

Executive Board ⟵ — — Yes/No

No / Yes

No   Yes →   Access amount ±10%

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For the user

- Home institution in Europe
- Transnationality condition
- Peer-review of proposal by user selection panel
- Priority to first-time users
- Post-access report
- Publication of results (embargo possible)

For the access provider

- Choose the installation (i.e. subset of infrastructure) to open
- Provide free access to selected users (non-partners)
- Publicize the access offer
- Record all use of the infrastructure (by any user)
- Identify its running costs

Transnational Access Agreement

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Image: Vladimir Melnikov / www.fotolia.com

Aims: Spread good practice, promote common protocols and interoperability, encourage complementarity

- Unique web portal for genetic databases
- Common standards for tree assessment/lab protocols

- Create key thematic research networks
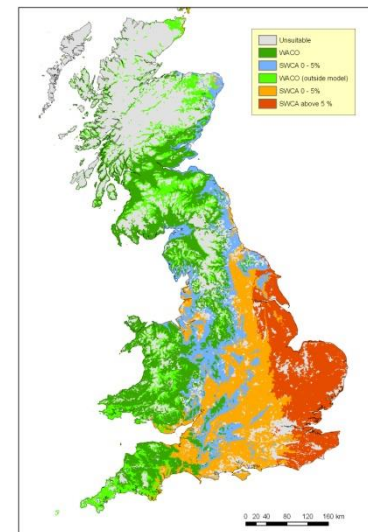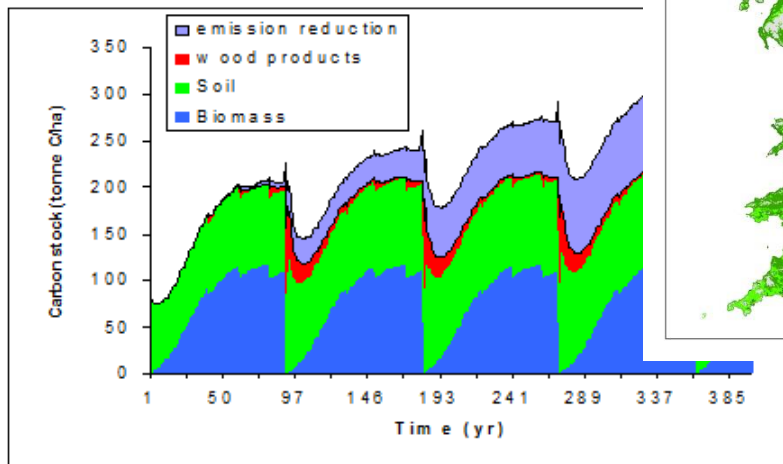- Dissemination, outreach, training

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Aims: improve and develop the services provided by the infrastructures

- Explore new technology / techniques
- Enhance and improve existing models and tools

Images: Alterra / Forest Research

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Image: AIT

- Integrated statistical platform for analysing forest genetic resources
- Development of a platform for fingerprinting and traceability
- Spatial modelling of breeding regions and future site suitability matching
- Clearing house with GIS functionality for forestry research data
- Developing modes of compatibility for modelling tools
- Improvement of medium/high throughput phenotyping of traits

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- 28 partners from 13 countries

- 4 year project (2011-2015)

- Budget approx 9 million euros (EC contribution 7 million euros)

- Funded by EU 7th Framework Programme (FP7)

Image: INRA

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www.trees4future.eu

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Image: Adrian Sumner / www.fotolia.com

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