

**COST Action E43**  
**Harmonisation of National Inventories**  
**in Europe:**  
**Techniques for Common Reporting**

**Joint Working Group and Management Committee  
Meeting**

**Overview, Achievements, Output and Impact**

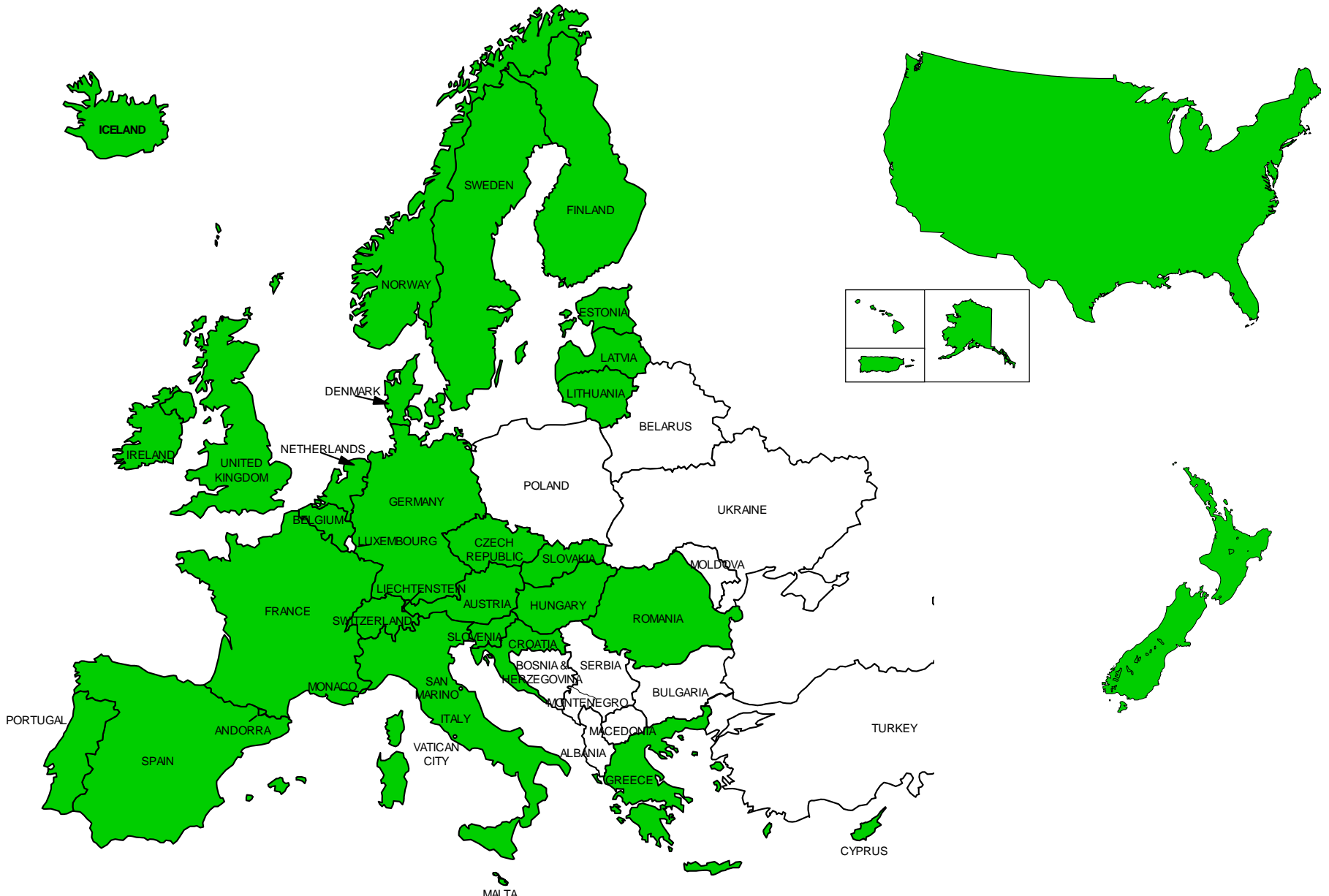
**Erkki Tomppo and Klemens Schadauer**

**Hotel Praia Mar, Lisbon, Portugal**  
**June 5-7, 2008**

[www.metla.fi/eu/cost/e43/](http://www.metla.fi/eu/cost/e43/)

# 27 European countries, USA and New Zealand

## June 2004 – December 2008

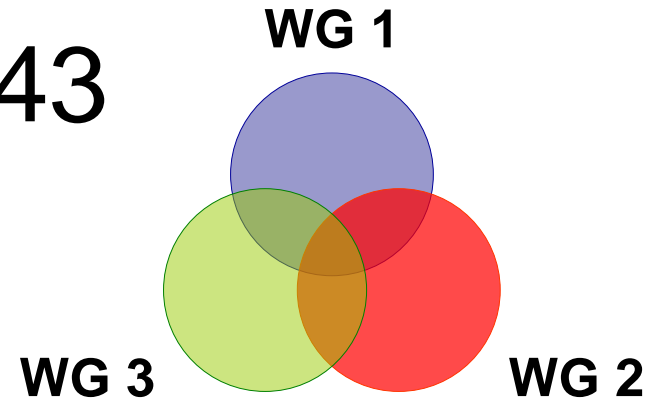


# Cost Action E43

## Objectives

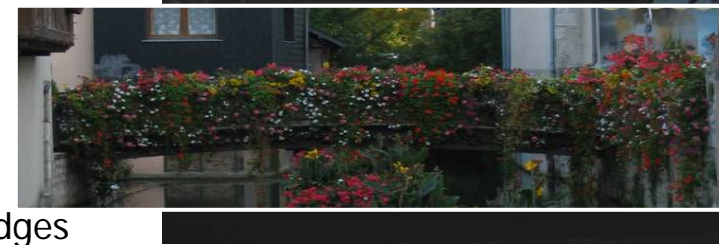
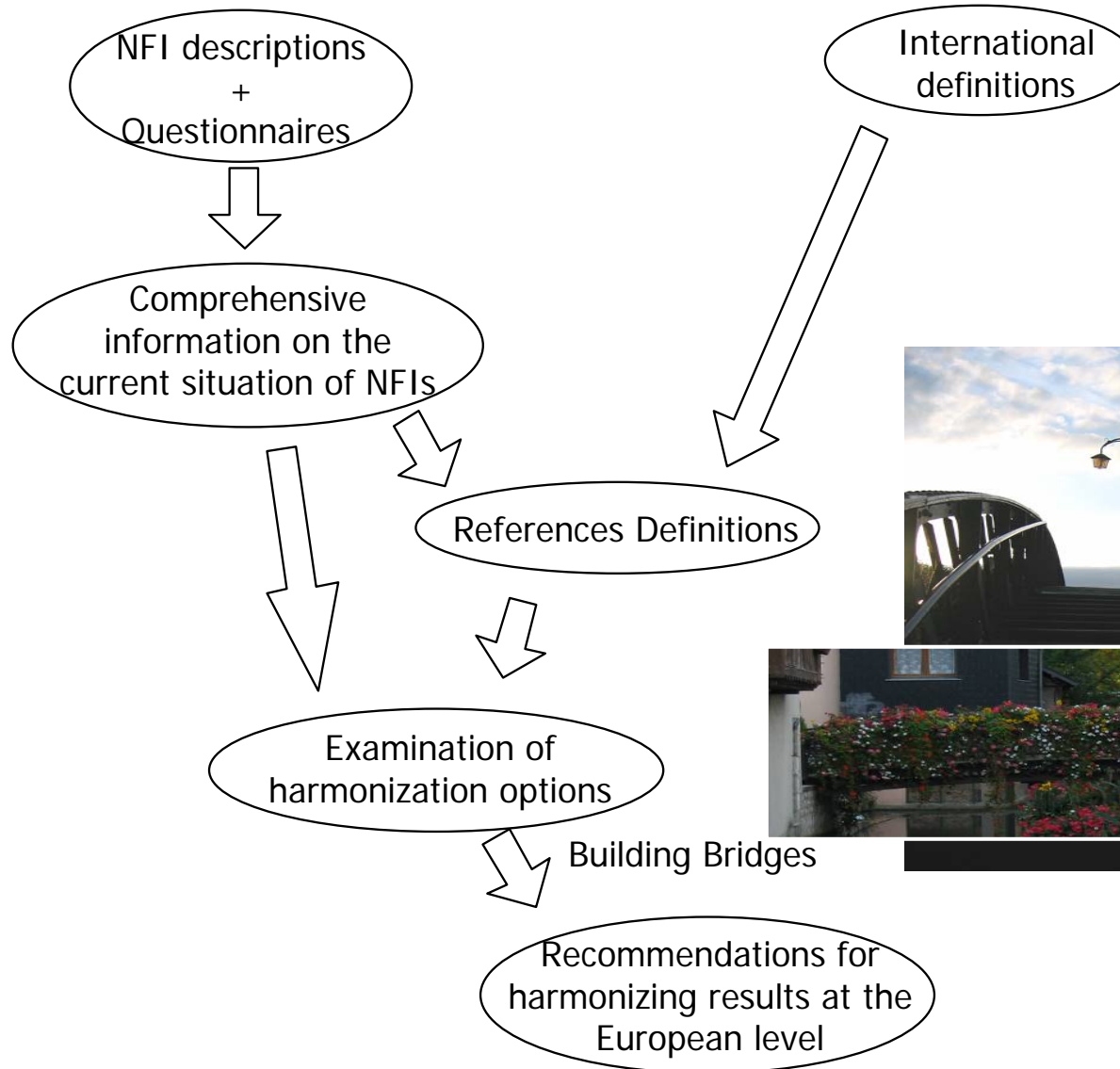
- To harmonise the definitions and concepts to produce comparable information
  - To support countries, particularly with new inventories
  - To promote the use of scientifically sound and validated methods
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# 3 WGs of COST E43



1. Harmonised definitions and measuring practices of NFIs
2. Harmonized estimation procedures for carbon pools and carbon pool changes
3. Harmonized indicators and estimation procedures for assessing components of biodiversity with NFI data

# The way towards harmonization



# Labelling reference definitions

– Long-term agreement



– Mid-term reference



– Discussed, not yet agreed  
Likely to be agreed

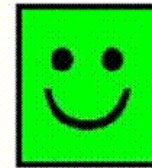


– Discussed, but not likely to  
reach a reference definition soon



# Current Situation

WG1	WG2	WG3
41	4	4
0	11	18
4	1	11
0	0	5



# Bridge building

- Harmonised estimates (bridges) can be achieved in many ways
    - own studies
    - findings from studies in neighbouring countries or from countries with similar conditions
    - self-harmonising, adopting E43 reference definitions in the coming inventories
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# Achievements

- Identification of the current status of NFIs, differences and similarities in concepts and definitions
  - Methods to create commonly agreed definitions towards international references, including forest resources, forest carbon pools and forest biodiversity
  - Enhancing UNFCCC LULUCF and Kyoto reporting through common definitions and use of NFIs
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# Achievements

- Quantifying biodiversity assessment and the possibilities of NFIs in biodiversity monitoring
  - Methods to convert NFI estimates from one definition to another (building bridges)
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# Impact

- European forest monitoring system
    - can be built on NFIs
    - full advantage of local knowledge
    - full advantage of a long time methodological work and time series
    - FAO, UNECE/FAO, MCPFE, JRC, EEA, DG ENV actively participating
  - Global impact, similar processes are being built elsewhere with the support of FAO, e.g., Asia process, Montreal process
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# Meetings and Budget

- 10 Joint WG MC Meetings
- 16 Task Force Meetings
- 10 STSMs
  
- Manpower in meetings by 2007: 11 Years
- Total Budget: 700.000€

# Outputs

- 2 books, to be published by Springer
  - Scientific articles
    - some have been published already
    - some under preparations
    - 14 articles planned for a special issue of Forest Science during the duration of the action
  - Technical reports, definitions, also on web
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# E43 Book

1. Introduction (10 pages)
2. Summary of the country report (5)
3. NFIs in the light of international reporting,
  - 3.1 A review of creating definitions and building bridges,
  - 3.2. Examples (10 pages/ ch. 3)
4. Conclusions (5)
5. Country Reports (approx. 450 pages; approx. 15/country)

# WG3 Book

1. Introduction
  2. Core variables for biodiversity assessment
  3. NFI variables definitions, availability and comparability for assessing core forest biodiversity variables
  4. Construction of the common data base
  5. Biodiversity assessment based on harmonized NFI data
  6. Summary and conclusions
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# Scientific articles, published or near published

## WG1

**Establishing Forest Inventory Reference Definitions for Forest and Growing Stock: a Study towards Common Reporting.** 2008. Vidal, C., Lanz, A., Tomppo, E., Schadauer, K., Gschwantner, T., di Cosmo, L. & Robert, N. *Silva Fennica* 42(2): 247–266.

**Some Approaches and Designs of Sample-based National Forest Inventories,** Gabler & Schadauer. 2007. *Austrian Journal of Forest Science*.

**Common tree definitions for National Forest Inventories** Gschwantner et al., *Silva Fennica*. To be submitted.

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# Scientific articles, published or near published

## WG2

### **Preparing emission reporting from forests: use of National Forest Inventories in European countries.**

Cienciala, E., Tomppo, E., Snorrason, A., Broadmeadow, M., Colin, A., Dunger, K., Exnerova, Z., Lasserre, B., Petersson, H., Priwitzer, T., Sanchez, G. & Ståhl, G. 2008. *Silva Fennica* 42(1): 73–88.

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# Scientific articles, published or near published

WG3

**Large-Scale Spatial Patterns of Forest** McRoberts, R., Winter, S., Chirichi, G., Hauk, E., Pelz, D. Moser, K, & Hatfield, M. 2008. Structural Diversity. Can. J. For. Res. 38, 429.438.

**Possibilities for harmonizing national forest inventory data for use in forest biodiversity assessments** Winter, S. , Chirichi G, McRoberts, R. , Hauk, E. & Tomppo, E. 2008.. Forestry. Vo. 81, No. 1

**Monitoring biodiversity using data from National Forest Inventories**, Chirici et al., Silva Fennica. Submitted.

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# The work left

- Finalising the definitions
    - definitions to be initiated, increment, drain
  - Building as ‘beautiful’ bridges as we are able during the duration of the action
  - Writing the scientific articles, reports and book chapters
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# Thank you so much for your attention !

