UNECE

Food and Agriculture Organization of the United Nations

Permanent Mission of the Federal Republic of Germany to the Office of the United Nations and the other International Organizations Geneva

More Heat with Less Wood

What are the best practices to provide healthy, affordable and resource efficient wood energy?

C.A.R.M.E.N.

Bern University of Applied Sciences

DBFZ

FNR
Fachagentur Nachwachsende Rohstoffe e.V.

Outline

- UNECE/FAO Forestry and Timber Section
- Why do *we* work on wood energy?
- What are our wood energy *products*?
- "More heat with less wood"-background
- Objectives, approach and structure

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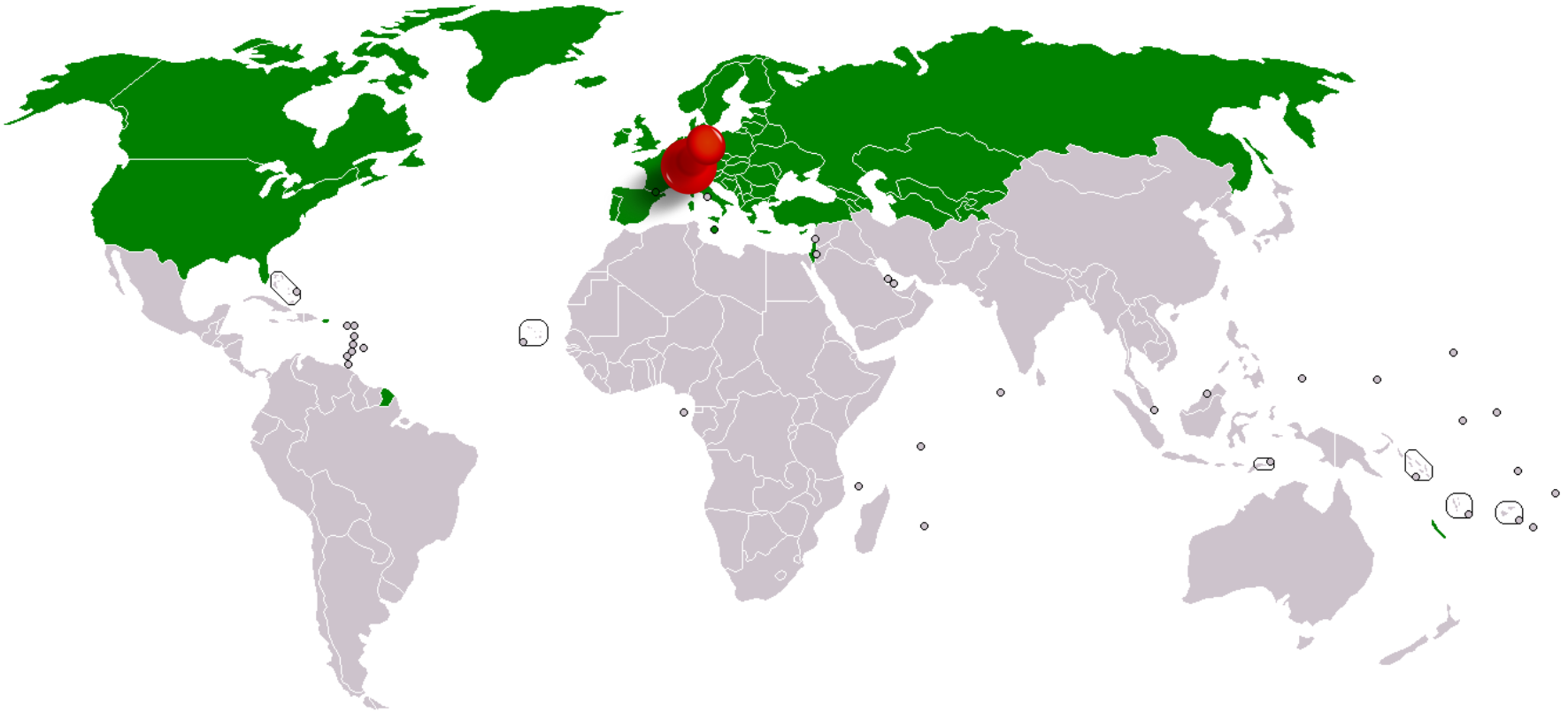
Economic Commission for Europe

… Established in 1947, first regional commission of the United Nations

… is a multilateral platform which facilitates greater economic integration and cooperation among its fifty-six member States

… promotes sustainable development and economic prosperity

The UNECE Region



Joint ECE/FAO Forestry and Timber Section

WA1	• data, monitoring and assessment
WA2	• policy dialogue and advice
WA3	• communication and outreach
WA4	• capacity building

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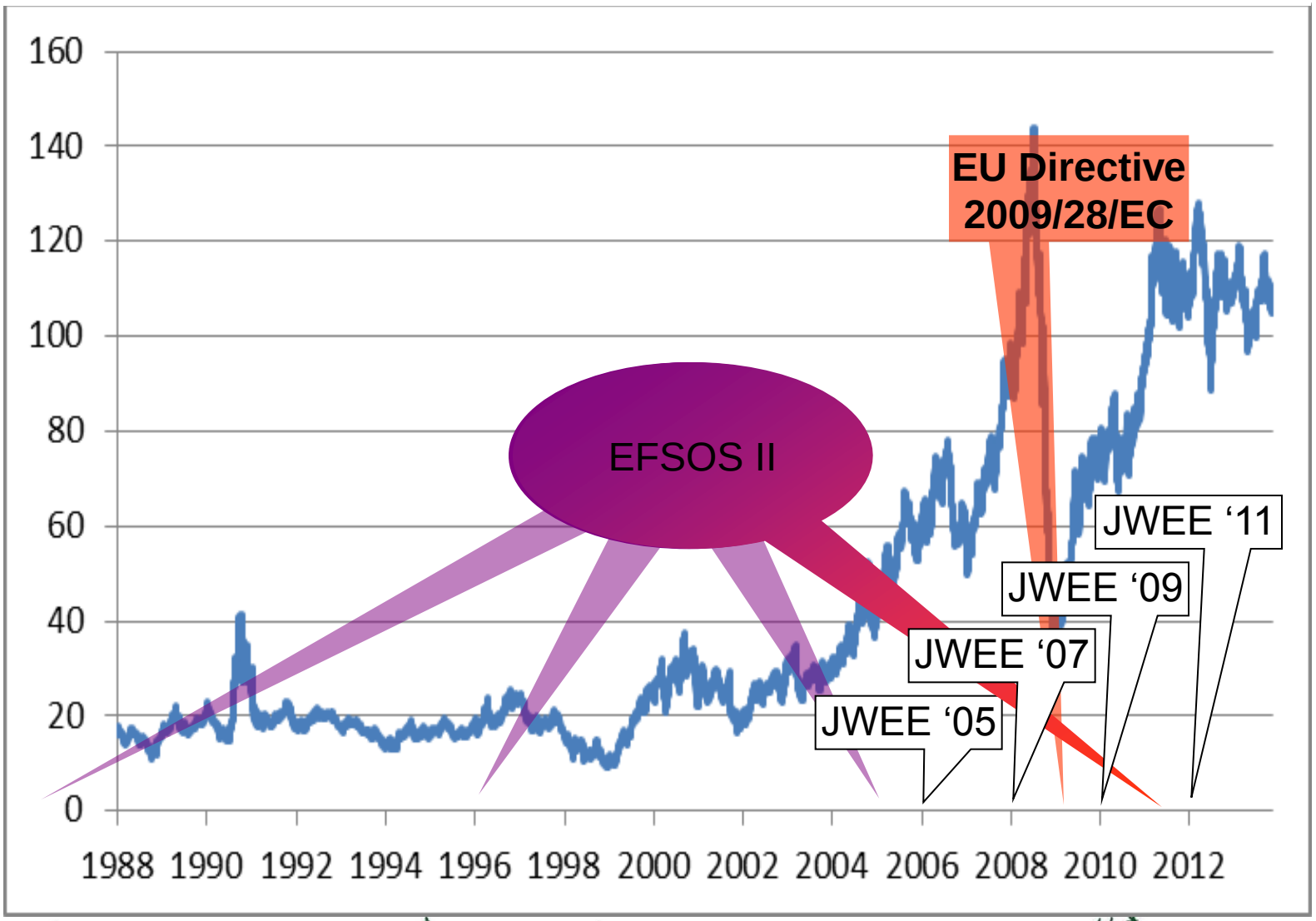
Europe Brent Spot Price (Dollars per Barrel) *



*Source: EIA

We work on wood energy, because…

… wood energy is the most important single source of renewable energy in the world;

… wood fuels are important for the forest based sector;

… no reliable data available in harmonized form;

… more details required than consumption only.

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Wood energy *products*

… Data on wood energy production and consumption: **Joint Wood Energy Enquiry**

… Information on wood energy markets: **Forest Products Annual Market Review**

… Analysis of possible implications of renewable energy policy on forests and forest products: **European Forest Sector Outlook Study**

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More heat with less wood - background

Well seasoned firewood,
cut, split and delivered

being less expensive than

freshly cut wood in 1 meter
long logs in a logyard.

Wood energy @ UNECE

- UNECE/FAO Forestry and Timber Section
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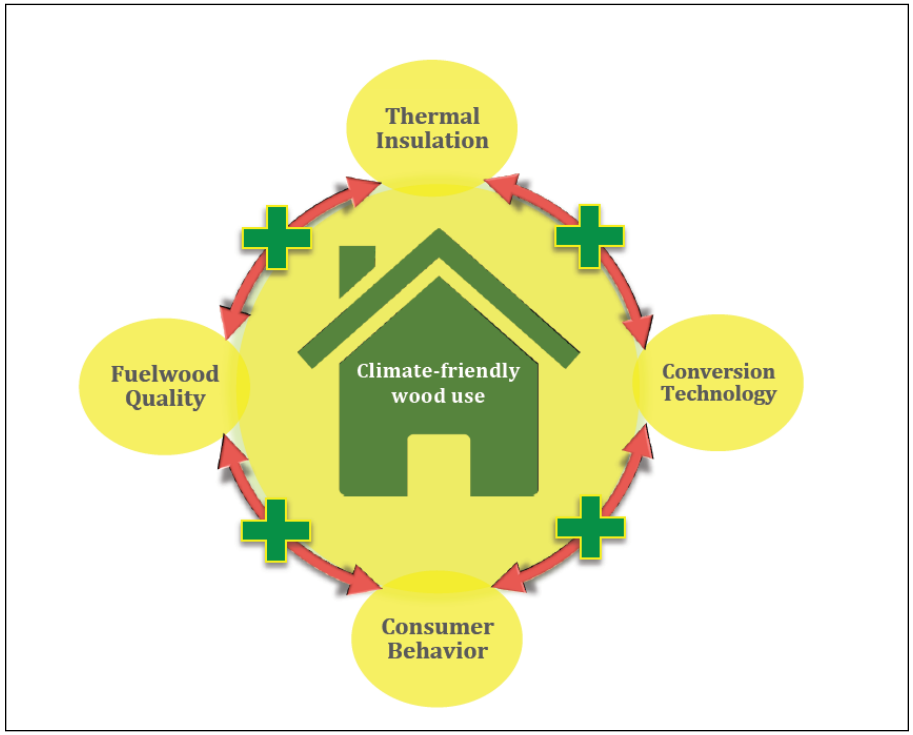
Objectives

- To reduce the strain for consumers in a household:
  - Increase efficiency of heating technology
  - Increase thermal insulation
  - Increase quality firewood supply
  - Optimize cumbustion process
  - Reduce emissions for indoor air quality
  - Etc...

Approach

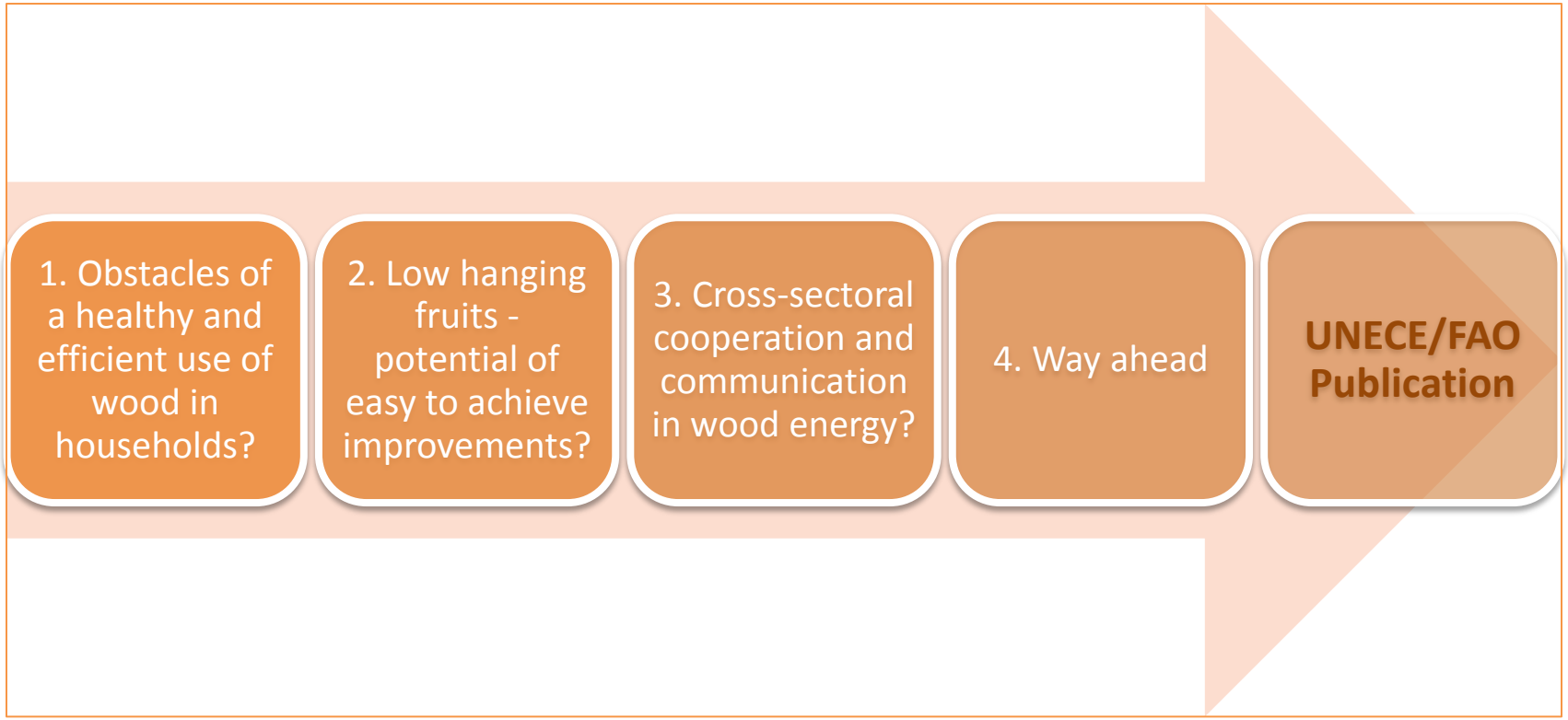
Each measure is interdependent and cannot effectively be addressed by itself



Approach

- Exchange of experiences from Eastern and South Eastern Europe and Central Asia
- Facilitate forum on wood energy in households
- Establish a debate towards approaches that address holistic / cross-sectoral approaches
- Raise awareness for the benefits of cross-sectoral approaches

Structure - working group sessions



1. Obstacles of a healthy and efficient use of wood in households?

Working groups:

Households	Development agencies
Identify the obstacles	Identify the obstacles
Cluster the obstacles	Cluster the obstacles
Prioritize	Prioritize

2. *"Low hanging fruits"* - Potential of easy to achieve improvements?

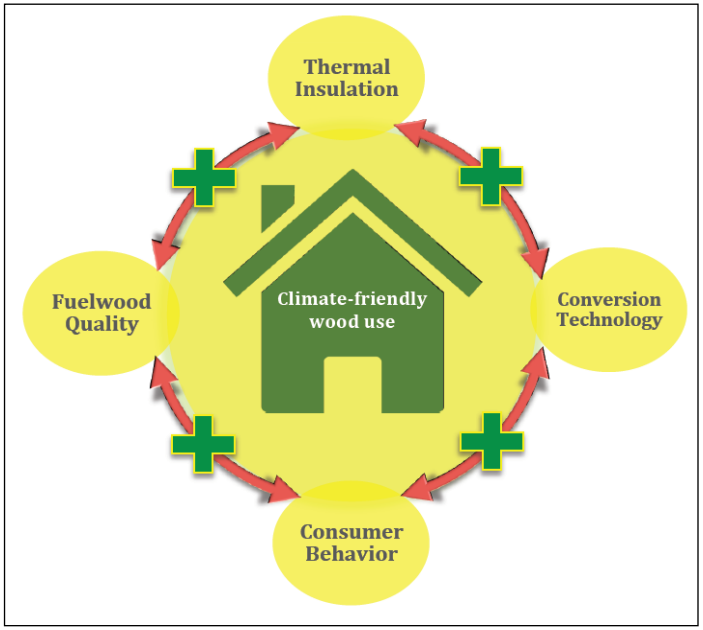
Working groups:

Households	Development agencies
Identify	Identify
Prioritize	Prioritize
Presentation	Presentation

3. Cross-sectoral cooperation and communication in wood energy

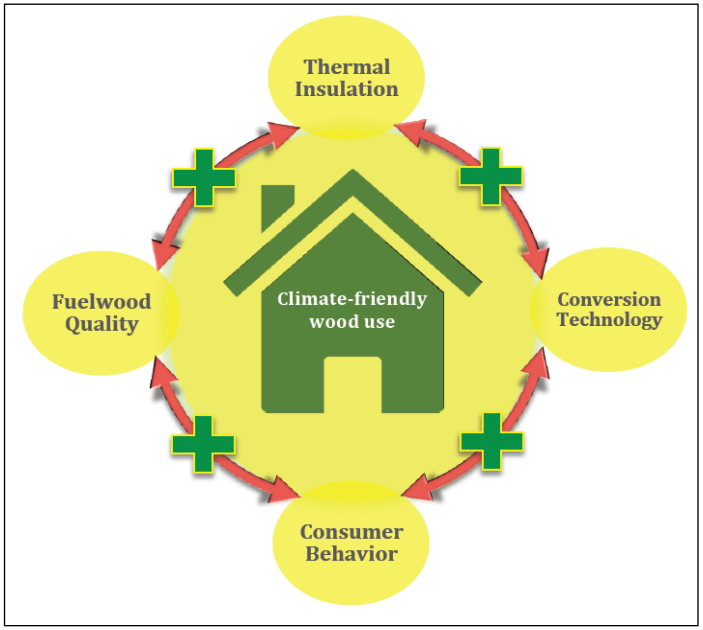
How well works cross-sectoral cooperation and communication in wood energy projects?

- Two groups
- H-Diagramm
- Presentation



4. Way ahead

…


Thermal Insulation
Fuelwood Quality
Climate-friendly wood use
Conversion Technology
Consumer Behavior

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THANK YOU FOR YOUR ATTENTION!

ALL THE BEST FOR A PRODUCTIVE AND INTERESTING WORKSHOP!

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06.10.15	
10.00 - 10.30	Opening by UNECE, FAO and German ambassador
10.30 - 10.50	Introduction and objectives
10.50 – 11.15	Wood energy and influencing factors
11.15 – 11.40	Health and indoor biomass combustion
11.40 – 12.05	User influence on energy efficiency
12.05 – 12.30	Enhancing efficiency of utilization of firewood in households - experience and lessons learned from Serbia
12.30 - 13.00	Energy efficiency & house insulation in Kirgizstan
13.00 – 15.00	**LUNCH BREAK / 14.30 MEETING AT THE EXHIBITION IN THE PASSERELLE**
15.00 – 15.25	A financing mechanism for warmer and more energy efficient Moldovan homes
15.25 – 15.40	Introduction into group work
15.40 – 17.30	Group work
17.30 – 18.00	Presentation of results from group work
18.15	**RECEPTION AT THE MEETING EXHIBITION IN THE PASSERELLE**

07.10.2015	
10.00 – 10.15	Introduction and objectives
10.15 – 10.40	More heat with less wood in the light of combustion technologies
10.40 - 11.05	Sustainable energy solutions for Georgian communities
11.05 – 11.30	Sustainable regional supply chains for woody bioenergy – Experiences from Bulgaria, Serbia and Croatia
11.30 – 11.55	Efficient use of natural resources in Kirgizstan and Tajikistan
11.55 – 12.20	Low-cost heating for low-cost housing: how to heat more and spend less – a case from Albania
12.20 - 12.45	Production and marketing of energy-efficient wood stoves in Tajikistan
12.45 - 13.10	Wood energy for cooking and heating
13.10 – 15.00	**LUNCH BREAK**
15.00 – 15.15	Introduction into group work
15.15 - 16.30	Group work
16.30 - 17.00	Presentation of results from group work
17.00 - 17.30	Closing of the workshop