

Eionet webinars on resource efficiency policies

**Webinar on Policy Mixes for Resource Efficiency**

Thursday, 11 June 2015, 13:30 - 15:00 (CET)

Agenda, background paper and sign‑up instructions

Prepared by:

**Bettina Bahn-Walkowiak (Wuppertal Institute)**

European Topic Centre on Waste and Materials in a Green Economy

ETC/WMGE 2.1.1.d Task Manager:

**Arkaitz Usubiaga (Wuppertal Institute)**

EEA project manager:

**Paweł Kaźmierczyk**

Documents, presentations and video recordings from earlier webinars on resource efficiency are available on the Eionet Forum: <http://forum.eionet.europa.eu/nrc-scp-waste/library/eionet-webinars/webinars-resource-efficiency>

Contents

1 Objectives of the webinar 3

2 Introduction to Policy Mixes for Resource Efficiency 5

2.1 Policy context 5

2.2 Why focus on policy mixes for resource efficiency? 5

2.3 Policy approaches 7

2.3.1 DYNAMIX 7

2.3.2 POLFREE 7

3 Short bios of the speakers 10

4 Webinar Agenda 11

5 Instructions how to sign up for the webinar, and log in on the 11 of June 12

# Objectives of the webinar

Webinars on resource efficiency policies and instruments, initiated in 2012, are organized by the European Environment Agency for the [Eionet network](http://www.eea.europa.eu/about-us/countries-and-eionet), to support exchange of information and sharing of experience among national institutions which are responsible for practical implementation of resource efficiency policies at the country level.

The main objectives of these webinars are to keep countries informed about ongoing and upcoming EU policy initiatives, and to provide a forum where countries themselves can present examples of policy initiatives which they adopt and carry out under the heading of resource efficiency.

Previous webinars covered such topics as: national strategies for resource efficiency; targets and indicators; industrial symbiosis; circular economy; RMC and European target on resource productivity; and decoupling.

In an effort to tackle inefficient and wasteful use of natural resources, the European Union has named resource efficiency as one out of seven flagship initiatives under its so-called Europe 2020 strategy, which means the EU considers resource efficiency a top policy priority (European Commission 2010). The "Roadmap to a Resource Efficient Europe" (European Commission 2011b) describes a vision of an economy in the European Union in 2050, which is competitive and inclusive and has a high standard of living but grows economically in a way that the scarcity of resources and the limits of the planet are respected. In 2014, the [European Resource Efficiency Platform](http://ec.europa.eu/environment/resource_efficiency/re_platform/index_en.htm) published a Manifesto with policy recommendations further encouraging action in Member States to implement effective policies.

The [7th Environment Action Programme](http://ec.europa.eu/environment/newprg/) (EAP), adopted in 2014, will be guiding European environment policy until 2020. It sets out a long-term vision for the EU:

*"In 2050, we live well, within the planet’s ecological limits. Our prosperity and healthy environment stem from an innovative, circular economy where nothing is wasted and where natural resources are managed sustainably, and biodiversity is protected, valued and restored in ways that enhance our society’s resilience. Our low-carbon growth has long been decoupled from resource use, setting the pace for a safe and sustainable global society."*

However, development and implementation of policies to support resource efficiency and in particular, application of mixes of various policy instruments which, when combined in a synergistic way improve resource efficiency, are at a fairly early stage. While there is no lack of innovative ideas for instruments that could mutually reinforce each, their implementation is rather scattered and dissemination limited.

The topic of how to develop and design policy mixes for resource efficiency, and the question if there already are successful policy mixes which could illustrate benefits of combining various forms of policy intervention, have recently started to attract the attention of policymakers and researchers, especially with regard to the selection of instruments, the process of formulation, and priorities to be considered.

The goal of the webinar on 11 June 2015 is to share with the Eionet the concept of policy mixes for resource efficiency (drawing on the results of two dedicated multi-annual research projects, DYNAMIX and POLFREE, initiated by the European Commission), and to explore the conditions and benefits from combining various policy instruments to achieve improved resource efficiency.

The webinar will begin with an introduction by Dr. Martin Hirschnitz-Garbers from Ecologic Berlin and Dr. Henning Wilts from the Wuppertal Institute for Climate, Environment, Energy, who will present selected findings from [DYNAMIX](http://dynamix-project.eu/) and [POLFREE](https://www.ucl.ac.uk/polfree) – two large multiannual projects funded by the European Commission to explore, to learn from and to stimulate use of successful policy mixes for resource efficiency. This will be followed by a policy update by Ms. Bettina Kretschmer, DG Environment, concerning recent and upcoming initiatives in Brussels, as well as a short reflection on the rationale for policy mixes for resource efficiency. The keynote presentation on resource efficiency policy mixes in action will be given by Professor Paul Ekins from Universtity College London, who will discuss potential economic opportunities of resource efficiency policy mixes for jobs and growth and the lessons learned from experiences in the United Kingdom.

The upgraded version of Webex webinar software which we use allows up to 100 participants to take part, and while priority is given to Eionet participants, non-Eionet participants will also be able to register. To participate in the webinar, you need a computer with a fast internet connection, and equipped with a microphone and speakers (or a headset).

**To register for the webinar, please sign up / provide your contact details at:**

<https://docs.google.com/document/d/1kW5iK9nw5Z6_aokae58BpxG0XCG3YcU-9sEnWdox7YE/edit>

Detailed joining instructions will be sent to registered participants on 10 June 2015. They are also included at the end of this document.

# Introduction to Policy Mixes for Resource Efficiency

## Policy context

The Europe 2020 Strategy defines milestones for the EU to become a smart, sustainable and inclusive economy (European Commission, 2010). The strategy is built around seven mutually reinforcing flagship initiatives, one of which has resource efficiency at its core (European Commission, 2011a). As a follow up to this flagship initiative, the Commission adopted the Roadmap to a Resource Efficient Europe in order to set a framework for action that would pave the way towards an EU smart, sustainable and inclusive economy that by 2050 has grown in a way “that respects resource constraints and planetary boundaries, thus contributing to global economic transformation” (European Commission, 2011b, p. 3).

Under the headline “Transforming the economy” the EU Roadmap describes four major guidelines and milestones:

* By 2020, citizens and public authorities have the right incentives to choose the most resource efficient products and services and market and policy incentives that reward business investments in efficiency are in place - **Sustainable consumption and production**
* By 2020, waste is managed as a resource - **Turning waste into a resource**
* By 2020 scientific breakthroughs and sustained innovation efforts have dramatically improved how we understand, manage, reduce the use, reuse, recycle, substitute, safeguard and value resources - **Supporting research and innovation**
* By 2020, Environmentally harmful subsidies will be phased out and a major shift from taxation of labour towards environmental taxation will lead to substantial share of environmental taxes in public revenues **- Environmentally harmful subsidies and getting the prices right** (EC 2011).

The 7th Environment Action Programme also highlighted the role which resource efficiency should play in this transformation by including it in one of its thematic priorities, namely to turn the Union into *“a resource-efficient, green and competitive low-carbon economy.”* The other two key objectives are to protect, conserve and enhance the Union’s natural capital; and to safeguard the Union's citizens from environment-related pressures and risks to health and wellbeing. (European Commission, 2014a).

## Why focus on policy mixes for resource efficiency?

The prevailing approach to resource policy is that stand-alone and often rather weak strategies and a conglomerate of different sector-specific and/ or technology-driving instruments and policies as well as selective policies for innovation and green innovation confront complex socio-technical resource supply and consumption systems. Indeed, individual instruments are increasingly implemented quite effectively and successfully (e.g. governmental loan programmes for energy efficiency investments in buildings). Then, successful instruments gain a relative diffusion in Europe as ‘good practices’ (e.g. feed-in tariffs) and thus lead to stronger effects. This sometimes also relates to instruments that are controversial concerning their environmental purpose (e.g. car scrappage schemes). On the other hand, some effective instruments are lose their former legitimacy in the wake of political changes and parliamentary terms or they are successfully challenged by interest groups (e.g. ecological tax reforms).

Hence, more and more policies aim to combine the dynamics of innovation for resource efficient practices with a targeted support for eco-technologies. Those policies are assumed to have advantages in achieving economic objectives and increasing resource efficiency, by being a fusion point of innovation and environmental policies. Incentive instruments and programmes are established but they are often focused in the field of energy. Policies aiming to influence the resource use, e.g. targets, market-based instruments, innovation and technology driving instruments, informational instruments and information transfer show a broad range of hundreds of different environmental protection and resource efficiency policies across the EU32, frequently tailor-made for national needs. The [EEA report](http://www.eea.europa.eu/publications/resource-efficiency-in-europe) (2011), for example, reports 190 examples presented by countries as good practices for resource efficiency.

**Figure 1: Potential policy landscape: instrument classification and interlinkages**



Source: Fedrigo-Fazio et al. 2014 (DYNAMIX project), p. 22

Resource efficiency policy has to be seen as a prototype of a “multi-aspect problem” that requires a targeted mix of different instruments. There is no single policy tool that would be able to effectively address the different problem structures, goals, actors, kinds of resources, etc. associated with the consumption of raw materials. In contrast to single instruments, policy mixes are composed of several elements such as targets and market-based and/or information-based incentives for research and innovation, diffusion or market introduction of resource-efficient technologies or products.

They have to be designed under a given framework or under changing conditions, while—ideally—focusing on the country-specific opportunities and the participation of the relevant stakeholders and actors at the same time. It has to overcome barriers, be aware of separate innovation stages, and respond to future global challenges. It is further important in this context that strategies and planning processes are different for resource extracting/ exporting and resource importing countries. They are subject to country-specific resource and economic priorities, while support from other countries can be needed for technology and knowledge transfer and capacity building.

## Policy approaches

Drawing on the examples from two on-going research projects called “Policy options for a resource efficient Europe” (POLFREE) and “DYNAmic policy MIXes for absolute decoupling of environmental impacts of EU resource use from economic growth” (DYNAMIX), this webinar aims to introduce to the issue and to arouse interest and foster cross-country dialogue.

### DYNAMIX

As part of the DYNAMIX project's ex-post analyses, case studies for evaluation of successful policies towards decoupling of resource use (ranging from abiotic resources, including minerals, metals, and fossil fuels; biotic resources, including timber, fish, to environmental media and the ecosystem services linked to them: land, air) were analysed. In order to inform the selection of promising policy mixes for absolute decoupling, a total of [15 case studies](http://dynamix-project.eu/sites/default/files/DYNAMIX_WP3_Case-Study-Summary.pdf) were undertaken in the project (Mazza et al. 2013).

A next step was a [comparative analysis of policy mixes](http://dynamix-project.eu/sites/default/files/D.3.2.%20Comparative_Assessment_final_public.pdf) addressing natural resources in order to assess whether the mixes have achieved an absolute decoupling within resource limits, an absolute decoupling, a relative decoupling, no decoupling or whether the results are unclear at present (Fedrigo-Fazio et al. 2014).

The project then developed three [initial policy mixes](http://dynamix-project.eu/sites/default/files/D4.2_Development_DYNAMIX_policy_mixes_Feb2015_final.pdf) designed within three different policy areas to address absolute decoupling in general and, specifically, the use of virgin metals, the use of arable land and freshwater, the input of the nutrients nitrogen and phosphorus, and the emissions of greenhouse gases. These policy mixes aim to address (a) land use, (b) metals and other materials and (c) has an explicit overarching design including :

* Taxes on the extraction of selected virgin materials and on landfilled and incinerated waste.
* Feebate schemes for selected products.
* Reduced value-added tax (VAT) for the most environmentally advantageous products and services.
* Boost of the extended producer responsibility.
* Skill enhancement programme.
* Local currencies for labour-based services.
* Enabling a shift from consumption to leisure.
* Step-by-step restrictions of advertising and marketing.
* Minimum requirements on the life-cycle performance of products.
* Compulsory sustainability reporting for companies. (Ekvall et al. 2015).

### POLFREE

A crucial precondition of an efficient policy mix is the inner consistency of a set of instruments and the coherence with overall goals. This also relates to the coordination of new instruments with environmental policies in place and the coordination with related policies like financing, R&D, procurement, investments etc. The links to recycling, the recovery of resources and a circular economy are obvious as waste instruments have to be an integral parts of those policy mixes (Bahn-Walkowiak, von Gries, Wilts 2014).

The possibilities to go beyond single instruments and integrate them into a consistent and coherent policy mix with relevant synergies between its single elements were explored in the POLFREE project. Specific instrument design features are most influential for innovation processes and synergies, but also contrary effects and trade-offs between specific instruments are important as well as a congruency with the policy targets are most relevant for the construction of policy mixes.

A [series of innovative instruments (or innovative adaptations of existing instruments) was described in detail and analysed with regard to their potential impacts and their interactions](https://www.ucl.ac.uk/polfree/publications/publications-2014/D2-3-policy-mix). The instruments representing the most relevant fields of action as to resource consumption and resource efficiency potentials were analysed as a potential policy mix in the following configuration:

1) Minimization of food waste losses alongside the value chain/ Changing diets

2) Zero Energy and material efficient buildings

3) Fuel efficient mobility

4) Electricity production and distribution

5) Industrial symbiosis network

6) Product Service Systems

7) Ecodesign Product Standards for a Circular Economy

8) Phasing out EHS

9) Internalization of costs

The character of resource efficiency as a cross-cutting policy approach becomes evident: The more promising specific instruments seem, the more actors have to be involved in its development and implementation. This often requires complex coordination between different policy fields, e.g. in the field of food waste prevention between agriculture, industrial food processing, retailers and consumer policy. Despite the obvious potential environmental and economic benefits, high transaction costs of coordination are a powerful barrier. New platforms of coordination but also improved framework conditions for promising niche developments will be necessary in order to boost the uptake of existing technological and social innovations for resource efficiency alongside value chains (Wilts et al. 2015).

The following links provide more information about project results on policy mixes:

<https://www.ucl.ac.uk/polfree/publications>

<http://dynamix-project.eu/results>

**References**

Bahn-Walkowiak, B., von Gries, N., Wilts, H., Schefer, S., 2014. Comparing trends and policies of key countries: Report about drivers for resource decoupling and the role of national policies. Deliverable D1.3 within the POLFREE project. London, University College.

Ekvall, T., Elander, M., Umpfenbach, K., Hirschnitz-Garbers, M., Hudson, C., Wunder, S., et al. 2015. Development of DYNAMIX Policy Mixes. D4.2. within the DYNAMIX project, Berlin, Ecologic Institute.

European Commission, 2010. Europe 2020. A strategy for smart, sustainable and inclusive growth. COM(2010) 2020 final.

European Commission, 2011a. A resource-efficient Europe – Flagship initiative under the Europe 2020 Strategy. COM(2011) 21.

European Commission, 2011b. Roadmap to a Resource Efficient Europe. COM(2011) 571 final.

European Commission, 2011c. Analysis associated with the Roadmap to a Resource Efficient Europe Part II. SEC(2011) 1067 final.

European Commission, 2014b. Towards a circular economy: A zero waste programme for Europe. COM(2014) 398 final.

European Commission, 2014c. Analysis of an EU target for Resource Productivity. Commission Staff Working Document. SWD(2014) 211.

European Resource Efficiency Platform, 2014. Manifesto & Policy Recommendations.

Fedrigo-Fazio, D., Mazza, L.,ten Brink, P., Watkins, E. 2014. Comparative analysis of policy mixes addressing natural resources, D.3.2 within DYNAMIX, Berlin, Ecologic Institute.

Mazza, L., Fedrigo-Fazio, D., Withana, S., Faria Lopes, A. 2013. Evaluating existing policy mixes to identify solutions for EU resource efficiency - Summary report of 15 real world policy mix evaluations.

Wilts, H., von Gries, N., Bahn-Walkowiak, B., O’Brien, M., Busemann, J., Domenech, T., Bleischwitz R., Dijk, M. 2014. Policy Mixes for Resource Efficiency, D2.3 within Policy Options for a Resource-Efficient Economy (POLFREE), London, University College.

# Short bios of the speakers

**Prof. Dr. Paul Ekins,** Professor of Resources and Environmental Policy at and Director of the UCL Institute for Sustainable Resources, University College London, member of UNEP's International Resource Panel, former Chairman of the UK government-funded National Industrial Symbiosis Programme (NISP), a consultant to the Government’s Sustainable Development Commission.

Email: Paul Ekins [p.ekins@ucl.ac.uk](mailto:p.ekins@ucl.ac.uk)

**Dr. Martin Hirschnitz-Garbers,** Senior Fellow at Ecologic Institute and Coordinator of Resource Efficiency. He works on analysing policies concerning the decoupling of resource use and economic growth, on evaluating resource policy and on fostering sustainable resource management towards a Circular Economy; project coordinator DYNAMIX

Email: Martin Hirschnitz-Garbers [martin.hirschnitz-garbers@ecologic.eu](mailto:martin.hirschnitz-garbers@ecologic.eu)

**Ms. Bettina Kretschmer,** DG Environment, European Commission. Socio-Economic Analyst at DG Environment, European Commission, Bettina works on implementing the EU's Resource efficiency agenda, including financing aspects and policy development in the field of the circular economy, as well as on economic and environmental assessment in relation to energy, climate and land use policies.

Email: Bettina Kretschmer [Bettina.KRETSCHMER@ec.europa.eu](mailto:Bettina.KRETSCHMER@ec.europa.eu)

**Dr. Henning Wilts,** project coordinator at the Wuppertal Institute for Climate, Environment and Energy, research group on Material Flows and Resource Management; coordinates several research projects on transition processes towards a circular economy, waste prevention and resource efficiency policies.

Email: Henning Wilts [henning.wilts@wupperinst.org](mailto:henning.wilts@wupperinst.org)



# Webinar Agenda

**Webinar on Policy Mixes for Resource Efficiency**

**Thursday 11 June 2015, 13:30 - 15:00 (CET)***Webinar IT platform will be open for joining at 13:00 (CET) - to log in please follow the instructions in the next section*

|  |  |
| --- | --- |
| **Policy Mixes for Resource Efficiency - Policy context** | |
| **13:30** | * **Welcome, introduction and technical briefing** by Paweł Kaźmierczyk (EEA) and Bettina Bahn-Walkowiak (ETC/WMGE) |
| **13:40**  **–**  **14:10** | * **Why focus on mixes of policy instruments for resource efficiency? An introduction**   by Dr. Martin Hirschnitz-Garbers (Ecologic Institute) and Dr. Henning Wilts (Wuppertal Institute)  Joint presentation of selected findings from [DYNAMIX](http://dynamix-project.eu/) and [POLFREE](https://www.ucl.ac.uk/polfree) – two large multiannual projects funded by the European Commission to explore, to learn from and to stimulate use of successful policy mixes for resource efficiency. *(20 min presentation + 10 min Q&A)* |
| **14:10**  **–**  **14:30** | * **A new EU Strategy: The Circular Economy**   Policy update from the European Commission on recent developments and upcoming EU initiatives on resource efficiency, and reflections on the rationale for policy mixes for resource efficiency.  by Ms. Bettina Kretschmer, DG Environment *(15 min presentation + 5 min Q&A)* |
| **Key note presentation: Resource Efficiency Policy Mixes in action** | |
| **14:30**  **–**  **15:00** | * **A Green Economy for Europe: Costs, Benefits, Opportunities and Policies**   Presentation by Prof. Dr. Paul Ekins; University College London, Member of the International Resource Panel *(20 min presentation + 10 min Q&A)* |
| **Wrap up and closing** | |
| **15:00** | **Wrap-up** by Paweł Kaźmierczyk (EEA) |



# Instructions how to sign up for the webinar, and log in on the 11 of June

To **REGISTER** for the webinar, please sign up at:

<https://docs.google.com/document/d/1kW5iK9nw5Z6_aokae58BpxG0XCG3YcU-9sEnWdox7YE/edit>

Instructions how to **LOG IN ON THE DAY OF THE WEBINAR:**

**\*\*\* please log in between 13.00 and 13.20 \*\*\***

Log-in instructions to join the Eionet webinar on policy mixes for resource efficiency

*Thursday 11 June 2015, 13:30-15:00 (CET)*

Dear Colleagues,

Thank you for signing up for the EEA Resource Efficiency Webinar on Policy Mixes for Resource Efficiency, which will take place on Thursday, 11 June 2015, from 13:30 to 15:00 CET.

Many of you are already familiar with EEA resource efficiency webinars, but for the newcomers, just a short note that the technical aspect of webinars is quite straightforward. You will need a computer with a fast and stable internet connection, and an external microphone and speakers (or a head set).

If you will be using a laptop, you would probably want to use an external microphone (or a headset), as the quality of sound from built in microphones is often quite poor. This can be a problem if you would like to ask a question during the webinar.

To log in, we invite you to:

(1) First do a self-check, to make sure that your equipment is configured properly for Webex

(2) Log in on Thursday 11 June 2015 between 13:00 and 13:20 so that we can start at 13:30 sharp

Below you will find detailed instructions for these two steps.

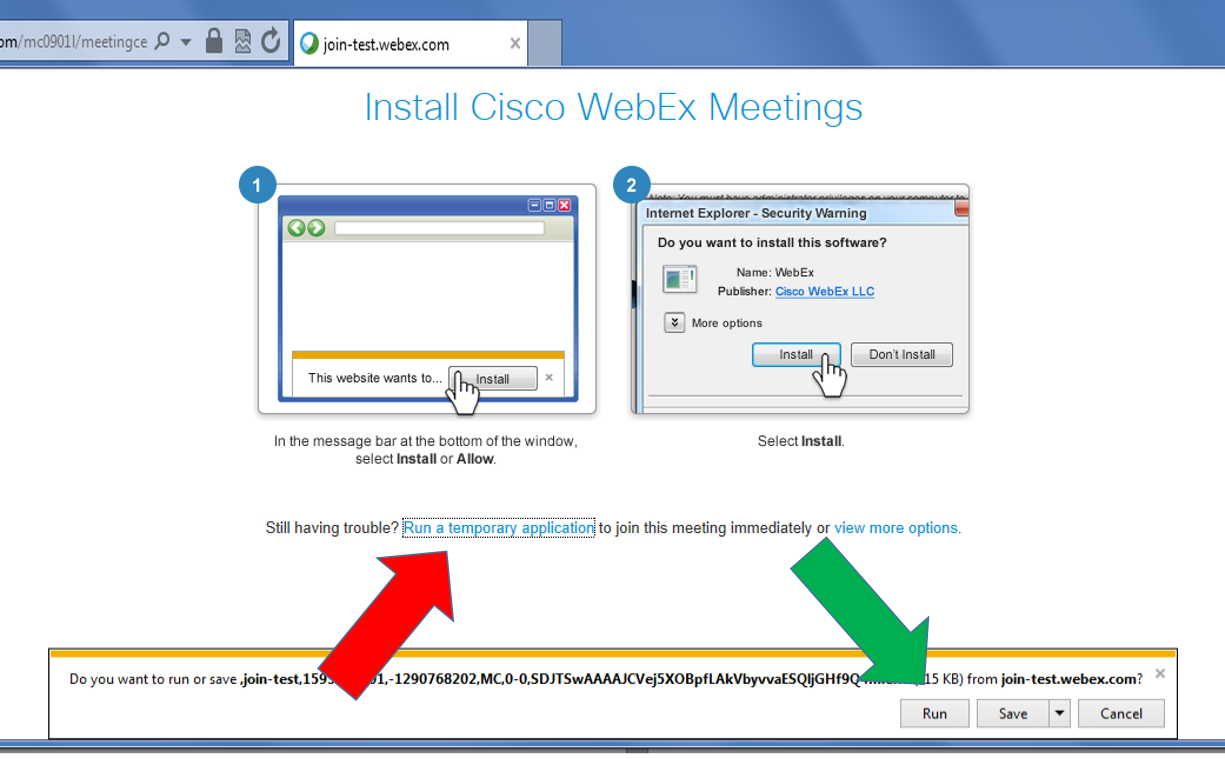
In case of problems, you can reach us by email at: [Marco.Veneziani@eea.europa.eu](mailto:Marco.Veneziani@eea.europa.eu)

1. **Technical test of your equipment (self-check)**

Prior to the webinar, we kindly ask you to test your equipment (microphone and speakers, headset, etc.) to make sure that everything is configured properly and works well.

**To do an interactive test with WebEx (self-check which you can do at any time), please click on:** <http://www.webex.com/test-meeting.html>

IMPORTANT: When a welcome screen comes up, we recommend that you don’t install anything but instead click on **‘run a temporary application’** (illustrated with a red arrow on the figure below) and then when another small window pops up, you click on RUN (marked with a green arrow).



The screenshot above shows a dialogue window for Internet Explorer. If you are using a different browser or operating system, your window may look different, but there will **always be an option to ‘run a temporary application.**’ Click on that, and the run the file that pops up or downloads.

The reason why we recommend opting for the ‘temporary application’ is that with this method nothing will try to install itself permanently on your computer, a step which would typically require an ADMIN password on an office computer.

After the computer checks the configuration, you should get a message ‘Congratulations, your system is now set up properly’

1. **On Thursday, 11 June 2015 please log in for the webinar between 13:00 and 13:20 CET**

To log in, please click on the link:

<https://eea-event.webex.com/eea-event/onstage/g.php?MTID=e23a2f8e7407e4bb6d04024bafb7e7135>

and fill in the requested info, using exactly the same email address which you registered with at sign up.

If you are asked for it, the password is EIONET (all capital letters)

Again, the most important thing is to ‘run a temporary application’ as described in section (1) above, rather than to try installing Webex software permanently.

When you are logged in, please click the two icons at the top right to activate the panels CHAT and PARTICIPANT. And take a look around the Webex display window. NB, everyone’s microphones will be muted on entry, to prevent unintended noise.

We will start at 13:30 sharp

See you on Thursday!

Pawel and the webinar team