



# European Resources Forum 2016

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9–10 November 2016  
Ludwig Erhard Haus, Berlin

Programme booklet

 #2016ERF

For the Environment

**Umwelt**   
**Bundesamt**

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## Greetings

### Maria Krautzberger

President | German Environment Agency



It is a great pleasure for me to welcome you to the European Resources Forum (ERF) 2016 in Berlin. This is the third time that the conference is held. The conferences in 2012 and 2014 have shown that the ERF has established itself as a major platform for scientific and political debate about the sustainable use of natural resources. The over 400 participants from over 40 countries who attend each ERF are proof of its international orientation. In 2014, more than half of the participants came to Berlin from other countries in Europe and internationally. The ERF is making a significant contribution to communication and the initiation of networks and alliances to identify, critically reflect on and jointly develop needs and options for action. This year's ERF will discuss the current focus of European resource efficiency policy as well as relevant activities at international level, and it will ask what further impetus we need to make Europe resource-efficient. It will present best-practice examples, innovative business models and European country initiatives aimed at boosting resource efficiency. A resource-efficient land use within the rural-urban nexus and the idea of an international platform for resource governance are further issues highlighted at the conference. I am looking forward to inspiring contributions and interesting discussions and wish all participants a successful conference.

### Dr. Barbara Hendricks

Federal Minister | Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety



Natural resources form the foundation for our lives and economies, yet today we are running up against the ecological boundaries of our planet. This means we must work even more diligently in future to foster sustainable use of natural resources. Our common goal should therefore be creating an economy in Europe that is tightly focused on circular principles and resource efficiency in order to secure growth and prosperity. This is why resource efficiency is the key to Europe's future well-being.



We must resolutely endeavour to sever the link between consumption of natural resources and economic growth. In these efforts, we must hold open dialogues in all policy fields. In addition, we have to commit collectively to concrete targets and their implementation. The European Resources Forum will make a pioneering contribution to this work. The forum has established itself as an important European platform for discussions about the issues surrounding sustainable resource use. I look forward to interesting debates at this third meeting of the forum. I would like to wish all of the participants a productive time at the event.

## Karmenu Vella

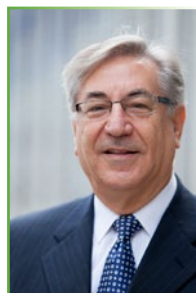
European Commissioner for Environment, Maritime Affairs and Fisheries | European Commission

Through its Circular Economy Action Plan the European Commission is already helping businesses and consumers make the transition to more sustainable use of resources.

We are tackling all stages in the life-cycle and value-chain. This year we proposed new initiatives on food waste, organic fertilisers, waste-to-energy, and water re use. We will also strengthen voluntary Green Public Procurement criteria on durability and reparability.

In 2017 our strategy on plastics will tackle the reasons why we still recycle less than 25% of collected plastic waste and send 50% to landfill. And in 2018 we will finalise our analysis of how to address the interface between chemicals, products and waste legislation, including how to reduce the presence of chemicals of concern and improve their tracking.

But to move to a truly resource efficient and circular economy more is needed. We need action at the local, national and global levels, and from both public and private sectors. That is why the European Resource Forum is so valuable; it brings together people like you, from so many perspectives and with such wide knowledge and experience. People that can drive the transition and not only adapt to it.



# Programme

## Wednesday, 09 November 2016

**12.00** Registration and opening of the exhibition area

**12.30** Opening Session

**Maria Krautzberger** · President, German Environment Agency

**Dr. Barbara Hendricks** · Federal Minister for the Environment, Nature Conservation, Building and Nuclear Safety, Germany

**Karmenu Vella** · European Commissioner for Environment, Maritime Affairs and Fisheries, European Commission (video message)

**Dr. Janez Potocnik** · Co-chair, UNEP International Resource Panel

*Chair:* **Dr. Harry Lehmann** · General Director, Division I “Environmental Planning and Sustainability Strategies”, German Environment Agency

**13.30** Key note: **Resource Efficiency – Potential and Economic Implications. Presentation of key findings of the new report by UNEP’s International Resource Panel**

**Paul Ekins** · Professor of Resources and Environmental Policy, Director, Institute for Sustainable Resources, University College London, member of UNEP International Resource Panel, United Kingdom

**14.30** Coffee break at the exhibition area

**15.00** Plenary session: **International perspectives for a resource efficient world**

**Kathleen Salyer** · Deputy Director of the Office of Resource Conservation and Recovery at the United States Environmental Protection Agency (U.S. EPA)

**Yoshinori Suga** · Deputy Director Waste Management and Recycling, Ministry of the Environment, Japan

**Peter Börkey** · Environment Directorate, Environment and Economy Integration Division, OECD, France

**Benedetta Dell’Anno** · Senior Policy Advisor TA Sogesid, Ministry for the Environment, Land and Sea, Italy

**Tim Kasten** · Deputy Director of UN Environment’s Economy Division

*Chair:* **Birgit Schwenk** · Head of Division European and International Aspects of Resource Efficiency, Raw Materials Policy, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Germany



**16.15 Plenary session: Transforming businesses – new business models**

**Tuuli Kaskinen** · Director, Demos Helsinki, Finland

**Cornelis T. van der Lugt** · Senior Associate, BSD Consulting, Switzerland; Senior Research Fellow, Stellenbosch University Business School, South Africa

**Jocelyn Bleriot** · Executive Officer, Ellen MacArthur Foundation, United Kingdom

**Prof. Dr. Jan J. Jonker** · Chair of Corporate Sustainability, Nijmegen School of Management, Radboud University, The Netherlands

*Chair:* **Dr. Martin Vogt** · Managing Director, VDI Centre for Resource Efficiency, Germany

**17.30 Get together, dinner at the exhibition area**

Speech by **Reinhard Kaiser**, Head of Section “Resource Efficiency and Soil Conservation”, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Germany

**Thursday, 10 November 2016**

**09.00 Key note: Humanity on the move – the transformative power of cities**

**Prof. Dr. Dirk Messner** · Director, German Development Institute, Co-Chair, German Advisory Council on Global Change WBGU

**09.45 Plenary session: Resource efficient land use within the rural urban nexus**

**Stephanie Wunder** · Senior Fellow, Ecologic Institute, Germany

**Marielle Dubbeling** · Director, RUAF Foundation-Global partnership on sustainable Urban Agriculture and Food systems, The Netherlands

**Helyn Clack** · Surrey County Council, President of Peri Urban Regions Platform Europe, United Kingdom

**Maruxa Cardama** · Executive Coordinator and Founder, Communitas Coalition, Belgium

*Chair:* **Dr. Inge Paulini** · Secretary-General, German Advisory Council on Global Change WBGU

**11.00 Coffee break at the exhibition area**

**11.30 Parallel session A: Best practice cases for the circular economy**

**Lisa Kossolobow** · Section III 1.1 “General Aspects of Product-related Environmental Protection, Sustainable Consumption, Innovation Programme”, German Environment Agency

**Fernando J. Burgaz Moreno** · General Director of the Food Industry, Ministry of Agriculture, Food and Environment, Spain

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**Cuno van Geet** · Senior Policy Expert, Ministry of Infrastructure and the Environment, The Netherlands

**Eric Darlot** · Engineer, French Agency for Environment and Energy Management, France

*Chair:* **Dr. Bettina Rechenberg** · General Director, Division III “Sustainable Production and Products, Waste Management”, German Environment Agency

**11.30 Parallel session B: European country initiatives for resource efficiency**

**Paweł Kazmierczyk** · Project manager resource efficiency and material flows, European Environment Agency, Denmark

**Dr. Loa Buchli** · Head of Section, Economics Section, Federal Offices for the Environment FOEN, Switzerland

**Andreas Tschulik** · Head of Division, Environmental Protection at Company Level and Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, Austria

**Lieze Cloots** · International Policy Unit, OVAM, Public Waste Agency of Flanders, Belgium

*Chair:* **Matthias Koller** · Head of Section I 1.1 “Fundamental Aspects, Sustainability Strategies and Scenarios, Sustainable Resource Use”, German Environment Agency

**11.30 Parallel session C: Sustainable resource use along the global supply chain**

**Marilyn Mehlmann** · Head of development and training, Global Action Plan (GAP) International, Sweden

**Dr. Fiona Solomon** · CEO, Aluminium Stewardship Initiative, Australia

**Ulrike Haupt** · Head of Division, Environment, sustainable use of natural resources, marine conservation and biodiversity, Federal Ministry for Economic Cooperation and Development, Germany

*Chair:* **Dr. Harry Lehmann** · General Director, Division I “Environmental Planning and Sustainability Strategies”, German Environment Agency

**11.30 Parallel session D: Advancing the idea of an international platform for resource governance (in cooperation with World Resources Forum Association)**

**Xaver Edelmann** · President, World Resources Forum Association, Switzerland

**Paul Ekins** · Professor of Resources and Environmental Policy, Director, Institute for Sustainable Resources, University College London, member of UNEP International Resource Panel, United Kingdom

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**Victoire de Margerie** · Vice-President, World Materials Forum, Nancy, France

**Bruno Oberle** · Professor, Institute of Technology and Public Policy, École polytechnique fédérale de Lausanne, Vice- President of the World Resources Forum Association, Switzerland

*Chair:* **Bas de Leeuw** · Managing Director, World Resources Forum Association, Switzerland

**13.00** **Lunch snack at the exhibition area**

**14:15** **Reports from parallel sessions**

**15.00** **Panel discussion: New impulses for a resource efficient Europe**

**Magda Stoczkiwicz** · Director, Friends of the Earth Europe, Belgium

**Karl Falkenberg** · Senior Adviser for Sustainable Development in the European Political Strategy Centre (EPSC), European Commission

**Werner Bosmans** · European Commission, DG Environment, Sustainable Production, Products & Consumption

*Chair:* **Dr. Harry Lehmann** · General Director, Division I “Environmental Planning and Sustainability Strategies”, German Environment Agency

**16.30** **Summary and closing**

*Chair:* **Dr. Harry Lehmann** · German Environment Agency

**17.00** **Get Together European & National Resources Forum 2016, dinner at the exhibition area**



## Sessions description

**Day 1**  
**12.30**

### Opening Session

#### Maria Krautzberger

President | German Environment Agency



Maria Krautzberger has been the President of the Federal Environment Agency since May 2014. Born in 1954 in Mühldorf am Inn (Upper Bavaria), she studied sociology and English at Munich University from 1973 to 1976 and administrative sciences at Constance University from 1976 to 1979. From 1980 to 1992, she held various positions at the municipality of Wuppertal, including as department head at the Office for Urban Development and Environmental Protection. She subsequently worked as Senator for the Environment of the Hanseatic City of Lübeck for six years and served as Deputy Mayor for a time during that period. Maria Krautzberger's last position was as Permanent Secretary in the Berlin Senate Department for Urban Development, where she was responsible for transport, environment, nature conservation and urban planning, among other issues, and involved in the introduction of Berlin's low-emissions zone.

#### Dr. Barbara Hendricks

Federal Minister | Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety



Barbara Hendricks has been the Federal Minister for the Environment, Nature Conservation, Building and Nuclear Safety since December 2013. Before that she served as the federal treasurer of the Social Democratic Party beginning in 2007. From 1998 to 2007 she was a Parliamentary State Secretary at the Federal Ministry of Finance. Since 1994 Barbara Hendricks, who has a doctorate in history, has represented her home district of Kleve in the German Bundestag. Prior to that she had gained political and professional experience working for the Deutsches Studentenwerk (National Association for Student Affairs) and in the administration of the Land North Rhine-Westphalia.

From 2001 to 2013 she was a member of the Executive Committee of the SPD. Barbara Hendricks was born on 29 April 1952 Kleve in the Lower Rhine region, where she still lives.

## Karmenu Vella

European Commissioner for Environment, Maritime Affairs and Fisheries | European Commission

Karmenu Vella is the European Commissioner for Environment, Fisheries and Maritime Affairs. He was born in Malta on June 1950. Mr Vella graduated in Architecture and Civil Engineering, and later obtained a Master of Science in Tourism Management from University of Sheffield. He was first elected to the Maltese Parliament in 1976 and was re-elected nine consecutive times. During his political career he has been appointed Minister for Public Works (1981–83), Minister for Industry (1984–87) and Minister for Tourism twice (1996–8 and 2013–14). Mr Vella had also held various senior posts in the private sector.



As European Commissioner Mr. Vella has been tasked with:

- » Protecting Europe's environment while maintaining competitiveness, including through the implementation of the circular economy action plan.
- » Conservation of our land-based and marine biological resources.
- » Implementing the new Common Fisheries Policy to put the EU firmly on the path of a sustainable fishing sector and fishing communities.
- » Defining, with our global partners, the management and governance of our planet's oceans.
- » Continuing to overhaul the existing environmental legislative framework to make it fit for purpose.

## Dr. Janez Potocnik

Co-chair | UNEP International Resource Panel

Dr. Janez Potocnik (1958) graduated from the Faculty of Economics at the University of Ljubljana, Slovenia (Ph.D. degree 1993). After a successful career starting in 1989 in Slovenia as a researcher at the Institute of Economic Research, Director of the Institute of Macroeconomic Analysis and Development (1994). He was appointed Head of Negotiating Team for Accession of Slovenia to the EU (1998). He was also Director of Government Office for European Affairs (2000), Minister Councillor at the Office of the Prime Minister (2001) and Minister responsible for European Affairs (2002). In 2004 he joined the European Commission, first as “shadow Commissioner for Enlargement and then as Commissioner responsible for Science and Research. In 2010 Dr. Potocnik became Commissioner for



Environment. His term ended on November the 1<sup>st</sup> 2014. In November 2014 he was appointed for a three-year term as a member and Co-Chair of International resource Panel hosted by United Nations Environment Programme. In the same month he was also appointed as a Chairman of The Forum for the Future of Agriculture and RISE Foundation and a Member of the European Policy Centre's Advisory Council.

## Dr. Harry Lehmann (chair)

General Director, Division I “Environmental Planning and Sustainability Strategies” | German Environment Agency

Since 2004, physicist Dr. Harry Lehmann is head of the division “Environmental Planning and Sustainability Strategies” of the German Federal Environment Agency. After working in the field of fundamental research in physics, he founded and owned 1984 the Engineering Consultancy “UHL Data” for systems analysis and simulation in the field of energy and environment. From 1990 until 1999 he was at the Wuppertal Institute for Climate, Environment and Energy. Then he founded and was Director of the Institute for Sustainable Solutions and Innovations, at that time he was also Director of Greenpeace International “Solutions Unit”. He was an early member of the Factor 10 Club for resource productivity and sustainable use of natural resources and is now the president of it. He is one of the founders of Eurosolar and was there the vice president from 2000 to 2006. Since 2011 he is executive Chairman of the World Renewable Energy Council and since 2014, he is a Board Member of the World Resources Association (WRA). Since 1985, Harry Lehmann has been lecturer – amongst others – at the University of Lüneburg.





## Keynote: Resource Efficiency – Potential and Economic Implications. Presentation of key findings of the new report by UNEP’s International Resource Panel

The new report from UNEP’s International Resource Panel (IRP) “Resource Efficiency: Potential and Economic Implications”, mandated by the Group of Seven (G7) nations to promote resource efficiency as a core element of sustainable development, makes a strong case for increasing resource efficiency globally.

The sustainable and efficient management of natural resources is now imperative for the achievement of at least 12 out of the 17 United Nations Sustainable Development Goals (SDGs). Hence, fostering and scaling-up resource efficiency is crucial to realising the socio-economic and environmental potential of the SDGs. Against this context, resource policy needs to tackle a variety of issues such as the availability of and access to material resources and their distribution, volatility and developments in resource prices, sustainable use and management of natural resources, as well as environmental impacts associated with resource extraction and use.

### Key Messages of the report:

- » With concerted action there is significant potential for increasing resource efficiency.
- » Resource efficiency can contribute to economic growth and job creation.
- » There are substantial areas of opportunity for greater resource efficiency.
- » Substantial increases in resource efficiency are essential to meet the Sustainable Development Goals (SDGs).
- » Improving resource efficiency is indispensable for meeting climate change targets cost effectively.
- » Increased resource efficiency is practically attainable.

## Paul Ekins

Professor of Resources and Environmental Policy and Director | Institute for Sustainable Resources, University College London; member of UNEP International Resource Panel, United Kingdom



Paul Ekins has a Ph.D. in economics from the University of London and is Professor of Resources and Environmental Policy and Director of the UCL Institute for Sustainable Resources at University College London. He also has extensive experience consulting for business, government and international organisations. Paul Ekins’ academic work, published in numerous books, articles and scientific papers, focuses on the conditions and policies for achieving an environmentally sustainable economy. His book *Economic Growth and Environmental Sustainability: the Prospects for Green Growth* appeared in 2000. He was also a Member of the European Resource Efficiency Platform and Vice-Chair of the previous European Environment Commissioner’s Expert Economists’ Group on resource efficiency. He is a member of UNEP’s International Resource Panel (IRP), and was the lead author of the IRP’s report on resource efficiency commissioned by the G7 governments and presented in Japan in 2016. In 1994 Paul Ekins received a Global 500 Award from the United Nations Environment Programme. In the UK New Year’s Honours List for 2015 he received an OBE for services to environmental policy.



## Plenary session: International perspectives for a resource efficient world

The global rise in material use, especially in emerging economies, the many interdependencies in today's international value chains, and the globalised production and consumption patterns require international approaches to improving resource efficiency. Positive signs of international exchange and action are already evident, for instance the Group of Seven (G7) nations, UNEP and the OECD.

The 2015 G7 summit in Elmau, Germany, sent out strong signals towards improving resource efficiency at the international level with the creation of the G7 Alliance on Resource Efficiency. The G7 Alliance serves as a voluntary forum to exchange best practices aiming to help governments, business and other stakeholders to make more informed decisions.

Furthermore, the G7 summit invited the UNEP International Resource Panel and the OECD to compile reports on potentials of resource efficiency, as well as policy guidance. The G7 decisions on resource efficiency have been further strengthened in 2016 under Japanese G7 Presidency with the adoption of the "Toyama Framework on Material Cycles".

The session will explore what next steps could and should be taken at the international level (e.g. in the G7, the G20, the OECD or the United Nations) in order to further strengthen resource policy development.



- » What next steps are needed at the level of the G7 to foster international resource policy?
- » How could international policy action and guidance help improve European resource policy?

### Kathleen Salyer

Deputy Director | Office of Resource Conservation and Recovery at the United States Environmental Protection Agency (U.S. EPA)



Kathleen Salyer is the Deputy Director of the Office of Resource Conservation and Recovery at the United States Environmental Protection Agency (U.S. EPA), a position she has held since January 2015. The Office is responsible for promoting resource conservation through sustainable materials management, ensuring safe management of solid and hazardous waste and cleaning up environmental contamination at hazardous waste management facilities. Kathleen leads efforts on Sustainable Materials Management, including wasted food, life cycle analysis, built environment, and sustainable packaging. She is actively engaged in the G7 Alliance on Resource Efficiency and collaborations with other international partners. Prior to her current position, Kathleen was an Assistant Director of the Superfund Program in U.S. EPA Region 9 in San Francisco, California. She has over 20 years' experience in environmental management. Kathleen has a BA in Geology from Whitman College and a Masters in Environmental Public Policy from University of Maryland, College Park.

### Yoshinori Suga

Deputy Director Waste Management and Recycling | Ministry of the Environment, Japan



Yoshinori Suga, Deputy Director of Office of Sound Material-Cycle Society, Ministry of the Environment, Japan, is working for international issues on waste management, the 3Rs (Reduce, Reuse and Recycling) and resource efficiency. He gained master degrees in Chemical Engineering, Geography and Planning from Tokyo Institute of Technology, Royal Holloway and UCL, respectively. After joining the Ministry of the Environment in 2006, he worked for a variety of environmental issues such as international issues on chemical management, environmental impact assessment, the Eco-Point Program, greenhouse gas emission inventory, and biodiversity (in the Fisheries Agency). Since last year, when he moved to the current position, he has participated in a series of workshops under G7 Alliance on Resource Efficiency, International Resource Panel meetings, and Working Party on Resource Productivity and Waste of OECD. He also supported G7 Toyama Environmental Ministers Meeting, which was held this May, for resource efficiency/the 3Rs issues.





## Peter Börkey

Environment Directorate | Environment and Economy  
Integration Division, OECD, France

Peter Börkey has been working on international and local environmental policy issues for more than 20 years. For the past 17 years he has worked for the OECD, primarily on issues relating to water, business and environment, as well as infrastructure finance. He is now leading OECD work on waste management and resource productivity, with a strong focus on resource efficiency and the circular economy.

Prior to this, Mr. Börkey has been leading OECD's cooperation with countries in Eastern Europe, Central Asia and the Caucasus in the area of water management, as well as leading work in the framework of the OECD Horizontal Water Programme focusing on the financing of water supply and sanitation in developing countries.

Before joining the OECD, Mr. Börkey worked as a consultant, specialized in environmental economics. Mr. Börkey holds degrees in Economics and Engineering from the Technical University of Berlin and University of Grenoble in France.



## Benedetta Dell'Anno

Senior Policy Advisor TA Sogesid | Department for  
Sustainable Development, International and European  
Affairs, Ministry for the Environment, Land and Sea, Italy

Degree at the University LUISS Guido Carli in Rome (cum laude), Faculty of International Political Science and Master's degree at the University of La Sapienza in Rome (fellowship), Faculty of Engineering – Department for Chemical Engineering and Raw Materials. Senior Policy Advisor at Ministry for Environment Land and Sea (from 2001 to date) DG for Sustainable Development – Division IV European Affairs. Representative of the IT Ministry for the Environment in coordination groups and task force: Environment Group of the EU Council (circular economy package); Informal Group of European experts on circular economy and resource efficiency; Expert Group of the European Commission for the Greening of the European Semester; Advisory Group of the European Commission (DG ENV) for the implementation of the Environmental Technologies Action Plan (ETAP), the Eco-innovation Action Plan (EcoAP) and the Circular Economy Action Plan; Alternate Sherpa in the European Platform for Resource Efficiency (2014). Speaker and panelist for G7 Alliance for Resource efficiency, moderator and rapporteur of several national, European and international meetings on resource efficiency and circular economy.



## Tim Kasten

Deputy Director | UN Environment's Economy Division

Tim Kasten is the Deputy Director of the UN Environment, Economy Division in Paris (formerly Division of Technology, Industry and Economics - DTIE). Over his 18+ years with the UN, he has served UN Environment as Head of the Chemicals Branch in Geneva, and in Nairobi in various leadership positions in the Ecosystems Division on natural resource management and also with the former Policy and Law Division. He began with UN Environment in 1998 with the Caribbean Environment Programme in Kingston, working to protect marine resources.

Before joining UN Environment in 1998, Tim spent 12 years with the United States Environmental Protection Agency (US EPA) in a variety of positions in Washington, DC, dealing with international policy issues; water regulation and management; and hazardous wastes. Prior to US EPA, Tim began his professional career as an agricultural extensionist in rural Guatemala. He studied biology as an undergraduate and at the graduate level, environmental resources management and public administration. In his 30+ years of professional experience in environment and development, his work has spanned from the grass-roots, to national, and regional and global international levels.



## Birgit Schwenk (chair)

Head of Division European and International Aspects of  
Resource Efficiency, Raw Materials Policy | Federal Ministry  
for the Environment, Nature Conservation, Building and  
Nuclear Safety, Germany

Birgit Schwenk, LL.M., leads the division for “European and International Aspects of Resource Efficiency, Raw Materials Policy” at the German Ministry for the Environment, Nature Conservation, Building and Nuclear Safety. She coordinates Germany's policies on resource efficiency at European and international level. In this role, she served as focal point on resource efficiency during Germany's G7 Presidency in 2015, developed the German National Programme for Resource Efficiency (ProgRess, 2012) and acted as Sherpa to the Federal Environment Minister in the European Resource Efficiency Platform (EREP, 2012–2014).

Birgit holds degrees in law and in international relations from the University of Edinburgh, the Humboldt University of Berlin and the Johns Hopkins University's School of Advanced International Studies (SAIS) in Bologna. She joined the Ministry in 2001 and has since held various positions in the areas of international environmental affairs, climate change negotiations and bilateral cooperation with developing countries.



## Day 1 16.15 Plenary session: Transforming businesses – new business models

Economic activities are both causes of and potential solutions for unsustainable resource use. There are an increasing number of businesses that shift from linear “take-make-use-waste” business models towards more circular ones. This includes improving resource efficiency, closing loops in cascading product chains as well as offering product-service-systems, and sharing concepts.

The reasons for such shifts in business models are manifold. They often include win-win expectations, such as reduction of economic risks from volatile resource prices, realization of input cost savings, and the expansion of market shares through offering new value propositions responding to emerging consumption trends.

On their path towards shifting business models, businesses face various obstacles, many of which are beyond their capacities to change. Hence, businesses need tailored support to overcome barriers and reduce risks associated with shifting to new business models in the context of resource efficiency.

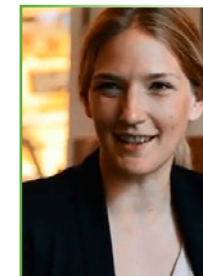
- » What factors/conditions facilitate or hinder business model shifts?
- » What can be learnt from examples of Finnish start-ups and the policy support provided on businesses transforming their business models?
- » What could European resource policy do to support businesses in shifting to more circular business models?



## Tuuli Kaskinen

Director | Demos Helsinki, Finland

Tuuli Kaskinen is executive director of Nordic think tank Demos Helsinki. In her work she has specialised in sustainable business strategies and inspirational routes to change. With over fifteen years' experience tackling the most important issue of our time – climate change – with companies, NGOs and governments, she's found systemic modelling and shared value thinking to be the key tools in the development of sustainable innovation. Work Experience: 2013 – Executive Director, Demos Helsinki; 2008–2012 Project Director, Demos Helsinki; 2007–2008 Climate Specialist at UN Association of Finland; 2002–2008 Policy Officer at Finnish Association for Nature Conservation, different projects, together 3 years; 1998–2014 Coordinator, campaigner and activist at NGO Dodo. Education: 1997–2008 Turku School of Economics, Master's degree, International Business.



## Cornelis T. van der Lugt

Senior Associate | BSD Consulting, Switzerland;  
Senior Research Fellow | Stellenbosch University Business School, South Africa

Dr. Cornelis T. van der Lugt is Senior Research Fellow with the Centre for Corporate Governance at Stellenbosch University Business School, Cape Town, South Africa, and Senior Associate at BSD Consulting, Zurich, Switzerland. He has over 20 years of experience working at international level in the field of sustainability standards. As former representative of the UN Environment Programme and UN Global Compact he was deeply involved in developing industry initiatives and guidance standards such as the GRI and ISO 26000. His work has included developing guidance for managers and benchmarking reports on good practices with partners such as SustainAbility, Standard & Poors, KPMG and the World Resources Institute. From 2009–2011 he was Coordinator of UNEP's Resource Efficiency Subprogramme, which includes the work of the International Resource Panel. He continues to contribute to international research publications, consults and provides executive education in the area of strategy and sustainable finance. He holds a PhD from Stellenbosch University and MBA from the Haute Ecole de Commerce (HEC, Paris).





## Jocelyn Bleriot

Executive Officer | Ellen MacArthur Foundation, United Kingdom

Jocelyn Blériot, head of editorial and public affairs at the Ellen MacArthur Foundation, has an academic background drawing focus on literature, philosophy and sociology. Having spent most of his career in the media industry as a journalist and editor, he notably develops written and video content, coordinates the production of reports and edits books produced by Ellen MacArthur Foundation Publishing. He represented the Foundation on the European Resource Efficiency Platform (European Commission) and manages the relationship with EU institutions.



## Prof. Dr. Jan J. Jonker

Chair of Corporate Sustainability | Nijmegen School of Management, Radboud University, The Netherlands

J. (Jan) Jonker is professor of Sustainable Entrepreneurship at the Nijmegen School of Management at Radboud University Nijmegen (The Netherlands). For the past two years he also held the Chaire Pierre de Fermat in Toulouse (France). In his home country he has been listed for seven years in a row among the Top-100 most influential 'Green' Dutch people. His research focuses on transformational trends in society, the development of (new) business models and how these developments are related to organisational change and societal transition. His approach is often based on crowdthinking, which implies engaging with large groups of people in specific research projects in order to explore and possibly solve issues as a collective endeavour. As a consequence many people consider him a kind of 'academic activist', wanting to create change and to have impact. He did a TEDx in 2015 on the central concepts he is working, which you can see at: [bit.ly/1DJRV8i](https://bit.ly/1DJRV8i). He is author of over 30 books among which the 2014 bestseller on New Business Models, now also available as an ebook in English. More and more he now focuses on a new generation of business models for the circular economy.



## Dr. Martin Vogt (chair)

Managing Director | VDI Centre for Resource Efficiency, Germany

Martin Vogt holds a degree in Physics from the Humboldt University Berlin and a PhD from the University of Cambridge. From 2004 to 2006 he was a postdoctoral research fellow at Harvard University. From 2007 to 2012 he worked as a technology consultant at the VDI Technology Centre in Düsseldorf, where he coordinated the National Contact Point Nanotechnology for the 7th EU Framework Programme for Research on behalf of the German Federal Government. Since 2011 he also works at the VDI Centre for Resource Efficiency, a competence centre of the German Association of Engineers (VDI) focussing on promoting resource efficient technologies and processes in small and medium sized businesses. The Centre is mainly financed by the National Climate Initiative of the German Federal Ministry for the Environment. Since October 2013 Mr. Vogt is the Managing Director of the Centre.





## Keynote: Humanity on the move – the transformative power of cities

Today, over half of mankind lives in cities. This share could grow up to two thirds by 2050 with then some 6.5 billion urban dwellers, mostly taking place in emerging economies in Asia and Africa (where almost 90% of urban-population growth up to 2050 is expected). Cities are responsible for a disproportionately high percentage of green-house-gas emissions – more than two thirds globally. Thus, the power of this urbanization surge will be the key driver of global change in the 21<sup>st</sup> century. At the same time, cities are particularly hard hit by the consequences of global warming.

The momentum of urbanization and its impacts are so massive that we must face up to this trend. In view of the existing cognitive, technical, economic and institutional path dependencies, a policy of business as usual – i.e. an unstructured, quasi-automatic urbanization – would lead to a non-sustainable ‘world cities society’. Only if cities and urban societies are sufficiently empowered can they make use of the opportunities for sustainability and successfully follow the urban transformation pathways. The success or failure of the Great Transformation towards sustainable development will be decided in the cities. The keynote will discuss the relevant conditions for the success of this transformation.

### Key Messages of the report:

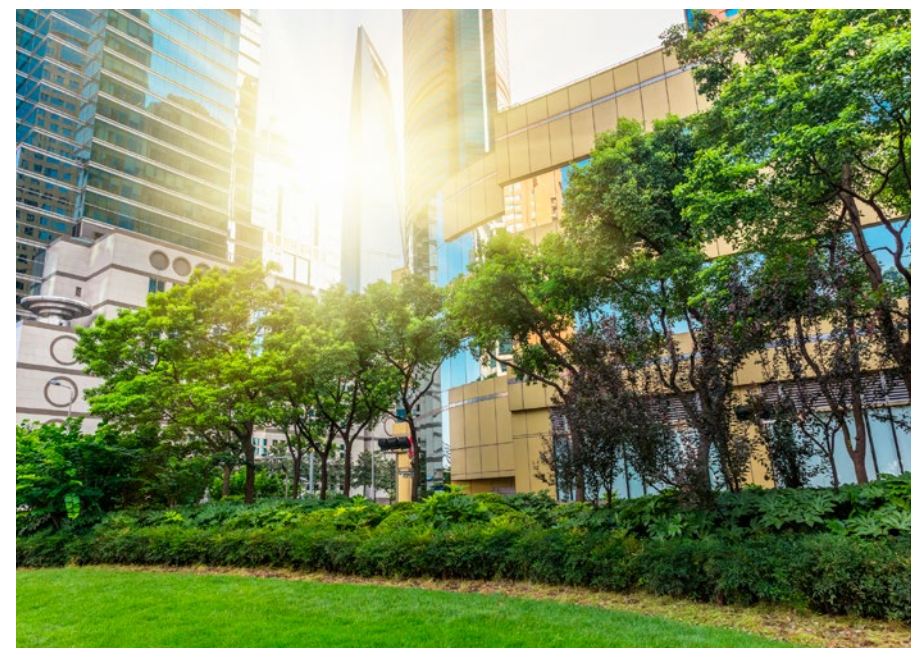
- » To achieve the urban transformation towards climate compatibility, direct CO<sub>2</sub> emissions in cities must be cut to zero and the demand for energy contained in order to make the global energy transformation towards CO<sub>2</sub>-emissions-free energy systems possible.
- » If the expansion of urban infrastructure has a CO<sub>2</sub> footprint that is similar to that of the current infrastructure of cement, steel and aluminium in industrialized countries, the construction of new infrastructures in developing countries and emerging economies alone could lead to 350 Gt of CO<sub>2</sub> emissions.
- » Low-carbon building materials are needed for the new cities and city districts, since steel, cement and concrete are drivers of global warming. In China alone, more cement was used in the three years from 2008 to 2010 than in the entire 20th century in the USA.

## Prof. Dr. Dirk Messner

Director | German Development Institute;  
Co-Chair | German Advisory Council on Global Change WBGU



Prof. Dr. Dirk Messner has been Director of the “German Development Institute/Deutsches Institut für Entwicklungspolitik (DIE)” since 2003. He is also Co-Director of the “Käte Hamburger Kolleg/Centre for Global Cooperation Research”, University Duisburg-Essen. Based on his research, Dirk Messner is engaged in high-ranking policy advisory councils. For example, he is Co-Chair of the “German Advisory Council on Global Change” (“Wissenschaftlicher Beirat der Bundesregierung Globale Umweltveränderungen” (WBGU)) and of the „Sustainable Development Solutions Network Germany” (SDSN). He is also member of the “China Council on Global Cooperation on Development and Environment” (CCICED). His work areas focus on Global change and Sustainable Development, Transformation towards the Decarbonisation of the global Economy, Global Governance and International Cooperation.



## Day 2 09.45 Plenary session: Resource efficient land use within the rural urban nexus

Resource efficient land use as well as sustainable urban development are high on the international, European and regional political agenda. However, both topics are largely still discussed separately from each other and silo thinking prevails. Against the background of a rapidly increasing number of people living in cities and the implications this has on land use an integrated perspective is now needed more than ever.

Challenges and opportunities of an integrated territorial development lie in the reduction of impacts resulting from additional land use for buildings and infrastructure, the establishment of regional resource and nutrient cycles, provision of resources for growing cities and improvement of resilience and social coherence.

A particularly powerful topic that recently receives rising attention in many regions worldwide is the development of city-region-food-systems. Food can serve as a core topic for building coalitions and to find integrated solutions for rural-urban-development.

- » What makes the rural-urban nexus and integrated territorial development so relevant for reaching the goal of global sustainable land use?
- » How are rural and urban areas (currently) interconnected? What are key actors, subsystems, structures and institutions?
- » What are the challenges and opportunities for a more integrated development of urban and rural areas?



## Stephanie Wunder

Senior Fellow | Ecologic Institute, Germany

Stephanie Wunder works on the sustainable use of land and biomass for energy, feed, and food and the transition towards sustainable food systems. She also works on the question how social innovations can contribute to sustainability transformations.



As part of her research on sustainable land use, she currently leads the project “Rural Urban Nexus – Global Sustainable Land Use and Urbanization” and “Implementing the Sustainable Development Goals for Soil”. She also worked on international land use governance and the impact of urban policies on land use within the GLOBALANDS project that was finalized in 2015.

Additionally, her work increasingly focuses on transition processes towards more sustainable societies and the accompanying behavioral changes, particularly dietary changes and the reduction of food waste. For the EU project “Resource Efficient Food and Drink for the Entire Supply Chain” (REFRESH) that runs until 2019, Stephanie coordinates the overall project communication and dissemination work and is responsible for developing policy recommendations. She also leads the project “From Niche to mainstream – How to spread sustainable practices” that develops an evaluation system to highlight the contribution of civil society initiatives towards sustainability and sustainability transformations. Stephanie Wunder frequently teaches for different international University programs.

## Marielle Dubbeling

Director | RUAF Foundation-Global partnership on sustainable Urban Agriculture and Food systems, The Netherlands

Marielle Dubbeling is the Director of RUAF Foundation-Global partnership on Sustainable Urban Agriculture and Food Systems ([www.ruaf.org](http://www.ruaf.org)). She has over 15 years' of experience of working in the fields of urban and peri-urban agriculture and city region food systems. Her main fields of expertise are multi stakeholder dialogue and communication, action planning and policy advocacy and design; the integration of urban agriculture and food systems into land use planning, city development and sectoral urban policies (food security, economic development, climate change) and participatory learning and training (training of trainers, NGO and government staff). She has working experience in Latin America,





South-East Asia, South East and Francophone Africa, the Middle East and Europe. Marielle was part of the Technical team supporting the City of Milan in development of the Milan Urban Food Policy Pact, has supported different international and local organisations on the integration of urban agriculture and food systems in their institutional programmes and projects and has authored a large number of books, research papers, policy briefs and articles on the topic.

## Helyn Clack

Surrey County Council; President | Peri-Urban Regions Platform Europe, United Kingdom

Helyn Clack is one of 81 directly elected County Councillors in Surrey, and one of 58 Councillors belonging to the majority Conservative Party group. She was first elected in 2002 and has held a series of cabinet posts and responsibilities including Transport & Highways, the 2012 London Olympics and the Magna Carta celebrations of 2015.



Helyn has been President of the Peri-Urban Regions Platform Europe (PURPLE) network since late 2014. She is a frequent contributor to European level events and debates, and has worked with her political Executive Board colleagues as well as officers from over a dozen different PURPLE member regions to promote and explain the peri-urban message. In particular she has been much involved in deliberations as regards the Urban Agenda, the territorial dimension of EU policy and debates over EU funding structures.

In Surrey, Helyn currently holds the portfolio for Wellbeing and Health having previously had responsibility for Communities and Culture. Helyn has represented the ward of Dorking Rural since first being elected and, as well as being a County Cabinet member, sits on the Mole Valley Local Committee.

## Maruxa Cardama

Executive Coordinator and Founder | Communitas Coalition, Belgium

Passionate practitioner of the territorial approach to sustainable development, Maruxa Cardama's 14-year experience spans strategic policy analysis & advocacy, multi-stakeholder partnerships, multi-level governance and capacity building initiatives with multilateral institutions and with national and subnational governments from



both developed and developing countries. Regular public speaker, analyst and writer, Maruxa is Founder and Coordinator of Communitas; a multi-stakeholder coalition advocating for sustainable urban development and facilitating the input of urbanisation practitioners into United Nations intergovernmental processes. Besides, Maruxa is Associate Fellow at the Tellus Institute, involved in its Great Transition Initiative. Earlier Maruxa run nrg4SD, an international organisation of subnational governments, and in 2010–2012 co-facilitated the engagement of subnational and local authorities in the UN Rio +20 Conference. In 2014 Maruxa served as Co-Chair of the Drafting Committee of the 65th Annual Conference for NGOs of the UN Department for Public Information. Previously she was Deputy Director at the Representation of the South West of England to the European Union (EU), where she led on the sustainability portfolio for a partnership of regional authorities, academia and the private sector.

## Dr. Inge Paulini (chair)

Secretary-General | German Advisory Council on Global Change WBGU, Germany

Inge Paulini is Secretary-General of the German Advisory Council on Global Change (WBGU) since 2009. Her special interests are strategies for political and societal changes which lead to transformational changes towards sustainable development, and how research can support such developments.



From 1993–2008, Dr. Paulini worked for the Umweltbundesamt (UBA, German Federal Environment Agency) on topics ranging from health related environmental topics and evaluation of impact assessment and life cycle analysis via environmental impacts of and risk management for chemicals to strategies for sustainable development and information, including resource efficiency and instruments for environmental protection. During her time in the UBA, she first worked as research analyst, then as head of section and finally as head of department. Dr. Paulini holds a diploma in nutrition, a Master of Science in nutrition and a doctorate in biology. She is member of a number of scientific advisory boards to institutions and to programmes.





## Parallel session A: Best practice cases for the circular economy

Different European countries have already implemented policy support to help business and citizens use resources more efficiently and generate less waste. Examples include the Spanish Strategy “More Food, Less Waste”, which proposes actions across businesses in agriculture, retail, and households to prevent or minimise food waste generation.

With government expenditure on works, goods, and services accounting for some 14% of the EU’s GDP, experience from the Netherlands with fostering procurement of resource efficient and circular products and services in Dutch public institutions will provide relevant lessons learnt for European resource policy to foster resource efficient consumption.

Focusing on businesses, experiences in France and Germany with improvements in resource efficiency, product processes and product design show options as well as the necessary conditions for the effective support of resource efficient design and production.

Despite their dependence on specific national contexts, there may be similarities in what makes these national examples work. Hence, identifying overarching success factors can enable European resource policy to foster the transfer and uptake of such examples across Europe.

### Titles of session contributions:

- » Title presentation Mrs. Kossolobow: “German Federal Ecodesign Award: one option to incentivise resource efficient design in Germany”
- » Title presentation Mr. Moreno: “The Spanish Strategy “More food, less waste”: a platform to reduce food loss and waste”
- » Title presentation Mr. van Geet: “Fostering resource efficiency through public procurement – the case of Dutch Circular Procurement action” (tentative)
- » Title presentation Mr. Darlot: “Building up the business case for resource efficiency”

### Lisa Kossolobow

Section III 1.1 “General Aspects of Product-related Environmental Protection, Sustainable Consumption, Innovation Programme” | German Environment Agency



Lisa Kossolobow studied environmental science at the Leuphana University of Lüneburg. Since joining the German Environment Agency in 2012, she is concerned with general aspects of product-related environmental protection and sustainable consumption. She coordinated the German Federal Ecodesign Award, which was launched in 2012 by the Federal Environment Ministry and the German Environment Agency. The competition welcomes the submission of all types of environmentally friendly alternatives and ideas and recognises innovative products and concepts that embody high ecological and aesthetic aspirations. Since 2015, she coordinated the EU Project ‘Ecodesign Circle’ (Ecodesign as Driver of Innovation in the BSR) co-financed by the Interreg Baltic Sea Region Programme, which aims increased capacity of design centers, professionals and lecturers in ecological design.

### Fernando J. Burgaz Moreno

General Director of the Food Industry | Ministry of Agriculture, Food and Environment, Spain



2012 to present. Responsible, as Director General for Food Industry in the Spanish Ministry of Agriculture, Food and Environment, of the following tasks:

- » Development of policies for reducing food waste.
- » Quality control of food, animal feed, and means of production.
- » Monitoring of food consumption and development of food promotion institutional campaigns.
- » Control and promotion of food quality certification and quality marks (Designations of Origin and Geographical Indications).
- » Coordination and management of the National Reference Laboratories for food control and official testing.
- » Monitoring and controlling the fair functioning of the food supply chain.
- » Promotion of structuring and integration of agricultural sector. Promote strengthen farmers’ position in the food supply chain.
- » Promotion of cooperatives and interbranch organizations.
- » Presidency of the Spanish Observatory on the Food Supply Chain.
- » Vice-Chairman of the Spanish Agency for Information and Food Control.

2002 to 2012. Director of the National Agricultural Insurance Entity. Spanish Ministry of Agriculture Food and Environment.



## Cuno van Geet

Senior Policy Expert | Ministry of Infrastructure and the Environment, The Netherlands

Cuno van Geet is a senior policy expert on sustainable procurement and the Circular Economy at Rijkswaterstaat and consults the Ministry of Infrastructure and the Environment on sustainable procurement policy at EU and UN expert groups. He has a background in international development sciences and has worked on sustainability, energy and innovation policies at local and national governmental organizations and as a consultant in UN and EU-projects. As of 2007 he has been involved in Sustainable Procurement, specifically in the infrastructure, circular procurement and new business models. He's the project lead for the Netherlands of the EU Life+ project REBUS on Resource Efficient Business models and project lead of the UNEP working group that focuses on innovation on Resource Efficient business models and the Circular Economy.

The main driver in his work is strengthening relations between practice, policy and people who can form alliances to drive the changes and convert pilots into a transition.



## Eric Darlot

Engineer | French Agency for Environment and Energy Management, Business and eco-technology department, France

Eric Darlot works as an engineer on business environmental practices at the business and eco-technology department of ADEME. He was working of plastic recycling and business wastes. Now he is focused on the monitoring an animation of ADEME's corporate strategy concerning companies across ADEME's national and regional departments on all subjects; ADEME's partnerships with professional organizations (such as UIC or CGPME) and consular chambers (Chambers of commerce and industry and Chamber of Artisanal Crafts), development (and deployment) of a fast track audit on resource efficiency for SMEs and ADEME's business case for resource efficiency through case studies. Furthermore, he works on marketing of ADEME's global offering to businesses.



## Dr. Bettina Rechenberg (chair)

General Director, Division III "Sustainable Production and Products, Waste Management" | German Environment Agency

Dr. Bettina Rechenberg works as head of division "Sustainable Production and Products, Waste management" at the German Environment Agency (Umweltbundesamt). She studied biology and has worked at the Umweltbundesamt since 1992 gaining experiences in chemical safety and water protection. From 2011 to 2015 she headed the department "Sustainable production, resource conservation, material cycles". She is dealing with the analysis of environmental effects linked to raw material extraction, industrial production, consumption, waste management and the use of recycling materials and is searching for sustainable and practicable solutions to reduce the environmental burden.



## Parallel session B: European country initiatives for resource efficiency

In order to support businesses and citizens in improving resource efficiency and closing material loops, Member States and further European countries use a variety of approaches, ranging from voluntary to regulatory measures.

While only a few countries put dedicated material resource efficiency policy strategies in place (e.g. Austria, Finland and Germany), there are numerous other policy initiatives in place tackling resource use (see the recent EEA study “More from less – material resource efficiency in Europe”). In many countries, these initiatives mainly relate to waste management (with particular focus on plastic and packaging, construction and demolition waste, and food waste), as well as waste prevention, and recycling initiatives. Some initiatives also encompass increasing the use of secondary raw materials.

Other European countries and regions, such as Austria, Switzerland and Flanders, take a more holistic view on resource efficiency. For instance, in its recent further development of the 2013 Green Economy Action Plan, Switzerland proposes action not only on waste, but also on raw materials, on consumption and production, and on crosscutting instruments to improve dialogue with business, science and society to increase and consolidate the knowledge base on sector-specific approaches.

### Titles of session contributions:

- » Title presentation Mr. Kazmierczyk: “Resource efficiency in Europe – overview of approaches to material resource efficiency and circular economy in thirty two European countries”
- » Title presentation Mrs. Buchli: „Living within the planet’s limits – Swiss measures for a Green Economy”
- » Title Mr. Tschulik: „RESET (Resources.Efficiency.Technologies) – a new programme to boost resource efficiency in Austria”
- » Title Mrs. Cloots: “From waste policy to circular economy. Policy developments and good practices in Flanders”

### Paweł Kazmierczyk

Project manager resource efficiency and material flows | European Environment Agency, Denmark

Paweł Kazmierczyk is a project manager responsible for work on resource efficiency and material flows at the European Environment Agency in Copenhagen. Since starting at the EEA in 2002, he co-authored EEA reports: More from less – material resource efficiency in Europe; Progress on resource efficiency and decoupling in the EU-27; Thematic assessment on material resources and waste 2012; Resource efficiency in Europe – Policies and approaches in 31 EEA member and cooperating countries; Sustainable consumption and production in South East Europe and Eastern Europe, Caucasus and Central Asia – Joint UNEP-EEA report on the opportunities and lessons learned; Sustainable use and management of natural resources.

Prior to joining the EEA, Paweł worked on cleaner production programs in Latin America (with the UN Industrial Development Organization) and on various business and environment programs in Eastern Europe (at the Regional Environmental Center for Central and Eastern Europe).

Polish by nationality, Paweł holds degrees in environmental engineering from Poland, in environmental management from the Netherlands, and in international relations and economics from the United States.



### Dr. Loa Buchli

Head, Economics Section | Federal Offices for the Environment FOEN, Switzerland

Dr. Loa Buchli is Head of the Economics section of the Swiss Federal Office for the Environment (FOEN) since January 2010. The section works on issues concerning the green economy (including the development of footprint indicators for measuring progress), the economic efficiency of environmental policy, the economic value of environmental capital, and on the development and implementation of market-based and financial instruments, sustainable finance. Previously, Loa worked for the Swiss Federal Statistical Office and the ETH Zurich, among others. Her competences include economic evaluation of natural capital; green economy; natural resources management.

She holds a PhD in Environmental Economics from the Università della Svizzera Italiana, a MSc. in Environmental and Resource Economics from the University College London and an economics degree from the University of Fribourg.





## Andreas Tschulik

Head of Division, Environmental Protection at Company Level and Technology | Federal Ministry of Agriculture, Forestry, Environment and Water Management, Austria

Andreas Tschulik studied Physics at the Technical University of Vienna. Since 1989 he is working in the Austrian Ministry for Agriculture, Forestry, the Environment and Water Management. He is head of division for environmental management and technology, being responsible for Austrian and EU Ecolabel, Ecodesign, EMAS, green public procurement, green jobs and environmental technology issues.



## Lieze Cloots

International Policy Unit, OVAM, Public Waste Agency of Flanders, Belgium

Lieze Cloots is responsible for the International Policy Team at OVAM, the Flemish Waste Agency. She works mainly on circular economy topics and is currently Belgian lead for the European package on circular economy. The Flemish Waste Agency introduced a mix of policy instruments for waste management that turned Flanders into an EU top recycling region. In addition, Flanders has gained considerable experience on the shift from waste policy to a circular economy, with the Flemish Materials Program that combines long term visions, actions on the field and support for innovative entrepreneurs, in a multi-stakeholder approach. The Flemish Materials Program won the Circularity award at the World Economic Forum in January 2016. Previously Lieze Cloots was Policy Director at Bond Beter Leefmilieu, the federation of 140 Flemish environment and nature NGO's. Lieze Cloots held a function as advisor to the Belgian Environment Minister. She has over 16 years of experience in environment and sustainable development policy.



## Matthias Koller (chair)

Head of Section I 1.1 “Fundamental Aspects, Sustainability Strategies and Scenarios, Sustainable Resource Use” | German Environment Agency

His Main activities and responsibilities include

- » Lead of the unit I 1.1 “Fundamental Aspects, Sustainability Strategies and Scenarios, Sustainable Resource Use”
- » Fundamental aspects and concepts of sustainability and environmental policies
- » Development of strategies for the sustainable use of natural resources
- » Transformation and transition strategies, Models of Change
- » Strategic foresight and horizon scanning in the field of sustainability policies
- » Representation of the Federal Environment Agency in national and international panels and committees

Matthias Koller holds a chemical engineering degree of the TU Berlin.

In his earlier professional life he worked as an Administration Officer in the Ministry of Economic Affairs of the state Brandenburg and as a Researcher at Centre for Environmental Studies at the University of Potsdam.



## Parallel session C: Sustainable resource use along the global supply chain

Global use of resources fulfils various important functions: from satisfying needs for food and shelter to providing input into economic activities. The United Nation's Sustainable Development Goals (SDGs) reflect this; for instance, SDG #8 focuses on socio-economic dimensions of resource use (Decent Work and Economic Growth) and SDG #12 on fostering environmentally sound and responsible consumption and production patterns.

In today's globalised world, supply chains have become very complex and link numerous actors from different countries in ways difficult to transparently understand. In such complex supply chains, the meaning of sustainability will vary from stage to stage and from country to country, depending on the views and power of stakeholders involved.

From the perspective of the Sustainable Development Goals (SDGs), global partnership (SDG #17) is needed to ensure that the resource needs of less powerful stakeholders are satisfied along global supply chains in a globally fair share.

In this context, the sustainable sourcing of raw materials, such as Aluminium, is a case in point. Particularly needed for the transport, construction and electrical engineering sectors and fulfilling demands of the global rich. A great amount of Aluminium is sourced from different countries (e.g. Australia, China, India) under hugely different social and environmental conditions.

### Titles of session contributions:

- » Title presentation Mrs. Mehlmann: "Living SDGs: Organs in a Healthy Body"
- » Title presentation Mrs. Solomon: „Supply chain cooperation in Aluminium production, sourcing and stewardship – experiences from the Aluminium Stewardship initiative"
- » Title Mrs. Haupt: „Resource efficiency around the world - supporting sustainable resource use in development cooperation"

## Marilyn Mehlmann

Head of development and training | Global Action Plan (GAP) International, Sweden

Marilyn Mehlmann was General Secretary of Global Action Plan International 1995–2016. She is a Vice-President of the Union of International Associations (UIA).

From a base in Stockholm she has worked in more than 20 countries to empower people and organizations to take action for sustainable development. She was awarded the Rachel Carson Prize 2011–2012 "for her long-term efforts to involve individuals, companies and NGOs in acting sustainably". She regularly speaks and lectures at events including TEDx talks and keynotes at the World Resources Forum.

Ms. Mehlmann's experience combines backgrounds in psycho-synthesis, empowerment and action research to co-create new methods and tools for personal and professional development.

Ms. Mehlmann is a member of several advisory boards. She has worked with action research at the Swedish Centre for Working Life; and was a management consultant for several decades. She is the author and co-author of numerous publications.



## Dr. Fiona Solomon

CEO | Aluminium Stewardship Initiative, Australia

Fiona joined the Aluminium Stewardship Initiative (ASI) as Executive Director/CEO in March 2015. She is responsible for the development of ASI as a legal entity with a formal membership and governance structure, and the technical development of the ASI assurance model and supporting systems for a working independent certification platform, which is anticipated to be launched in late 2017.

Fiona's career has specialised in growing new and innovative initiatives in mineral supply chains. She was previously Director – Standards Development at the Responsible Jewellery Council for seven years, where she developed a certification program for precious metals and diamonds that has been adopted by more than 700 companies from mine to retail. She has served as a Board Member of the ISEAL Alliance and a founding member of the OECD's Multi-Stakeholder Steering Group for responsible mineral supply chains. Previously, Fiona





worked for ten years at Australia's national research institution, CSIRO, leading research into mining and sustainability. During that period she was also seconded to WWF for two years to manage the world's first major project on mine-site certification.

She has a Bachelors degree (Hons 1) in mechanical engineering and a PhD in philosophy of technology, both from the University of Queensland, and is a Member of the Australian Institute of Company Directors (MAICD).

## Ulrike Haupt

Head of Division, Environment, sustainable use of natural resources, marine conservation and biodiversity | Federal Ministry for Economic Cooperation and Development, Germany

Ulrike Haupt has been Head of the division for Environment, sustainable use of natural resources, marine conservation and biodiversity at the Federal Ministry for Economic Cooperation and Development (BMZ) since 2013. Previously, she was Head of the division for Regional Development Policy Africa as well as for Private Sector Cooperation. As such, she was responsible for the cooperation with the Regional Economic Communities in Africa and the Commission of the African Union as well as the implementation of the BMZ Public Private Partnership Programme and the conceptualization of private sector support policies.

She has been working in BMZ since 1988 in various positions. Her responsibilities included the coordination of bilateral development cooperation with Sri Lanka, and the conceptualization of development cooperation for vocational education and training. She also spent a period in the press division. Her work experience abroad includes serving at the German Embassy in Bangkok and representing the German Government at the African Development Bank.

Ulrike Haupt began her professional career working in banking before she completed her master's degree in economics.

## Dr. Harry Lehmann (chair)

General Director, Division I "Environmental Planning and Sustainability Strategies" | German Environment Agency

For CV see page 11.



Day 2  
11.30

## Parallel session D: Advancing the idea of an international platform for resource governance (in cooperation with the World Resources Forum Association)

Increasingly international value chains in the wake of globalised production and consumption patterns contribute to spreading westernised lifestyles and associated resource use.

With resource demand skyrocketing, international cooperation becomes ever more important to tackle issues of fair and just access to resources as well as for the implementation of the Sustainable Development Goals (SDGs). While G7 has put increasing resource efficiency on its agenda and aims to step up exchange between developing and industrialised countries, there is no explicit focus on resource governance or needed exchange on governance regimes.

Hence, an international platform for resource governance appears needed in order to provide guidance on questions of use rights, conflict resolution, and promising governance mechanisms.

- » How do use rights and governance conflicts affect resource policy and circular economy?
- » What could an international resource governance platform look like? How could it be developed?





## Xaver Edelmann

President | World Resources Forum Association, Switzerland

Dr. Xaver Edelmann studied Physics at the Swiss Federal Institute of Technology in Zurich, Switzerland from 1968 to 1973 and received his PhD there in Technical Sciences in 1985. From 1974 he worked as a research and development scientist at Sulzer Brothers Limited Winterthur, Switzerland, where he later assumed the position as the Head of Nondestructive Testing at the Corporate Research Department. Additionally he became the Head of Technical Physics and finally the Head of the Department of Applied Sciences. In 1986, he was awarded with the Berthold Award of the German NDT Society for outstanding contributions in the field of nondestructive testing. Since 1991, he has been a member of the Executive Board of Directors at the Swiss Federal Laboratories for Materials Testing and Research, Empa, where he was the Head of the Information, Reliability and Simulation Technology Department and in addition was responsible for the Energy Research Program. Between 1991 and 2001 he was also a lecturer for technology at the University of St. Gallen, Switzerland. Furthermore from 1996 to 2005 he was President of the Swiss Association for Standardization SNV and he is an Honorary Member of SNV. From 2001–2012 he was President of the Swiss Federal Commission for Metrology. Since 2003 Dr. Edelmann has been the President of the Swiss Association for Quality and Management Systems, SQS as well as President of the Executive Board of Association Micro- and Nano-Technology of the Euregio Lake of Constance. He is a Member of the Swiss Academy of Engineering Sciences, SATW and Head of the topical platform “Resources and Sustainability”. Dr. Edelmann is the founder and current President of the World Resources Forum, WRF.



## Paul Ekins

Professor of Resources and Environmental Policy and Director | Institute for Sustainable Resources, University College London; Member of UNEP International Resource Panel, United Kingdom

For CV see page 13.



## Victoire de Margerie

Vice-President | World Materials Forum, Nancy, France

Prof. Victoire de Margerie started her career in 1986. She held various Business Development, Plant and Business Unit Management roles at Atochem (fine chemicals), CarnaudMetalbox (packaging) and Péchiney (aluminum and packaging) in France, Germany & the USA until 2002. She then became a Professor of Strategic Management at Grenoble School of Management (2003–2011). Since 2012, she is the majority shareholder and Chairman of Rondol Industrie (small scale machinery). She is also the Vice Chairman of the World Materials Forum as well as a Board Director at Arkema (France), Babcock International (UK), Eurazeo (France) and Italcementi (Italy, now a subsidiary of the German group Heidelberg). Prof. de Margerie graduated from HEC Paris and Sciences Po Paris and holds a PhD in Management Science from Université de Paris 2, Panthéon Assas.



## Bruno Oberle

Professor | Institute of Technology and Public Policy, École polytechnique fédérale de Lausanne; Vice-President | World Resources Forum Association, Switzerland

Bruno Oberle has investigated and shaped the interface between environmental policy, economic development and social balance from the perspective of the state regulator, acting as an entrepreneur and also as a scientist. He has dealt with both sectoral and national issues, working at the highest level of international policymaking.

Mr. Oberle studied environmental science at ETH Zurich where he was awarded a doctorate, and also pursued studies in economics and mediation science. Following graduation, he founded and headed up environmental consultancy and environmental management businesses. In 1999, Bruno Oberle was appointed Deputy Director of the Federal Office for the Environment, Forests and Landscape and in 2005 Director of the newly established Federal Office for the Environment.

Starting in 2005, he represented Switzerland in leading international institutions and international negotiations as Secretary of State for the Environment. He performed mediation tasks on a number of occasions, especially on matters concerning the financing of international policies.



Since 2016, Bruno Oberle has been Professor of Green Economy and Resource Governance at the EPFL. He also heads up the IRGC, the International Risk Governance Center at that same university. His work focuses on the transition to a society which generates greater benefits with less natural resources, thus respecting the limits of our planet.

## Bas de Leeuw (chair)

Managing Director | World Resources Forum Association, Switzerland

Bas de Leeuw is Managing Director of the World Resources Forum (WRF), based in Switzerland. Before joining the WRF in 2011 he was Executive Director of the Donella Meadows Institute, Vermont and USA. Bas has been a diplomat for the United Nations Environment Programme (UNEP), Paris, France, from 1998 to 2009, where he set up and managed global initiatives such as the Marrakech Process on Sustainable Consumption and Production, the International Life Cycle Panel (ILCP), and the International Resource Panel (IRP). He served as Head Strategy Unit and Head Integrated Resource Management, and was Head of the Secretariat of both the ILCP and the IRP. Bas has also worked as a national expert for the OECD, for which he drafted a policy document on sustainable consumption policies.

Bas de Leeuw is a Dutch economist from the Rotterdam Erasmus University and has held various positions in the Dutch government (Ministry of Economic Affairs, Ministry of Housing, Spatial Planning and Environment) between 1985 and 1991.



Day 2  
15.00

## Panel discussion: New impulses for a resource efficient Europe

The Roadmap to a Resource Efficient Europe from 2011 puts forward a vision of a European economy, which by 2050 “has grown in a way that respects resource constraints and planetary boundaries, [...] is competitive, inclusive and provides a high standard of living with much lower environmental impacts.”

In order to foster European resource policy, a European Resource Efficiency Platform (EREP) was established. In its final policy recommendations from March 2014, it calls for a European target for resource productivity, suggesting an increase of 30% by 2030 compared to pre-crisis levels.

Under Commission President Juncker, European Resource Policy also underwent a change in focus. The Circular Economy Action Plan from December 2015 shifts the focus towards creating a circular economy aimed at minimising waste generation, alleviating impacts from price volatilities, creating jobs, and generating competitive advantages.

The many discussions regarding the level of ambition of the action plan (e.g., lower recycling targets for household waste, the removal of a resource efficiency target), indicate that there is potential to increase the ambition of current European resource policy. This, however, needs a long-term view, such as the one provided by the Resource Efficiency Roadmap from 2011.

What are the necessary next steps for continuing with the 2011 vision of a resource efficient Europe? What new impulses does European resources policy need in order to foster a more sustainable use of natural resources?

- » Is the Circular Economy Action Plan sufficient to implement the long-term vision of a resource efficient Europe? What is the future role of the roadmap in this context? How can Europe continue with the Roadmap and its vision?
- » What concrete steps are needed from today in order to support the further development of the Action Plan? Which concrete steps are necessary to extend the ideas of the Roadmap? Do we need another European Resource Efficiency Platform?
- » What has to be done to support European Member States in implementing both the Circular Economy Action Plan and the Roadmap?
- » Could a new European sustainability strategy help strengthen mid- and long-term resource policy? Do we need a concrete and quantitative target for Europe’s way towards sustainable resource use?

## Magda Stoczkiewicz

Director | Friends of the Earth Europe, Belgium

Magda Stoczkiewicz is a director of Friends of the Earth Europe (FoEE) since March 2008. She has 15 years of senior management experience in non-profit organisations. She has advanced knowledge of campaigning on environmental, social and governance issues as well as understanding of human rights and development aspects, coupled with 16 year experience of the intricacies of the EU policy-making framework. Polish graduated from the Jagiellonian University in Krakow with Master of Art, afterwards continuing with post degree studies in public relations and European affairs. She is one of the founders of environmental organisation in Central Eastern Europe – CEE Bankwatch Network, for which she worked for 12 years, first in Poland, than in Amsterdam and Brussels.

Friends of the Earth Europe campaigns for sustainable and just societies and for the protection of the environment and unites 32 national European organisations with thousands of local groups. The organisation is part of the world's largest grassroots environmental network, Friends of the Earth International. The office in Brussels coordinates European campaigns and conducts advocacy work in the European Headquarters.



## Karl Falkenberg

Senior Adviser for Sustainable Development | European Political Strategy Centre (EPSC), European Commission

Since October 2016, Karl Falkenberg is a Senior Fellow at St-Anthony's College in Oxford. He is a trained economist and journalist and has a long experience as international negotiator in the European Commission. He started his career in the Commission as textiles negotiator, has dealt with international fisheries issues and since 1985 with the GATT. In 1990, he served as foreign policy advisor to EU President Jacques Delors, with particular focus on the German unification process. From 1997, he was in charge of the coordination of all WTO issues. In 2001 he was appointed Director in charge of sectoral trade policies and bilateral trade relations with North America, Japan, the Mediterranean area and the African, Caribbean and Pacific countries and in 2002 Director for Free Trade Agreements, Agricultural trade questions, ACP. In 2005, he coordinated all bilateral trade policies as Deputy Director General.



In 2009, he became Director General of the Environment, covering the EU's environmental policy in both its domestic and international dimensions. In September 2015, he was appointed Senior Adviser at the European Political Strategy Centre dealing with Sustainable Development.

## Werner Bosmans

European Commission, DG Environment, Sustainable Production, Products & Consumption

Werner Bosmans, a Belgian national, first graduated as a Bio-engineer at the University of Ghent, Belgium, and then did a Ph.D. in international economics in Montpellier, France. He also holds a degree in Public Management.

After undertaken research at the University of Ghent and at the Belgium Ministry of Agriculture, he worked as assistant to the Secretary-General of the Belgian and then Flemish Ministry of Agriculture. He is also a part-time professor at the ULB (Université Libre de Bruxelles).

In 2005, he joined the Directorate-General Environment of the European Commission in Brussels. He is responsible for Natural Resource policies, promoting life-cycle thinking to reduce environmental impacts. He helped setting up the International Resource Panel together with UNEP. He is one of the authors of the Roadmap to a Resource Efficient Europe and coordinated follow-up work, such as the European Resource Efficiency Platform (EREP). He initiated work on the Circular Economy. As of 1 July, he is coordinating the development of a Strategy on Plastics.



## Dr. Harry Lehmann (chair)

General Director, Division I "Environmental Planning and Sustainability Strategies" | German Environment Agency

For CV see page 11.





## List of exhibitors

1. German Environment Agency (UBA)
2. VDI Centre for Resource Efficiency (VDI ZRE)
3. Ecologic Institute
4. Helmholtz Institute Freiberg for Resource Technology (HIF)
5. ifu Hamburg
6. Project Management Jülich (PtJ) and the German National Contact Point for Environment (NKS Umwelt)
7. German Advisory Council on Global Change (WGBU)
8. BilRes-Network: Education for Resource Conservation and Resource Efficiency
9. Wuppertal Institute
10. World Resources Forum (WRF)
11. Università del Piemonte Orientale – IN-BEE project
12. United Nations Environment Programme (UNEP)
13. German Aggregates Federation (BV MIRO)



## Sustainable event

The European Resource Forum 2016 was planned as an environmentally friendly and sustainable event – concurrent with the guide for the organisation of sustainable events (see: [www.umweltbundesamt.de/en/publications](http://www.umweltbundesamt.de/en/publications)).

The following measures were taken (examples):



### Vegan and vegetarian catering

At the ERF2016 only vegan and vegetarian catering will be served – vegan food will be signposted. The Berlin-based catering company “TAFELSERVICE” is providing fresh and high quality seasonal food. Many dishes are certified organic and local. The bread, for example, is from Berlin’s oldest organic bakery: “Weichardt”. Coffee and tea are not only organic, but also fair-trade.



### Avoiding and reusing food waste

Tafelservice aims to plan exactly how much food is needed, to avoid food waste. In case of any leftovers, which may occur if participants are unable to attend the event, “doggy bags” are provided. This way, leftovers can be brought home. Any residuals will be distributed to social centres by Tafelservice. Inedible food waste will be used for the production of fertilizers or bioenergy.



### Tap water from Berliner Wasserbetriebe

At the ERF2016, high quality water from the Berliner Wasserbetriebe can be received at the Wasserbar. The Berliner Wasserbetriebe have provided Germany's capital with drinking water for the past 150 years. Local high quality water is used, instead of imported water which is expensive and has negative impacts on the environment.




### Recycled paper and environmentally friendly colours

All print products, such as this program, are made from 100% recycled paper and comply with the eco-label „Blauer Engel“ ([www.blauer-engel.de/en](http://www.blauer-engel.de/en)). Only environmentally friendly and oil-free colours were used.






## Avoiding waste

 There will be no big congress folders to avoid paper waste. Required conference material is handed out upon request at the check-in desk. Information material, such as flyers are displayed in the exhibition area.




## Mobility

 The ERF2016 takes place in the “Ludwig Erhard Haus”, which is centrally located approximate to the train station Bahnhof Zoologischer Garten. The Umweltbundesamt proposes to organise the trips with the train and public transport. Thanks to the “Deutsche-Bahn-Eventticket”, participants can travel cheaper by train.




## Compensating carbon emissions

 All participants can reduce their personal carbon footprint, e.g. by compensating their travels via Atmosfair ([www.atmosfair.de](http://www.atmosfair.de)) or My Climate ([de.myclimate.org](http://de.myclimate.org)).



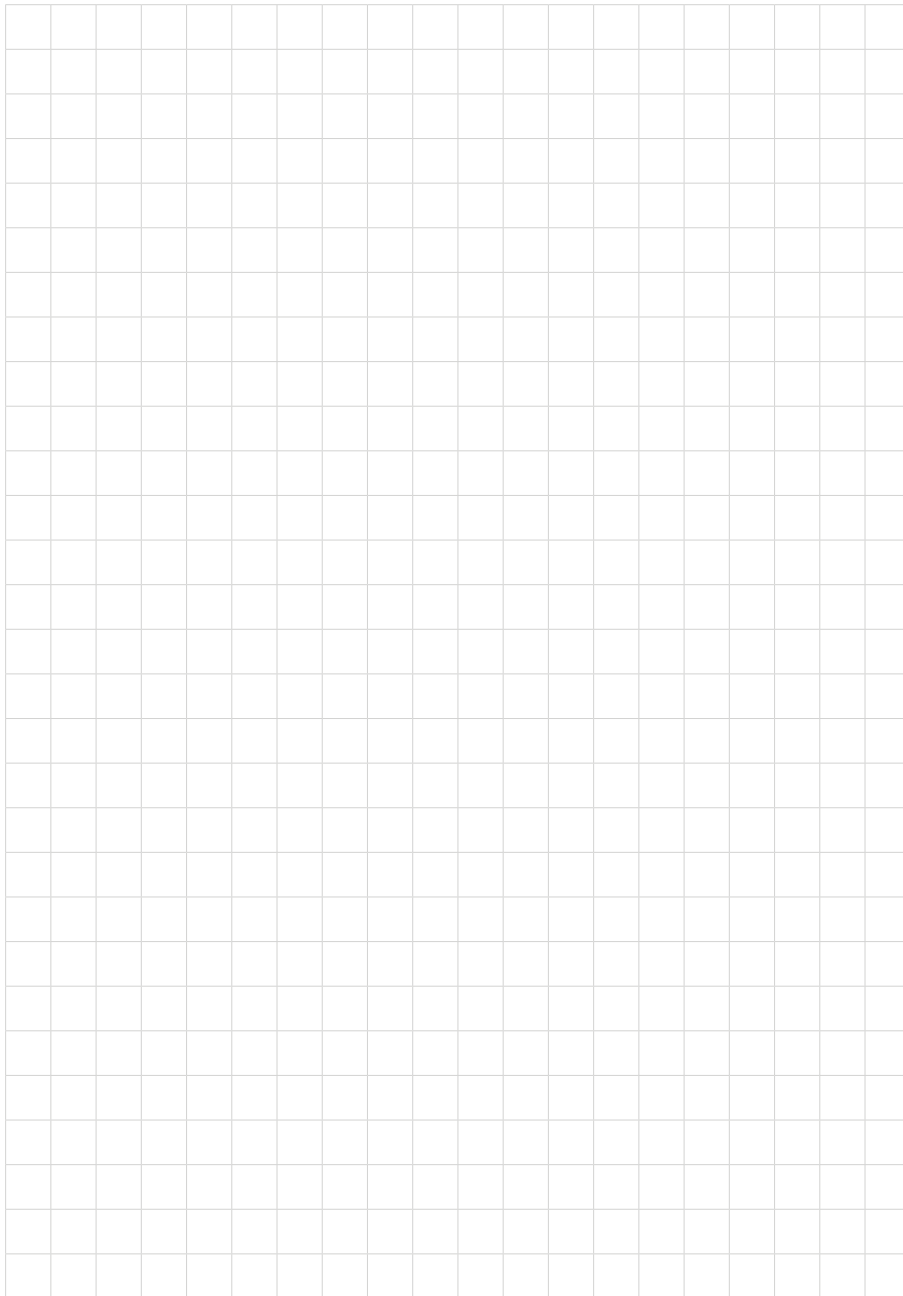
### The location: Ludwig Erhard Haus

 The Ludwig Erhard Haus in Berlin ([www.leh-berlin.de](http://www.leh-berlin.de)) was built under Nicholas Grimshaw, who is one of the pioneers of eco-architecture. The building is very energy efficient. Thanks to its double-layered glass facade and controllable sun protection lamellas, the energy needed can be optimized during all seasons.



# Notes





### Photo sources

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### **Venue**

**Ludwig Erhard Haus**

Fasanenstraße 85

10623 Berlin, Germany

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**[www.resourcesforum.eu](http://www.resourcesforum.eu)**

