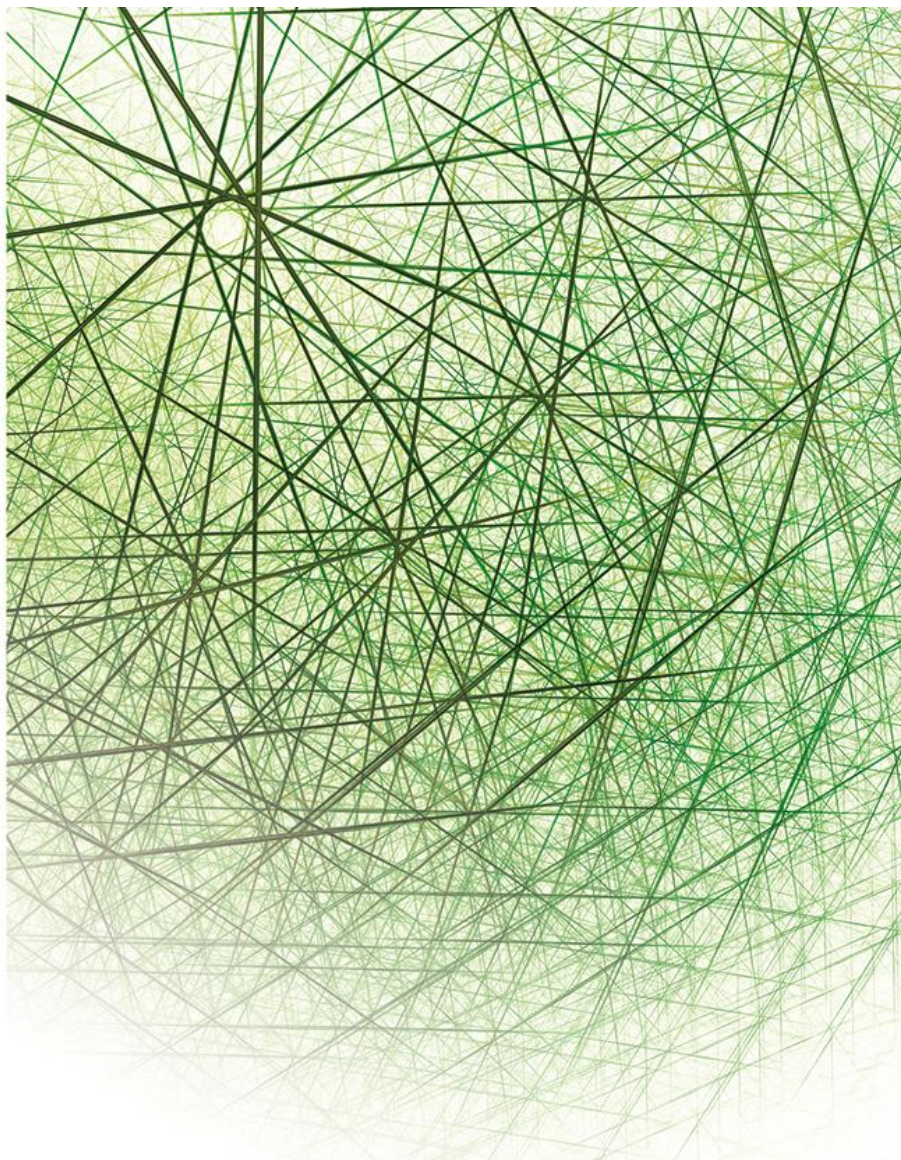# EnviroInfo & ICT4S 2015

Conference Programme
7-9 September 2015, Copenhagen, Denmark

Building the knowledge base for environmental action and sustainability

UNIVERSITY OF COPENHAGEN

European Environment Agency

ICT4s
ICT for Sustainability

TECHNICAL COMMITTEE
ENVIRONMENTAL INFORMATICS

PROGRAM AT A GLANCE

Sunday 6th September

09.00 – 17.00	All-day workshops (not including lunch)

Monday 7th September

08.30	Registration opens
09.30	Keynote session – The emerging environmental context Keynote session – The growing impact of the digital revolution
10.50	Coffee break
11.20	ConverStation I
13.00	Lunch
14.15	ConverStation II
16.00	Coffee break
16.30	Keynote session – Priorities for ICT4S: What we can do for a future of descent
17.30	Poster presentations
18.00	Welcome Reception and Poster mingle

Tuesday 8th September

09.00	Keynote session – Challenges of improving the knowledge base
10.30	Coffee break
11.00	ConverStation III
12.40	Lunch
14.00	Workshops
15.30	Coffee break
16.00	Keynote session – State of the Environment
19.00	Conference dinner

Wednesday 9th September

09.00	Keynote session – Social and environmental sustainability Panel discussion – From Research to Impact
10.30	Coffee break
11.00	Best Paper presentations
12.15	Awards and Closing of the conference

Wednesday 9th September – Afternoon Session

14.00 – 17.30	Half-day workshops (not including lunch)

Welcome!

It is with great pleasure that we welcome you Copenhagen, and to the joint EnviroInfo & ICT4S 2015 conference.

The aim of the joint conference is to build the knowledge base for environmental action and sustainability.

We aim to build bridges and share what we, in each community can provide as strength.

This year the conference will feature both research and applied papers. Research papers provide up to date information on topics such as, data, software and information systems, modelling, life cycle assessments, energy, public participation and green tools, whilst the applied papers feature implemented knowledge or thoughts on such topics.

It is our hope that the conference will contribute to an enhanced understanding of the challenges in building such an extended knowledge base in order for research to have a stronger impact, and vice versa.

Vivian Kvist Johannsen
University of Copenhagen Denmark

Stefan Jensen
European Environment Agency

Organisation

Organising Committee

EnviroInfo Chair
Stefan Jensen, European Environment Agency

EnviroInfo Co-chairs
Vivian Kvist Johannsen, University of Copenhagen
Volker Wohlgemuth, University of Applied Science Berlin

ICT4S Chair
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Katja Rosenbohm, European Environment Agency

Mattias Höjer, CESC Centre for Sustainable Communications, Royal Institute of Technology Stockholm

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Werner Pillmann, Expert Committee for Environmental Informatics, EnviroInfo

Facilitator
Peter Woodward, Quest Associates

Key notes

Katherine Richardson, Professor at University of Copenhagen, Denmark

The emerging environmental context

Mattias Höjer, Professor at KTH Royal Institute of Technology

What is national ICT-politics for Sustainable development?"
During the last decays, ICT has had an enormous influence on societies all around the world. What can be said about the environmental consequences of this, and what are the relations between governments' ICT-policies and environmental policies?"

Hans Bruyninckx, Director of the European Environment Agency since 1st of June, 2013

Expanding our environmental knowledge base for transitions
In 1996 Dr Bruyninckx completed a PhD in international environmental politics at Colorado State University. From 2010 until his appointment at the EEA, he was head of the HIVA Research Institute in Leuven, Belgium, a policy-oriented research institute associated with the Katholieke Universiteit Leuven, where he was also head of the Political Science department from 2007 to 2010. Over the last 20 years, he has conducted research in more than a dozen countries, in areas including environmental politics, climate change, and sustainable development. He has taught on global environmental politics and global environmental governance in relation to the European Union (EU), publishing extensively on EU environmental policies and its role as an actor in global environmental governance. Throughout his career Dr Bruyninckx has worked with governmental agencies, civil society and businesses, often in an advisory role.

Dr **Kirstie McIntyre**, Director Social & Environmental responsibility, Hewlett-Packard Organisation

Kirstie McIntyre is WW director for Hewlett-Packard's environmental operations. Her remit covers all product and service-related environmental laws and market access agreements on energy efficiency, chemical/material restrictions and end-of-life considerations. Her teams supports HP sales teams and customers across the region on environmental topics. She liaises with Government, industry partners and peers, supply chain members as well as business customers and consumers on environmental regulations, recycling and other environmental aspects of HP's products. Kirstie is a passionate advocate of the circular economy and has worked for a number of years in the strategic development of end-of-life programmes for various companies in the electronics sector. She has an engineering doctorate in environmental technology and has published widely on sustainability and supply chain issues. Please see www.hp.com/environment for more information.

Katja Rosenbohm, European Environment Agency

State of the Environment
European Environment Agency's State of the Environment Report 2015

Bonnie Nardi, Professor in the School of Information and Computer Sciences at the University of California, Irvine

Priorities for ICT4S: What We Can Do for a Future of Descent
We live on a finite planet. ICT4S, and more broadly, our economy, must adapt to this reality if human culture is to continue. The planet will be around for a long time — will we? We are at a stage of cultural evolution in which we have powerful tools at hand: science, technology, and a sense of history. If we deploy these tools intelligently, we can adjust the errors of our unsustainable ways and continue life as the only species (at least on Earth) that enjoys self-awareness, art, spirituality, and the capacity to imagine. Unlike traditional siloed disciplines, the talents of the nascent ICT4S community include a robust base of engineering, social science, and information science. This diverse expertise can be brought to bear to anticipate a future in which the limits of finiteness are recognized, managed, and even celebrated.

Venues

University of Copenhagen Ceremonial Hall
With its more than 530 years, the University of Copenhagen is one of the oldest universities in Northern Europe.

The Ceremonial Hall will host the morning sessions of the three conference days. For lunch, we will take the short 5 minute stroll 'down the road' to the modern conference facilities of Kosmopol.

University of Copenhagen Ceremonial Hall

Kosmopol conference facilities

Kosmopol conference facilities
Kosmopol offers a historical setting with modern conference facilities in the Old Merchant School in the heart of Copenhagen.

Lunch and the afternoon sessions will take place at Kosmopol which offers smaller, more intimate group settings.

Restaurant SULT
Aptly named after Henning Carlsen's famous classic, 'Hunger' from 1966, Restaurant SULT features locally grown, organic food. We're certain the restaurant will live up to feeding the hunger we're certain to have built up during the course of an eventful day!

The restaurant lies in the heart of Copenhagen city and features wooden floors and high ceilings – the perfect setting for great conversations.

Restaurant SULT

PROGRAM

Sunday 6th September

Workshops (not including lunch) all at University of Copenhagen, Rolighedsvej 23, Frederiksberg C.

09.00 – 17.00	The role of ICT in transforming society through engaged communities
09.00 – 17.00	Software engineering for social sustainability
13.00 – 17.00	ICT enabling potential for GHG reductions at a company- or sector-level: Methodological considerations

Monday 7th September

08.30	**Registration opens**
09.30	**Conference welcome, aims, process**

Stefan Jensen, Conference Chair EnviroInfo, European Environment Agency
Chris Preist, Conference Chair ICT4S, University of Bristol
Peter Woodward, Conference moderator, Quest Associates

Framing the challenge -

> **Keynote: The emerging environmental context**
> Katherine Richardson, Professor at University of Copenhagen

> **Keynote: What is national ICT-politics for Sustainable development?**
> Mattias Höjer, Professor, KTH

10.50	**Coffee break**
11.20 – 12.50	**ConverStation I**

Format key:
R = research paper
A = applied paper
Ext. ab. = extended abstract

*marks presenting author

Paper no.	Title and Author	Track	Format
1.1	**A framework for sustainability assessment of ICT futures. Scenarios and sustainability impacts of future ICT- societies** Yevgeniya Arushanyan, Elisabeth Ekener-Petersen, Åsa Moberg, Vlad C. Coroama	ICT4S	R
1.2	**Assessing the Uses of NLP-based Surrogate Models for Solving Expensive Multi-Objective Optimization Problems: Application to Potable Water Chains** Florin Capitanescu, Antonino Marvuglia, Enrico Benetto, Aras Ahmadi, Ligia Tiruta-Barna	EnviroInfo	R
1.3	**Data reconciliation under fuzzy constraints applied to wood flows in Austria** Nada Dzubur and David Laner	EnviroInfo	Ext. Ab

1.4	**Definition of social sustainability criteria for the simulation of OHS in manufacturing entities** Andi H. Widok and Volker Wohlgemuth	EnviroInfo	R
1.5	**Dredged Sediments, Web-GIS and Analysis Tools – The CEAMaS case study** David Roig Cervera, Gerry Sutton, Andy Wheeler, Eric Masson & Dounia Lahlou	EnviroInfo	A
1.6	**Eco innovations in European countries** Pawel Bartoszczuk	EnviroInfo	R
1.7	**Environmental monitoring of continuous phenomena by sensor data streams: A system approach based on Kriging** Peter Lorkowski and Thomas Brinkhoff	EnviroInfo	R
1.8	**Exploring the effect of ICT solutions on GHG emissions in 2030** Jens Malmodin and Pernilla Bergmark	ICT4S	R
1.9	**GIS-based Life Cycle Assessment of urban building stocks retrofitting- a bottom-up framework applied to Luxembourg** Alessio Mastrucci, Emil Popovici, Antonino Marvuglia, Luís de Sousa, Enrico Benetto, Ulrich Leopold	EnviroInfo	R
1.10	**I am more than the sum of my parts: an e-waste design fiction** Vanessa Thomas, Manu J Brueggemann, David Feldman	ICT4S	R
1.11	**Indirect rebound and reverse rebound effects in the ICT-sector and emissions of CO2** Cecilia Håkansson and Göran Finnveden	ICT4S	R
1.12	**INSPIRE or INSPIREd eReporting?** Christian Ansorge, Stefan Jensen, Darja Lihteneger	EnviroInfo	Ext. ab
1.13	**Labelling sustainable software products and websites: Ideas, Approaches, and Challenges** Eva Kern, Markus Dick, Stefan Naumann, Andreas Filler	ICT4S	R
1.14	**Marine sediment re-use in the ports of North Western Europe. Toward a spatial decision support system for "Civil Engineering Application for Marine Sediments" (CEAMaS project)** Eric Masson, Dounia Lahlou, Olivier Blanpain and Guillaume Chevalier, Tristan Debuigne, David Roig and Gerry Sutton	EnviroInfo	A
1.15	**Methods and Tools for More Efficient Working With OGC Web Processing Services** Andreas Abecker, Roman Wössner, Dorian Alcacer-Labrador, Felix Bensmann, Rainer Roosmann	EnviroInfo	A
1.16	**Midpoint vs single score in multi-criteria optimization under life cycle assessment constraints: the case of potable water treatment chains** Florin Capitanescu, Elorri Igos, Antonino Marvugliaa, Enrico Benetto	EnviroInfo	R

Paper no.	Title and Author	Track	Format
1.17	**Open Data Model for (Precision) Agriculture Applications and Agricultural Pollution Monitoring** Tomáš Řeznik, Karel Charvat, Vojtěch Lukas, Karel Charvat Jr., Šárka Horakova, Michal Kepka	EnviroInfo	R
1.18	**Perceptions and behaviour towards climate change and energy savings: the role of social media** Lara S. G. Piccolo and Harith Alani	EnviroInfo	R
1.19	**Pre-installation challenges: classifying barriers to the introduction of smart home technology** Luis Carlos Rubino de Oliveira, Andrew May, Val Mitchell, Mike Coleman, Tom Kane, Steven Firth	ICT4S	R
1.20	**Simplifying an application for LCIA by conducting a usability study** Mieke Klein, Felix Hemke, Volker Wohlgemuth	EnviroInfo	Ext. ab
1.21	**Social Electricity: The evolution of a Large-Scale, Green ICT Social Application through two Case Studies in Cyprus and Singapore** Andreas Kamilaris*, Andreas Pitsillides, Christos Fidas, Sekhar Kondepudi	ICT4S	R
1.22	**The Citizen Field Engineer: Crowdsourced Maintenance of Connected Water Infrastructure. Scenarios for smart and sustainable water futures in Nairobi, Kenya** Fanny von Heland, Anna Bondesson, Marcus Nyberg, Pontus Westerberg	ICT4S	R
1.23	**The Environmental Footprints Explorer - a database for global sustainable accounting** Konstantin Stadler, Radek Lonka, Daniel Moran, Georgios Pallas, Richard Wood	EnviroInfo	A
1.24	**The Green Practitioner: A decision-making tool for green ICT** Karl Lundfall, Paola Grosso, Patricia Lago and Giuseppe Procaccianti	ICT4S	R
1.25	**Work hubs - location considerations and opportunities for reduced travel** Anna Kramers, Marcus Nyberg, Mattias Höjer, Malin Söderholm	ICT4S	R
13.00	**Lunch**		

14.15 – 16.00   **ConverStation II**

Paper no.	Title and Author	Track	Format
2.1G	**A process model for preparation and analysis of cetacean sighting data off the coast of La Gomera** Jochen Wittmann, Aljoscha Marcel Everding, Fabian Ritter	EnviroInfo	R
2.2G	**A systematic review of environmentally conscious product design** Zhongkai Li, Jorge Marx Gómez, Alexandra Pehlken	ICT4S	R

2.3G	**Attribute-based data quality evaluation in regional Material Flow Analysis**	EnviroInfo	Ext. ab
	Oliver Schwab, David Laner and Helmut Rechberger		
2.4G	**Austrian AQD e-Reporting via INSPIRE Services**	EnviroInfo	A
	Katharina Schleidt*, Barbara Magagna, Gerhard Dünnebeil, Wolfgang Spangl		
2.5G	**Educating for ICT4S: Unpacking sustainability and ethics of ICT student intakes**	ICT4S	R
	Samuel Mann, Mike Lopez, Dobrila Lopez, Nell Smith		
2.6G	**Education and Health in ICT-futures: Scenarios and sustainability impacts of ICT-societies**	ICT4S	R
	Luciane Aguiar Borges		
2.7G	**Energy demand of workplace computer solutions - A comprehensive assessment including both end-user devices and the power consumption they induce in data centers**	ICT4S	R
	Ralph Hintemann and Klaus Fichter		
2.8G	**Energy matters in buildings: Individual and collective issues**	ICT4S	R
	Marie Denward, Annelise de Jong, Rebekah Olsen		
2.9G	**How to – comprehensively – collect and depict data on conditions for sustainable transport in rural areas? The approach of the Austrian R&D project "AlltagsSPUREN"**	ICT4S	A
	Bente Knoll, Georg Spreitzer, Teresa Schwaninger, Petra Busswald, Roswitha Hofmann, Christoph Link		
2.10G	**ICT systems supporting sustainable operation and development of municipal waterworks**	ICT4S	A
	Jan Studzinski*		
2.11G	**Quo vadis – INSPIRE? A new approach to environmental data management – a practical project in Saarland**	EnviroInfo	Ext. ab
	Heino Rudolf*		
2.12G	**The BIOSCORE 2 project: Developing a Model to Compare Biodiversity Effects of European Nature Policy Scenarios**	EnviroInfo	A
	Onno M. Knol, Arjen van Hinsberg, Marjon Hendriks		
2.13G	**The EcoPanel - designing for reflection on greener grocery shopping practices**	ICT4S	R
	Ulrica Bohné, Jorge Luis Zapico, Cecilia Katzeff		
2.14G	**Toward Collaborative LCA Ontology Development: a Scenario-Based Recommender System for Environmental Data Qualification**	EnviroInfo	R
	Akkharawoot Takhom, Mitsuru Ikeday, Boontawee Suntisrivaraporn, and Thepchai Supnithiz		

2.15G	**Using the OGC SOS Interface for Reporting Ambient Air Quality Data** Simon Jirka, Carsten Hollmann, Matthes Rieke, Hans Berkhout, Håkan Blomgren, Tony Bush, Michel Grothe, Olav Peeters, Matthew Ross-Jones	EnviroInfo	Ext. ab
2.16M	**Big Data for Big Problems-Climate Change, Water Availability, and Food Safety** Walter Armbruster and Margaret MacDonell	EnviroInfo	A
2.17M	**Development of a Real-time Smart Meter for Non-Intrusive Load Monitoring and Appliance Disaggregation** Roman Jonetzko, Matthias Detzler, Klaus-Uwe Gollmer, Achim Guldner, Marcel Huber, Rainer Michels, Stefan Naumann and Martin Ney	EnviroInfo	A
2.18M	**Distanciation: a key challenge for 21st Century conservation** Leticia Margarita Ochoa-Ochoa, Sandra Nogué, Rafa Devillamagallón, Richard J. Ladle	EnviroInfo	R
2.19M	**Energy implications of residential energy monitoring systems** Michael Preisel, Adriana Díaz, Florian Krautzer, and Wolfgang Wimmer	EnviroInfo	Ext. ab
2.20M	**Energy saving at work - and when not working! Insights from a comparative study** Timo Jakobi and Gunnar Stevens	EnviroInfo	R
2.21M	**Environmental information systems and services** Arne.J. Berre and Sven Schade	EnviroInfo	A
2.22M	**Information technology continuance research – A case study on changes in the usage of information systems for direct selling of bioenergy in agricultural businesses** Philipp Grundmann	EnviroInfo	Ext. ab
2.23M	**Interoperability and Sharing of Biodiversity Data on a National Network in Italy** Corrado Iannucci and Valter Sambucini	EnviroInfo	A
2.24M	**Interoperability of Environmental Data with a European Information Platform for Chemical Monitoring (IPCheM). Data management across the disciplines** Gerlinde Knetsch and Maria Rüther	EnviroInfo	Ext. ab
2.25M	**Reducing energy demand within large organisations through IT-enabled behaviour change – 3 case studies from the UK** Andrew F.G. Smith	EnviroInfo	Ext. ab
2.26M	**SySPE Solution and IT-for-Green Communication through Web Services** Frank Medel-González, Lourdes García-Ávila, Jorge Marx-Gómez	EnviroInfo	A
2.27M	**Tablets - Suitable Problem Solvers for Business Cases?** Matthias Mokosch, Torsten Urban, Hans-Knud Arndt	EnviroInfo	Ext. ab

	2.28M	Towards an air pollution health study data management system - A case study from a smoky Swiss railway	EnviroInfo	A
		Evangelia Papoutsoglou, Argyrios Samourkasidis, Ming-Yi Tsai, Mark Davey, Alex Ineichen, Marloes Eeftens and Ioannis N. Athanasiadis		
	2.29M	Understanding climate change tweets: an open source toolkit for social media analysis	EnviroInfo	A
		Diana Maynard and Kalina Bontcheva		
	2.30M	Web Environmental Information System for Corporate Performance Evaluation and Reporting	EnviroInfo	A
		Oldřich Faldík, Oldřich Trenz, Jiří Hřebíček, Edward Kasem		

16.00	**Coffee break**

16.30	**Priorities for ICT4S: What we can do for a future of descent** Keynote by Professor Bonnie Nardi
17.30	**Poster Session** Speed-talk poster presentations
18.00 – 19.30	**Welcome Reception + Poster Mingle** Poster authors are available by their posters whilst drinks and light refreshments are served

Tuesday 8th September

09.00	**Expanding our environmental knowledge base for transitions** Key note by Hans Bruyninckx, Director of the European Environment Agency **Introduction to afternoon workshops**

10.30	**Coffee break**

11.15 – 12.40	**ConverStation III**		
Paper no.	Title and Author	Track	Format

	3.1	**40 Gbps Access for Metro networks: Implications in terms of Sustainability and Innovation from an LCA Perspective**	ICT4S	R
		Reza Farrahi Moghaddam, Yves Lemieux, Mohamed Cheriet		
	3.2	**A survey on application of maturity models for smart grid: Review of the state-of -the-art**	ICT4S	R
		Mathias Uslar and Julia Masurkewitz		
	3.3	**A Taxonomy of Motivational Affordances for Meaningful Gamified and Persuasive Technologies**	ICT4S	R
		Paul Weiser, Dominik Bucher, Francesca Cellina, Vanessa De Luca		
	3.4	**Analysing engagement towards the 2014 Earth Hour Campaign in Twitter**	EnviroInfo	A
		Miriam Fernandez, Gregoire Burel, Harith Alani, Lara Schibelsky Godoy Piccolo, Christoph Meili, Raphael Hess		

3.5	**Breaking Barriers on Reuse of Digital Devices Ensuring Final Recycling**	EnviroInfo	R
	David Franquesa, Leandro Navarro, David L´opez, Xavier Bustamante, Santiago Lamora		
3.6	**Digital Taxonomy for Sustainability**	ICT4S	R
	Jack H Townsend		
3.7	**Energy Atlas Schleswig-Holstein**	EnviroInfo	A
	Friedhelm Hosenfeld and Malte Albrecht		
3.8	**Environmental labelling of electronic products: mobile phones, laptop and tablet**	ICT4S	A
	Damien Prunel, Axel Roy, Rachel Arnould		
3.9	**Exploring (un)sustainable growth of digital technologies in the home**	ICT4S	R
	Oliver Bates, Carolynne Lord, Bran Knowles, Adrian Friday, Adrian Clear, Mike Hazas		
3.10	**GSBLapp: Tailored Chemical Substance Information for Arbitrary On-Site Usage on Mobile Devices**	EnviroInfo	Ext. ab
	Stefan Barthel, Tristan Pfofe, Christian Roßler, Marius Bozem		
3.11	**ICT practices in smart sustainable cities - In the intersection of technological solutions and practices of everyday life**	ICT4S	R
	Miriam Börjesson Rivera, Elina Eriksson & Josefin Wangel		
3.12	**Investigation into the slow adoption of retrofitting - What are the barriers and drivers to retrofitting, and how can ICT help?**	ICT4S	R
	Christopher Weeks, Charles Delalonde, Chris Preist		
3.13	**Latest Developments of the eENVplus Framework for Using Interlinked Environmental Thesauri**	EnviroInfo	A
	Andreas Abecker, Roman Wössner, Karsten Schnitter, Riccardo Albertoni, Monica de Martino, Paola Podestà		
3.14	**Model based leakage isolation in water distribution system: a neural classifier approach**	EnviroInfo	R
	Marcin Stachura Jan Studzinski Bartomiej Fajdek		
3.15	**On fairness & sustainability: Motivating change in the networked society**	ICT4S	R
	Somya Joshi and Teresa Cerratto Pargman		
3.16	**Potentials of energy consumption measurements in office environments**	ICT4S	R
	Timo Jakobi and Gunnar Stevens		
3.17	**Self-organizing demand response with comfort-constrained heat pumps**	ICT4S	R
	Christian Hinrichs, Michael Sonnenschein, Adam Gray, Curran Crawford		

3.18	**Study on the freshwater boundary of the Pleistocene aquifer in the coastal zone of Nam Dinh province**	EnviroInfo	A
	Nguyen Thu Hang, Trinh Hoai Thu, Dinh Duy Chinh, Vu Van Manh		
3.19	**Sustainability Begins in the Street: A Story of Transition Town Totnes**	ICT4S	R
	Xinning Gui and Bonnie Nardi		
3.20	**Sustainable Asset Lifecycle Management (SALM) - How SAP is managing IT assets by embedding sustainability aspects into entire business processes**	ICT4S	A
	Matthias Göttler, Sebastian Faul, Tanja Meier-Ettlin		
3.21	**Tailor-made energy consulting for private households - The approach of the Austrian R&D project "EnBe2.0"**	EnviroInfo	A
	Bente Knoll and Georg Spreitzer		
3.22	**The affordances and use of green citizen engagement web tools**	EnviroInfo	A
	Christian Elling Scheele and Jens Hoff		
3.23	**Towards an occupancy profiling approach for an energy efficiency environment**	ICT4S	R
	Konstantinos Tsatsakis and Christos Malavazos		
3.24	**Using system dynamics model to assess aluminium price volatility and propose solutions to save energy**	EnviroInfo	A
	Nguyen Thi Minh Hanh, Dinh Duy Chinh, Vu Van Manh		
3.25	**Vu Gia Thu Bon RBIS - An information system for environmental data in central Vietnam**	EnviroInfo	Ext. ab
	Franziska Zander, Sven Kralisch		
3.26	**A Strategy for research on governing the anthropocene**	EnviroInfo	R
	Rolfe A. Leary and Vivian Kvist Johannsen*		

12.40	**Lunch**	
14.00	**Workshops**	
	• IPCHeM: a single access point to chemical occurrence data in Europe	
	• ICT-enabled Amateur Weather Networks; motivations and barriers for citizen participation	
	• Adaptation knowledge platform - approaches for presenting complex information to a European audience	
15.30	**Coffee break**	
16.00 – 17.15	**The state of the Environment**	
	Presentation by Katja Rosenbohm and discussion lead by Peter Woodward, on the European Environment Agency's State of Environment Report 2015	
19.00	**Conference dinner**	
	Restaurant SULT, Vognmagergade 8B, Copenhagen City Centre	

Wednesday 9th September

09.00		Set piece debate:

Keynote on Social and environmental sustainability
Dr Kirstie McIntyre, Director of Social and Environmental responsibility, Hewlett-Packard organisation

From Research to Impact – panel discussion
Katherine Richardson, Kirstie McIntyre, Mattias Höjer, Stefan Jensen, Volker Wohlgemuth, Chris Preist

10.30		**Coffee break**

11.00		**The Best of the Best!**

A show case of the 12 best papers presented as Impact 20x15

ICT4S — **Pre-installation challenges: classifying barriers to the introduction of smart home technology**
Luis Carlos Rubino de Oliveira, Andrew May, Val Mitchell, Mike Coleman, Tom Kane, Steven Firth

ICT4S — **The Citizen Field Engineer: Crowdsourced Maintenance of Connected Water Infrastructure. Scenarios for smart and sustainable water futures in Nairobi, Kenya**
Fanny von Heland, Anna Bondesson, Marcus Nyberg, Pontus Westerberg

ICT4S — **On fairness & sustainability: Motivating change in the networked society**
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ICT4S — **Self-organizing demand response with comfort-constrained heat pumps**
Christian Hinrichs, Michael Sonnenschein, Adam Gray, Curran Crawford

ICT4S — **A Taxonomy of Motivational Affordances for Meaningful Gamified and Persuasive Technologies**
Paul Weiser, Dominik Bucher, Francesca Cellina, Vanessa De Luca

EnviroInfo — **GIS-based Life Cycle Assessment of urban building stocks retrofitting- a bottom-up framework applied to Luxembourg**
Alessio Mastrucci, Emil Popovici, Antonino Marvuglia, Luís de Sousa, Enrico Benetto, Ulrich Leopold

EnviroInfo — **Breaking Barriers on Reuse of Digital Devices Ensuring Final Recycling**
David Franquesa, Leandro Navarro, David L´opez, Xavier Bustamante, Santiago Lamora

EnviroInfo — **Midpoint vs single score in multi-criteria optimization under life cycle assessment constraints: the case of potable water treatment chains**
Florin Capitanescu, Elorri Igos, Antonino Marvugliaa, Enrico Benetto

EnviroInfo — **Big Data for Big Problems-Climate Change, Water Availability, and Food Safety**
Walter Armbruster and Margaret MacDonell

EnviroInfo — **Energy Atlas Schleswig-Holstein**
Friedhelm Hosenfeld and Malte Albrecht

EnviroInfo **Environmental monitoring of continuous phenomena by sensor data streams: A system approach based on Kriging**

Peter Lorkowski and Thomas Brinkhoff

12.15 – 12.30 **Award Presentation and Conference Close**
Best Paper, Best Poster, and Student Prize awarded

Afternoon Session

14.00 – 17.30 **Half-day workshops (not including lunch) at EEA**

- Still heating the environment or already saving costs? - Workshop on data centre cooling infrastructure challenges and solutions
- KPI4DC: New Key Performance Indicators for evaluating DC energy sustainability
- A social practice perspective of the smart grid – Lessons learnt and yet to be discovered
- Data centres, Energy & Sustainability
- ENVIP'2015 - Environmental Information Systems and Services - Infrastructures and Platforms 2015 - for Environmental Big Data and Crowd Sensing