

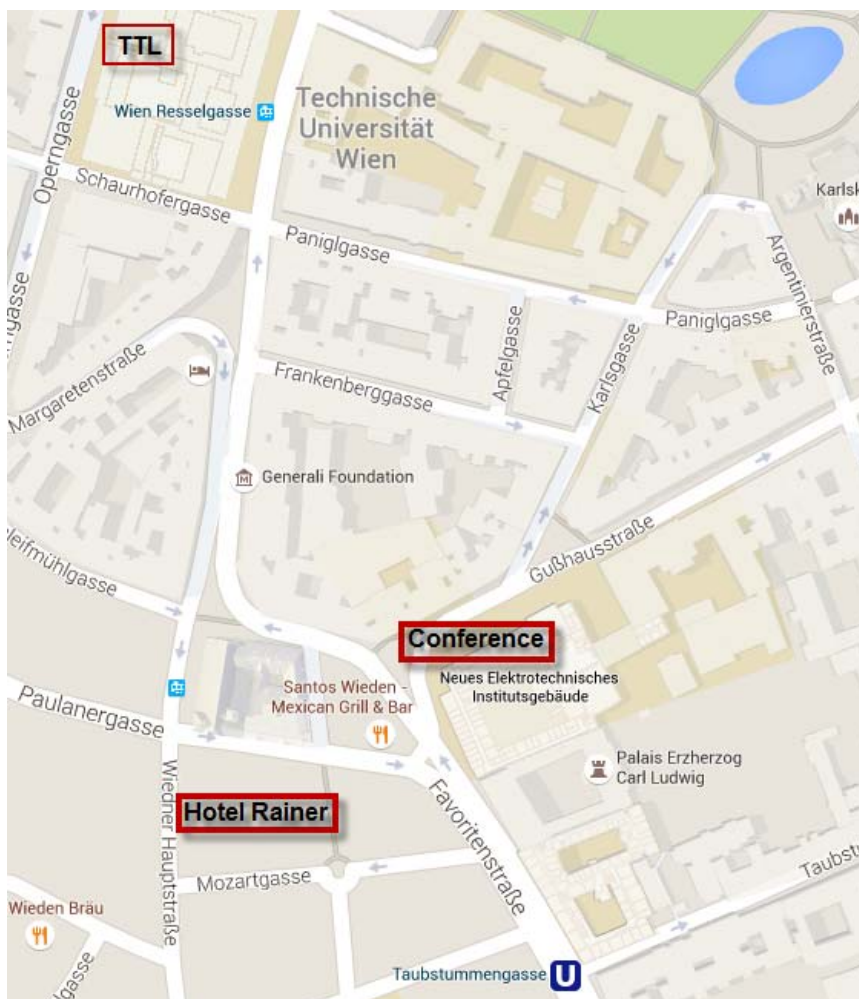


Co-sponsored by the OECD Co-operative Research Programme: Biological Resource Management for Sustainable Agricultural Systems (CRP)



## Vulnerability of Agricultural Production Networks and Global Food Value Chains due to Natural Disasters

Vienna, June 20<sup>th</sup> to 24<sup>th</sup>, 2016



### TTL Office Location

Operngasse 11/4 is the location where TTL found a home 11 years ago at the Department for Urban Planning and Landscape Architecture. Needed only in special cases.

### Venue of the Conference

The conference will take place at the Vienna University of Technology - TU Wien, Elektrotechnik-Institutsgebäude (Main entrance, to the right, CA, seminar room 0138, 1st floor, located at Gusshausstrasse 25-29, A-1040 Vienna/Austria.

### Departure Conference

**Excursion** on Wednesday, June 22<sup>nd</sup>, 8:20

Hotel Erzherzog Rainer, Wiedner Hauptstraße 27-29, 1040 Wien

Conference programme June 20<sup>th</sup> to 24<sup>th</sup>, 2016, Vienna Austria  
From June 16<sup>th</sup>, 2016

## Programme rationale

The agenda is considered to start broadly and then narrow the focus to specific agricultural production networks and food value chains. The challenge is to combine outstanding scientists from three groups: economics, natural resource management and risk research. At the same time we support the uptake of research into policy and decision making.

The conference is scheduled for 3.5 days not including the arrival day. Two days, June 21<sup>st</sup> and June 23<sup>rd</sup> are reserved for four conference sessions; June 22<sup>nd</sup> is reserved for an excursion to experience the rural landscape in relation to the conference topic. The final half day is the wrap up session “The way forward” with the aim to finalize a book presentation on the topic (or a special issue of a journal).

We plan four scientific sessions, two on June 21<sup>st</sup>, 2016 and two on June 23<sup>rd</sup>, 2016. The topics of the sessions are: 1) The nexus of agricultural production networks and global food value chains and natural disasters 2) Natural disasters and agricultural production: numbers, models, measures and current policies, 3) Lessons to be learned for agricultural production networks and food value chains 4) Decreasing vulnerability against natural disasters in agricultural production networks and food value chains.

Session 1 gives a broad overview of what is in the topic of the conference. The nexus between agricultural production and natural disasters is in focus. Session 2 depicts the status quo of what information is already available and what measures and policies could be immediately exchanged within OECD countries. Session 3 informs on ways of how to protect agricultural production networks and food value chains by learning from methods in other economic sectors. Session 4 informs on how to decrease vulnerability within agricultural production networks and food value chains to become more robust against the increasing burden of natural disasters. Four of the participants will also be session leaders and help to reach the aims related to their sessions and the overall aims of the conference.

Each session and each presentation consists out of three parts: the presentation of the resource person, a discussion promoted by a discussant/co-discussant and a policy dialogue.

June 22<sup>nd</sup> 2016, we will visit the “Wachau Cultural Landscape” a UNESCO world heritage site. This outstanding rural landscape will serve as an example to demonstrate the interactions of the different segments of the conference topic. Locals altered the value chain of agricultural products in a remarkable way. While natural disasters are rare, extreme climate events like flooding, drought, frost have a major impact on the economic output. The interconnection between agriculture, forestry, tourism, water and soils resources, land management, Alpine risks and disaster prevention will be exemplified.

June 24<sup>th</sup> 2016, ends with a 3 h discussions and synthesis session. The aim here is to pull together what we have heard into a joint publication describing a set of principles for engagement that provide benefit to OECD/ERIA and be adopted by the participants amongst their own organizations. This will become the showpiece product from the conference.

Day 1: June 20 <sup>th</sup> , 2016	
18:30-20:00	Welcome Dinner, “Wiener Wirtschaft” at Hotel Rainer, Wiedner Hauptstr. 27-29
Day 2: June 21 <sup>st</sup> , 2016	
Welcome and Introductions	
8:30-8:35	<i>Meinhard Breiling, Austria</i> , Host welcome
	Welcome messages
8:35-8:40	Richard Stiles, Head of Department Urban Planning and Landscape Architecture
8:40-8:45	Sabine Seidler, Rector TU Wien
8:45-8:50	Andrä Rupprechter, Austria, Minister of Agriculture, Forestry and Environment

8:50-9:00	Joint Foto - Conference Participants and Minister
	Introduction to OECD and ERIA programs
9:00-9:15	Vangimalla Reddy, <i>United States</i> , USDA-ARS; OECD CRP Scientific Advisory Body member, OECD CRP Mission statement
9:15-9:30	Venkatachalam Anbumozhi, <i>Indonesia</i> , ERIA Mission statement
Session 1	The nexus of agricultural production networks and global food value chains and natural disasters (Chair Vengimalla Reddy)
9:30-9:50	<i>Susan Cutter, USA, "The Perilous Nature of Food Supplies: Natural Hazards, Social Vulnerability, and Disaster Resilience"</i>
9:50-9:55	Discussant: Hyeon T. Kim
9:55-10:00	Policy Officer: Martina Nagl
10:00-10:20	<i>Sven Fuchs, Austria "Disaster Risks and Vulnerability to Alpine Agricultural Production Networks"</i>
10:20-10:25	Discussant: Eiji Yamaji
10:25-10:30	Policy Officer: Erwin Szlezak
10:30-10:50	Coffee Break
Session 1 Continuation	The nexus of agricultural production networks and global food value chains and natural disasters (Chair Susan Cutter)
10:50-11:10	<i>Margreth Keiler, Switzerland "Loss estimations by Natural Disasters in Alpine Food Value Chains"</i>
11:10-11:15	Discussant: Hiroyuki Nakata
11:15-11:20	Policy Officer: Rudi Grünanger
11:20-11:40	Julien Hardelin, OECD, "Mitigating droughts and floods in agriculture: policy lessons and approaches"
11:40-11:45	Discussant Pedro Chambel Leitao
11:45-11:50	Policy Officer Martina Nagl, Austria
11:50-12:10	<i>Stefan Anderberg, Sweden, "Assessing the contribution of organic agriculture to selected rural value chains, poverty reduction and employment creation"</i>
12:10-12:15	Discussant: Venkatachalam Anbumozhi
12:15-12:20	Policy Officer: Hermann Hagspiel
Session 2	Natural disasters and agricultural production: numbers, models, measures and current policies (Chair: Margreth Keiler)
12:20-12:40	<i>Pedro Chambel Leitao, Portugal "Modelling yield, natural resource and monetary losses of flood and drought disasters"</i>
12:40-12:45	Discussant: Christian Renschler
12:45-12:50	Policy Officer David Purchart
12:50-14:00	Lunch Break at Asia Pavillion, restaurant opposite to conference building
14:00-14:20	<i>Luc St-Pierre, United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN Spider) with Regard to Food Security</i>
14:20-14:25	Discussant V.R.Reddy
14:25-14:30	Policy Officer Gerhard Kuschnig
14:30-14:50	<i>Minquan Liu, China "Was China's Great Famine Caused by Natural Disasters? Failure of Global Food Supply Chains and lessons to be learned for the future!"</i>
14:50-14:55	Discussant: Meinhard Breiling
14:55-15:00	Policy Officer Martina Nagl
15:00-15:20	<i>Franz Sinabell, Austria, "Robustness of Austrian agricultural production networks and food value chains against natural disasters"</i>
15:20-15:25	Discussant Margreth Keiler
15:25-15:30	Policy Officer Hermann Hagspiel
15:30-15:50	Coffee Break
Session 2 Continuation	Natural disasters and agricultural production: numbers, models, measures and current policies (Chair Sven Fuchs)
15:50-16:10	<i>Christian Renschler, United States, "Quantification of impacts of and on soil and</i>

	<i>water management on community resilience and sustainable development?"</i>
16:10-16:15	Discussant: Sven Fuchs
16:15-16:20	Policy Officer: Alfred Grant
16:20-16:40	<i>Eirik Romstad, Norway "Choice of policy instruments and impacts on land use and the food industry"</i>
16:40-16:45	Discussant: Willem Thorbecke, RIETI
16:45-16:50	Policy Officer: Beatrix Gasienica-Wawrytko
16:50-17:00	Summary of the Day – Notes Related to Organization – Briefing on excursion the next day
17:00	Free evening, cultural event

Day 3: June 22 <sup>nd</sup> , 2016 Excursion to Rural Landscape of Wachau – UNESCO World Heritage	
8:20 – 21:00	Hotel Rainer, A-1040 Wien via Melk and Krems back to Hotel Rainer
8:30-10:00	Bus tour with lectures: "Wiener Wasser – Drinking Water Supply, its relation to agriculture, food value chains and disasters" by Gerhard Kuschnig, Vienna Waterworks <a href="https://www.wien.gv.at/wienwasser/">https://www.wien.gv.at/wienwasser/</a> , "Organic farming: altering food value chains and protecting the environment against disaster damage" Eva Erhart <a href="http://bioforschung.at/en/">http://bioforschung.at/en/</a>
10:00 -11:15	Wachau Beef, A-3392 Schönbühel, Berging 6, "Direct marketing of sophisticated agricultural products" <a href="http://www.wachaubeeff.at">http://www.wachaubeeff.at</a>
11:30-13:30	<i>Erich Polz, Mayor of Rossatz-Arnsdorf Municipality and farmer of Wachau, "Local flood protection plans of Rossatz-Arnsdorf" <a href="http://www.rossatz-arnsdorf.at">www.rossatz-arnsdorf.at</a> The local apricot - Wachau "Marille" - Wine production Regional protection of agricultural brands, marketing of products</i>
12:30 -14:00	Lunch: Fam. Essl Landgasthaus, Rührsdorf/Wachau - <a href="http://www.winzerstueberl.at">www.winzerstueberl.at</a>
14:00 –15:45	Mrs. Theresa Harm, "Organic Wine Production – BIOWeingut Schmidl" <a href="http://www.weingut-schmidl.at">www.weingut-schmidl.at</a> "Differences between organic and non organic wine production and increase of value chain due to organic wine production"
15:45-17:30	"From flood protection to frost protection: means to counter economic risks by extreme events" Discussion with key stakeholders: Erwin Szlezak, Government of Lower Austria, Soil protection network in the Danube Region <a href="http://www.sondar.eu">www.sondar.eu</a> , Eva Erhart, Bioforschung Austria, <a href="http://bioforschung.at/en/">http://bioforschung.at/en/</a> , Pia Kieninger, resident of Wachau region <a href="https://en.wikipedia.org/wiki/Wachau">https://en.wikipedia.org/wiki/Wachau</a>
17:30-19:30	Stagard - Heuriger in the Krems Hintere Fahrstraße 3, A - 3504 Krems/ Stein <a href="http://www.stagard.at">www.stagard.at</a>
19:30- 21:30	Trip back to Vienna by bus

Day 4: June 23 <sup>rd</sup> , 2016	
Welcome and Introductions	
8:30-8:45	Wrapping up Session 1 Vengimalla Reddy
8:45-9:00	Wrapping up Session 2 Margreth Keiler
Session 3	Lessons to be learned for agricultural production networks and food value chains (Chair: Eirik Romstad)
9:00-9:20	<i>Hiroyuki Nakata, Great Britain, "The different vulnerabilities of industrial and agricultural products against rare disasters: lessons to be learned from hard disk industry"</i>
9:20-9:25	Discussant: Minquan Liu
9:25-9:30	Policy Officer: David Purchart
9:30-9:50	<i>Eiji Yamaji, Japan "The impact of natural disasters on agricultural production networks and their inclusion into rural policies in Japan"</i>
9:50-9:55	Discussant: Laszlo Miklos
9:55-10:00	Policy Officer N.N. Feed Back
10:00-10:20	<i>Willem Thorbecke, RIETI, Japan, "Disaster impacts on food trade: lessons from</i>

	<i>Asia</i>
10:20-10:25	Discussant: Susan Cutter
10:25-10:30	Policy Officer: Hermann Hagspiel, Austria
10:30-10:50	Coffee Break
Session 3 Continuation	Lessons to be learned for agricultural production networks and food value chains (Chair: Hiroyuki Nakata)
10:50-11:10	<i>Venkatachalam Anbumozhi, ERIA, "Effects of natural disasters to agricultural water management and global food and value chains"</i>
11:10-11:15	Discussant: Ramasamy Selvaraju
11:15-11:20	Policy Officer: Alfred Grant
11:20-11:40	<i>Shandre Thavangelu, Australia "Impact of Thailand's 2011 Flood on Exports and Global Supply Chain Disruptions"</i>
11:40-11:45	Discussant: Sven Fuchs
11:45-11:50	Policy Officer: Hermann Hagspiel
11:50-12:10	<i>Hyeon T. Kim, Republic of Korea, "Bio industrial agricultural production networks and robustness against disasters"</i>
12:10-12:15	Discussant: Eirik Romsted
12:15-12:20	Policy Officer: Gerhard Kuschnig
12:20-14:00	Lunch Break at Asia Pavillion
Session 4	Decreasing vulnerability against natural disasters in agricultural production networks and food value chains (Chair Stefan Anderberg)
14:00-14:20	<i>Ramasamy Selvaraju, FAO, Climate related natural disasters: the impact on food security and agricultural value chains</i>
14:20-14:25	Discussant: Franz Sinabell
14:25-14:30	Policy Officer: Alfred Grant
14:30-14:50	<i>Ladislav Milkos, Slovakia, "The institutional tools for integrated land management risk awareness in Slovakia"</i>
14:50-14:55	Discussant: Christian Renschler
14:55-15:00	Policy Officer: Beatrix Gasienica-Wawrytko
15:00-15:20	<i>Theresa Oedl-Wieser, Austria, "The role of woman in rural food supply chains and disaster preparedness"</i>
15:20-15:25	Discussant: Shandre Thavangelu
15:25-15:30	Policy Officer: Rudolf Grünanger
15:30-15:50	Coffee Break
Session 4 Continuation	Decreasing vulnerability against natural disasters in agricultural production networks and food value chains (Chair: Eiji Yamaji)
15:50-16:10	<i>Pia R. Kieninger, Austria "Small scale and more value: how to keep mountain farmers and small scale food networks in place to counter natural disasters"</i>
16:10-16:15	Discussant: Vangimalla Reddy
16:15-16:20	Policy Officer: Hermann Hagspiel
16:20-16:40	<i>Meinhard Breiling, Austria, "Rural tourism, economic value chains and preparedness to disaster risks"</i>
16:40-16:45	Discussant: Eirik Romsted
16:45-16:50	Policy Officer: Rudolf Grünanger
16:50-17:00	Summary of the Day
17:00	Free evening, cultural event

Day 5: June 24 <sup>th</sup> , 2016	
Welcome and Introduction	
8:30-8:45	Wrapping up Session 3 Eirik Romstad
8:45-9:00	Wrapping up Session 4 Stefan Anderberg
Session 5	Vulnerability of Agricultural Production Networks and Global Food Value Chains due to Natural Disasters (Chair Robert McInnes)
9:00-9:45	<i>Publication strategy</i>

9:45-10:30	<i>Dissemination of results strategy</i>
10:30-10:45	Coffee Break
10:45- 10:55	Science-Policy Dialogue: Roadmap from conference results into agricultural policies, Vangimalla Reddy, OECD CRP Advisory Board Member
10:55- 11:05	Policy Lessons Learned, Venkatachalam Anbumozhi, ERIA
11:05- 11:15	Science-Policy Dialogue: Roadmap from conference results into EU research projects, Siegfried Huemer, TU Wien, EU project support unit
11:15- 11:25	Wrapping up Session 5, Robert McInnes
11:25- 11:30	Closing of the Conference: Meinhard Breiling

## **ORGANIZERS:**

### **Conference Secretariat:**

#### Local organizer TU Wien

1. Dr. Meinhard Breiling, TTL Interfaculty Cooperation Centre  
Operngasse 11/4, A-1040 Wien  
Tel. +43-1-58801-26114, Fax: +43-1-58801-26199  
e-mail: [meinhard.breiling@tuwien.ac.at](mailto:meinhard.breiling@tuwien.ac.at) || <http://ttl.tuwien.ac.at>
2. Beatrix Gasienica-Wawrytko, Ph.D. student, Department of Urban Planning and Landscape Architecture  
Operngasse 11/4, A-1040 Wien  
Tel. +43-676-9504052, Fax: +43-1-58801-26199  
e-mail: [beatrix.gasienica-wawrytko@tuwien.ac.at](mailto:beatrix.gasienica-wawrytko@tuwien.ac.at) || <http://landscape.tuwien.ac.at>

### **Co-organizers and contact addresses:**

#### Contact ERIA

3. Anbumozhi Venkatachalam, Ph.D  
Economic Research Institute for ASEAN and East Asia  
Sentral Senayan II, 6<sup>th</sup> floor  
Jalan Asia Afrika No. 8, Gelora Bung Karno, Senayan  
Jakarta Pusat 10270, Indonesia  
Tel. +62-21-5797-4460-511, Fax: +62-21-5797-4464  
e-mail: [v.anbumozhi@eria.org](mailto:v.anbumozhi@eria.org) || [www.eria.org](http://www.eria.org)

#### Contact OECD

4. Vangimalla R. Reddy, Ph.D.  
OECD CRP Programme Advisory Board Member  
USDA ARS  
Research Leader Crop Systems and Global Change Lab  
Bldg 001, Rm 342, BARC-W 10300 Baltimore Ave.  
Beltsville, MD 20705, USA  
301-504-5872 (voice) 301-504-5823 (fax)  
e-mail: [Vangimalla.Reddy@ars.usda.gov](mailto:Vangimalla.Reddy@ars.usda.gov) || <http://www.ars.usda.gov/>
5. Janet Schofield  
OECD CRP Programme Secretary and Administrative Officer  
Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems, Trade and Agriculture Directorate  
2, rue André Pascal - 75775 Paris Cedex 16  
Tel: +33 1 45 24 90 22 –Fax: +33 1 44 30 61 22  
[Janet.Schofield@oecd.org](mailto:Janet.Schofield@oecd.org) || [www.oecd.org/agriculture/crp](http://www.oecd.org/agriculture/crp)