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COMUNITATEA DE LUCRU
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РАБОТНА ОБШНОСТ
ДУНАВСКИ СТРАНИ
РОБОЧА СПІВРУЖНІСТЬ
ПРИДУНАВСЬКИХ КРАЇН

Working Community of the Danube Countries

Council of Danube Cities & Regions



Participants and organisers of the 24th Conference of the *Working Group Sustainability* in front of the UFT Tulln, A

**Working Group Sustainability, Energy and Environment focusing on
soil protection & sustainable land use**

UFT Tulln/ Austria, April 26th, 2017

Documentation

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Please find all the details and more pictures on our website: <http://www.unserboden.at>

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1. Agenda

- 0. Welcome and introduction
- 1. Review and summary
- 2. Key aspects and activities 2017
- 3. Next Resolution, Draft
- 4. Work Programme 2017/2018

2. Overview of presentations

Please find all the presentations here: <http://www.unserboden.at>

Christian Steiner:	Welcome and introduction
Roman Tasky:	Presidency of self- governing region Trnava: main activities 2017
Christian Steiner:	ARGE Donauländer/ conference of heads of governments: decisions, work programme
Christian Steiner:	EU- strategy of the Danube region, annual forum
Erwin Szlezak:	Participation days in Tulln and Bratislava and sustainable development goals
Peter Santner:	ClimateGreen AT- CZ
Jaroslava Sobocká:	GreenNet SK- AT
Eva Erhart:	Phosphorus recycling
Eva Erhart:	INTEKO Technological innovation of compost application and soil protection
Walter Wnzel:	CASEE Network
Marija Romic:	Report from the Danube country Croatia
Tamás Nemeth:	Report from the Danube country Hungary
Christian Steiner:	European land and soil alliance (ELSA)

3. Review and Summary: Bratislava, Nov. 3rd, 2016

3.1 Presidency of self- governing region Trnava: Main Activities 2017 (Roman Tasky/SK)

Priorities of Trnava self- governing region presidency:

- focus on areas of water, tourism and knowledge society
- support for European Cultural Route of Saints Cyril & Methodius

- support for project areas within the Working Community of Danube

Activities for better co- operation *Working Group Donauländer*:

- maintain website *Working Group Donauländer*
- support of project activities
- organise meetings of *Working Group Donauländer*
- publish outputs

Next Working Group Meetings:

03.07.2017: Working Groups Culture, Science, Education & Business, Tourism & Transport in the Trnava Region

3.2 ARGE Donauländer/ Conference of Heads of Governments: Decisions, Work Programme (Christian Steiner/ A)

- *2007 Lower Austria has started a soil campaign „Our soil – we stand on it“.*
- *soil- map from the Danube region*
- *task force SONDAR (=Bodenschutznetzwerk im Donauraum)*
- *ELSA: European Land & Soil Alliance*
- *CASEE: Network of Life Science- Universities*
- *2 INTERREG- projects: „GreenNet“ SK- AT & „ClimateGreen“ CZ - AT*

3.3 EU Strategy of the Danube Region, annual forum (Christian Steiner/ A)

targets of EU Soil Framework Directive:

- *establish area- wide soil protection by voluntary measures*
- *maintain & enhance sustainable land use*

soil- protection in Lower Austria:

- *new plantings: about 30 hectares/ year*
- *care measures on 150 hectares in 120 different cadastral municipalities*
- *about 3.000 hectares total stock (since 1958)*
- *plant requirement each year: about 20.000 trees & 80.000 shrubs*

3.4 Participation days in Tulln and Bratislava (Oct. 12th, 2017) and sustainable development goals (Erwin Szlezak/ A)

- Danube – Limes – Project: co- operation of all 12 countries, that are part of this project to set up an Unesco World Heritage
- „Colours of the earth“: crossborder- project
- United Nations set 17 sustainable development goals (e. g. climate action, responsible consumption and production, clean water and sanitation, etc.) to end poverty, protect planet and ensure prosperity for all; goals should be achieved until 2030

4 Key Aspects and Activities 2017

4.1 ClimateGreen AT- CZ (Peter Santner/ A)

- *green infrastructure – climate goals*
- *inside and outside villages allees, hedge- rows & river marchins should be set up(excluding agricultural areas, forests & nature- protected green)*
- *INTERREG- project together with Czech Republic should force fruit- trees along roads*
- *in Austria: environmental management (guidelines, consulting)*

4.2 GreenNET SK-AT (Jaroslava Sobocká/ SK)

Duration: Oct.10th 2017 – Sept. 30th, 2020

projects to establish green infrastructure (GI) in cultural landscape:

- *linking of green infrastructure elements*
- *improve biodiversity*
- *improve ability to provide ecosystem services*
- *climate change mitigation*

activities:

- *establishment of new GI in public and semi-public areas*
- *information system (professional advice)*
- *cross-border working communities*
- *educational events*

Phosphorus Recycling (Eva Erhart/ A)

- improving the availability of phosphorus in secondary raw materials from sewage sludge
- experiments on laboratory scale and on practical scale, chemical analyses, plant experiments
- biochar from sewage sludge, co- composting with organic wastes, effects on plant growth and on nitrogen leaching

4.3 INTEKO Technological innovation of compost application and soil protection (Eva Erhart/ A)

- INTEKO= Innovation of technologies in composting, compost use and soil protection (innovative composting)
- different project and strategic partners in Austria, Germany and the Czech Republic
- Duration: Sept. 2016 – Aug. 2019

Aims:

- innovative technologies for composting
- recycling of phosphorus
- development of a cost- effective method for measuring nitrate

4.4 CASEE Network (Walter Wenzel/ A)

Soil protection and soil management:

- CASEE: Central, Eastern & South- Eastern Europe, subnetwork to ICA with annual conferences
- ICA: platform of life science universities; operating, organising conferences

Educational Programmes:

- Joint master: Danube AgriFood Master (120 ECTS master thesis); at least 2 different universities must be attended during this programme
- 2 summer schools to give new generations sound basics in the fields of soil

4.5 Reports from Danube countries – Croatia (Marija Romic/ HR)

Studies concerning air- und soil quality:

- to find influence for spatial variety soil of urban area of Zagreb is monitored (shape and landscape of Zagreb is challenging).
- at the moment no legislation on soil – guidelines for developing legislation will be offered

- categories of land use and map of toxicated areas (e. g. Pb, like in dumpsites) was set up via soil sampling

4.6 Reports from Danube countries - Hungary (Tamás Nemeth/ HU)

Activities on soil protection in Hungary

4.7 European Land and Soil Alliance – ELSA (Christian Steiner/A)

> 200 members in 10 European countries

ELSA is committed to

- sustainable use of soil
- soil awareness raising
- network co- operation and exchange of experience

ELSA in the Danube region: 14 countries

EU- strategy for the Alpine region (EUSALP)

ELSA- tasks:

- inform about soil
- fertile soils and national security
- common implementation of specific projects
- soil from an international perspective



Speakers and organisers of the 24th Conference *Working Group Sustainability* (from left to right): Christian Steiner, Eva Erhart, Ronald Gilchrist, Jeff Moyes, David Zumr, Brian Oldreive, Otto Kaurzim, Erwin Szlezak, Walter Wenzel, Peter Strauß

Beschlussempfehlung „Bodenschutz und nachhaltige Landnutzung“

Next Resolution, Draft „soil protection and sustainable land use“

1. Der Arbeitskreis Nachhaltigkeit in der ARGE Donauländer setzt seine Zusammenarbeit mit der Priorität 6 „Biodiversität, Landschaft, Luft und Boden“ der EU Donaurationstrategie fort. Die Einbettung und Verbreitung von laufenden und künftigen Projekten erfolgt durch die Task Force SONDAR (Bodenschutznetzwerk im Donauration).

The Working Group “Sustainability” within the ARGE Donauländer continues its co- operation with Priority Area 6 “Biodiversity, Landscape, Air and Soil” of the EU Strategy of the Danube Region. In this context on- going and future projects are embedded and disseminated by the Task Force SONDAR Soil Strategy Network in the Danube Region.

2. Die Arbeitsgemeinschaft Donauländer arbeitet mit bestehenden Netzwerken wie SONDAR, ELSA European Land and Soil Alliance (Europäisches Bodenbündnis), CASEE (Netzwerk der Life Science Universitäten) zur Verbreitung von best practice- Beispielen im Donauration eng zusammen.

ARGE Donauländer acts jointly with existing networks such as SONDAR, ELSA (European Land and Soil Alliance), CASEE (Network der Life Science Universities) to distribute best practice examples in the Danube Region.

3. Die Arbeitsgemeinschaft Donauländer legt besonderes Augenmerk auf die Umsetzung der von den Vereinten Nationen beschlossenen 17 Nachhaltigkeitsziele (sustainable development goals).

ARGE Donauländer turns special attention to the implementation of the 17 Sustainable Development Goals, adopted by the United Nations.

Arbeitsprogramm 2017

- Arbeitskreis „Nachhaltigkeit, Energie und Umwelt“, Schwerpunkt „Boden und nachhaltige Landnutzung“ 26./ 27. April 2017 in Tulln/ AT gemeinsam mit Life Science- Universitäten im Donauraum (CASEE-Netzwerk)
- Jahrestagung Europäisches Bodenbündnis „Urban Gardening“ in Kooperation mit Land Oberösterreich, 18./ 19. Mai 2017 in Linz/ AT
- INTERREG- Projekt SK- AT „GreenNET – Biotopvernetzung und Verbesserung von Ökosystemleistungen Grüner Infrastruktur“, geplanter Start Herbst 2017
- INTERREG- Projekt AT- CZ „ClimateGreen – Klimawandelanpassung von Grüner Infrastruktur“, geplanter Start Herbst 2017
- Anwendung von Wasser- und Bodendaten in den Projekten „HydroBod“ und „Soil Map“ im Herbst 2017 in Petzenkirchen, AT
- „Humusmanagement und regionale Biodüngerproduktion“, laufende Seminare
- INTEKO Technological Innovation of compost application and soil protection

Work Programme 2017

- *working group „sustainability, energy and environment“ focussing on „soil protection and sustainable land use“, April 26/27, 2017 in Tulln, Austria, co- operating with life science- universities in the Danube region (CASEE- network)*
- *annual conference of the European Land and Soil Alliance ELSA „urban gardening“ in cooperation with Upper Austria, May 18/19, 2017 in Linz, AT*
- *INTERREG- project SK- AT „GreenNET – biotope network systems and improvement of ecosystem services of green infrastructure“, intended kick-off 2017*
- *INTERREG- Project AT- CZ „ClimateGreen – adaptation to climate change by means of green infrastructure“, intended kick-off in autumn 2017*
application of water- and soil- data in the projects „HydroBod“ and „Soil Map“ in autumn 2017 in Petzenkirchen, AT
humus management and regional production of organic fertilizers, on-going
- *INTEKO technological innovation of compost application and soil protection*

Vorschau Arbeitsprogramm 2018

- Bodenschutzanlagen als Biotopverbundsysteme: Erhebung und Umsetzung von Bodenschutzanlagen in den Donauländern (Bsp. Mehrnutzungshecken)
- Bodenfruchtbarkeit: flächendeckende Humuswirtschaft als Beitrag zur Klimawandelanpassung (Bsp. Humusmanagement und regionale Biodünger)
- Soil Map – Bodenkarten
- Produktionspotenzial landwirtschaftlicher Nutzflächen: Erhebung der Potenziale für Nahrungs-/Futtermittel und Rohstoffe (Bsp. Donausoja)
- Klimawandelanpassung: Erhaltung und Verbesserung der Grünen Infrastruktur hinsichtlich Gesundheit und Lebensqualität (Bsp. GreenNET , KlimaGrün)
- Verknüpfung von Nachhaltigkeits- und Gesundheitsnetzwerken (Bsp. Projekt „2nd life med“)

Outlook Work Programme 2018

- *Shelter belts as biotope network Systems: assessment and implementation*
- *Soil fertility: area- wide humus management and regional production of organic fertilizers provide relevant contributions to the adaption to climate change*
- *Soil map for the Danube region*
- *Productive potential of agricultural area: assessment of production potentials for food, feed and fibre (example: soya from danube regions)*
- *Adaptation to climate change: protection and improvement of green infrastructure under the aspects of health and quality of life (examples “GreenNET” and “Climate Green”)*
- *Alliance of networks of sustainability and health (example „2nd life med“)*

5. Conference on soil protection and sustainable land use

5.1 Programme

Wednesday, April 26th, 2017

Moderation: Erwin Szlezak, , Lower Austria, WG Danube Countries (AT)

Conferencelanguage: EN

10:00 - 12:00am

Working Group Sustainability, Soil Protection and Land Use
Meeting of the Members of the Working Group
managed by Christian Steiner, Lower Austria (AT)

12:00am – 12:45pm

Arrival / Registration with drinks and snacks

12:45 - 1:00 pm

Group Picture at the Lower Austrian Soil Sign

1:00 - 3:00pm

Opening and Key Notes on Soil Protection and Sustainable Land Use

Peter de Martin / Working Community of the Danube Regions (AT): „Greetings“

Walter Wenzel / University of Natural Resources and Life Sciences (AT):
„Soilmonitoring in Lower Austria“

Anton Reinl / Chamber of Agriculture (AT): “The Common Agricultural Policy according
2020 (GAP) – sustainable Land Use

David Zumr / CTU Prague (CZ): "Soilprotection and Climatechange"

Jeff Moyer / Rodale Institute (USA): „Organic Food Production Systems – 70 years of research“

Brian Oldreive / Foundation for Farming (Zimbabwe): „Plan for the Poor“

3:00 - 4:30pm

Workshops to Soil, Sustainable Land Use and Health

Shelter belts (Soil Protection Plants) for connecting biotopes

Moderation: Peter Santner / Lower Austria (AT) / Erwin Szlezak / Lower Austria, WG Danube Countries (AT)

Collection and Implementation of Soil Protection Systems in the Danube Countries

Planned Projects "GreenNet SK-AT" - Networking and Improvement of

Ecosystem services of Green Infrastructure

"Climate Green CZ-AT" - adaptation of the Green Infrastructure to Climate Change

Soil Fertility

Moderation: Jeff Moyer / Rodale Institute (USA) and Eva Erhart / Bioforschung Austria (AT)

Land-covering humus economy can make substantial contributions to

Climate change adaptations. Model project: best practice of Rodale Institute,

Humus Management and Regional Biofertilizer Production

Jaroslav Zahora (CZ) “INTEKO Technological Innovation of Compost Application
and Soil Protection”

Healthy Soil, Healthy People

Moderation: Ronald Gilchrist / Greenway training (GB)

and Brian Oldreive / Foundation for farming (Zimbabwe)

Ulrike Schauer (AT) "Connection between Healthy Soil and Healthy People",
model projects: Grow Food Natures Way, Eat Yourself Healthy,
Foundation for Farming, Plan for the Poor

Sustainability in Health Care

Moderation: Elke Ledl / NÖGUS (AT)

Linking sustainability and health networks on the example of the planned
project "2nd life med" (sustainable reconditioning of single use medical devices.
Saving resources and creating new jobs) INTERREG HU-AT-meeting of project partners

Nutrient Recycling in Agro-Municipal Systems: Novel Approaches presented by the Research Studio Austria FERTI-MINE

Moderation: Walter Wenzel / University of Natural Resources and Life Sciences (AT)

"From Waste to Fertilizer - phosphorus and carbon waste mining as nutrient recycling
strategy for the future - FERTI-MINE". Michael Pollak / Max Kuderna WPA (AT)
Olivier Duboc / Gerhard Soja BOKU / AIT (AT)

Soil Protection & Climate Change Adaptation

Moderation: Peter Strauß / Federal Office for Water Management (AT)

With Consideration of Climate Change, Carbon Storage and Soil
Biodiversity. Model projects: Lower Austrian district maps,
Christian Krammer (AT) "Hydrobod"

4:30 – 5:00pm **Coffee break and Discussion**

5:00 - 6:15pm **Summing up and Discussion of the Workshops Moderators
and Presentation of the Work Programme 2017/18** Erwin Szlezak

6:15 – 7:00pm **BioResources & Technologies Tulln (BIRT)**
Guided Tour UFT-Tulln, Walter Wenzel

From 7:00pm **Buffet & Come Together**, Connection of projects in the Danube
countries and international co-operations in the context of soil and sustainability

Thursday, April 27th, 2017, Field Trip

to the Farm of the family Grand (VERMIGRAND Naturprodukte GmbH)

Moderation: Alfred Grand / VERMIGRAND (AT)

Language: EN

Hausäcker Straße 12
3462 Absdorf, Austria

8:30 – 9:00am **Arrival in Absdorf**

9:00 am – 1:00pm Visit of the worm composting facility
Introduction to the latest research results
Inspection of newly replanted soil protection systems
Inspection of the soil health tests

1:00 – 2:00pm Lunch at „Heiss“ in Absberg, Kellergasse

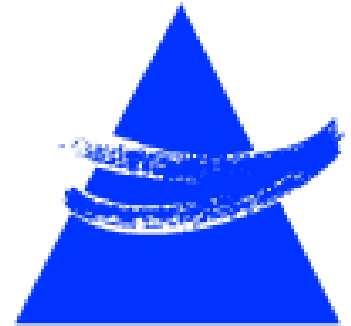
2:00 – 3:00pm Introduction and presentation of "Research and innovation at the farm"

3:00 pm **End of Conference**

5.2 List of attendees

First name	Last name	Institution	Nation
Horst	Aichinger	Orthopädisches Spital Speising	AT
Walter	Amber		AT
Florian	Amlinger	100 - 1st Zero Waste & Organic Cycle Organisation	AT
Julia	Auer	NÖGUS	AT
János	Balog		HU
Phil	Barnes		SI
Iva	Bažon	Faculty of Agriculture	HR
Helena	Bendova	CZ Ministry of Environment	CZ
Ivan Niko	Botica	Faculty of Agronomy, University of Zagreb	CRO
Zoltán	Dezsény	Hungarian Research Institute of Organic Agriculture	HU
Lisa	Doppelbauer	Bioforschung Austria	AT
Olivier	Duboc	BOKU	AT
Peter	Ehgartner	BOKU	SWE
Imre	Erdődi	ÖMKI	HU
Eva	Erhart	Bioforschung Austria	AT
Erzebeth	Eti Kazari	Zalakar	HU
Franz	Fehr	BOKU	AT
Leopold	Fischer	Vermigrand	AT
Thomas	Gansch	Region Elsbeere Wienerwald	AT
Erika	Gärber	NÖ Agrarbezirksbehörde	AT
Ronald	Gilchrist	Greenway	SCO
Alfred	Grand	Vermigrand	AT
Tomáš	Grulich	Jihomoravský kraj	CZ
Elfi	Hasler	NÖ Agrarbezirksbehörde	AT
Romana	Holle	Ökoring e.V.	DE
Vito	Horvatić	Faculty of Agronomy, University of Zagreb	CRO
Vit	Hrdousek	LAG Southmoravia	CZ
Jitka	Hrodejova	Jihočeského kraje	CZ
Zita	Izakovicova	Ustav krajinej ekologie SAV	SK
Kvetoslava	Jablonicka	LAG Podhoran	SK
Otto	Kaurzim	NÖ Agrarbezirksbehörde	AT
Attila	Kökény	ÖMKI	HU
Christian	Krammer	Land NÖ, Abteilung BD3	AT
Marta	Krejčickova	LAG Southbohemia	CZ
Bernhard	Kromp	Bioforschung Austria	AT
Max	Kuderna	WPA	AT
Christian	Labut	Land NÖ, Abteilung BD3	AT
Elke	Ledl	NÖGUS	AT
Vlado	Licina	University of Belgrad	SRB
Margus	Lille	Estonian Organic Farming Foundation	EST
Margo	Mannsberg	Estonian Organic Farming Foundation	EST
David	Marin	BOKU	DE

Istvan	Martinsevic	Zalakar	HU
First name	Last name	Institution	Nation
Petrus	Mayrhofer	NÖ Agrarbezirksbehörde	AT
Jeff	Moyer	Rodale Institute	USA
Lusine	Nalbandyon		
Tamás	Németh	Hungarian Academy of Sciences	HU
Antonin	Okenka	Microregion Hornacko	CZ
Brian	Oldreive	Foundation for Farming	Zimbabwe
Robert	Peticka	Universität Wien	AT
Martina	Petrova	Verein Naturgärten CZ	CZ
Michael	Pollak	WPA	AT
Wolfgang	Pöschl		AT
Anton	Reinl	Austrian Chamber of Agriculture	AT
Regina	Rinner	BOKU	AT
Marija	Romic	University of Zagreb	HR
Dabor	Romic	University of Zagreb	HR
Gábor	Rubin		HU
Klemens	Rybaczek	BIENE	AT
Franz	Rybaczek	BIENE	AT
Robert	Rybaczek-Schwarz	goodworks	AT
Manfred	Sager	Bioforschung Austria	AT
Peter	Santner	Land NÖ, Abt. Umwelt- und Energiewirtschaft	AT
Ulrike	Schauer	Land NÖ, Abt. Umwelthygiene	AT
Robert	Schneider	Bio Austria NÖ&Wien	AT
László	Simon	University of Nyíregyháza	HU
Rastislav	Skalsky	NAFC-Soil Science and Conservation Research Institute	SK
Jaroslava	Sobocka	NAFC-Soil Science and Conservation Research Institute	SK
Gerhard	Soja	AIT	AT
Sabine	Stadler	pedagogical colleage Krems, Wien, trainer to NEBA	AT
Christian	Steiner	NÖ Agrarbezirksbehörde	AT
Marian	Sternah	uvc TT	AT
Michael	Stiller	Dialog.Werk.Statt.AT	AT
Peter	Strauß	Federal Office for Water Management	AT
Stefan	Streicher	Natur im Garten	AT
Erwin	Szlezak	NÖ Agrarbezirksbehörde	AT
Roman	Tasky	Region Trnava	SK
Katarina	Trzec	Faculty of Agronomy, University of Zagreb	CRO
Walter	Wenzel	University of Natural Resources and Life Sciences	AT
Peter	Wiesbauer	BIENE	AT
Koen	Willekens	Institute for Agriculture, Fisheries and Food Research	BE
Jaorslav	Záhora	Mendel Univerzity in Brno	CZ
Mariella	Zilahi-Lugbauer	Askin	AT
Josip	Zubac	Faculty of Agronomy, University of Zagreb	CRO
David	Zumr	CTU Prague	CZ
Marko	Zupan	University of Ljuljana	SI



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6. Contact

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