Earlier this year

7th ISCC Global Sustainability Conference and ISCC e.V.
General Assembly

Wednesday, 15 February 2017 in Brussels

After the great success of the ISCC Global Sustainability Conferences in previous years, ISCC is very much looking forward to an illuminating upcoming conference. This important annual ISCC Conference is open to all interested parties and has been established as an important platform for industry, trade, NGOs, associations, research and authorities to present and discuss recent developments, challenges, opportunities and emerging trends in sustainability and sustainability certification.

The focus of this conference will be on the implementation of the Paris COP21 Agreement - Decarbonization and Sustainability.

The conference will cover three main topics:
- Policy and Regulation
- EU Member States. Renewable Energy in Transport until 2020 and Beyond
- Innovative Solutions for Practical Implementation

High-ranking decision-makers from the European Commission and national authorities, industry and associations will approach the topics from different angles.

The attendance is free of charge.

General Assembly of the ISCC Association

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Workshop
Geo-Information for Palm Oil

08th February 2017
Institute of Computer Science, University of Osnabrück, Germany
Building 50, Room E09, Wachsmüllerei 27, 49099 Osnabrück

09:30 - 10:00  Registration (Room 32/109)
10:00 - 10:30  Opening & introduction
11:00 - 11:30  “Contributions of remote sensing to support palm oil sustainability” by Dr. Christine Pohl, UOS
11:30 - 12:00  “The role of geo-information in palm oil research” by Dr. Iris van Duren, ITC
12:00 - 12:30  “International Sustainability and Carbon Certification and Global Risk Assessment Services in the context of palm oil” by Mohammad Abdur Razek, GRAS/ISCC
12:00 - 12:30  “Monitoring smallholder oil palm plantations: A multi-sensor approach” by Ditte Trojaborg, ITC
12:30 - 14:00  Lunch, Mensa UOS
14:00 - 14:30  “Detection of growth anomalies in oil palm plantations using high resolution optical and SAR remote sensing data” by Nils Sohns, UOS
14:30 - 15:00  “Oil palm plantation mapping and monitoring using high spatial resolution remote sensing” by André Baldauf, UOS
15:00 - 15:30  Workshop Wrap-up: research and strategies for the future
15:30 - 16:00  Coffee Break
16:00 - 16:00  GI Forum Presentations (Room 32/109)
1. M.A. Razek, “Mapping and monitoring zero-deforestation from policy to field” and “Detecting deforestation and grassland conversion for Sustainability Stockholders
2. I. van Duren, “Geo information in natural resources management including energy efficiency of canola derived biofuel in Europe”

> 18:00  Dinner

There is no registration fee. For planning purposes it is necessary to register in advance by email.

Contact & Registration: Dr. Christine Pohl
christine.pohl@uuas.de / Tel. +49 541 969 7216
Institute of Computer Science, UOS
Palm oil production and sustainability certification

What do we need to produce sustainably?

Land with suitable properties and a suitable climate

People and acceptance/support by people

Finances, investments and profits

Source: Iris van Duren
Palm oil production and sustainability certification

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Palm oil production and sustainability certification

**Combination of bio-physical factors**

**Biophysical suitability for oil palm**

**Climate**
- Annual rainfall
- Number of dry months
- Mean Annual temperature
- Temperature of the coldest month

**Soil**
- Permanent soil properties
  - Soil texture
  - Distribution of wetlands
- Manageable soil properties
  - Nutrient status
  - Acidity
  - Salinity
  - Drainage
  - Layers of peat, sand, stones

**Topography**
- Elevation
- Slope inclination

**Climate suitability**

**Soil suitability**

**Topography suitability**

**Agronomic requirements for oil palm**

Figure 1: Scheme of the computation of the suitability map. Blue rectangles represent spatial data, green rectangles represent non-spatial information.
Palm oil production and sustainability certification

Global oil palm suitability assessment
Pirker, J. and Mosnier, A.
IIASA Interim Report
March 2015
Palm oil production and sustainability certification

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no forest destruction, land grabbing, unsafe conditions pressure on people

but supporting people, safe conditions

Spatial info needed to show when and where this happens.
Palm oil production and sustainability certification

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Wilmar International has a track record of land-grabbing and deforestation.

In 2014, EU and US financiers together hold €371 million in shares in, and €1.1 billion in loans outstanding to, Wilmar.

Some of the banks involved:

ING
Rabobank
Deutsche Bank
British bank HSBC
BNP Paribas
Palm oil production and sustainability certification

To allow:
• End users to have (a choice for) a sustainable product

We need to push:
• Producers to produce according sustainability standards
• Financers to invest only in sustainable production
• Governments to put sustainable production in laws and regulations
• Control mechanisms to check sustainable production

Certification needed
What do we need to know? What do we need to know it?

Producer’s compliance with sustainability criteria
Standardised / transparent methods to assess compliance with sustainability criteria

well-trained assessors
What do we need to know?

What do we need to know it?

PRINCIPLE 1: Biomass shall not be produced on land with high biodiversity value or high carbon stock. HCV areas shall be protected.

PRINCIPLE 2: Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.

PRINCIPLE 3: Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents.

PRINCIPLE 4: Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations.

PRINCIPLE 5: Biomass production shall take place in compliance with all applicable regional and national laws and shall follow relevant international treaties.

PRINCIPLE 6: Good management practices shall be implemented.
What do we need to know?
What do we need to know it?

Producer’s compliance with sustainability criteria

Scientifically sound methods and tools and tools

Locate and quantify
• deforestation and other land conversions
• erosion and pollution
• loss of biodiversity and other ecosystem services
• land use rights and land grabbing
• climate change
What do we need to know?
What do we need to know it?
What do we need to know?
What do we need to know it?

Aims of this workshop:

Present recent and current research and activities

Brainstorm on possibilities for future research and activities

Set priorities and see how we can produce output together

Request to all presenters:
Can I get your presentation?
Great opportunity to explain what we are doing to a large audience

You will receive instructions about length, format and deadline.
Lunch and dinner

Lunch in the ITC Restaurant
we go together
you take what you like
I’ll pay with the representation card
there is a table reserved for us

Dinner in restaurant “ONS” (Walstraat 41)
We can walk from here
Options: - vegetarian rolls (fried)
- fish (mackarel) with beet root and quinoa
- beef (entrecote) with herb butter
- pork with an apple sauce
Have a great day!