

# International workshop on Open Land Data: Mobile Apps and Geo-services for Open Soil Data

- **2-4 July 2017** (week after the [Pedometrics 2017 meeting](#))
- Wageningen University campus, GAIA 1

Hosted by: T. (Tom) Hengl, R. (Rik) van den Bosch ([ISRIC — World Soil Information](#)) and J.E. (Jeff) Herrick ([U.S. Department of Agriculture — Agricultural Research Service](#), New Mexico State University)

## Objectives

1. *To set up an international consortium under a working title “Open Land Data and Software” to support joint development and international collaboration (inspired by the [R Open Science](#) initiative and the [Open Knowledge International](#)).*
2. *To set-up a community website to support promotion of new technology, events, discussions (mailing list + blog) and similar.*
3. *To select and agree on the data exchange standards and data licenses compatible with this consortium, and establish submission and evaluation guidelines for contributed data sets and software.*
4. *To network: to gather various groups / projects developing mobile phone apps and webservices in the world and regularly update each other about the progress in the field.*

This initiative is inspired by the multiple national and regional initiatives aiming at open environmental data and research collaboration including:

- [GODAN Global Open Data for Agriculture and Nutrition](#),
- [the Free Culture Movement](#),
- [the Open Source Software initiative](#),
- [Berlin Declaration on Open Access to Knowledge](#),
- [Global Open Data Initiative](#),
- [Whitehouse's Open Data and Open Science initiative](#),
- [U.S. Federal Open Data Policy](#),
- [European Commission's European Open Science Policy Platform](#),

Some of the key principles and general objectives of the [LandPKS project](#) have been laid out in:

- Herrick, J. E., Beh, A., Barrios, E., Bouvier, I., Coetzee, M., Dent, D., ... & Matuszak, J. (2016). [The Land-Potential Knowledge System \(LandPKS\): mobile apps and collaboration for optimizing climate change investments](#). *Ecosystem Health and Sustainability*, 2(3).

Some of the key principles of the [Global Soil Information Facilities](#) have been laid out in:

- Hengl T, Mendes de Jesus J, Heuvelink GBM, Ruiperez Gonzalez M, Kilibarda M, Blagotić A, et al. (2017) [SoilGrids250m: Global gridded soil information based on machine learning](#). *PLoS ONE* 12(2): e0169748. doi:10.1371/journal.pone.0169748

## Preliminary programme

**DAY 1:** Sunday 2nd July ([De hoge born farm \(DHB\)](#))

Period	Title / description
15:45	Hof van Wageningen (organized transportation)
16:00	Arrival and welcome with a guided tour of the DHB
16:15–16:45	Introduction to the soils of the Gelderse Valei (Stephan Mantel)
16:45–18:00	Testing / demo of apps in the field presentations (poster stands)
18:00–19:00	Discussion in groups
19:00–21:00	Dinner (make your own pizza)

**DAY 2:** Monday 3rd July ([Gaia 1](#))

*This is a preliminary programme subject to corrections.*

Period	Title / description	Presenter
8:30–9:00	<i>Registrations and morning coffee</i>	
9:00–9:15	Welcome note	ISRIC director
9:15–9:30	Programme and objectives	T. Hengl
9:30–9:50	<b>"LandPKS project progress and outputs"</b> (A0 poster) (20 min)	S. Wills
9:50–10:10	<b>"Developing technologies for rapid / on-site soil assessment"</b> (20 min)	M. Fajardo (invited speaker)
10:10–10:30	<b>"Open Soil Data in Support of Agricultural Diversification"</b> (A0 poster) (20 min)	E. Jahanshiri
10:30–11:00	<i>Coffee break</i>	
11:00–11:20	<b>"mySoil and UKSO developments"</b> (A0 poster) (20 min)	D. Robinson
11:20–11:40	<b>"Standardisation of world soil profile data to support global mapping and modelling --- the WoSIS approach"</b> (20 min)	N. Batjes
11:40–12:00	<b>"Big data in agri-environmental research"</b> (20 min)	R. Lokers (invited speaker)
12:00–12:20	<b>"The ideology and history of open soil data in the USA – Can citizen science be used for digital soil mapping?"</b> (20 min)	D.G. Rossiter (invited speaker)
12:20–12:30	<i>Discussion session</i>	
12:30–13:30	<i>Lunch break</i> (optional: visit to the World Soil Museum)	
13:30–13:50	<b>"SoilGrids as an OpenStreetMap for soils"</b> (A0 poster) (20 min)	T. Hengl
13:50–14:10	<b>"Combining Geoserver, Geonetwork and Rasdaman for environmental data applications and precision agriculture"</b> (20 min)	M. Kilibarda (invited speaker)
14:10–14:30	<b>"Towards an Integrated Global Land Cover Monitoring and Mapping System"</b> (20 min)	M. Herold (invited speaker)
14:30–14:50	<b>"GODAN: overview of activities in 2016-2017"</b> (20 min)	Fenny van Egmond
14:50–15:10	<b>"The Vital Signs Project: Open Data on Soils, Biodiversity, Land Degradation, and Human Wellbeing"</b> (A0 poster) (20 min)	M. Cooper (invited speaker)
15:10–15:30	<b>"Soil organic carbon dynamics in Eastern Australia"</b> (20 min)	E. Hobley

Period	Title / description	Presenter
15:30-16:00	Coffee break	
16:00-17:00	<p><i>Public seminar</i> (door open to everyone)</p> <ul style="list-style-type: none"> <li>- D.A. Robinson (Centre for Ecology and Hydrology, UK) "<b>Monitoring National Soil Change with Structured and Unstructured Data</b>" (20 min)</li> <li>- D. Schulze (Professor of Soil Science, Agronomy Dept., Purdue University): "<b>Soil Explorer: a viewer for Open Soil Data</b>" (20 min)</li> <li>- S. Wills (National Soil Survey Center, Natural Resources Conservation Service, United States Department of Agriculture) "<b>LandPKS: Better land management through mobile apps and soil data</b>" (20 mins)</li> </ul>	
17:00-19:00	<i>Borrel / happy hour with posters</i>	

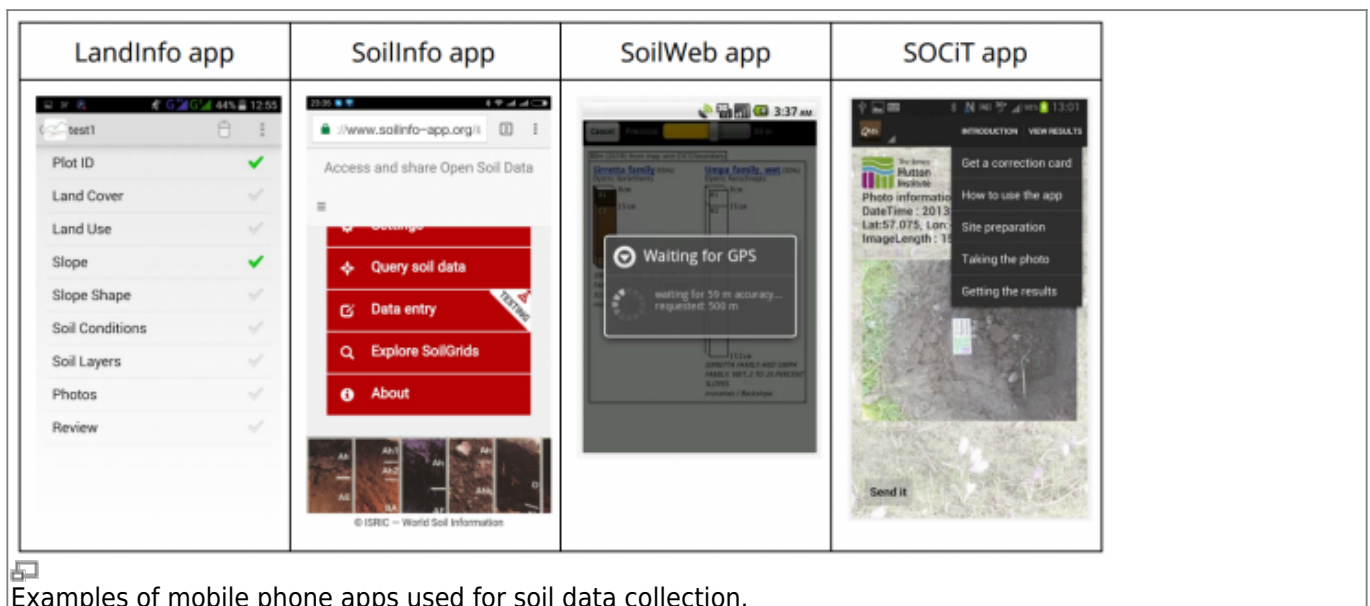
**DAY 3:** Tuesday 4th July ([Gaia 1](#))

Period	Title / description
9:00-9:30	Summary of the discussion from the previous day
9:30-9:50	" <b>A little bit of everything</b> " Matt Aitkenhead (20 min)
9:50-10:30	Work in groups (to be determined on Monday)
10:30-11:00	<i>Coffee break</i>
11:00-12:30	Work in groups (to be determined on Monday)
12:00-12:30	Closing points and next steps

## Who is invited

We aim at where various research and development teams that actively develop and promote sharing of global or regional soil and other land-related data. We are counting that number of participants of the **Pedometrics 2017** conference would likely be interested in this workshop and will join us.

Registrations will be open for groups and participants working with development and/or application of web services and tools for Open Data (data registered under some of the Open Data licenses). The workshop will be limited to **maximum 25 oral presentations** to be selected and included into the programme by the organizing committee.



Examples of mobile phone apps used for soil data collection.

# Venue

Wageningen University campus / ISRIC, Gaia 1



## Points of Interest

id	symbol	latitude	longitude	description
1		51.9900734°	5.6557128°	Hogeboorn farm <b>Field work venue</b>
2		51.98732°	5.66646°	Mobile Apps and Geo-services for Open Soil Data <b>Workshop venue</b>
3		51.968141°	5.661625°	Pedometrics 2017 external link: <a href="http://Pedometrics2017.org">Pedometrics2017.org</a>



## Registration fees

Registration fees will be limited to technical costs of organizing the workshop and will cover all meals and logistical costs (an invoice will be provided based on your registration). ISRIC makes no profit from hosting and/or organizing this workshop.

- MSc and PhD-level students: 30 EUR per day
- Regular registration fee: **45 EUR per day**

## Register for the workshop

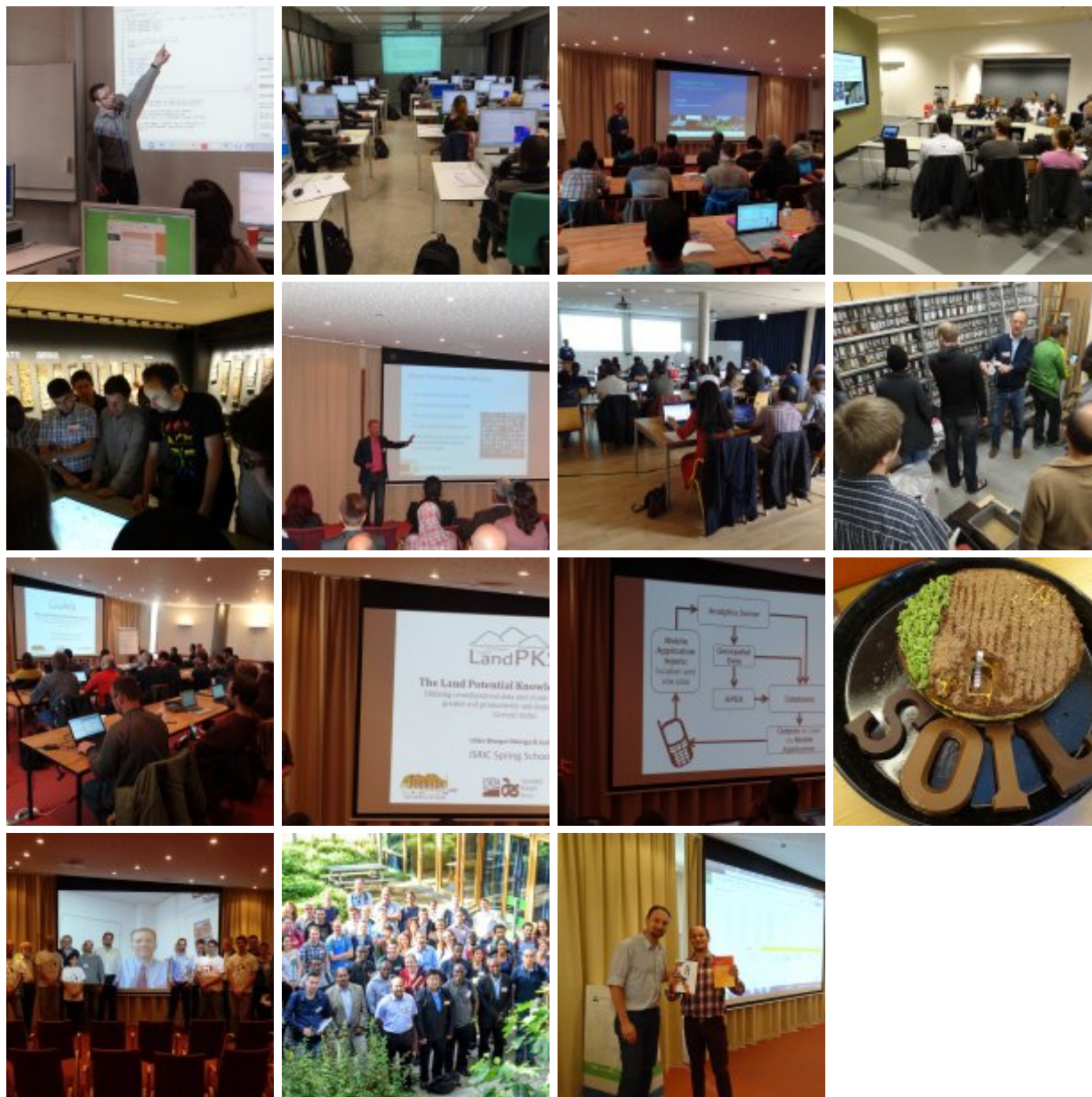
Registrations are now **closed**.

Registration deadline:

- **20th of May 2017**; see also [Pedometrics 2017 important dates](#);

## Previous events organized by ISRIC

- [ISRIC Spring School](#)



From: <http://gsif.isric.org/> - **GSIF (tutorials)**

Permanent link: [http://gsif.isric.org/doku.php/wiki:workshop\\_2017](http://gsif.isric.org/doku.php/wiki:workshop_2017)

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