



Land Governance in an Interconnected World

ANNUAL WORLD BANK CONFERENCE ON LAND AND POVERTY
WASHINGTON DC, MARCH 19-23, 2018



Land and Poverty Conference 2018 Masterclass on

SESSION 14-01 | Discovering Geospatial Remote Sensing Data for Community Land Rights

Friday, March 23, 2018 | 13.30-15.00 hrs | Room MC C1-100, WorldBank

INSTRUCTORS

Christoph Aubrecht, European Space Agency's Representative, World Bank

Hamed Alemohammad, Senior Geospatial Data Scientist, Radiant.Earth

Frank Pichel, Chief Programs Officer and Co Founder, Cadasta



Masterclass summary

This Masterclass will explore how geospatial applications can augment fieldwork, create opportunities for collaboration and lead to new innovations in the land administration sector. We will begin with a brief introduction to remote sensing, as this masterclass is open to practitioners with varying remote sensing experience. The introduction will touch on cloud computing, which has allowed new remote sensing platforms and applications to develop rapidly. Geospatial data's increased accessibility has given way to improved capacity building around the world. Radiant.Earth's geospatial and imagery technology platform supports knowledge transfer to positively impact the world's greatest development challenges. The session will include a live demonstration of the Radiant.Earth platform, from discovering imagery to creating projects and conducting analyses. Radiant.Earth partners with organizations such as Cadasta to put its technology into practice. Radiant.Earth has a strong partnership with the European Space Agency, supporting common goals and objectives with regard to the exploitation of Earth Observation in support of development, and related capacity-building activities. Cadasta will present a case study that illustrates how the integration of geospatial technology can support fit for purpose land intervention, with a focus on current work in Mozambique. The Cadasta presentation will focus on the role of imagery in identifying property boundaries, analyzing spatial details of parcels, the appropriate imagery type in various contexts, and potential future applications. We will conclude with a moderated Q&A session.

Targeted audience: This masterclass is open to all global development professionals seeking to learn about innovative geospatial and analytic applications to advance their work. Geospatial data can enrich programming, save staff time, and enhance outcomes. Whether you are a seasoned remote sensing scientist or a curious practitioner new to the concept, you will leave this session with creative ideas.

Format and Content: This three-part masterclass will be conducted as a lecture, integrating discussions, demonstrations, and audience participation. (Continued Next Page)



Land Governance in an Interconnected World

ANNUAL WORLD BANK CONFERENCE ON LAND AND POVERTY
WASHINGTON DC, MARCH 19-23, 2018



Land and Poverty Conference 2018 Masterclass on

SESSION 14-01 | Discovering Geospatial Remote Sensing Data for Community Land

Friday, March 23, 2018 | 13.30-15.00 hrs | Room MC C1-100, World Bank

Format and Content

This three-part masterclass will be conducted as a lecture, integrating discussions, demonstrations, and audience participation.

Introduction and remote sensing overview. Christoph Aubrecht will welcome the audience, introduce his co-presenters, and outline the class. Chris will provide a brief overview of remote sensing, highlighting different sensors, data, and benefits of the various imagery sources. He will also discuss the trend towards platforms and cloud processing, and explain how these new technologies have led to new innovations and increased capacity building. (15 min)

Radiant.Earth overview and platform demonstration. Hamed Alemohammad will introduce Radiant.Earth, its mission, and offerings. Hamed will explain the Radiant.Earth Platform and perform a live demo of the Platform (from discovery of imagery, and creating projects to conducting analysis on the imagery). Using the Radiant.Earth demo site, he will demonstrate how to export results of analyses and share with the world. The audience will be encouraged to follow along on a smart device. Hamed will demonstrate how to explore the imagery and analysis results using a slider window. Additionally, audience members will learn how to use a measurement tool to estimate the area of interest. (25 min)

Cadasta: overview and integration with Radiant.Earth technology. Frank Pichel will provide an overview of the Cadasta tools, and the role of geospatial data in property rights. He will explore various approaches to capturing spatial data when documenting land claims, and the benefits of remote sensing for property rights with a focus outlining types of imagery most appropriate to analyzing property rights issues. He will demonstrate how Cadasta effectively supported property rights in Mozambique. Lastly, Frank will explore potential future applications using more robust data sets from Radiant.Earth. (25 min)

Conclusion. Chris Aubrecht will moderate a Q&A session at the end of the presentations. (20 min)