



UN Big Data Regional Hub in Brazil

Topic: CONFERENCE “Using Big Data and Machine Learning for Land Cover and Land Use Mapping – Challenges to Mapping Accuracy”

Host country: Brazil (BR)

Under the Auspices of: UNGP Regional Hub for Big Data in Brazil, Workstream 4

Supporting Entities: Brazilian Institute of Geography and Statistics (IBGE), Brazilian Network Information Centre (NIC.br), National Institute for Space Research (INPE), Brazilian Agricultural Research Corporation (Embrapa) – Brazil, UN Big Data Task team on Earth Observation and United Nations Statistics Division - UNSD, FAO-OEA/CIE-IICA working group on agricultural and livestock statistics for Latin America and the Caribbean, World Bank, Geoscience Australia, DANE, IGAC – Colombia, MIDAGRI – Peru, CSRIO – Chile, Economic Commission for Latin America and the Caribbean – ECLAC

Date: July 5 to 7, 2022

Time: 11:00 up to 13:00 (GMT-3, Rio de Janeiro, Brazil)

Format: Virtual

Register: <https://forms.gle/cr6xofhXCpiodKyLA>

Translation: Spanish, English and Portuguese

NOTE:

The Working Group responsible for the Workstream 4: organizing and hosting events of the UN Global Platform Regional Hub for Big Data in Brazil is preparing a free online conference, to bring together experts and researchers from Latin America and the Caribbean, active in the theme of land cover and land use mapping and agricultural statistics, in the Region.

The conference aims to share knowledge and promote the formation of a community of experts and researchers among the countries of the region. Also, facilitate the exchange of information and contribute to the discussion on the use of new data sources and technologies.

AGENDA

Date: Tuesday, July 5, 2022

Time: 11:00 to 13:00 (GMT -3, Rio de Janeiro, Brazil)

11:00 – 11:15	The United Nations Global Platform and the Regional Hub for Big Data in Brazil. Mr. Ronald Jansen, United Nations Statistics Division and Ms. Maysa Sacramento or Ms. Andrea Diniz, National School of Statistical Sciences ENCE/IBGE.
11:15 to 12:20	<p><u>Talk Sessions</u> Big Earth Observation Data for land cover and land use mapping: requirements, methodology and products Welcoming 5’ Moderator – Ms. Lubia Vinhas.</p> <p>11:20 <i>Presentation Brazil Data Cube - big Earth observation data modeled as multidimensional cubes, machine learning and image time series analysis</i></p> <ul style="list-style-type: none"> • 20’ Ms. Karine Reis Ferreira and Mr. Gilberto Ribeiro de Queiroz – coordinators of the Brazil Data Cube Project. Earth Observation and Geoinformatics Division (DIOTG), INPE, Brazil <p>11:40 <i>Presentation Digital Earth Africa - from Earth observation derived insights to impact for Africa</i></p> <ul style="list-style-type: none"> • 20’ Ms. Fang Yuan, Geoscience Australia, Australia. <p>12:00 <i>Presentation Data Cube Chile – a new approach to earth observation data for Chile</i></p> <ul style="list-style-type: none"> • 20’ Mr. Jonathan Hodge – Program Director - CSIRO Chile
12:20 to 12:50	<u>Questions & Answers Session</u>
12:50 to 13:00	Closing remarks & Acknowledgments Moderator – Ms. Lubia Vinhas

Date: Wednesday, July 6, 2022

Time: 11:00 to 13:00 (GMT -3, Rio de Janeiro, Brazil)

11:00 – 11:05	<p><u>Welcoming</u> Mr. Rafael March, Head of Geomatics Coordination, Directorate of Geosciences, IBGE, Brazil</p>
11:05 to 12:30	<p><u>Talk Sessions</u> Land cover and land use mapping initiatives: advances, results, and challenges in the production of official data 5' Moderator – Ms. Maria Luisa da Fonseca Pimenta.</p> <p>11:10 <i>Apresentação INPE/EMBRAPA – TerraClass</i></p> <ul style="list-style-type: none"> • 20' Mr. Cláudio Almeida, Coordinator of the Amazon Monitoring Program and other Biomes, INPE and Alexandre Camargo Coutinho, EMBRAPA, Brazil <p>11:30 <i>Presentation Task team EO – The 50x2030 Initiative on the integration of surveys and satellites for crop type mapping and crop yield estimation.</i></p> <ul style="list-style-type: none"> • 20' Mr. Talip Kilic, Senior Economist, World Bank <p>11:50 <i>Presentación DANE - Cálculo del indicador ODS 11.7.1 a partir de la integración de información estadística, imágenes satelitales y fuentes colaborativas de datos geoespaciales</i></p> <ul style="list-style-type: none"> • 20' Mr. Carlos Alberto Duran Gil - Coordinador / GIT Investigación y Desarrollo, Dirección de Geoestadística - Departamento Administrativo Nacional de Estadística – DANE <p>12:10 <i>Presentación IGAC - Análisis y extracción de información de imágenes satelitales en la nube por medio de Google Earth Engine</i></p> <ul style="list-style-type: none"> • 20' Mr. Nelson Andrés Nieto Valencia - Dirección de Investigación y Prospectiva - Instituto Geográfico Agustín Codazzi - IGAC
12:30 to 12:55	<p><u>Questions & Answers Session</u></p>
12:55 to 13:00	<p>Closing remarks & Acknowledgments Moderator – Ms. Maria Luisa da Fonseca Pimenta</p>

Date: Thursday, July 7, 2022

Time: 11:00 to 13:00 (GMT -3, Rio de Janeiro, Brazil)

11:00 – 11:10	<u>Welcoming</u> Mr. Rafael March, Head of Geomatics Coordination, Directorate of Geosciences, IBGE, Brazil
11:10 to 12:20	<u>Talk Sessions</u> Earth Observation applied to agricultural statistics 10' Moderator – Mr. Octavio Costa de Oliveira. 11:20 <i>Presentation FAORLC - Use of EO data for official crop statistics in the contexts of scarcity of in-situ data: Experiences from FAO projects in countries and overview of new initiatives.</i> <ul style="list-style-type: none"> 20' Mr. Lorenzo DeSimone - Technical Adviser (Geospatial), Office of the Chief Statistician, FAO and Michael Austin Rahija - Regional Statistician for Latin America and the Caribbean, FAO 11:40 <i>Presentation MIDAGRI/Perú - Using Geospatial data to analyze land cover changes and produce national agriculture statistics. Agriculture Minister of Peru.</i> <ul style="list-style-type: none"> 20' Mr. César Ricardo Santisteban Perez, director de la Dirección de Estadística e Información Agraria – Ministerio de Desarrollo Agrario y Riego - MIDAGRI, Perú 12:00 <i>Presentation Colombia - Experiencia DANE en la medición de área sembrada en arroz en el marco del convenio DANE-FEDEARROZ</i> <ul style="list-style-type: none"> 20' Amanda Lucia Soto Agudelo - Coordinadora GIT Temática Agropecuaria - Dirección de Metodología y Producción Estadística - DIMPE
12:20 to 12:50	<u>Questions & Answers Session</u>
12:50 to 13:00	Closing remarks & Acknowledgments Mr. Octavio Costa de Oliveira and Mr. Rafael March

Scheduled Zoom meeting.

Topic: **UNGP Regional Hub for Big Data in Brazil - E2 - July 5-7 2022**

Time:

Jul 5, 2022 11:00 AM

Jul 6, 2022 11:00 AM

Jul 7, 2022 11:00 AM

REGISTRATION

<https://forms.gle/cr6xofhXCpiodKyLA>