8th International Conference on BIG DATA
& Data Science for Official Statistics
BILBAO 2024

Informing Climate Change and Sustainable Development Policies with Integrated Data

BILBAO. SPAIN | 10-14 JUNE 2024 | #UNBigData2024

Conference Program

Monday, 10 June 2024 – Afternoon – Opening session

Registration: 12:30 – 14:00

Time	Session	Speaker / Panelist
14:00 – 14:55	Opening Ceremony	Master of Ceremony: **Ms. Cristina Monge** • **Mr. Imam Machdi**, Deputy Chief Statistician of Indonesia and Acting Chair of the UN Committee of Experts on Big Data and Data Science for Official Statistics • **Mr. Li Junhua**, USG of UN Department of Economic and Social Affairs (Video statement) • **Ms. Kazumi Ogawa**, Head of Europe Regional Programmes, UN-Habitat • **Ms. Maria José Sanz**, Scientific Director, Basque Centre for Climate Change • **Ms. Elena Manzanera**, President of INE Spain • **Mr. Jokin Bildarratz**, Counselor of Education, Basque Government • High-level representative of Spanish government

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Informing Climate Change and
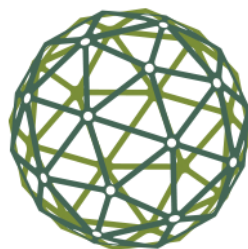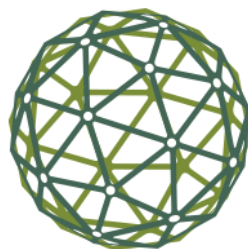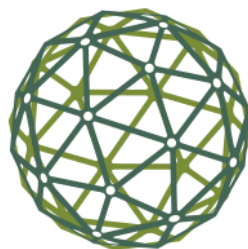Sustainable Development Policies
with Integrated Data

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First High-level Panel "Climate Change and Biodiversity"	
14:55 – 15:50	Keynote speech by **Mr. Mark Wilkinson**, Centro de Biotecnología y Genómica de Plantas UPM, Spain
	Panel discussion – Moderator: **Ms. Maria José Sanz**, Basque Center for Climate Change • **Ms. Maria José Rallo**, President of AEMET, Spain • **Ms. Maria Jesus Rodrigues de Sancho**, Director-General for Biodiversity, Forests and Desertification, Spain • **Mr. Sebastian Treyer,** Executive Director of IDDRI, France • **Ms. Alessandra Alfieri**, Assistant Director, Statistics Department, IMF • **Mr. Adolfo Uriarte Villalba**, Director of Natural Heritage and Climate Change of the Basque Government
15:50 – 16:05	Break
Second High-level Panel "Sustainability of Tourism"	
16:05 – 17:00	Keynote speech by **Ms. Elena Manzanera**, President, National Statistics Institute (INE), Spain
	Panel discussion – Moderator: **Ms. Clara Van der Pol**, Acting Chief Statistician, UN Tourism • **Ms. Apolonija Oblak**, Director General, National Statistical Office, Slovenia • **Mr. Imam Machdi**, Deputy National Statistician, BPS Statistics Indonesia • **Ms. Katherine Lindeskov Johansen**, Chief Consultant, Centre for Regional and Tourism Research, Denmark • **Mr. Julio López Astor**, Deputy Director General, Sub-directorate General for Tourism Knowledge and Studies, Tourism Institute of Spain (TURESPAÑA)

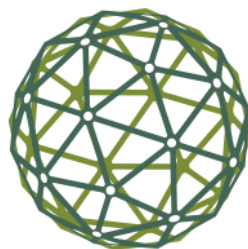|	**Third High-level Panel** **"Knowledge commons for Global Sustainability Challenges"**
17:00 – 17:55	Video message of **Mr. Amandeep Singh Gill**, UN Secretary General's Envoy on Technology
	Panel discussion – Moderator: **Mr. Ronald Jansen**, Assistant Director, UN Statistics Division • **Ms. Haishan Fu**, Development Data Group, World Bank • **Mr. R. V. Guha**, Data Commons, Google.org • **Mr. Ferdinando Villa**, Basque Center for Climate Change • **Mr. Osama Rahman**, Data Science Campus, Office for National Statistics, United Kingdom
17:55 – 18:00	Closing remarks – **Mr. Mohammad Hassan**, Executive Director, Federal Competitiveness and Statistics Center, UAE

Tuesday, 11 June 2024 - Morning			
Time	**Sala 3A**	**Sala 5HTerraza**	**Sala 5A**
9:00 – 12:15 (Break 10:30)	Informing **Climate Change** policies for the Caribbean and Latin America using AI and data innovation - Overview – ECLAC - Project of the IDB / Brazil Hub - Caribbean policy priorities and data needs - DATAS and other projects for Caribbean SIDS - Addressing the data demands of Caribbean (panel discussion)	Monitoring **Sustainability of Tourism** and human mobility with innovative methods - *How to put mobile phone data (MPD) to work for policy, statistics and sustainability.* - Overview – ITU - Opportunities for NSOs (INE Spain) - Preparing the ground: Role of national stakeholders (panel discussion) - Other Applications of MPD - Enablers and Safeguards	**Knowledge common**s for Global Sustainability Challenges Part I: Data Interoperability and Data Spaces - Caliper - European Data Spaces - Spanish Green Data Space - Google Data Commons Part II: Leveraging knowledge commons in the global statistical community - UN Global Platform - UN Data Commons - ARIES for SEEA - Panel Discussion

Tuesday, 11 June 2024 - Afternoon			
Time	**Sala 3A**	**Sala 5HTerraza**	**Sala 5A**
14:00 – 17:00 (Break 15:30)	**How can the UN Regional and Global Hubs on Big Data and Data Science** support climate change, biodiversity, and sustainable tourism? Part I – Global Hubs and UN Global Platform • ARIES for SEEA • UN China Hub • IMF Big Data Hub • UN Global Platform Part II – Regional Hubs on Big Data and Data Science • Brazil • Indonesia • Rwanda • UAE	**Quality of Life session and Demos on use of AIS data for Maritime Transport** Part I – Quality of Life • Introduction • Feedback from weekend workshop • Country experience Part II – Demos on use of AIS data for Maritime Transport • IMF's PortWatch • Statistics Poland • UNCTAD	**Use of Mobile Phone Data (MPD) and Privacy Enhancing Technologies (PET)** Part I – Live demonstrations and code walkthroughs of ITU MPD Python codes • Generation of synthetic data • Cleaning raw data • Quality assurance • Home location • Indicator generation Part II – Demonstrations of PETs • Introduction • Using PySyft for privacy protected data sharing among offices • Country experience
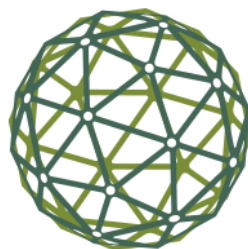
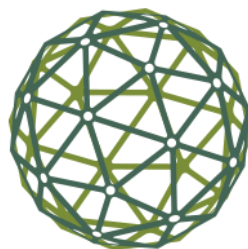8th International Conference on **BIG DATA** & Data Science for Official Statistics

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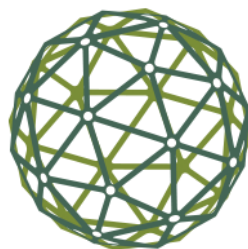
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	Wednesday, 12 June 2024 - Morning		
Time	**Sala 3A**	**Sala 5HTerraza**	**Sala 5A**
9:00 – 12:15 (Break 10:30)	Measuring Resilience: Big Data Approaches to **Climate Change** Risk Assessment Part I - Setting the scene presentation (IMF) • Panel discussion Part II - Measurement framework and applications • Statistical framework • ARIES application • Panel discussion	Informing **Biodiversity** policies through use of big data, remote sensing and citizen science Part I - Information needs for biodiversity • Global Biodiversity Framework • SEEA and data demands • Panel discussion Part II - Big data, remote sensing and citizen science for biodiversity, potential and challenges • EO for biodiversity • Data generated by Indigenous People • Panel discussion	**Data Science and SDG Localization** Part I – SDG Localization • Overview presentation – UN-Habitat • CEPALSTAT and the integration of statistics and geospatial information • Panel discussion Part II – SDG Localization – use cases • SDG Localization – use cases in Basque country • SDG Localization – national use cases Part II – SDG Localization and Data Science • Panel discussion

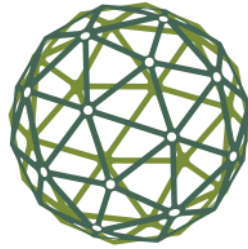| Wednesday, 12 June 2024 - Afternoon			
Time	**Sala 3A**	**Sala 5HTerraza**	**Sala 5A**
14:00 – 15:00	Moderator: Ronald Jansen (UNSD) *Demos on GHG emissions and Human Climate Horizons* • Anthropogenic GHG emissions and removals - Sandro Federici, IPCC) • UNDP's data platform on Human Climate Horizons - Admir Jahic, UNDP	Moderator: Luis Gonzalez (UNSD) *Demo on Open Buildings* • Introduction, Robert Ndugwa, UN-Habitat • Demo on Open Buildings - Abel Tesfaye Korme, Google	Moderator: Ilaria Di Matteo (UNSD) *Demo on Integrating geospatial information for effective forest fire prevention (INEGI / INE Chile)* • Combining satellite data, high-resolution imagery, and geographic information systems (GIS), patterns in terrain conditions, vegetation, and climate. • Integration of geospatial data plays a pivotal role in forest fire prevention by providing a robust platform for gathering, analyzing, and visualizing key information.
Wednesday, 12 June 2024 - Afternoon			
Social program			

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Thursday, 13 June 2024 - Morning			
Time	**Sala 3A**	**Sala 5HTerraza**	**Sala 5A**
9:00 – 12:00 (Break 10:30)	**Climate Change and Health** Part I – Climate Change, Health and Vulnerable Groups • Overview presentation – WHO • UK project on Climate and Health • Climate Change and Health impacts in Informal Settlements • Climate change and gender inequality Part II – Climate Change, Health and Risk and new ways of measuring it • Children at Risk through Climate Change (UNICEF) • Country experience • Panel discussion	**Data Science and Transport** Part I - Overview of Data Science and Transport Statistics • Takeaways from Greening Transport Summit – ITF/OECD • Recent transport data in UK and Canada • UN Global Platform and AIS data Part II – Maritime Transport sector • Global model of maritime transport (DfT, UK) • IMF PortWatch • Statistics Poland • Panel discussion on global collaboration on maritime transport applications	**Using geospatial information, big data and global datasets to develop ecosystem extent maps** Part I - Developing ecosystem maps • Framing presentation • Global ecosystem typology • Panel discussion Part II - Modelling of ecosystem services • Framing presentation • Global indicator on ecosystem services • Panel discussion Part III - Ensuring the data, maps and models are interoperable and useful for ecosystem accounting and reporting under the GBF indicators • Framing presentation • Panel discussion

Closing Session (Plenary)		
Time	Session	Speaker / Panelist
12:00 – 13:00	Closing Ceremony	Moderator: **Mr. Ronald Jansen**, Assistant Director, UN Statistics Division Panel members: • **Ms. Maria José Sanz**, Scientific Director, Basque Centre for Climate Change • **Mr. Osama Rahman**, Director, Data Science Campus, ONS, UK • **Ms. Andrea Silva**, Lead of the Regional Hub of Brazil • **Mr. Imam Machdi,** Deputy Chief Statistician, BPS Indonesia • **Mr. Mohammad Hasan**, Executive Director, FCSC, UAE Statistical Office • **Mr. Gogita Todradze,** Executive Director, Geostat, Georgia Statistical Office

Workshop Program

Time	Sala 3A	Sala 5B	Sala 3B
Thursday, 13 June 2024 - Afternoon			
14:00 – 17:00 (Break 15:30)	**Collaboration among the Regional and Global Hubs** Part I – Scoping the areas of collaboration. • How do the Hubs use/access the UN Global Platform or use own platform? • How do the Regional Hubs work with the Global Hubs? • Can Regional Hubs specialize and support other Hubs? • How do the Task Teams work with the Hubs?	**ARIES for SEEA** Part I – Introduction • ARIES • SEEA Ecosystem Accounting • ARIES for SEEA Part II – Ecosystem extent accounts • Introduction • Compilation of ecosystem extent accounts • Practical exercise	**Use of Mobile Phone Data** *Putting MPD to Work - Theory, Tools, and Tactics* Part I - Introduction • MPD for Statistics • Operator experience • Synthetic data • Addressing MPD bias • Project Management Course • Wrap-up

Friday, 14 June 2024 - All day			
Time	**Sala 3A**	**Sala 5B**	**Sala 3B**
09:00 – 17:00 (Breaks at 10:30, 12:15 and 15:30)	**Collaboration among the Regional and Global Hubs** Part II – Actions on collaboration. • Communication/outreach - how are Hubs doing this? • Also look at challenges identified • Identify solutions for all Hubs • Action planning Part III – UN Products and Tools. • UN Maturity Matrix Assessment - hands on • UN Big Data Catalogue	**ARIES for SEEA** Part III – Ecosystem condition accounts • Introduction • Compilation of ecosystem condition accounts • Practical exercise Part IV – Ecosystem services modelling • Introduction • Ecosystem services modelling using ARIES for SEEA • Practical exercise Part V – Wrap up • Practical steps on how to get started with ARIES for SEEA	**Use of Mobile Phone Data** *Putting MPD to Work - Theory, Tools, and Tactics* Part III – Theory of Change • Introduction • Theory of Change • Practical exercise Part IV – Maturity assessment • Introduction • Practical exercise Part IV – Implementing MPD for policy • Roadmap for an MPD project • Global Data Facility • Round table • Way forward