

## NEWSLETTER

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DOSM/BKS/5.2021/SERIES 21



63rd WORLD STATISTICS CONGRESS

for a Better World"

VIRTUAL 2021

The involvement of the Department of Statistics, Malaysia at

63rd ISI WORLD STATISTICS CONGRESS 2021 - The Hague

Virtually 11 - 16 July 2021

Day 3 (14 July 2021)

"Statistics and Data Science

Scientific

programme of the day

VOLUME 3

Category

Number of programs by Date

1

Introduction of the Day-3\_Live



2

Invited Paper Sessions (IPS)\_Live



3

Special Invited Paper Session (SIPS) Live



4

**IPS Non-Live** 



5

Contributed Paper Sessions (CPS)
Oral Presentation & Poster



6

**ISI General Assembly** 



## ISI General Assembly(GA) LIVE

### WHO

ISI Elected and Regular Members, Institutional and Corporate Members. 7 Association: TIES, ISBIS, IASS, IASE, IASC, IAOS & Bernoulli Society

#### WHAT

- Updates on the progress, achievement and upcoming activities of the ISI and its seven Associations through out 2 years
- Announcement of Members of the Executive Committee and Council for 2021-2023/
- Announcement of the ISI Elected & Regular Members 2020-2021
- Updates on the next ISI WSC in person:
- a. Ottawa, Canada in July 2023: Formal Invitation b. The Hague in July 2025

## HOW

Live discussion: Sharing of ideas and views in expanding the membership of the ISI and its associations involving all regional levels











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#### ISI ASSOCIATIONS

















#### **DOSM Contributions**

- To encourage aspiring young statisticians who are interested in writing papers related to official statistics
   To actively participate and experience the ISIWSC

As Speakers at CPS Oral Presentation

Statistics in Practice - Some Issues IV Activity

#### **About What?**

- Over the years, technology has taken over conventional working process
- How does this applies to electrical, electronic and optical products activity?
- Are we on track for the transition of labour intensive to capital intensive?

















### **SNAPSHOTS @ DAY-3**

3. De facto Population

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The number of people present in specific municipality during a period of time (example: day). The population count can differ significantly. Who are residents, temporary residents, visitors and others who stay in an area.

#### Handbook on the use of Mobile Phone Data (MPD) for Dynamic Population Mapping

....UNBigData

UN Committee of Experts on Big Data and Data Science for Official Statistics has prepared guiding materials for the use of mobile positioning data for dynamic population mapping for the statistical community

## 4. COVID-19 population mobility

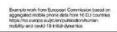
During the COVID-19 pandemic, mobile phone data analysis was conducted in several countries around the world to provide insight into adherence to mobility restrictions and change of residents (urban-rural movement)

JRC TECHNICAL REPORTS

Mapping Mobility Functional Areas (MFA) by using Mobile Positioning Data to Inform COVID-19 Policies

A European Regional Action of the Covid Action of the Covid Only 19 Policies

Action of the Covid Only 19 Policies of the









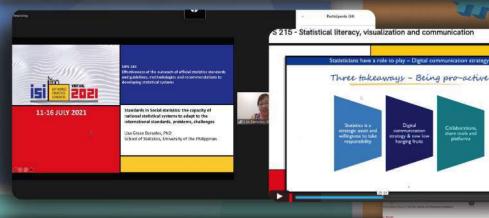
Statistics on Tourism,
Migration, Population and
Displacements by Using
Mobile Positioning Data

IPS Non-Live 106 - Exploring

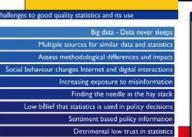


To enable closed captions, please hover over the screen and click 'CC' that appears on the bottom right

In the tourism sector, it is important to know the proportion of domestic versus foreign







\$ 215 - Statistical literacy, visualization and communication











, 215 - Statistical literacy, visualization and communication



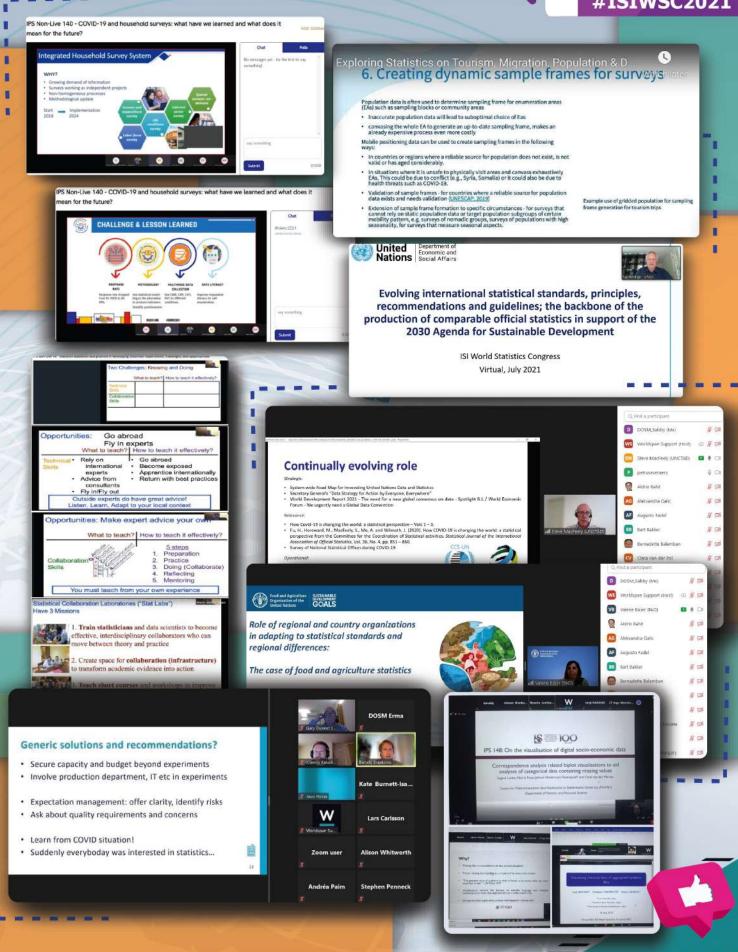


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#### **SNAPSHOTS @ DAY-3**



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#### SOCIAL BUZZ@DOSM



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Em Shafei added 4 new photos from 14 \*\*\* July at 07:00.

10 h · @ · #

"From experimentation to implementation in official statistics".

Thank you for sharing great insight... experimentation to implementation are not confined to technological capability or know-how but it also necessitates a shift in thinking and culture. Thus, to capitalise on the benefits of new techniques in producing statistics, there is a need to venture into a variety of approaches to incorporating data science and analytics into dayto-day operations.

#### Department of Statistics, Malaysia

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# Day 4: IPS 100 session- On the visualisation of digital socio-economic data

The impact of the internet, socmed and smart devices means that people are becoming increasingly literate with use of these technologies. This has changed how we engage with others on a professional and personal level...Visualisation has become the most important tools and techniques when dealing with big data...choosing right tools & techniques are important in data visualisation...

#MyStats4Live



#### Mazreha Ya'akub

Attending the IPS 32 - From experimentation to implementation in official statistics:

This session shares on how NSO is moving to the new technologies and methodologies in producing the official statistics and how they overcome the challenges, especially in terms of production environment, technological capacity, agencies' policies and workforce.

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#### rosmaria @rosmaria05 - 1h

Attending Covid-19 household surveys: What have we learned? What does it mean for the future?

Thanks to all the panelists for sharing their experiences in conducting household surveys during the covid-19 pandemic

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#### Mohammad Illyas @24IIIyas · 6h

Analyzing high-dimensional correlated data is more challenging due to various inherent complexities. There are several advanced statistical models have been proposed to analyze multivariate and high-dimensional time

series data.



#### Afiqah Norazizi @fiqazizi1 · 1h

IPS 215 - Statistical literacy, visualization and communication: "In a world full of data, just release information is no longer a goal. Even clearly-explained content may count for nothing if people don't engage with it".

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Komathi Subramaniam

IPS 245 - Teaching Statistics for Empowerment and Social Engagement

Attend the IPS LIVE Session, a very interesting session! Thanks to all the speakers. This is my new experience in learning about civic statistics and the importance of promoting civic engagement among citizens, especially youngsters in improving their understanding of statistics about burning social issues. Statistical education or literacy needs to be strengthened in improving the knowledge, skills of statistical understanding of the social and economic well-being of society. Further research is needed to improve my understanding of the resources of teaching civic statistics to developed informed citizens

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Day 2 Counting People With Administrative Data Instead of Traditional Census.

Administrative Data as new source of conducting census. Shifting from 'silos' to 'integration' to improve data collection in this new era. Kickstart for the new agenda 'Big Data'. Explore on Machine Learning Model, Model Two Sample Survey Register Approach and Fractional Counting

Thank you for excellence session

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Day 3 Attending excellence session. Congratulation to all the presenters IPS 106 Exploring Statistics on Tourism, Population,...by Using Mobile Positioning Data.

Mobile phone data have become a valuable source of information for national statistical offices.

We need to explore and begin to shift from conventional way of data collection to more modernize approach in conducting household and economic survey.

Transforming statistical landscape with mobile positioning data

Department of Statistics Malaysia

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#Day 4: IPS 32 Session- From experimentation to implementation in official statistics

New & modern methods plus tools have expended the possibilities for producing more timely and granular statistics and reaching broader audience and use of statistical information..traditional approach and machine learning plus AI have to be blend together in producing today's statistics...DOSM have started venturing in this..commitment & full support om everyone in DOSM will ensure the success of the effort...

#MvStats4Lives

@StatsMalaysia

Sabby Lim



Attending ISI WSC 2021: Day 4

SIPS - Effectiveness of the outreach of official statistics standards and guidelines, methodologies and recommendations to developing statistical system

Azreen @axreeen - 11

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#MvStats4Lives

Nor Alkashah Arif Shah

IPS Non-Live 98 - Statistics education and practice in developing countries: experiences.

We are living amidst what is potentially one of the greatest threats in our lifetime to global education, a gigantic educational crisis. The challenge today is to reduce as much as possible the negative impact this pandemic will have on learning and schooling and build on this experience to get back on a path of faster improvement in learning. Thank you to ... See more

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Mobile phone data can now help giving more detailed, more frequent an



Trust isn't something that we demand from somebody. We have to inspire the trust

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Each presenters share interesting methods in data integration from different

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ISI 141 - Great sharing of participants from StatCan, UBOS & VSO Nepal. One of the take aways is to consider relevance, accuracy & interpretability that may contribute to better use of citizen-generated data (CGD) for public policy. @StatsMalaysia #ISIWSC2021 #MyStats4Lives











YOUR DATA IS OUR FUTURE





### **SOCIAL BUZZ@DOSM**



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IPS 42 - Counting People with Administrative Data instead of a Traditional Census

Take 🦣 points:

- The counts of people or households in a nation, by basic demographic and geographic characteristics, are foundational statistics that support a nation's key decisions.
- These counts are often estimated by National Statistical Institutes (NSI) by conducting a traditional population Censuswhile these counts are of high quality, they are very costly owing to the need for a lar...



The Use of Big Data to Predict Economic Activity

Pandemic Covid-19 forced us to stay at home. The NSOs need to explore more on non-traditional data collection in compiling statistics as well as to modernize the data life cycle of compilation, production, and dissemination to make it robust to shocks, including pandemic.

This session discussed on the use of mobile positioning data, google mobility index as well as nighy time light data in predicting economic activity.

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Virtual ISI World Statistics Congress 2021 ~CPS Oral Presentations: Pandemic II~

Alhamdulillah, paper wrote by my colleagues from DOSM Perak was presented during the 63rd ISI WSC, entitled "COVID-19 and Its Impact in the Manufacturing Sector: A Case Study in Perak". Congratulations! Ms Maslina and Ms Nur Aizatul Hajar. I'm proud for you

guys.444



An opportunity to be in line with the experts and shared our team research paper at #ISIWSC2021 virtually today.

The main disadvantage of attending international conference virtually is most sessions on air at late hours due to different time zones 300.

Anyway, a new experience indeed.

#... See More — 6 feeling professional in The Hague, Netherlands.





July 12 at 5:23 PM - & 12 July 12 at 5:23 PM - & 12 July 2021 - 2nd day of 63rd IS

12 July 2021 - 2nd day of 63rd ISI WSC IPS Non-Live Session : Fintech Statistics

What is Fintech? Fintech, broadly defined as digital financial innovation, has rapidly grown over the last years. Monitoring and measuring these new developments is a key task for statistics providing an empirical basis for financial stability, economic, markets, and payment analysis as well as for financial supervision.

The 3 key messages given by the speaker was: Monitoring Fintech is important but difficult, however it is feasible

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I wish to congratulate the DOSM presenters for this paper. I hope that this effort to capture Informal and Micro Economy data in the Era of Digital will pave the way for Malaysia to continue improving the informal employment statistics for improved policies and programmes for the benefit of vulnerable peoples. Welldone speakers!!

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63rd ISI World Statistics Congress 2021-Virtual

ISI Young Statistician Event 10 July 2021

During this session an interview was held with Mr. Stephen Penneck, currently the Vice President of ISI. Among the points he mentioned were trusted and reliable data are among the essence of evidence based decision making.

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Department of Statistics, Malaysia added 13 new photos. July 15 at 9:57 AM · 🚱

INTERNATIONAL PROGRAMME (Day-3@ISIWSC2021)

Yesterday we successfully completed the third day of the #ISIWSC2021 virtual congress, Many thanks and congratulations to all the speakers for their excellent commitment shown throughout the congress!

The world has now become even more increasingly complex and the demand for statistics dramatically increases, in the face of these pandemic challenges. The statisticians, economists, researchers, data scientists are called upon to think differently and predict the future whilst creating new methods, new analyses, methodologies, and innovative in producing the latest statistics to meet the world increasing statistics on a more frequent basis while maintaining a dynamic and gratifying the statistics culture.

International peers and experts demonstrate their findings and the latest approach in the statistical field by presenting on a wide variety of topics in which provide a sense of the current state and future direction of statistics, data science, and their applications.

Looking forward today to see more new approaches and findings of the statistical community. Stay tuned for the #ISIWSC2021











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## DOSM congratulates and appreciates all speakers for their fabulous efforts and willingness to share variety of informative findings that allowed delegates and participants to acquire new methods and ideas in improving the official statistics for decision-making process.

# Congratulations









