International Data Masterclass

Supporting non-analytical policy leaders to put data at the heart of decision-making in Government

What is the International Data Masterclass?

The International Data Masterclass has been designed to help non-analytical senior leaders across world-wide governments to:

- put data and evidence at the heart of their decision making

- gain the skills to create and support a data culture in their organization

- understand how they can use data to improve the way they
  - ✓ make decisions
  - ✓ craft policy
  - ✓ communicate compelling narratives, and
  - ✓ apply cutting edge data science techniques

What is the International Data Masterclass?

Designed to be completed flexibly around a busy schedule, the course:

✓ is delivered in three short modules, providing ~6 hours of learning

✓ is online and accessible from any device

✓ is self paced, and can be taken in bite-sized chunks

✓ awards a certificate upon completion

It may be used as a refresher by analytical leaders, or used by aspiring future leaders to build essential data literacy

What does the International Data Masterclass offer?

The course is delivered across three modules

Via Global Case Studies

Module 1: Data-driven decision-making & policy-making

➤ Learn how to ensure that data and evidence are at the heart of the decision-making process

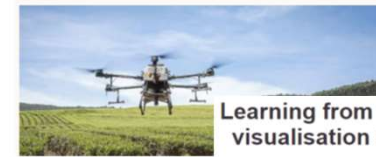## Module 2: Communicating compelling narratives through data

➤ Learn how to understand the data as well as how to communicate clearly, without bias

Module 3: Data science and new frontiers

➤ Learn about new data science techniques, what they mean and how they can support the data ecosystem

Africa will be transformed by the potential of AI and data – if we can get investment
Mahamudu Bawumia
As tech changes the world, Ghana has the young experts to unlock the next industrial revolution, says the vice-president

Learning from the most viewed data visualisation in BBC news history

Covid-19 in the UK: How many coronavirus cases are there in your area?

[Case Study]
Reproducible Analytical Pipelines for the Vanuatu National Statistics Office

11 VNSO staff receiving their certificates for having completed learning, building and managing a Reproducible Analytical Pipeline (RAP) over an 18-month period.

What does the International Data Masterclass offer?

Introduced and facilitated by esteemed global speakers

Introduced by **Sir Ian Diamond**, National Statistician of the UK Office for National Statistics

Facilitated by **Prim Rajasurang Wongkrasaemongkol**, the Youth Advocate for AI for better lives, in Asia & Pacific

What does the International Data Masterclass offer?

Delivered through keynote talks from world-leading data experts, including

Prof Samuel Annim, Government Statistician, Ghana Statistical Service (GSS)

Mr Yusuf Murangwa, Director General of the National Institute of Statistics, Rwanda (NISR)

Mrs Piedad Urdinola, Director General of the National Administrative Department of Statistics, Colombia (DANE)
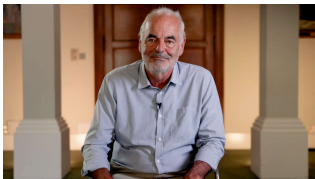
What does the International Data Masterclass offer?

Dr Dennis Mapa, National Statistician and Civil Registrar General of the Philippine Statistics Authority (BPS)

Prof. Jennifer Visser-Rogers, Vice-President of Statistical Research and Consultancy, PHASTAR

Sir David Spiegelhalter, Emeritus Professor of Statistics, University of Cambridge

Learning Objectives

By the end of the course, participants will understand:

- how data can be used to accurately diagnose the problem, and support the design of an intervention, plus the evaluation

- how good quality data forms the heart of robust decision-making

- how evaluation techniques can be used to test potential solutions to identify which work best

- how appropriate narratives and data visualisations can translate numbers into clear and compelling communications, while being aware of the potential for misleading the reader

- the meaning of common data science terms e.g. Artificial Intelligence, Machine Learning, NLP and Reproducible Analytical Pipelines (RAP)

- how data science applications can enable the completion of some labour-intensive tasks better, faster and cheaper or be used to bring different data sources together, to derive new insights

Commendations

"A really fabulous course. Accessible and relevant - you managed to bring what could have been quite a dry issue to life, and make it not too complicated for the data-challenged"
    Corin Robertson, HM's Ambassador to Mexico

"This is leaps ahead of any other [government] online training I've done: I feel I've learnt something rather than ticked a box"
    Sian MacLeod, HM's Ambassador to Serbia

Making every person count. Utilising satellite imagery and deep learning in Somali census planning.

This case study gives you an example of an impressive application of Machine Learning applied to satellite images. We really like this example, because the task (identifying the number of buildings in Somalia) would be extremely difficult if done by hand, but Machine Learning makes light work of it!

Where to find the International Data Masterclass

This is a free and globally accessible course

The course is available via the UN Learning Hub at:
https://learning.officialstatistics.org/course/view.php?id=113

Please register first and then follow the link again

The International Data Masterclass was developed by the Office for National Statistics, in partnership with the Foreign Commonwealth & Development Office, the Economic and Social Commission for Asia & the Pacific, and UN Statistics Division