



**United
Nations**

DESA
Statistics Division



Overview of the Data Science Leaders Network's Playbook

Sprint on
Artificial Intelligence and Data Science
for Economic Statistics

Webinar 1 : 7 November 2024

Content

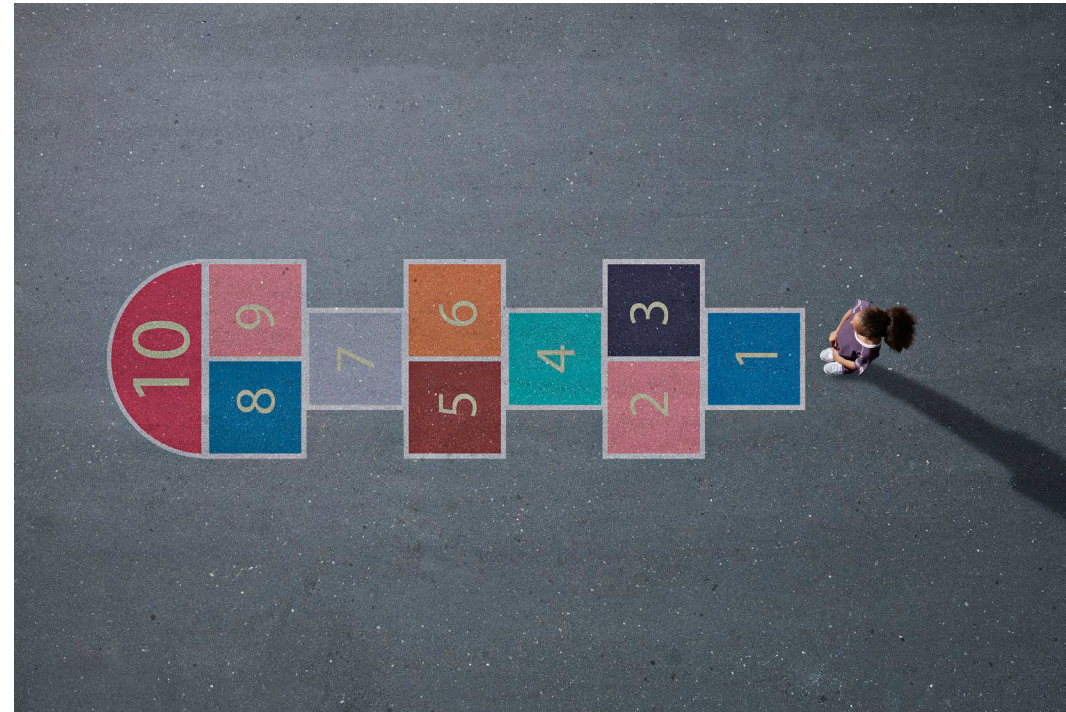
- Process
- Proposed structure

Process

- **1st DSLN Sprint:** Strategic recommendations
- **Bureau meeting:** Endorsed idea of the playbook
- **Brainstorming:** 2 virtual meetings in the end of 2023 provided initial ideas for structure and content
- **2nd DSLN Sprint:** In-person meeting in January 2024 in Dubai

Why a Data Science “playbook”?

- **Action-oriented**
- **Scalable and customizable**
- **Accessible**



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Design principles

- **Purpose and Scope:** Clear definition of what the playbook is intended for, and its limitations, such as it not being a legal regulatory document.
- **Accessibility:** The playbook is being designed to be accessible and user-friendly, catering to a diverse audience.
- **Inclusive:** Make content approachable for both traditional statisticians and new data science practitioners
- **Multiple levels:** Starting with basic-level content, with options to dive deeper into more advanced topics.
- **Relatable content:** Begin each chapter with a case study or example, focusing on relatability to various user groups, including from different regions.

Design principles

- **Diverse NSO experiences:** Highlight experiences from different-sized NSOs, acknowledging those already working with data science.
- **Learning from failures:** Share lessons from significant failures to provide comprehensive insights.



Types of content and format

- **Use cases:** Incorporate practical use cases to illustrate concepts.
- **General resources:** Include concise summaries for senior policymakers and materials catering to university students.
- **Practical resources:** Include links to practical resources like code examples in GitHub, Kaggle.
- **Summaries and quick wins:** Provide summaries with main findings and examples of quick wins for easy reference.
- **Digital format:** Develop the playbook as an online, digital product, allowing for iterative updates and improvements (e.g., using



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Support materials

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Proposed structure for the DSLN Playbook

Overall structure of the playbook

- **Section 1:** Leveraging basic tools of data science for immediate efficiency gains in NSO operations
- **Section 2:** Generating additional insights in response to emerging needs
- **Section 3:** Full transformation of official statistics through digitalization
- **Section 4:** Cross-sectional themes

Efficiency Gains in Current Operations of NSOs

- Automation and process optimization
- Tools and technologies
- Cultural and Process Change Management

Enhancing NSO's Rapid Responses to Emerging Needs

- Data management and integration
- Skill development
- Data quality frameworks
- Leadership and resource mobilization
- Collaboration and real-world engagement

Digital transformation in statistical production

- Leadership and support of digital transformation
- Capacity building and skill development
- Data science tools and methods
- Technology implementation and integration

Wiki Platform for collaboration

- [Style guide](#)
- [Guide to using the Case Study Template](#)
- [Timeline](#)