CONFERENCE ON
EDUCATION DATA
AND STATISTICS

CONFERENCIA SOBRE
DATOS Y ESTADÍSTICAS
DE EDUCACIÓN

CONFÉRENCE SUR LES
DONNÉES ET STATISTIQUES
DE L'ÉDUCATION

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Data for the future and best use of technology in education
How UNSD is leveraging technology for data innovation

Data Science Leaders Network

- Leveraging basic tools of data science for immediate efficiency gains in NSO operations
- Generating additional insights in response to emerging needs
- Full transformation of official statistics through digitalization

Data for Now

- Mainstream use of innovative sources, technologies and methods for production and dissemination data for sustainable development
- For Example: *Integrating multiple data sources and geospatial analysis for educational public policy insights in Colombia*
How UNSD is leveraging technology for data innovation

- **UN Global Platform**: Provides access to data, tools, and processing environments that enable the mainstreaming of big data and data science into the production of official statistics.

- **UNGP Regional and Global Hubs**: Facilitate collaboration in innovation for official statistics to further data science through training and coordination activities.
UN Data – powered by Google Data Commons

- Advanced Natural Language search functionality making it easy for users to access, explore, and utilize the data

- Access related data across multiple domains using linked open data techniques

- Enabling the generation of insights by reasoning over complex relationships.

https://unstats.un.org/UNSDWebsite/undatacommons/sdgs/
Challenges and opportunities in the use of technology

- Making content ready for artificial intelligence
- Curating semantic mappings between various data sources to enable integration tasks
- Maintain comprehensive, user-friendly documentation of every step, from data collection to end-user applications, to ensure explainability, replicability and auditability