

Expert Meeting on Modernizing Statistical Legislation

17-18 November 2022, Geneva

Session 1: Access to privately held data - Panel Discussion

SPANISH EXPERIENCE ON ACCESS TO PHD

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CHALLENGES FOR OFFICIAL STATISTICS IN A DATAFIED SOCIETY

Official statistics is a public good -> We provide a service to the society

Society has changed fast in the last two decades: Globalisation and digitalisation

Citizens have new behaviours and attitudes

More types of users + all want information as fast and detailed as possible

Data and information has become a private and profit business

Private held data > Access problems for statistical purposes

NSOs have to modernise while still offer enough guaranties

NEW WAYS / ROLES

DIGITIZATION AND OFFICIAL STATISTICS

NEW CHALLENGES FOR STATISTICAL OFFICES

- Maintain the leadership in providing high quality information, but improving timeliness and granularity...key question...how?
- Creating partnership with the private sector...to what extend?
- Externalising part of the production?
- Data governance structures: which is better?
 - ✓ Advisory role
 - ✓ Chief Data Officer / Data stewardship role
 - ✓ Data stewardship companion role
 - ✓ Just facilitator or just main user
- ✓ How we communicate it to the society?

ESS AND BIG/SMART DATA

- **Vision 2020** (ADMIN and BIGD Projects).
- **Memorandum of Scheveningen on Big Data** and official statistics (2013).
- **Memorandum of Bucharest on Official statistics in a Datafied society -Trusted Smart Statistics-** (2018).
- **Trusted Smart Statistics Actions and Roadmap 2021-2027** (2019).
- **ESS and the European Data Strategy:**
 - ✓ Technical Group on Privately Held Data and High Value Datasets;
 - ✓ Strategic PG Task Force on Access to Privately Held Data;
 - ✓ ESS position paper on the future governance framework for the common European data spaces.
 - ✓ ESS Position Paper on Data Act

EU DATA POLICY

- 2013: European Council's conclusions on **digital economy and innovation**.
- 2014: Commission Communication "**Towards a thriving data-driven economy**".
- 2015: EC set up the **European Data Portal**.
- 2017: Commission Communication "**Building a European data economy**".
- 2018: Commission Communication "**Towards a common European data space**".
- 2019: New **Directive on open data and the re-use of public sector information** (PSI Directive).
- **2020:** New digital strategy of the Commission: **European data strategy** (with a report on Business-to-Government -B2G- data sharing) and the **White Paper on Artificial Intelligence**.

WORK CARRIED OUT

- **Participation in ESS WG and TF:**
 - ✓ Big Data ESSnet I and II.
 - ✓ Technical Group on Privately Held Data and High Value Datasets.
 - ✓ Strategic PG Task Force on Access to Privately Held Data.
- **Pilot experiences on the use of big data:**
 - ✓ Use of mobile phone data to study population mobility (Census).
 - ✓ Bank transactions data through Point-of-sale terminal (Tourism).
 - ✓ Web scraping for housing prices.
 - ✓ Scanner data for CPI.
- Adoption of project “**Measures for the rationalization of statistical production in INE**”:
 - ✓ Further and better use of administrative registers.
 - ✓ Integration of Big Data in official statistics.
- Promotion of the study of the **new role of Official Statistics** in the NSS

INE'S PATH TO MODERNIZATION

Reinforcing Data management in the NSS

National Statistical Plan 2021-2024: Strategic lines

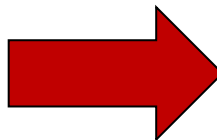
- **Update and adapt statistical legislation:** *“it is necessary to reinforce the capacity of the Statistical System to allow access to privately held data of public interest for statistical purposes, in line with the work of Eurostat and the European Statistical System“*
- **Use of new sources of information:** Intensification of the use of administrative records and use of Big Data and other basic sources of information.
- **Implementation of a new production model:** Including standardization, experimental statistics and the use of new technologies.
- **Georeferencing of statistical data**
- **Efficiency in the use of HHRR:** *Including training in new technologies, the sharing of services and statistical tools in the SEN and an increase in cooperation with the Academia.*
- **Increased international cooperation and participation and boost the work on the 2030 Agenda.**

INE'S PATH TO MODERNIZATION

NEW RECRUITMENT PROCESS...NEW PROFILES

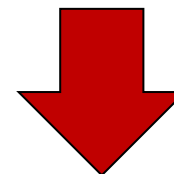
Digitalization

**New data
sources**



New methodologies

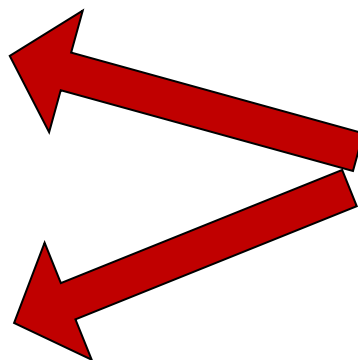
**Modernization of the
production of
statistics**



**Update of the
statisticians
recruitment process**

**New profiles:
data scientist**

**Update of the
statistical Law and
INE's Statute.**



INE'S PATH TO MODERNIZATION

2022: Amendment of the national Statistical Law

- **Legal Framework:** All statistical production shall be developed, prepared and disseminated in accordance with the principles and requirements of the national statistical law, of Regulation 223/2009 on European Statistics and with the quality standards and principles contained in the European Statistics Code of Practices.
- **Statistical principles:** Professional independence, impartiality, objectivity, reliability, statistical secrecy, profitability, transparency, specialty and proportionality.
- **Sources:** Priority source of information for statistical purposes are the data contained in the administrative records (files or directories of the public sector).
- **Data Access:**
 - The statistical services are empowered to collect data from all natural and legal persons or any other entity resident in Spain or that carry out an economic activity in Spain.
 - The statistical services are empowered to collect from legal entities **those data or information that are stored in any of their databases.**
- **Research:** Statistical services may grant research, study or analysis institutions that request it, access to confidential data of indirect identification to carry out statistical analyzes for scientific purposes of public interest.

INE'S PATH TO MODERNIZATION

2022: Amendment of the NSI's Statute

- Three General Directorates: Economic, Social, processes.
- **International Relations and Agenda 2030 Directorate** reporting directly to the President.
- **New Directorate for Training and statistical production Analysis and Innovation:**
 - *“To facilitate the continuous training of staff in new statistical techniques, collaboration between official statistics and the Academia and the analysis of data and procedures to achieve greater coherence and consistency of the results obtained, as required by the European CoP”.*
 - Reporting directly to the President.

INE'S PATH TO MODERNIZATION

PROMOTION OF THE STUDY OF NEW ROLES OF OFFICIAL STATISTICS IN THE NSS

- High Statistical Council: Set up the “**Data Stewardship Working Group**”
 - Aim: Study and make recommendations on the role of official statistics in data administration and management (data stewardship) and the possible governance structure to support the exchange of B2G data.
- Inter-territorial Statistical Committee: Set up the “**Interoperability Node Working Group**”
 - Aim: Set up the legal and technical bases for the creation of a statistical interoperability node in following the national legislation in the field of Electronic Administration.
- Regional Statistical Forum: Set up the “**Data Ecosystem Working Group**”
 - Aim: Identify and facilitate the role of the statistical services in the new data ecosystem..

INE'S PATH TO MODERNIZATION COMMUNICATION CAMPAIGN

e 2021 "Conferences on Access to New Data Sources"

1. The new paradigm for official statistics
2. Statistics and society
3. New data sources and official statistics: B2G4S

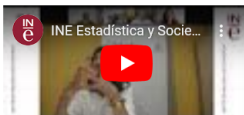
14 de octubre

Nuevas fuentes de datos y estadísticas oficiales: B2G4S Videoconferencia impartida por los ponentes: Juan Manuel Rodríguez Póo, (Presidente del INE), Alberto Palomo (Director de la Oficina del Dato), Richard Benjamins (Observatorio Español "BIDA") y Luis Hernández (Presidente de la Comisión de fuentes de información de ASEDIE). Moderador: Antonio Lorenzo (Director de la revista Tecnología Digital 4.0). Programa completo / Nota de prensa




16 de junio

Estadística y sociedad. Videoconferencia impartida por los ponentes: Juan Manuel Rodríguez Póo, (Presidente del INE), Mar España (Directora de la Agencia Española de Protección de Datos), Daniel Peña (Profesor emérito de la UC3M y Premio Nacional de Estadística) y Marta Ley (Coordinadora de la sección de datos de El Confidencial). Moderador: Antonio Lorenzo (Director de la revista Tecnología Digital 4.0). Programa completo / Nota de prensa.



12 de mayo

El nuevo paradigma para la estadística oficial. Videoconferencia impartida por los ponentes: Juan Manuel Rodríguez Póo, (Presidente del INE), Carlos Cuervo, (Director General de Análisis Macroeconómico, MINECO), Emanuele Baldozi, (Resources Director - Eurostat) y David Villarino (Director de Data - Carrefour España). Actúa como moderador Antonio Lorenzo (Director de la revista Tecnología Digital 4.0). Programa completo



El presidente del INE destaca el amplio uso de registros administrativos y bases de datos privadas en la estadística oficial

20-12-21



Juan Manuel Rodríguez Póo, durante la sesión plenaria



El INE organiza el curso "Retos de la estadística en una sociedad altamente datificada" en colaboración con la UIMP



más INE

Noticias del Instituto Nacional de Estadística

Actualidad Institucional Estadísticas Otros temas

Está Vd. en: Revista digital del INE

Elena Manzanera: "La digitalización nos obliga a investigar nuevas fuentes, a afrontar nuevas necesidades de información y a nuevos procesos"

La presidenta afirma tener muchas ganas de trabajar y de que "entre todos posicionemos al INE en el lugar que debe tener en el ecosistema de datos".



"Digitization forces us to investigate new sources, to face new information needs and new processes"



The president of the INE highlights in the Higher Statistics Council the extensive use of administrative records and private databases in official statistics

USE OF PRIVATELY HELD DATA FOR OFFICIAL STATISTICS

INSTITUTO NACIONAL DE ESTADÍSTICA

BIG/SMART DATA	Design of statistical products within the scope of official statistics	Production of experimental statistics within the scope of official statistics	Regular statistical production within the scope of official statistics	Sstatistical domain
a. Mobile Network operator data	X	X	X (in progress)	Tourism, Population Census
b. Financial transaction data	X	X	X	National Accounts, Tourism, Short-term business statistics, HICP
c. Scanner data from retailers	X	X	X	CPI/HICP
d. Smart devices, sensors, meters	X	X		Census
e. Companies' websites, job portals	X		X	CPI/HICP
f. Collaborative economy platforms for tourism	X	X	X	Tourist dwellings capacity Occupancy of establishments (no hotels)
g. Collaborative economy platforms other than for tourism	X		X	Web scraping, in study

EXPERIMENTAL STATISTICS



https://www.ine.es/en/experimental/experimental_en



Available experimental statistics



Company Demographic Profile



Estimation of tourist accommodation occupancy using data from digital platforms



Studies on mobility based on mobile phone



Distribution of the expenditure made by foreign visitors on Visits to Spain



Multidimensional Quality of Life Indicator (MQLI)



Rental Housing Price Index (RHPI)



Measurement of Large Company Daily Retail Trade



Measurement of the Number of Tourist Dwellings



Measurement of National and Inbound Tourism from

Official Statistics originally experimental



Household income distribution map



Weekly death estimates



Monthly estimates of births

CONCLUSION



Modernisation: Our “GOALS”

- GAIN:** Confidence from PDH and the citizens investing in better communication and transparency.
- OFFER:** Offer to the society and policy makers the most reliable and timely high quality statistics (analysing possible new roles and competences we could provide).
- ACCESS:** Real and sustainable access to all kind of data (G2G/B2G) for statistical (and research) uses.
- LEARN:** Improve our knowledge and experience on the use, treatment and processing of Big/Smart Data and Data Analytics (incl. ICT/HHRR).
- SINERGIES:** Participate in the governance structure of the national Data Strategy (ensuring statistical needs).

**Thank you
for your attention!**

