



# WELCOME.

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Mrs. Maria João Zilhão Mrs. Magda Ribeiro Mrs. Sofia Rodrigues Statistics Portugal Monday 17 July, 8:30 PM – 9:40 a.m.



# **OTTAWA 2023**

64TH WORLD STATISTICS CONGRESS





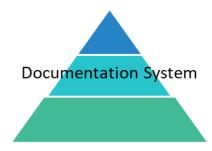


- Quality Management System framework and its various domains
- The National Data Infrastructure (NDI)
- The StatsLab approach to innovation
- Current and future challenges





- National and European legislative framework
  - NSS Law no. 22/2008, chapter II, Articles 4-9 (Quality Principle)
  - Regulation (EC) No 223/2009 (as amended by Regulation 2015/759), Article 7
- European Statistics Code of Practice
- Statistics Portugal Quality Charter and related Policies and Procedures
- ISO standards as a reference, e.g.
  - 9001 Implementation of quality management systems
  - 27001 Information security, and the 27701 extension Privacy information management



# Quality Management framework – Documentation level





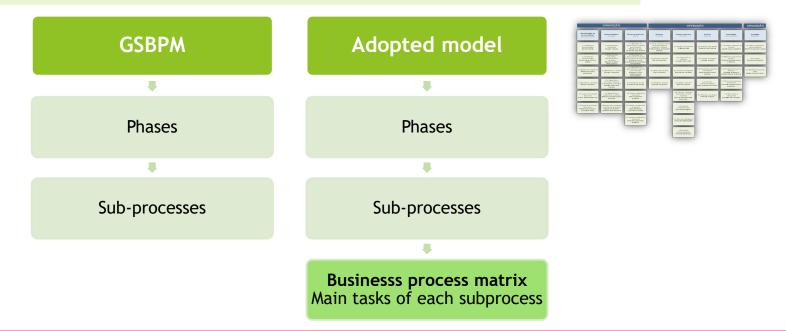
#### Describing the Statistical Business Process Model (i)



Using the GSBPM - Generic Statistical Business Process Model

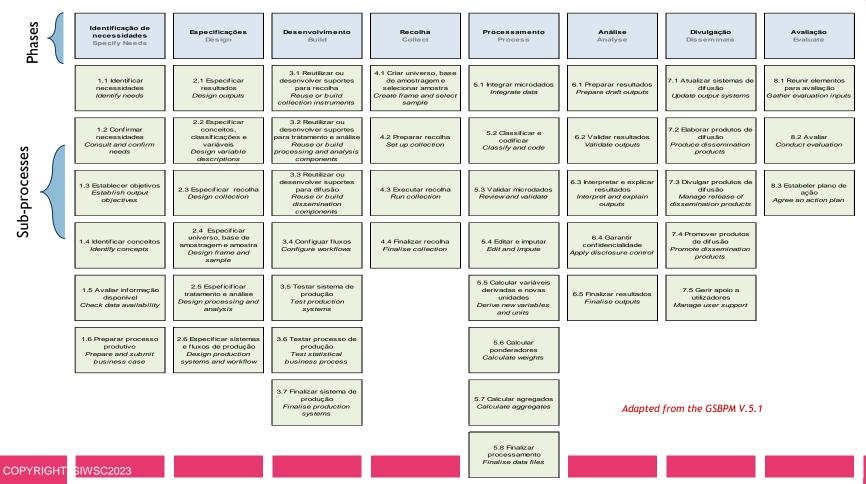
The conceptual model adopted by Statistics Portugal is aligned with the GSBPM (V. 5.1, 2019),

- UNECE, with the addition of one more layer in the **business process matrix** 



#### Describing the Statistical Business Process Model (ii)

#### Phases and sub-processes



### **ISMS – Information Security Management System**

#### Important, significant and imperative

- The information managed by Statistics Portugal, its processes, systems, applications and networks are **valuable assets** for society
- The guarantee of confidentiality, integrity and availability of information ensures the credibility of the services provided by Statistics Portugal

#### Management

- 360º application
- Not specific to a business unit, process or timeframe. It's for everyone, everything and every time
- Continuous Improvement with PDCA cycle
- ISO 27001 certification





# **Quality Management System**

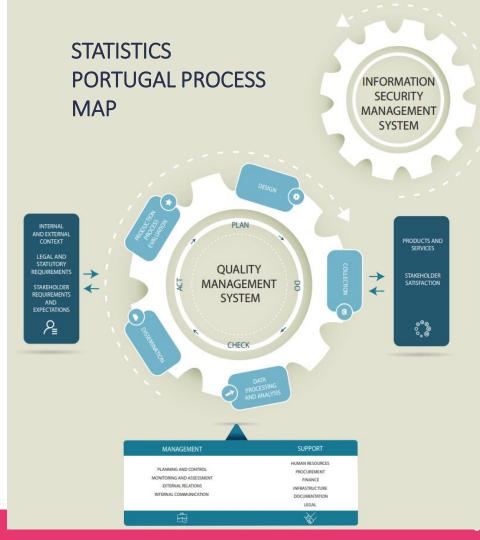
The path to ISO 9001 certification

#### Main tasks:

- Based on the solid experience in using ISO 9000 family norms
- Scope definition and process map
- Systematization of the documentation
- IT documentation system
- Integrated with ISMS
- Internal audit (beginning 2023) and external audit (end 2023)

#### **Basic conditions:**

- Strong leadership support
- Involvement of the organisation



# **Internal Trainning**



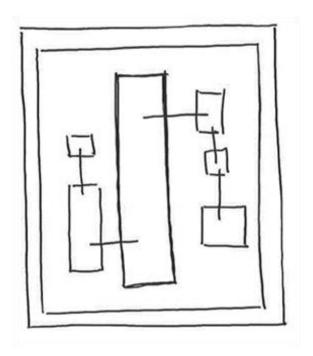
**Specific Training Course** for the integration of statisticians in Statistics Portugal special (in accordance with the Annex to Ordinance no. 355/2015, of 14 October)

- The contents of the training course programme are completely aligned with the Statistical Production Process Handbook
- The Statistical Production Process Handbook accompanies each course session so that participants can better understand the process throughout the training
- During the course participants are required to elaborate a work task and make presentations on specific topics, addressing them in the context of the handbook
- One-morning session is organised, where practical work is presented by each participant in connection with the Statistical Production Process Handbook
- On-job training



The National Data Infrastructure (i)





The Innovation Strategy from 2018 onwards that has been transforming Statistics Portugal The National Data Infrastructure (ii)





### Data driven perspective

# Single dataset, multiple uses

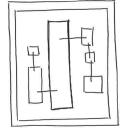
The National Data Infrastructure (iii)



Appropriation and use of administrative data and other sources	Partnerships	New roles
Data integration		Information security and data protection
Innovation	Integrate and share platforms, algorithms, knowledge,	Increase the economic and social value of the public good: statistical information

# The National Data Infrastructure (iv)





more intensive and integrated use of data

substantial enlargement of the covered areas gain resources, space to scale up innovation intensify the appropriation and use of administrative data and other sources

Increase the benefits to society

take advantage of the entire production chain



use of new data extraction techniques

# The NDI and ... innovation





StatsLab – Statistics under Development, is an area available at Statistics Portugal's website where new statistical products are presented before being finalized, aiming at taking advantage of new data sources and new methodologies

- "Quality label"
- Same statistical process
- Innovative products
- High credibility trust
- Communication



- Quality Management System, aiming at an ISO 9001 certification
- Updating the documentation systems the statistical business process description key for innovation
- Building **partnerships** is a long game partners for life. Co-responsibility reciprocity
- Awareness of utility of data
- Sustainability of new conceptual frameworks new data sources and methodologies
- Business Strategy
- Improving quality through innovation
- User perspective
- Resources
- Quality as a driver for a culture of change





# THANK YOU.

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