



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



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Change and innovation in a small National Statistical Office

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The basic idea

- Generic production of official statistics
 - Data flow from data capture to dissemination
 - Steady states of data
 - Harmonized validation processes
 - Centralized classifications
- Reduce manual labor
 - Generic process solutions
 - Process automation
- Harmonized documentation
 - Process metadata
 - Metadata for users

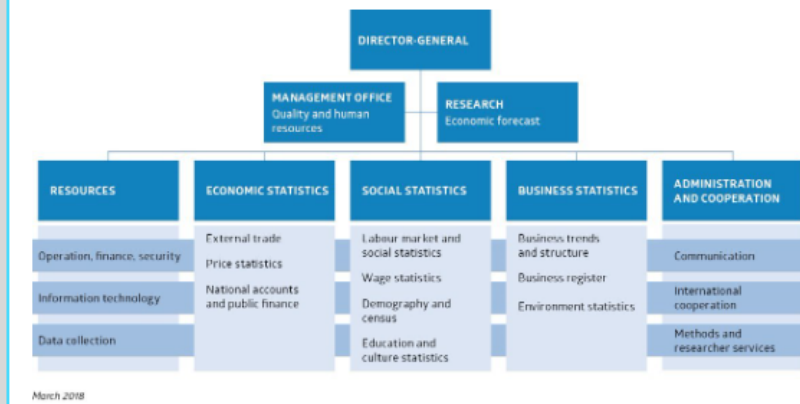


Where are we heading? (What is the ROI)

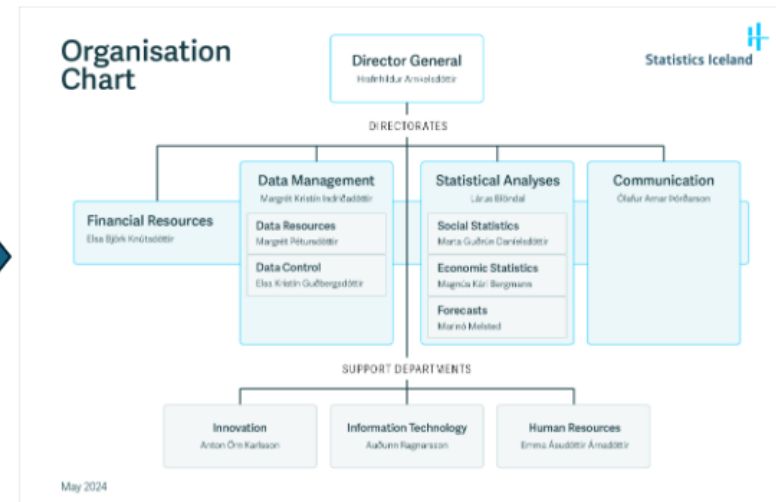
- Re-usability of data
 - More innovation!
- Less time
 - For manual labor
 - Coding, checking validating
 - Figuring out solutions for generic problems
- More time
 - For user interaction and deeper analysis
- Faster response time
- Documentation of data and processes



The organizational chart



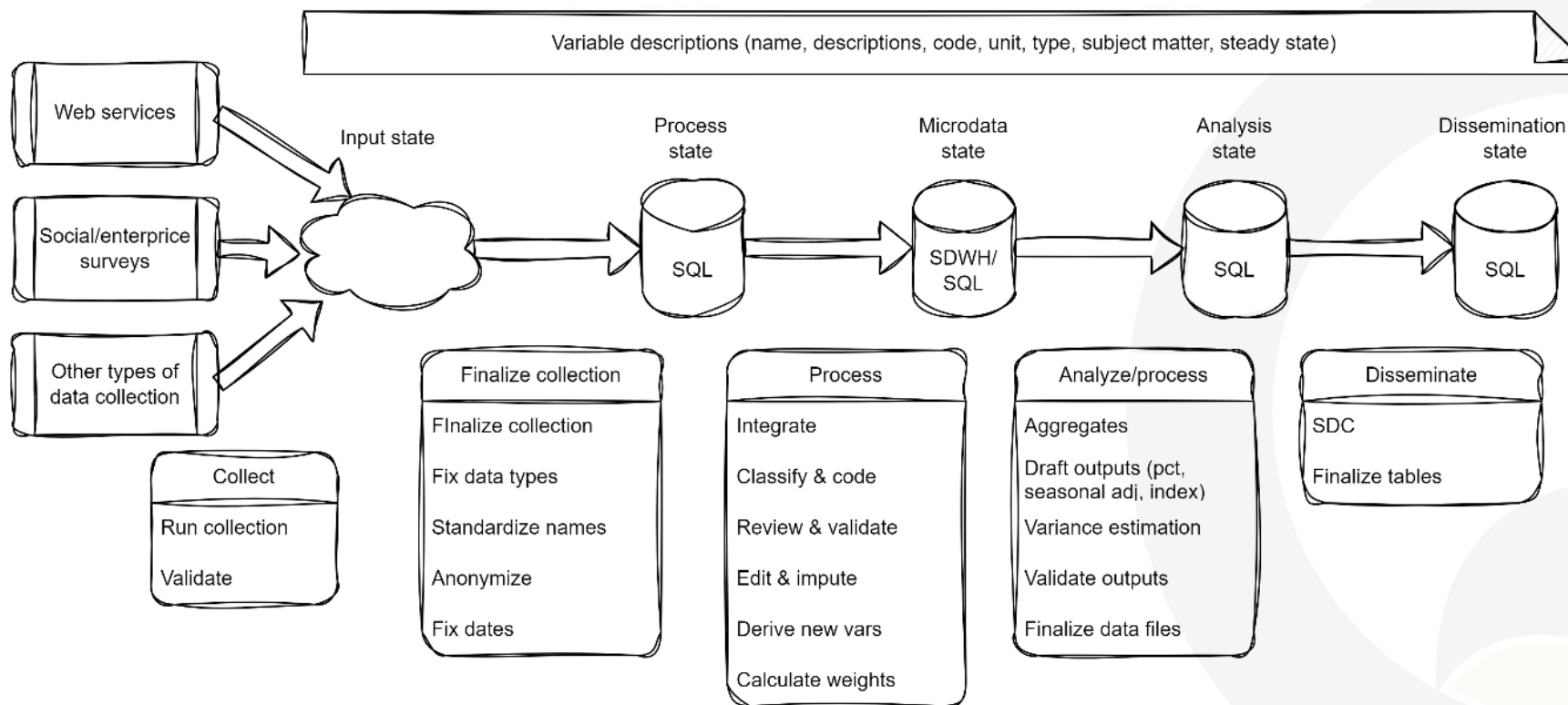
March 2018



May 2024



The data flow model





Steady states

1. Input state
2. Process state
3. Microdata state
4. Analysis state
5. Dissemination state



Processes

1. Data capture/Data collection
2. Finalize data capture/Data collection
3. Data processing
4. Analysis
5. Dissemination



Metadata and data architecture

- Variable descriptions
- Data architecture
 - Understanding and support
 - End-to-end



Masterdata and classifications

- Support tables
- Coding and classifications
 - Data processing
 - Before steady state 3
- Masterdata
- Before steady state 1



Naming conventions

- Examples:
 - Use Icelandic names, but no letters that are specific to the Icelandic language.
 - Use snake case (e.g. rooms_number)
 - Use nominative case and singular, except when referring to counts.
 - When using combined variable names, have the specific name first, e.g. children_numer, instead of number_children.



Measurable progress

- Number of processes
- Staff survey measures
- Future
 - Number of experimental statistics
 - Failed validation rules
 - Timeliness



Constraints

- Legacy system
- Production is ongoing
 - Dissemination and data transmissions
- ISO 27001
- Level of technical and statistical experience/knowledge
- Budget



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What is next?



Thank you! Any questions?

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