



National Data Infrastructure



Main objective: a single point of access to the various types of data and make it available to serve multiple purposes or projects, either to produce official statistics or for research purposes.

These new data sources must be internally available to produce statistics, in a very short period.

The idea is to adopt a more intensive and integrated use of data in the production of statistical information, taking advantage of the entire production chain of Portuguese official statistics.



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Organizational rearrangements



Reinforced competences in the data management and data analysis for:

- Methodology and Information Systems Department;
- Management and Data Collection Department.

A significant incentive in learning new skills, tools, and techniques, to process and analyze (massive) sets of data.

Administrative Data Unit: Created in 2020, this new unit is dedicated exclusively to the collection and analysis of administrative data.



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Every month, Statistics Portugal receives data from the Tax Authority on a mandatory e-invoice declaration system.

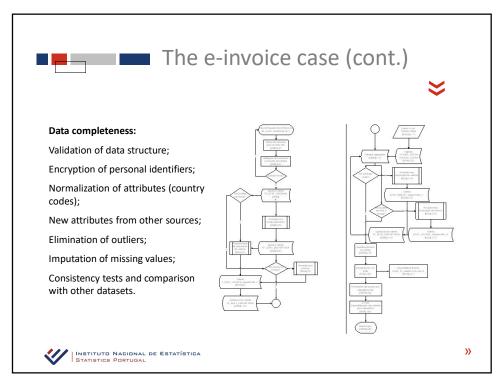
More than 80 million records regarding taxable amounts aggregated by issuer and acquirer's VAT number.

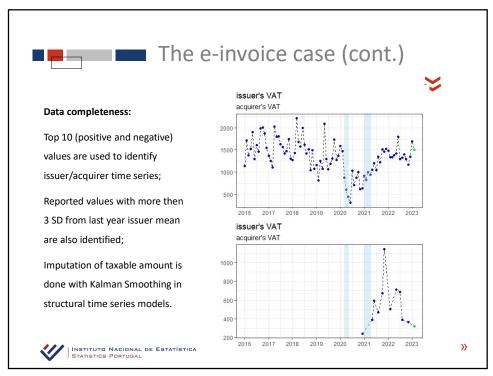
We 'just' have to process, validate, integrate, analyze, treat and make these data available for internal users.

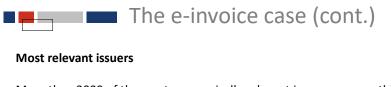


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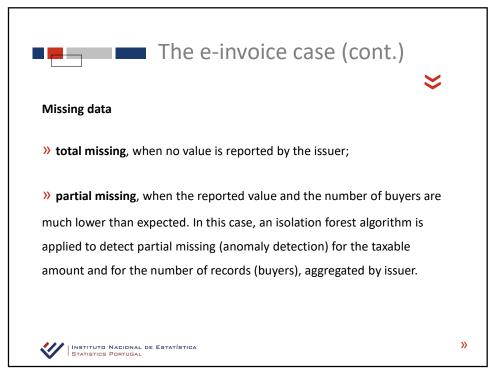
More than 2000 of the most economically relevant issuers are monthly analyzed looking for any missing data.

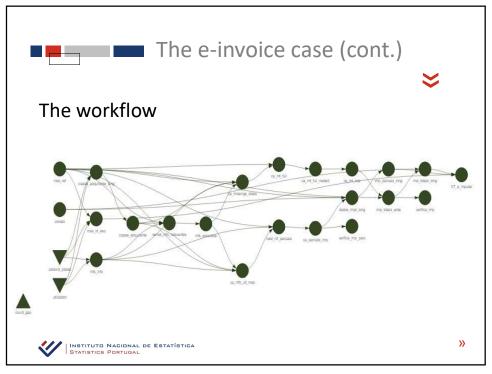
To classify an issuer as relevant, we compile their historical reported values and contributions from Statistics Portugal's subject matter units.

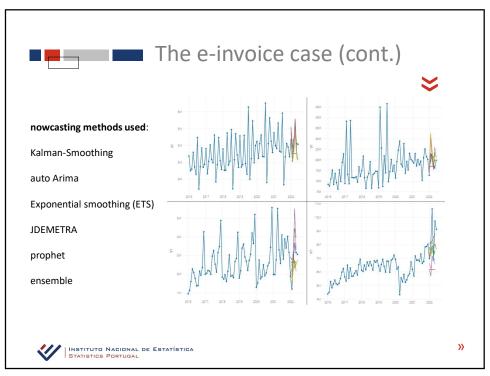
This analysis requires a great deal of effort in its processing, especially as it requires the analysis of each time series. We have set up an automated procedure to identify and fill in any potential missing data.

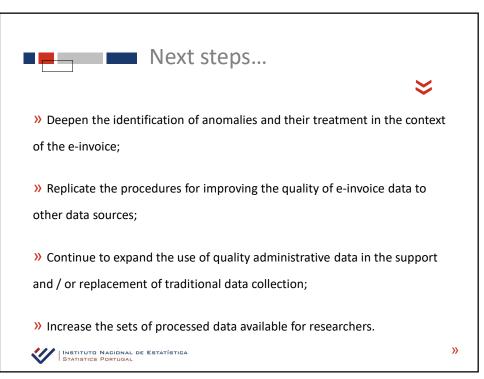


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- » To become statistical data, administrative data must be treated and validated, to ensure its quality, reliability, consistence, and completeness. This data cleansing process encompasses a more in-depth and specific analysis of anomalous data or lack of information.
- » The example of the e-invoice data treatment played an important role in applying a set of procedures already used in traditional sources (as surveys) and to be followed for all the other administrative sources.



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