

## Regional Course on Statistical Business Registers: Making a Business Case for an Operational Statistical Business Register

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### 3.2 – Handling changes in identification & descriptive characteristics



## Structure

- \* Changes in identification characteristics
- \* Changes in descriptive characteristics
- \* Sources of changes:
  - \* Updates from surveys
- \* Resistance rules

## Changes in identification characteristics

- \* Changes in contact characteristics should normally be reflected in SBRs as soon as they are detected
- \* Changes to one unit do not necessarily imply changes to other linked units
- \* Cross-checking can be helpful to avoid inconsistencies, e.g. name and legal form

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## Changes in descriptive characteristics

- \* These changes effect probability of units being included in survey samples, hence we can:
  - \* Update immediately and risk increased volatility in survey samples and populations;
  - \* Hold them until a certain point in the annual cycle of surveys; or
  - \* Subject them to resistance rules.

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## Changes in descriptive characteristics (cont'd)

- \* Changes to large units: Updates should be checked by comparing data from a range of sources to see there is consistency, by contacting the units concerned directly, or through profiling
- \* Changes to small units: automatic updating from administrative sources
- \* It is useful to record the date of change, source of the update and previous value – good for quality assurance

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## Changes in descriptive characteristics (cont'd)

- \* Changes to size characteristics – differentiated treatment of large and small units
- \* Changes to geographical location – take into consideration the corresponding continuity rules
- \* Change in economic activity – recommended to use resistance rules and different treatment between large and small units

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## Sources of changes in variables

- \* Updates to statistical units can be obtained from:
  - \* Changes in administrative units
  - \* Profiling
  - \* Surveys (SBR improvement survey or business survey feedback)
- \* Conflicting information – prioritized based on their reliability:
  - \* Information from an administrative source is considered less reliable than information from profiling or SBR improvement survey or other business surveys

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## Updating variables from surveys

- \* SBR improvement survey
  - \* Correct existing data
  - \* Obtain values for variables not available in other sources
- \* Feedback from business surveys
  - \* Each business survey should seek to verify the data items in the survey frame, such as name, address, contact information, and activity status
  - \* Business surveys may also seek to update information on economic activity and size measures

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## Resistance rules

- \* Rules on how to reflect changes in the business world, e.g. business expansion, change of production activities, change of location, etc.
- \* Resistance rules inhibit short-term changes and ensure that changes are permanent before updates are made
- \* These rules have to cover every possible type of change that can occur and the characteristics involved

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## Resistance rules (cont'd)

- \* Resistance rules need to take into account
  - \* how the changes can be detected;
  - \* the types of change (permanent, temporary, seasonal);
  - \* possible impacts on frames and published statistics.

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## Example 1

- \* Enterprise X is classified as large and is the main contributor for industry I. Due to temporary change in VAT data, the VAT contributions drop significantly, so X is no longer classified as large, and so not certainly selected for production survey.
- \* If X is not randomly selected for the production survey, it will have a huge effect on statistics for industry I.
- \* This can be avoided by resistance rule – SBR value not changed until such a change is permanent.

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## Example 2

- \* Enterprise Y has comparable size of activities in industries I and J, but it cannot on report value added separately. Suppose Y has slightly more activity in industry I, which is assigned to be its economic activity code.
- \* The following year the activity in industry J becomes a little larger and Y's economic activity code is changed to J.
- \* In published statistics this will result in a large shift from industry I to J, but in reality the change was very small.

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