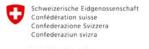
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UNECE Guidelines on SBRMaintenance of the SBR

Fabio Tomasini, Paul-André Salamin Tokyo, November 2016



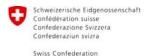
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SBR maintenance strategy

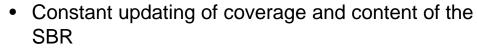


- 2. Use of feedback from surveys
- 3. Use of SBR improvement surveys
- 4. Profiling
- 5. Dealing with conflicting information
- 6. Maintenance groups
- 7. Updating schedule
- 8. Historical register





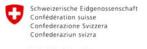
SBR maintenance strategy



- Identification and recording of new statistical units
 - Without over-coverage, under-coverage, duplication
- Identification and recording of changes in the values of the characteristics of statistical units
- · Recording of the dates of changes
- Information collected just once

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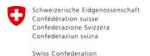


SBR maintenance strategy



- Administrative sources
- Feedback from surveys
- SBR improvement surveys
- Rules for dealing with conflicting information
- Maintenance groups
 - Efficiency, cost effectiveness
- Time dimension
 - Timing of the updates
 - Continuity and stability rules



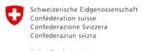






- One administrative source as the primary source for construction and maintenance of the SBR
- Best possible balance of coverage, content, timeliness and accuracy
- If secondary administrative sources: no duplication of units should arise
 - Same unit identification scheme as the primary source or no overlap with the primary source

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SBR maintenance strategy Use of feedback from surveys

- Identification of inactive or dead units
- Update of economic activity codes and size measures
- Possibility of bias if updating from units not sampled with certainty
 - Use only to trigger further maintenance operations



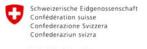






- Verify the current values of key characteristics and obtain missing values
- Conducted by the SBR on a repeated basis
- Sample size over a year determined by
 - Frequency with which changes occur
 - Quality of data from the administrative sources
 - Quality of data currently in the SBR
 - Available resources

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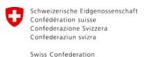
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SBR maintenance strategy Profiling

- Produce an appropriate statistical and reporting structure for large and complex enterprises
- Profiling can be reactive or proactive









- The SBR is updated from a range of sources, which may give conflicting values
- Sources prioritized according to
 - Methods of data collection and validation
 - Time of collection
 - Relative importance assigned to that characteristic by the source

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SBR maintenance strategy Dealing with conflicting information / 2

- Sources prioritized
 - With respect to all units
 - Differently for various categories of units
- Record the source and date of recording of the value of a characteristic





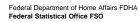




- Amount of maintenance effort devoted to a statistical unit depend on
 - Size and potential impact upon published statistics
 - Propensity to change
 - Sources of updating information
- Statistical units divided by size and potential impact and propensity to change into maintenance groups
- Each maintenance group is subject to a particular set of updating procedures

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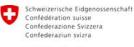




SBR maintenance strategy Updating schedule

- Schedule for maintenance of the SBR and production of frozen frames should be coordinated
 - with the supplies of data from administrative and statistical sources
 - with the production of frames for the surveys using the SBR
 - with the publication (if any) of data directly from the SBR
- Staff of surveys should be informed about
 - the SBR production calendar
 - any significant updates in SBR coverage or content





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SBR maintenance strategy Historical register

- SBR output that enables the reconstruction of the history of the units
- Recording of dates of all demographic events and changes in values of (core) characteristics

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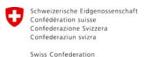
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SBR maintenance procedures

- Legal and operational units
- 2. Administrative units
- Statistical units
- 4. Continuity rules
- 5. Stability rules
- 6. Quality management considerations







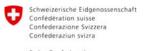


 Updating information about legal and operational units linked to large enterprises is obtained through profiling



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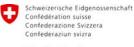
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SBR maintenance procedures Administrative units

- Information obtained from the corresponding administrative sources
- Data stored without change in the SBR
 - New administrative unit: new administrative unit recorded in the SBR
 - Changes in values: update in the SBR
 - Administrative unit cancelled or not appearing in the administrative data: activity status in the SBR changed to dead







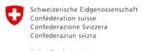


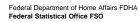
SBR maintenance procedures Statistical units

- Depends on the relationships associating legal, operational, and administrative units with statistical units
- Specification of updating procedures as a matrix
 - · Rows: legal and administrative signals
 - Columns: types of statistical unit change that can occur
 - Cell entries: rules how each signal is reflected as an update to statistical units, taking into account continuity rules, stability rules, and rules for dealing with conflicting information

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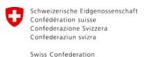




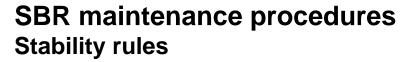
SBR maintenance procedures Continuity rules

- Identification of the types of legal and administrative signals that result in birth, death, or continuation of statistical units
- Continuity rules take into account
 - Source of the signal of a change
 - Maintenance group to which the unit belongs
 - Ways in which changes can be detected



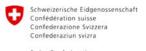






- Ensuring that changes are permanent before updates are made
- Stability rules take into account
 - Types of change: permanent, temporary, seasonal
 - Impacts on frames and published statistics
 - Ways in which changes can be detected

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SBR maintenance procedures Quality management considerations

- Consideration of effects of updates on survey frames and statistics
- If necessary updates are held back temporarily to minimize impact on survey estimates
 - For large units, decisions made on a case by case basis, involving profilers and users
 - For small units rules can be automated





Links

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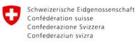
- Swiss Statistical Business Register (SBR) (French)
 http://www.bfs.admin.ch/bfs/portal/fr/index/themen/00/05/blank/02.html
- Guidelines on Statistical Business Registers -UNECE

http://www.unece.org:8080/index.php?id=40574&L=0

 University of Applied Sciences and Arts Western Switzerland HES-SO http://www.hevs.ch/en/

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