Handling complex entities in the Business Register - supported by adequate IT-tools

Meeting of the Group of Experts on Business Registers
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Organised by UNECE
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Units - relations between units – features of units and relations

The basic elements of a Business Register
Roles of units

**reporting unit**

respondent; unit providing information to the data collector.

**observation unit**

unit about which information is provided.

**statistical unit**

unit a statistical output refers to.
How to use BR units as domain statisticians?

**Step 1:**
What do we want to describe? → choose appropriate **statistical unit**

**Step 2:**
For which units is it the data available/observable → choose **observation unit**

**Step 3:**
Which unit can be approached to deliver the desired data → choose **reporting unit**
## Example: roles of units in German Structural Business Statistics

<table>
<thead>
<tr>
<th>Purpose/function of Units</th>
<th>Status quo</th>
<th>Status quo plus</th>
<th>Status quo rev.</th>
</tr>
</thead>
<tbody>
<tr>
<td>respondent</td>
<td>Legal Unit</td>
<td>Legal Unit</td>
<td>Legal Unit</td>
</tr>
<tr>
<td>Observation unit</td>
<td>Legal Unit</td>
<td>Legal Unit</td>
<td>Enterprise</td>
</tr>
<tr>
<td>Statistical unit</td>
<td>Legal Unit</td>
<td>Enterprise</td>
<td>Enterprise</td>
</tr>
</tbody>
</table>

**German approach in SBS**
How to find out about complex units?

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Enterprise Group processing in the Business Register
Enterprise Group processing in the Business Register
Profiling of enterprises in the Business Register
Treatment of complex statistical unit types

» Automated algorithms reach their limits for large and important units
  » Content analysis with different information from different sources

» Complex statistical units need a top-down view

» Combination of automated, semi-automated and manual procedures
  » Optimization of effort and quality of these processes

All manual processes should be supported by IT-tools
integrated Profiling Analysis Tool – iProfAnT
Video will be presented live
Treatment process in EuroGroups Register (EGR)

» EGR contains all multinational enterprise groups that are active in EU and EFTA states

» Approach is largely bottom-up

» Interactive Profiling Tool (IPT) for manual treatment of most important enterprise groups

» Changes to the enterprise group are possible, but a structured treatment at global and national level is not supported currently

» Comparisons with external sources or shifts and recreation of units is not possible
Treastment processes in EuroGroups Register (EGR)

» IPT takes the EGR data from the previous reference year
» The flow back is currently programmed and tested

» Task Force Future EGR is developing processes to improve the quality of information in EGR
» Manual treatment is to be done for the most important enterprise groups
Discussion

» Do you have special (manual?) treatment for the most important complex units in your business register?

» How do you support the manual treatment of complex units with IT tools?
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