A systematic study of metrics and evidence suitable for institutions which operate in areas of high interdisciplinarity

“Alternative metrics or tailored metrics: Science dynamics for science policy”, November 9-10, 2016 Warsaw
Many scientific organizations publish annually or for longer period reports, in order to present the research that they have done in various scientific fields. Furthermore, these publications indicate the progress that has done in a specific period of time and how the organizations have reached their goals. These reports could namely be annual reports, activity reports, business and/or scientific reports, etc.
To organize and analyze the data of six reports published by different scientific organizations, all collaborators of DANS in the Netherlands, Switzerland, and Germany.
The reports...
Methodology...

- What kind of material do we have?
- How it can be put in best use?
- What thematic categories reports cover?
Methodology (continued)... 

- Desktop research
- Brainstorming sessions
- Observation and empirical analysis based on UDC
  - The reports categorized:
    - by time
    - by place
    - by institutional type
    - by the type of each report (business or scientific)
We started by having a look to all reports
search in the web to find elements for the mission of the organisation that published them.
search for authors whose articles were included in the reports.
identifying specific scientific field(s) and define the structure of our categorisation based on UDC scheme, initially by topic.
mapped the topics of the scientific fields of the reports to the main categories on UDC classification system.
Analysis (continued)...

- **0** refers to *Science and Knowledge. Organisation. Computer Science*
- **1** refers to *Philosophy. Psychology.*
- **2** refers to *Religion. Theology.*
- **3** refers to *Social Sciences.*
- **5** refers to *Mathematics. Natural Sciences.*
- **8** refers to *Language. Linguistics. Literature.*
- **9** refers to *Geography. Biography. History.*
<table>
<thead>
<tr>
<th>Title of Report</th>
<th>Topic/UDC</th>
<th>Reporting Period</th>
<th>Publication Year</th>
<th>Report Type</th>
<th>Type of Organisation</th>
<th>Geographic Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Report 2015</td>
<td>0,1,2,3,5,6,7,8,9</td>
<td>2015</td>
<td>2016</td>
<td>Business</td>
<td>Service Oriented Organisation</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Presse</td>
<td>5,6</td>
<td>25 years (1991-2016)</td>
<td>2015</td>
<td>Business</td>
<td>Research Institution</td>
<td>Germany</td>
</tr>
<tr>
<td>Fostering Interdisciplinarity</td>
<td>0,1,2,3,7,8,9</td>
<td>5 years (2011-2016)</td>
<td>2016</td>
<td>Scientific</td>
<td>Research Institution</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Interfacing Research Practices</td>
<td>0,1,2,3,7,8,9</td>
<td>3 years (2006-2009)</td>
<td>2010</td>
<td>Scientific</td>
<td>Service Oriented Organisation</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Chair of Systems design</td>
<td>0,3</td>
<td>10 years (2004-2014)</td>
<td>2014</td>
<td>Scientific</td>
<td>University</td>
<td>Switzerland</td>
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<tr>
<td>Scientific Report 2013 Workshops</td>
<td>0,5</td>
<td>2013</td>
<td>2014</td>
<td>Scientific</td>
<td>Service Oriented Organisation</td>
<td>The Netherlands</td>
</tr>
</tbody>
</table>
To conclude...

- Various periods
- Various scientific disciplines
- Comparisons between research production of countries
Future Study...

- Further study of scientific or business reports
  - Grey bibliography
- How the production of scientific knowledge interconnect the academic institutions with industries
Acknowledgements

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Thank you