

CERIFy Snowball Metrics

Output from meeting in London on 20 June 2013 between
Brigitte Joerg
Anna Clements
Lisa Colledge

euroCRIS and Snowball Metrics

- Indicators Task Group aims to develop an active programme on the use of indicators for evaluating research
- One of multiple sets of indicators that will be handled is the Snowball Metrics
- The methods have already been defined, tested, and published, and the aim is now to translate them into CERIF to facilitate their adoption in multiple systems and to enable institutions to benchmark their performance regardless of the systems they have implemented

Principles of CERIFication of Snowball Metrics

- Be generic to ensure that the CERIFication is applicable globally (not only UK)
- Indicator is defined at policy level (Snowball Metrics project partners)
- When transferring metrics between systems, only the final number will be transferred
 - e.g. when normalising by FTE, we will enable transfer of the calculated value, and not send the metric plus the FTE count and expect the recipient to complete this normalisation themselves
- We describe the data source, but not the calculation that a specific system uses to generate the metric, so that we follow the principle of Snowball Metrics being system-agnostic

Expressing Snowball Metrics in CERIF requires 2 areas of focus

A Snowball Metric

Calculating

CERIF is used to explain how the metric is calculated by combining data elements in a particular manner –
“how do I reach the value 7?”

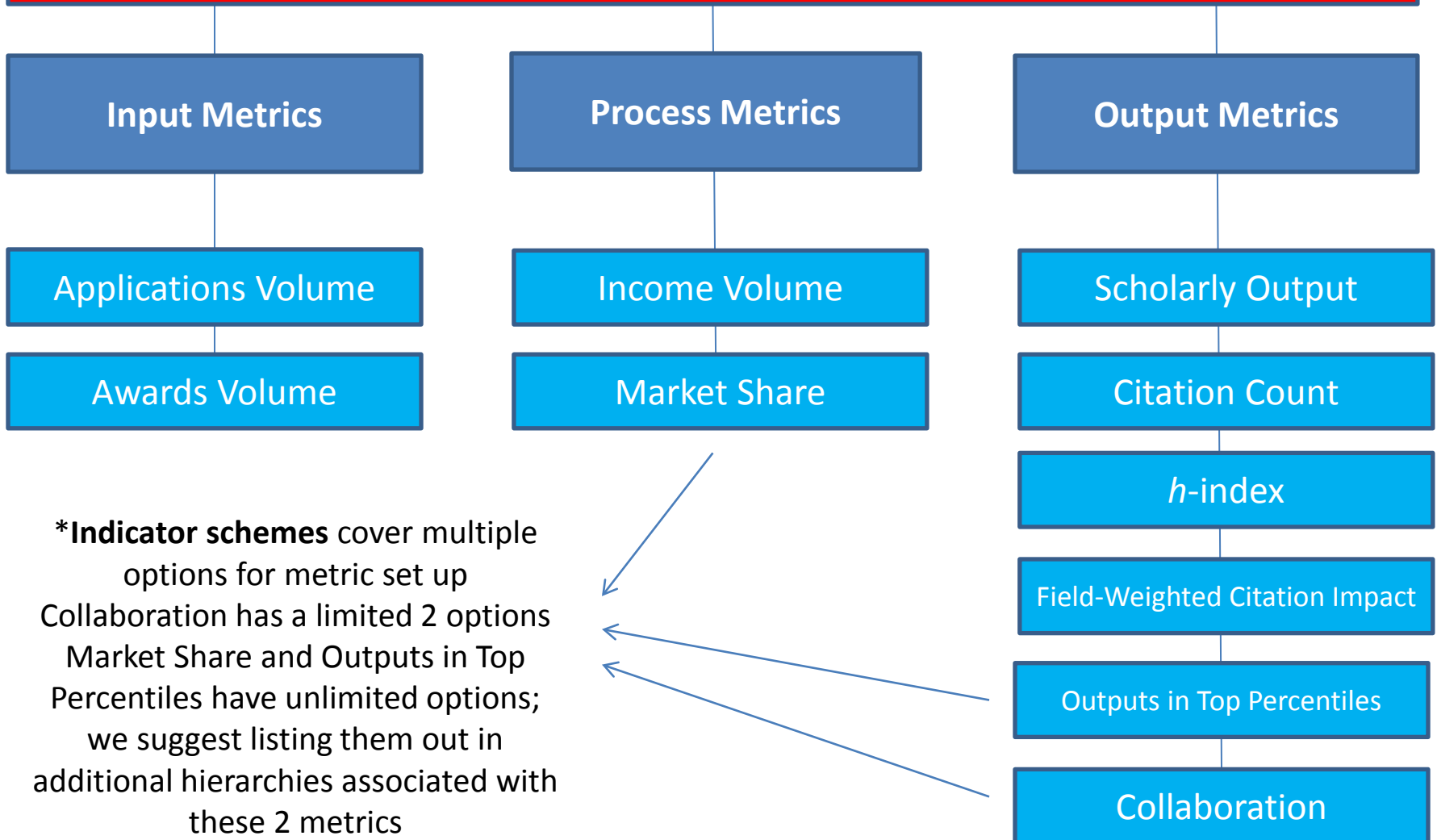
Understanding

CERIF is used to communicate what a value represents so that a tool receiving information can understand what it has –
“what does this value 7 represent?”

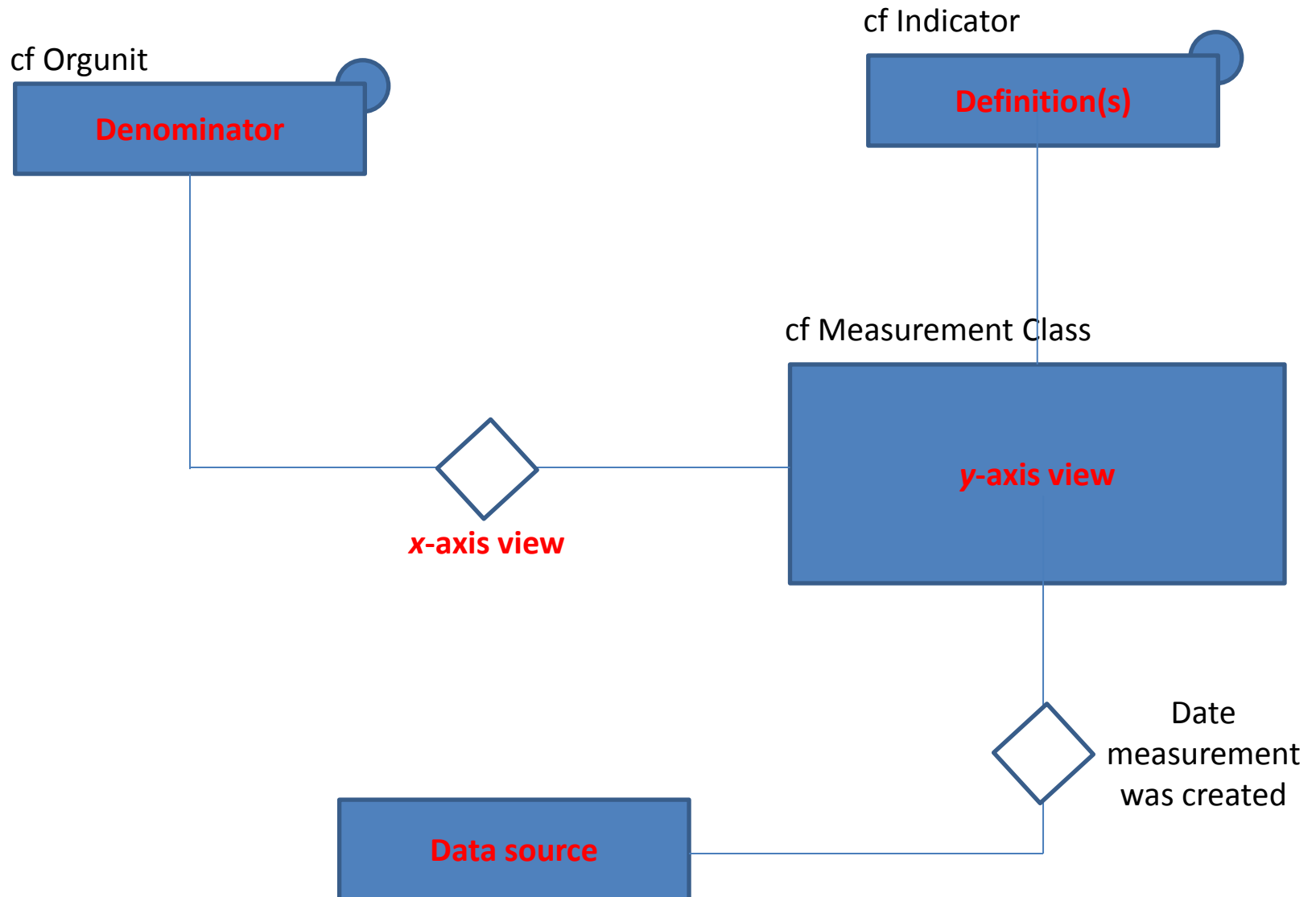
**The focus
of this deck**

Hierarchy

Snowball Metrics

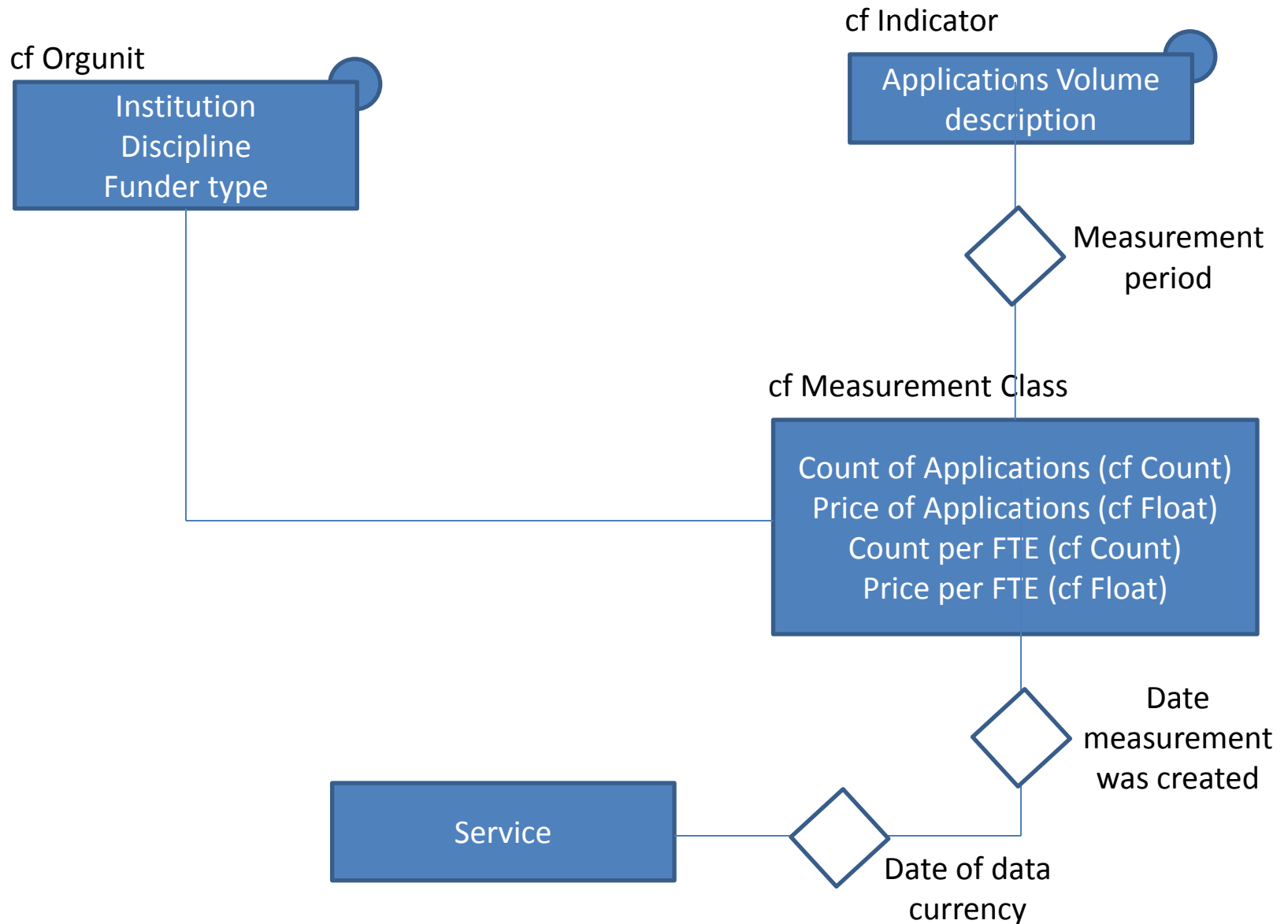


Generic layout and translation to structure used by Snowball Metrics Recipe Book[#]

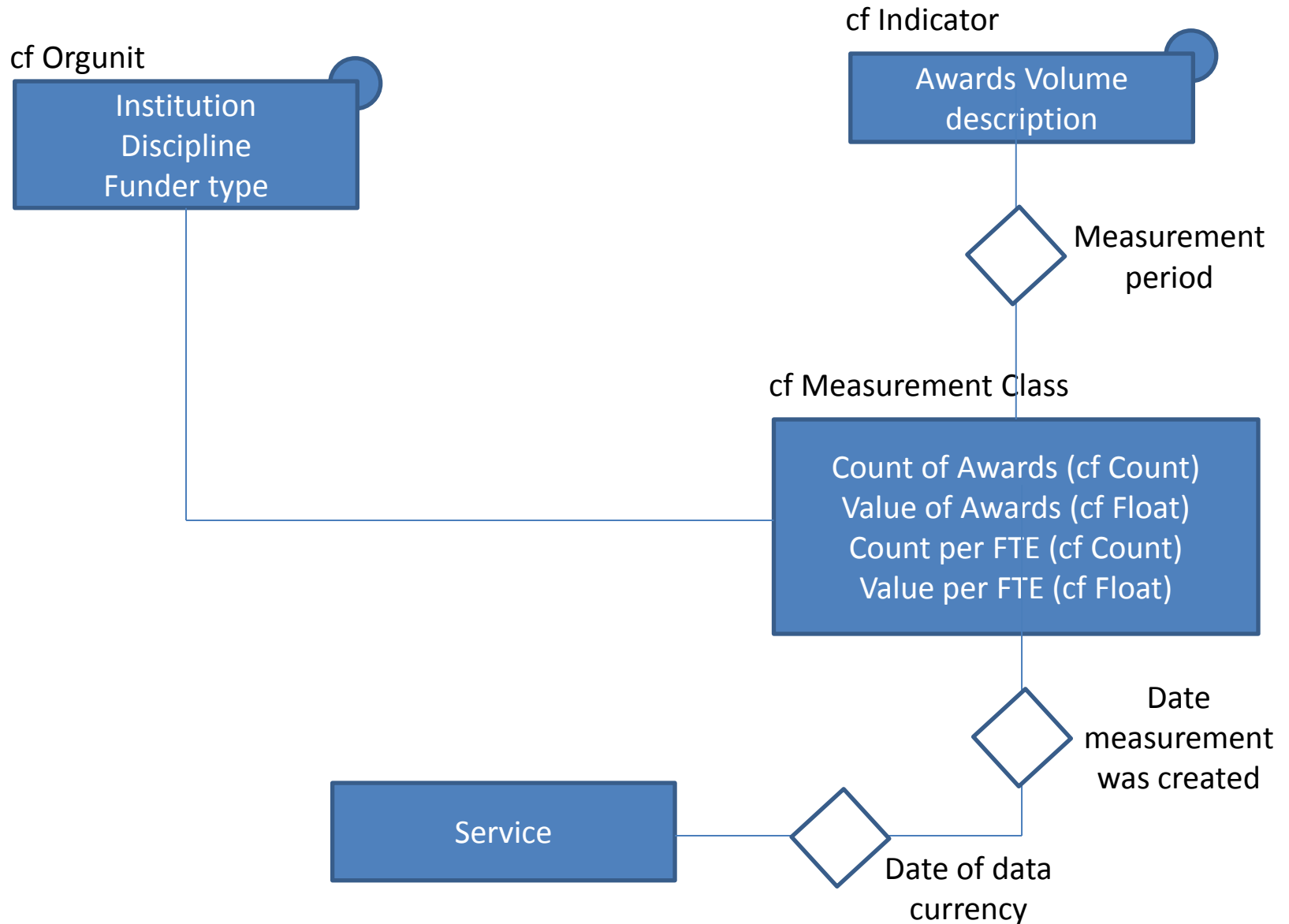


[#] www.snowballmetrics.com/metrics

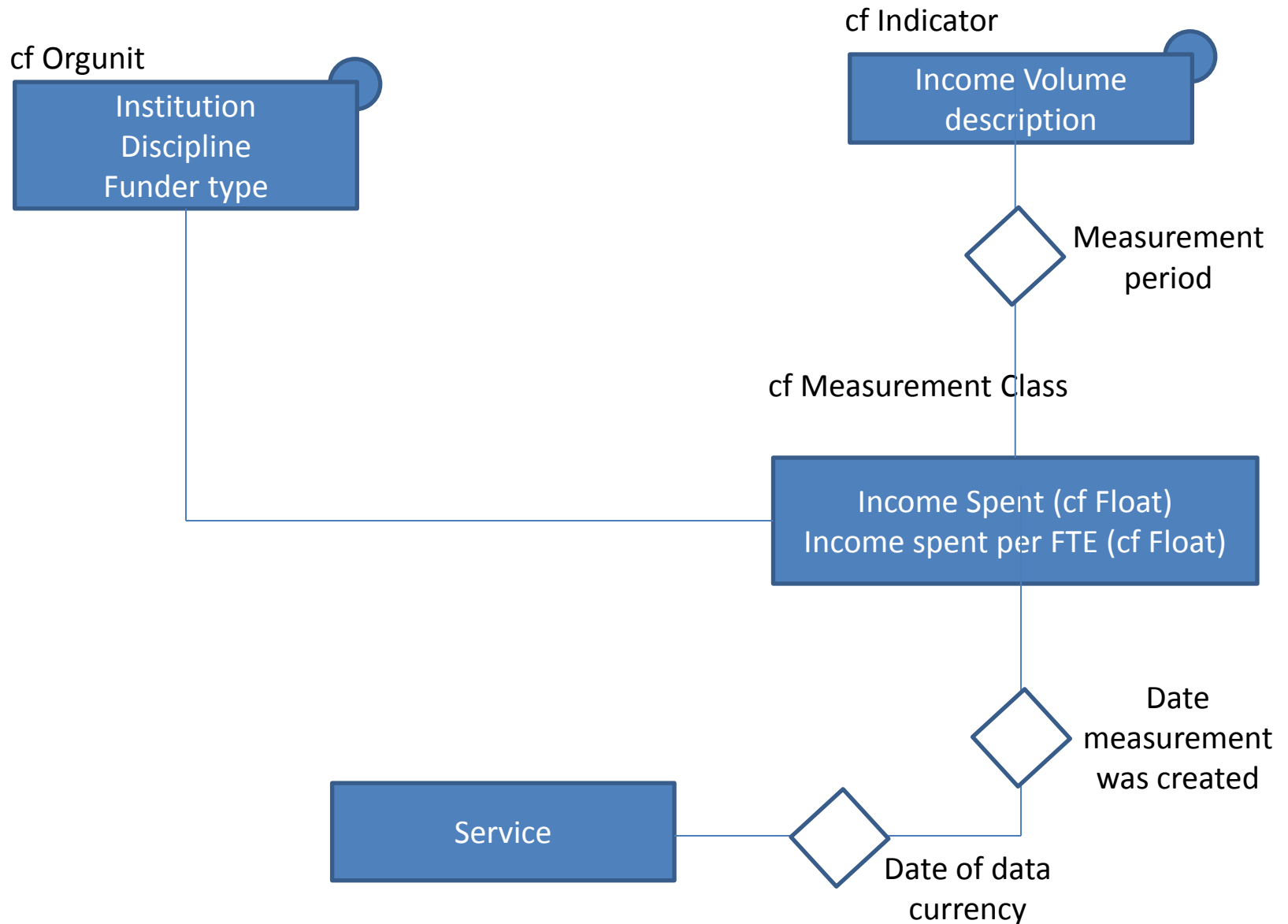
Applications Volume



Awards Volume



Income Volume



Market Share scheme

Snowball Metrics

Input Metrics

Process Metrics

Output Metrics

Market Share

Share of UK

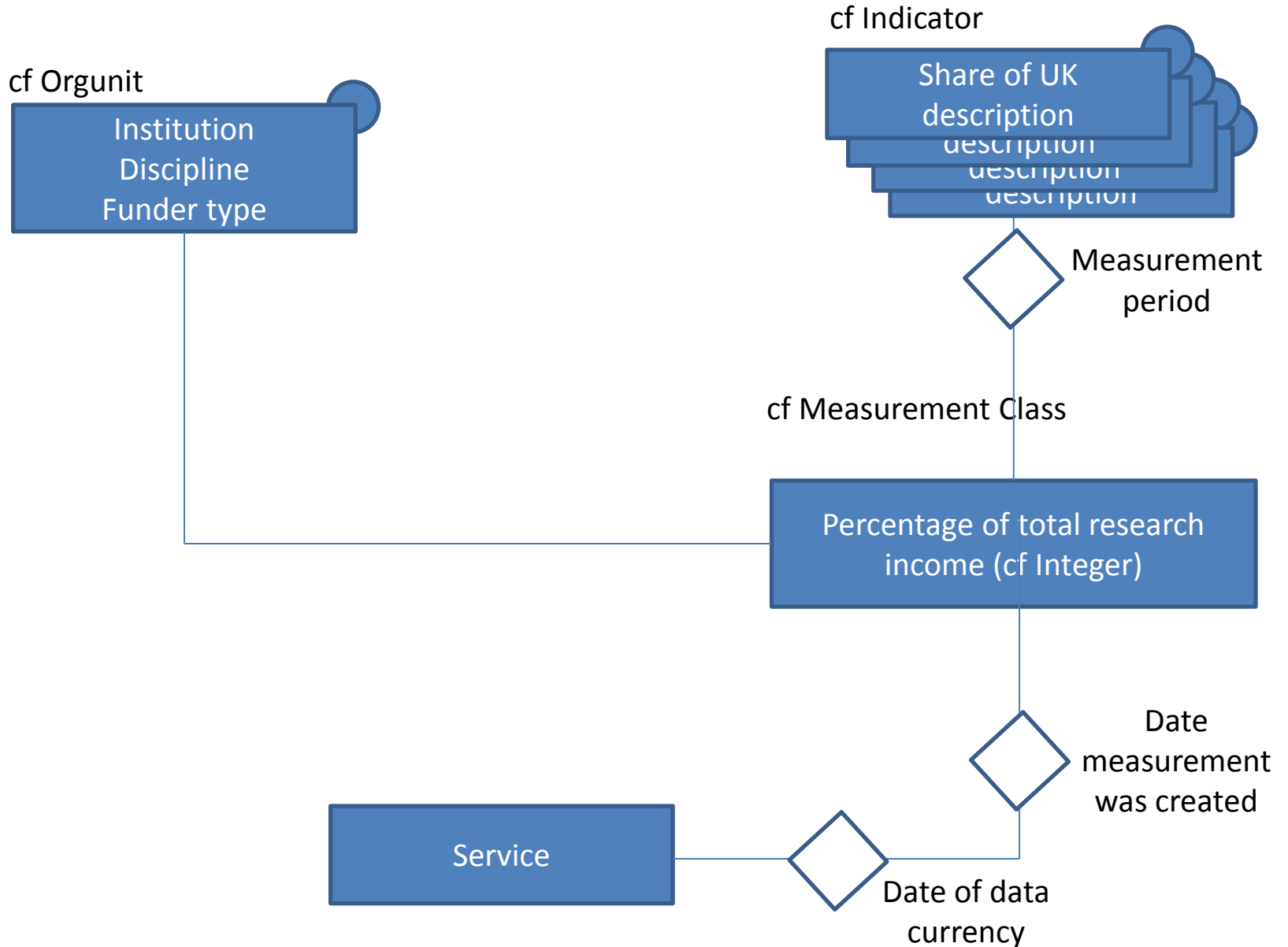
Share of England

Share of Pure user group

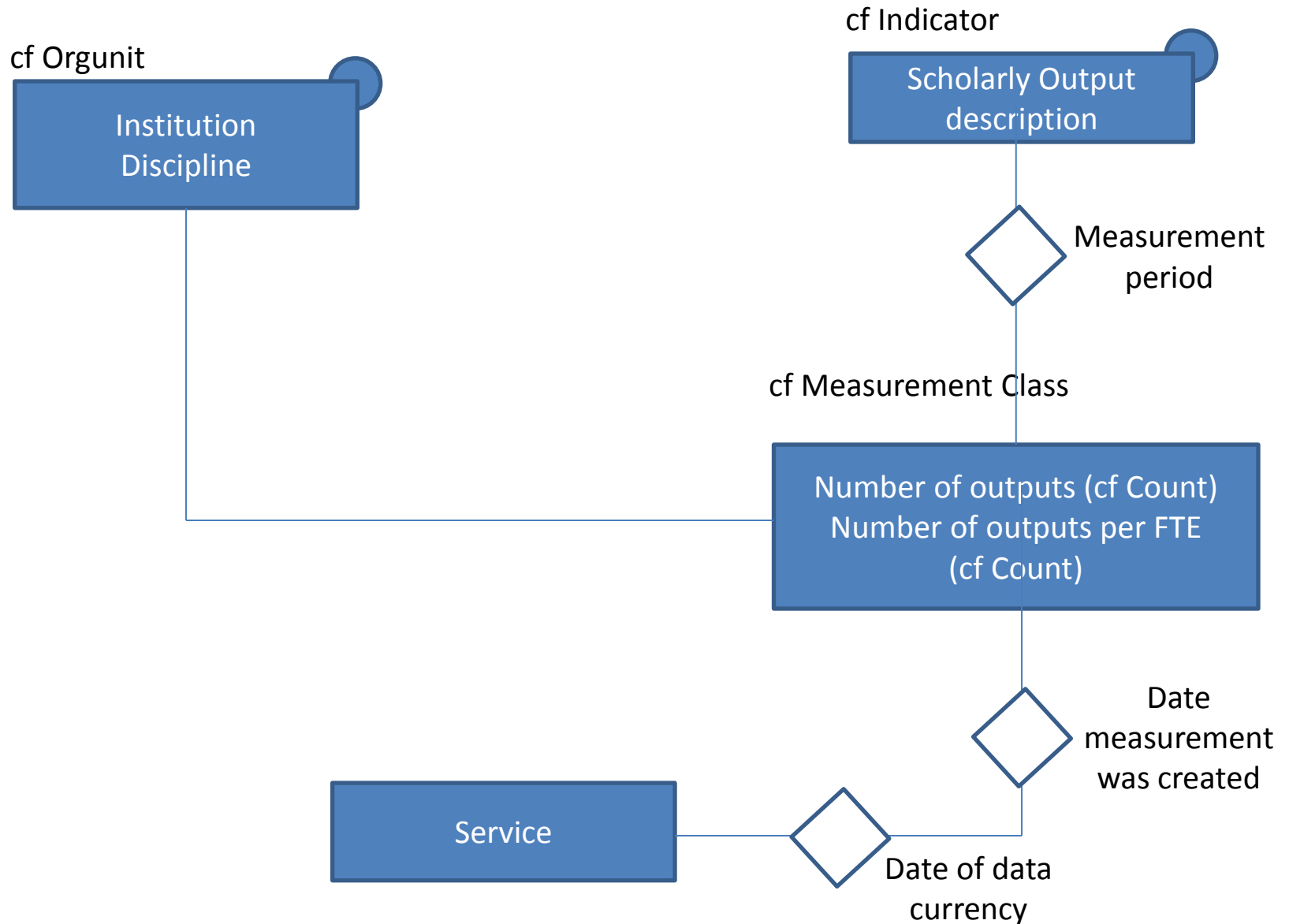
Share of Russell group

Etc.

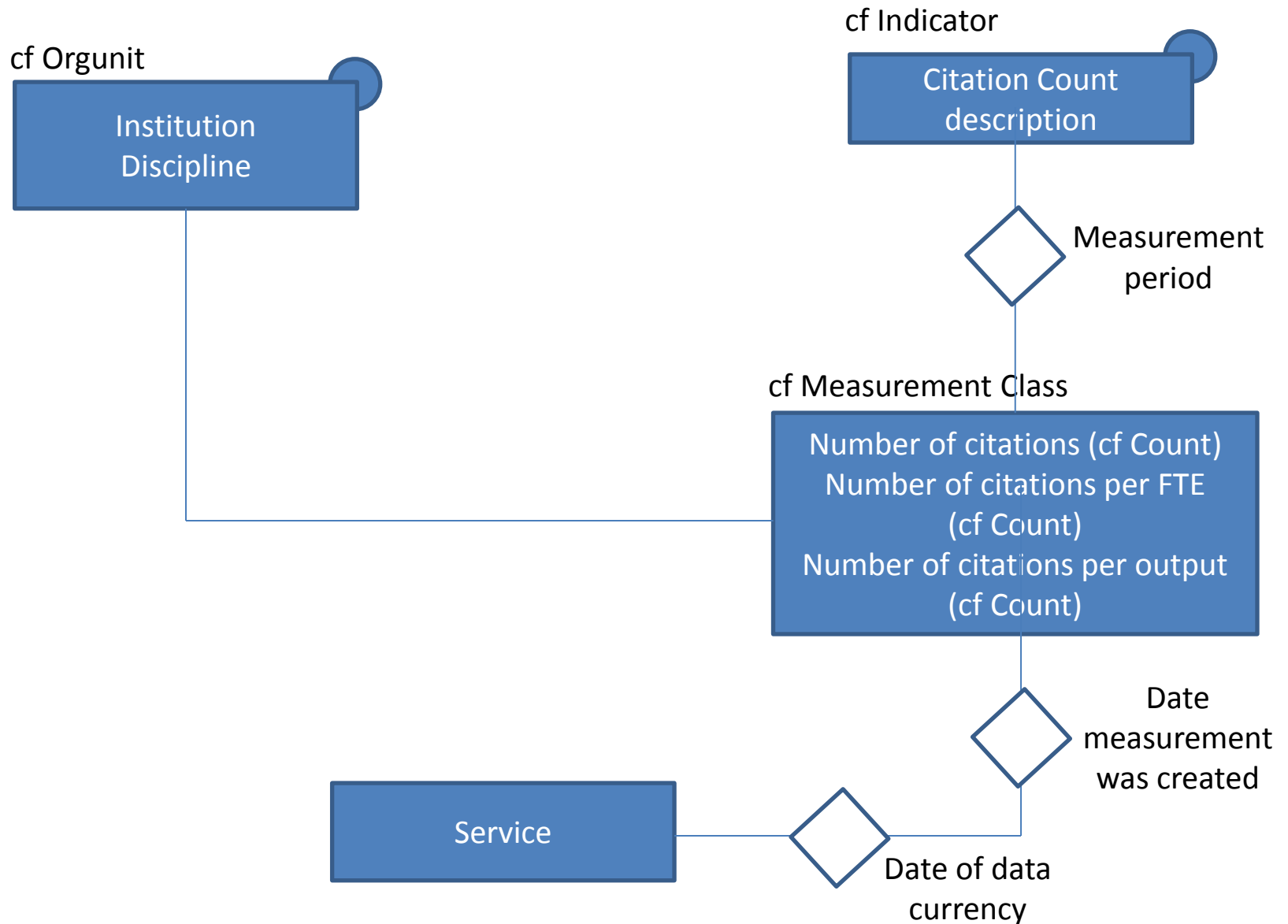
Market Share



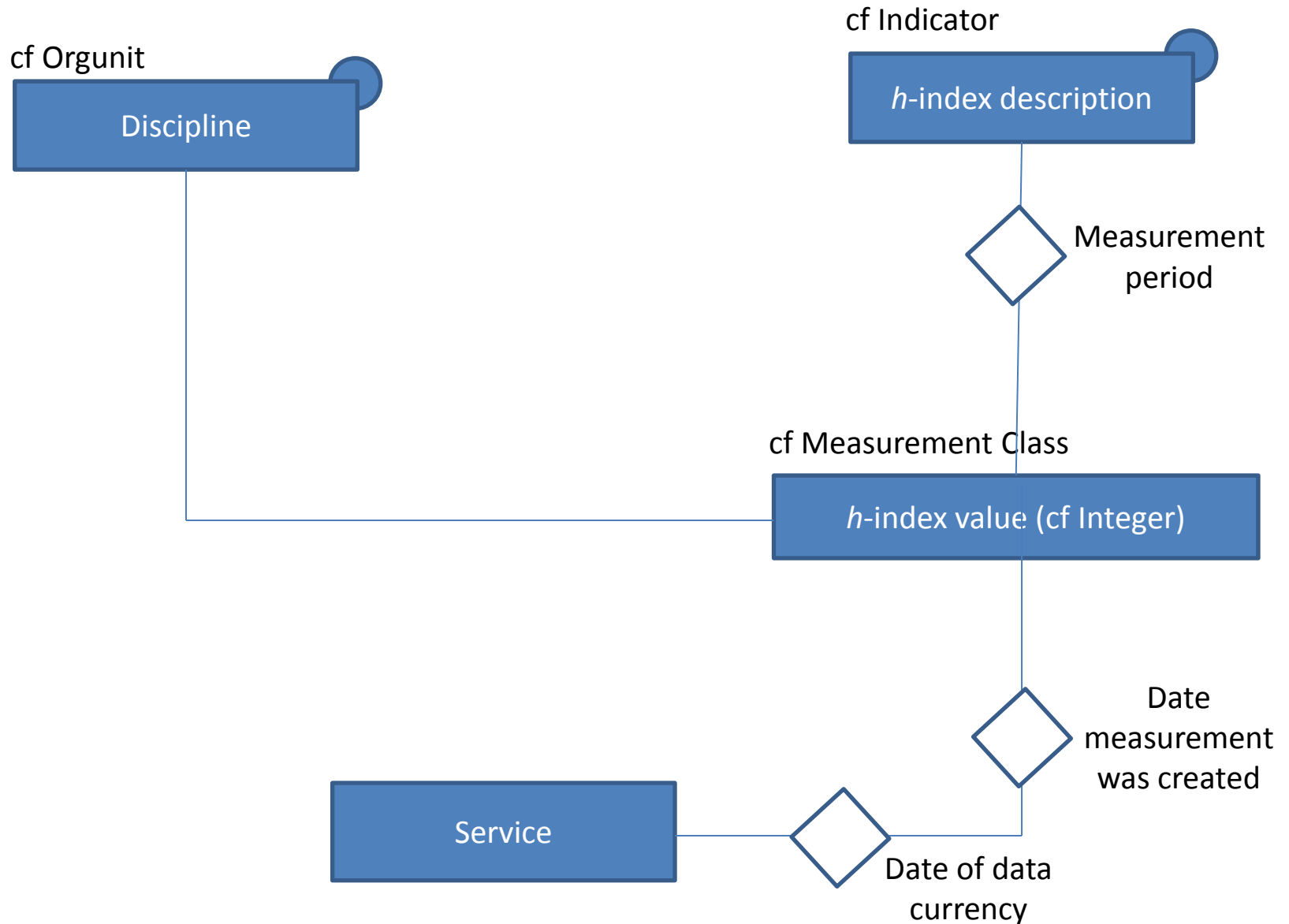
Scholarly Output



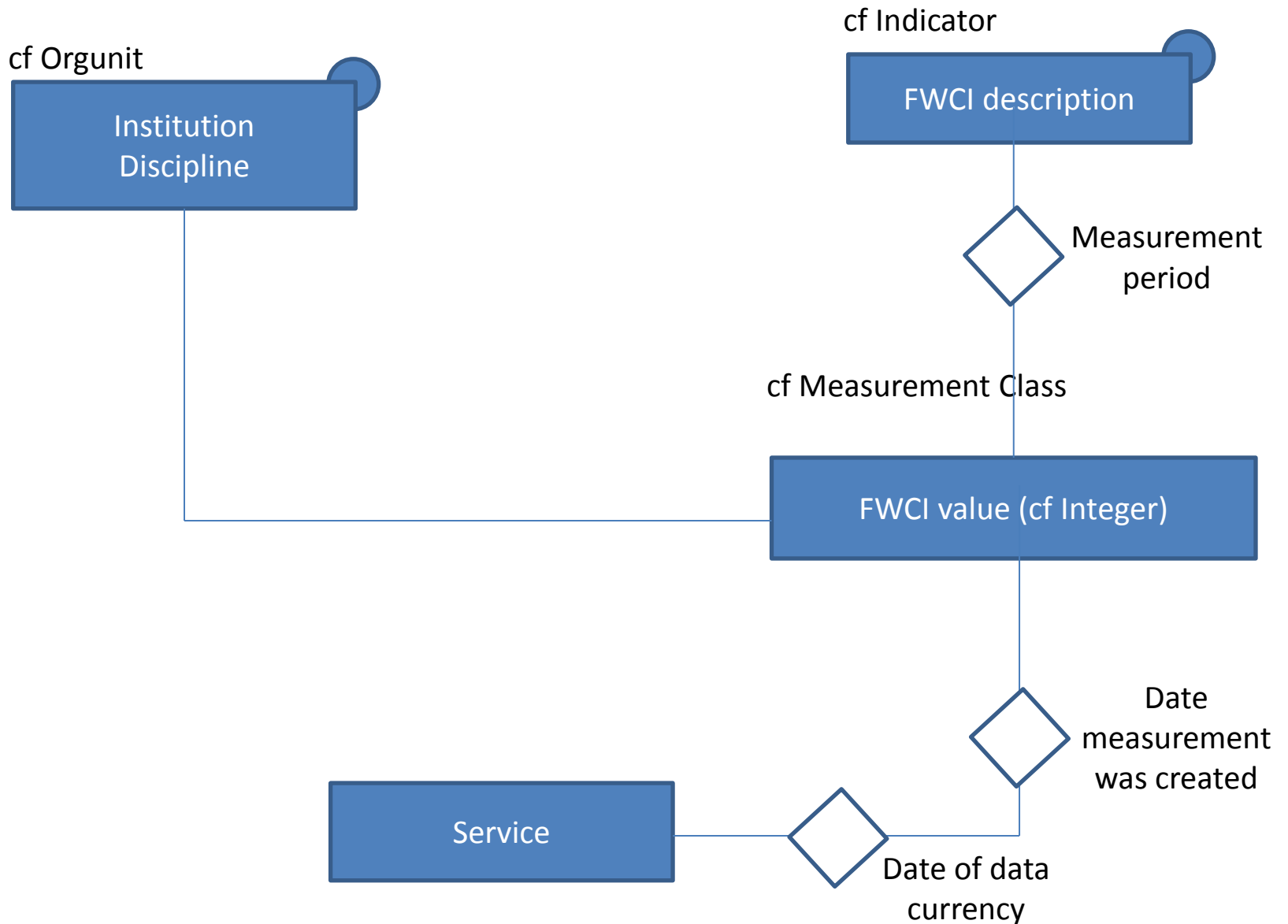
Citation Count



h-index



Field-Weighted Citation Impact



Outputs in Top Percentiles scheme

Snowball Metrics

Input Metrics

Process Metrics

Output Metrics

Outputs in Top Percentiles

Outputs in Top 1% world

Outputs in Top 5% world

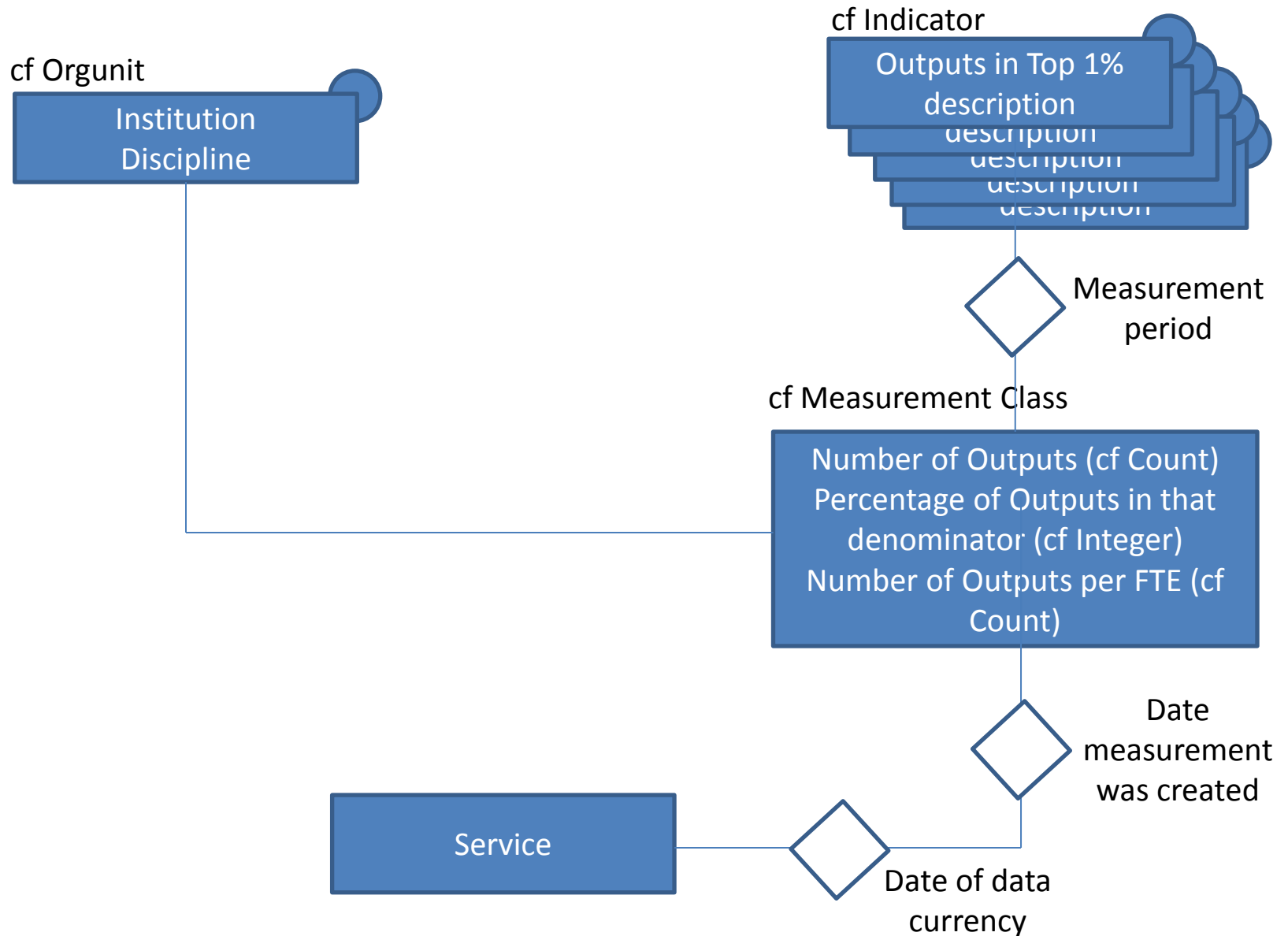
Outputs in Top 10% world

Outputs in Top 25% world

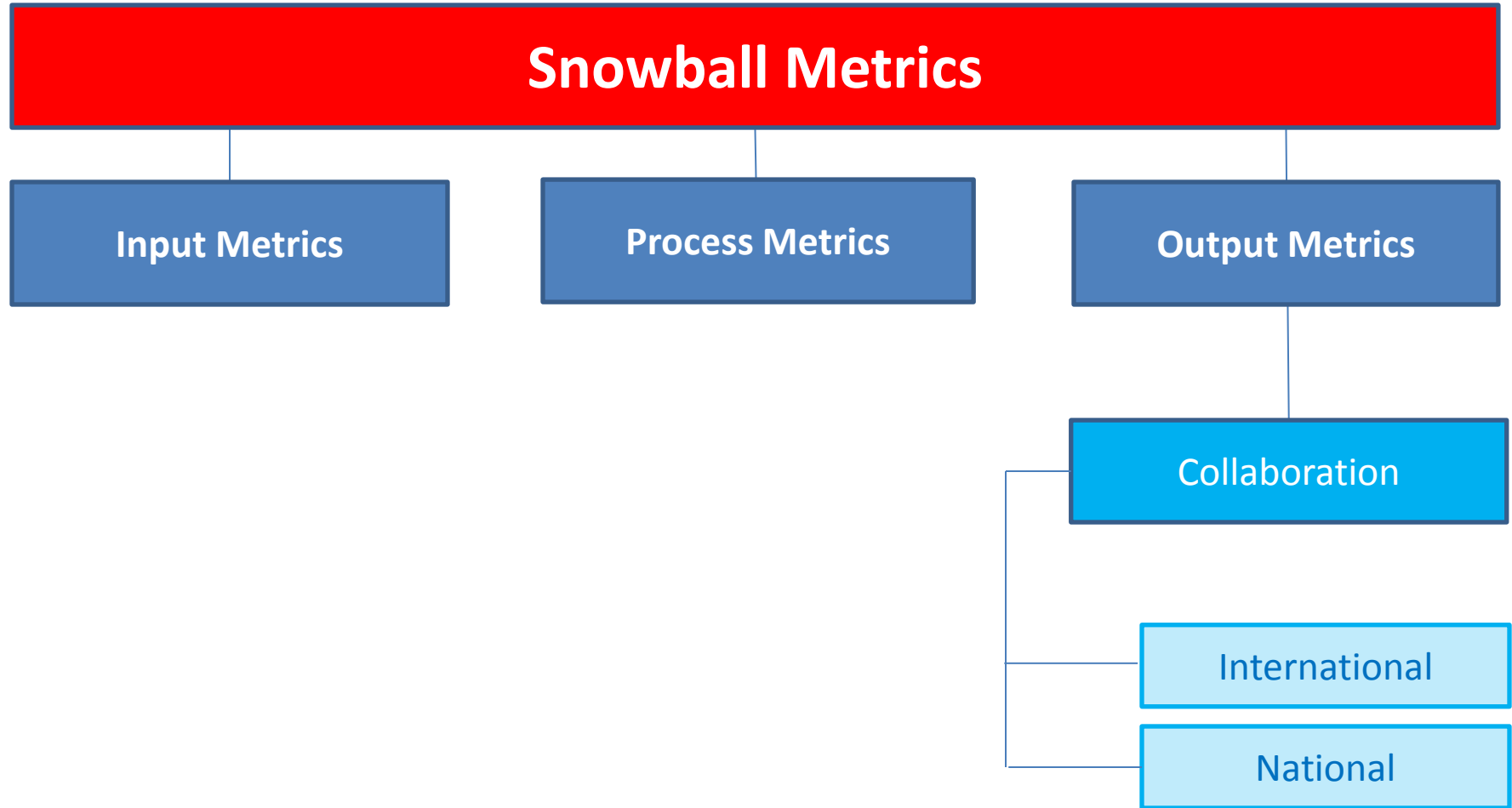
Outputs in Top 1% China

Etc.

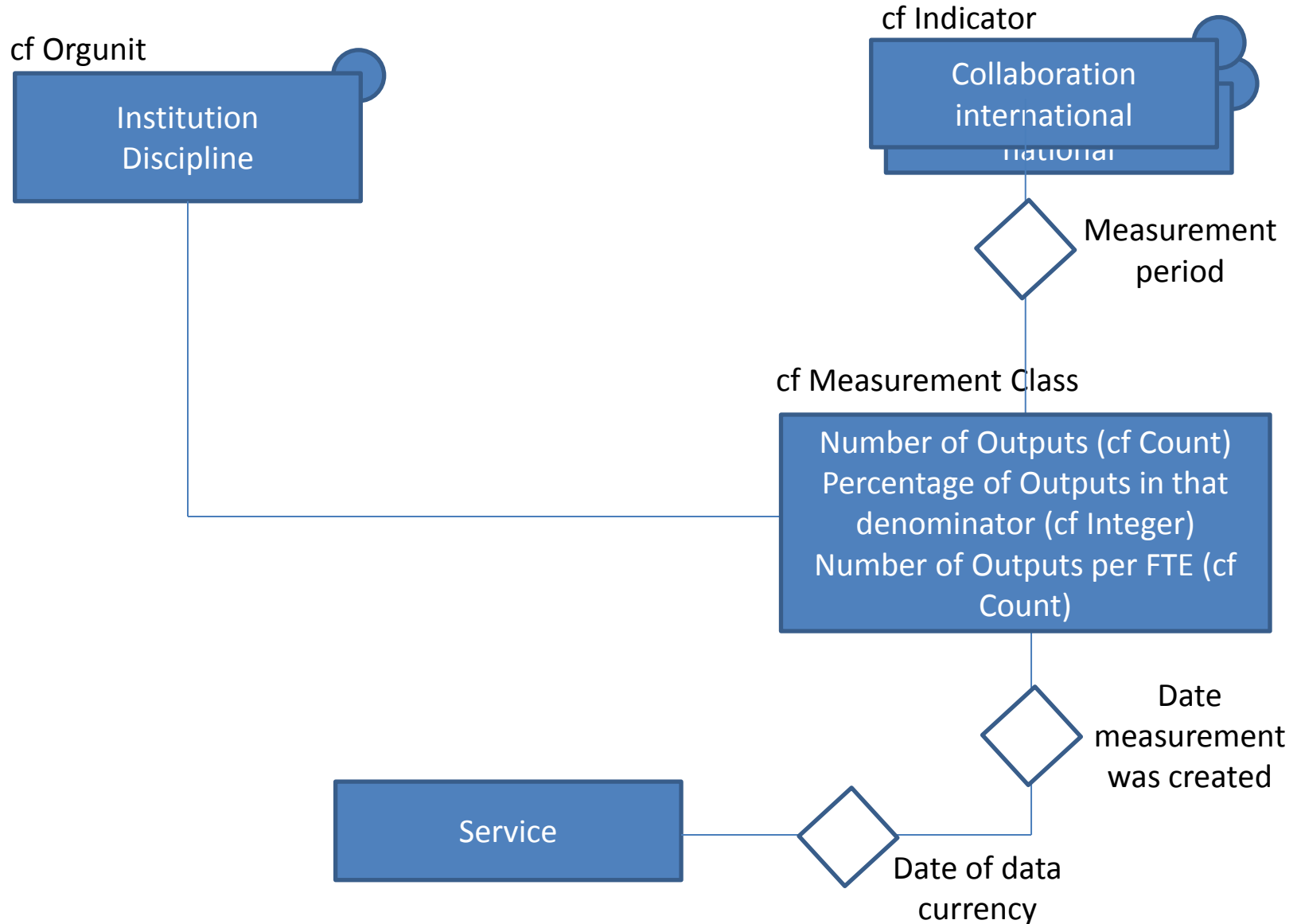
Outputs in Top Percentiles



Collaboration scheme



Collaboration



Next steps

- Indicators Task Group validates these “pictures”
- Express Snowball Metrics in:
 - Formal CERIF
 - Xml example
- Publish in new version of recipe book
- Consider enhancing CERIF model with:
 - Currencies of the data source
 - Standard time periods
 - National currencies – GBP / Yen / USD / etc