

A live multi-source statistical (Business) Register

How administrative data integration in
Statistics Netherlands
is implemented

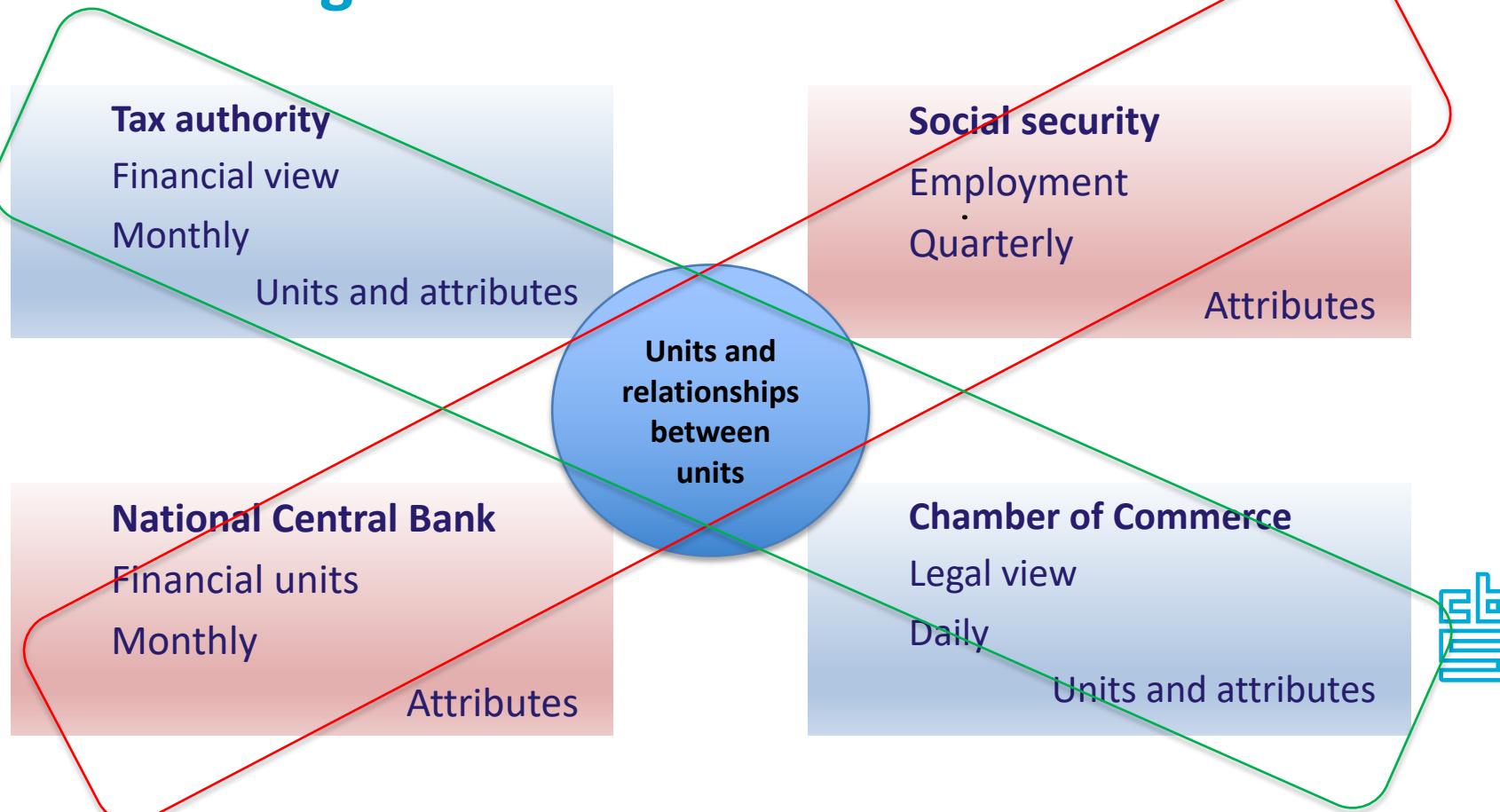


Topics

1. Combining administrative sources
2. Challenges in integration
3. SN input and output area
4. Metadata (management)
5. Future challenges



Combining different sources



Challenges in integrating data from different sources

Different target populations

Collaborate with sources

- Understand the (target) population
- In depth (business) analysis
- Be informed on changes

Quality of data(delivery)

Quality checks

- Which corrections/additional information is needed?
- Monitor data delivery
- Report derogations and request clarification
- Be informed on updates

Different timing aspects

Timelags and priority

Different technical representation

Transform data to comparable technical format



Integration of units and attributes

Units

- Two sources
- CoC is main source.
- Tax Authority only for CoC undercoverage
- For a small population different timing aspects



Attributes

Multiple sources

Time lag & Priority

Source	Priority	Timeline
Profiler	1	12
CoC	2	∞
TA	3	-

NACE
changed!

CoC 6420 1-2-2018

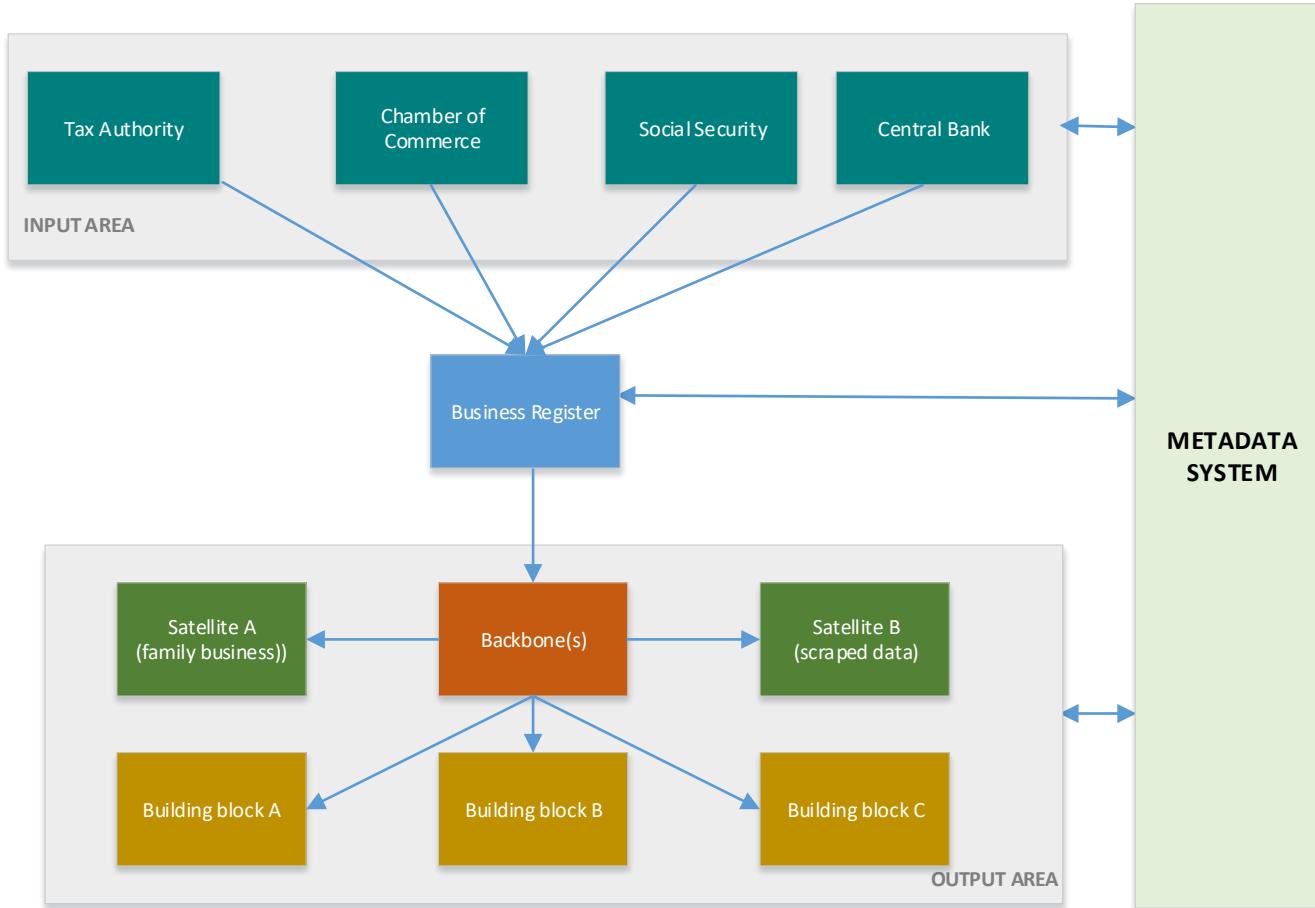
TA 7010 1-2-2019

7010 1-3-2019

Pr 7010 1-3-2019



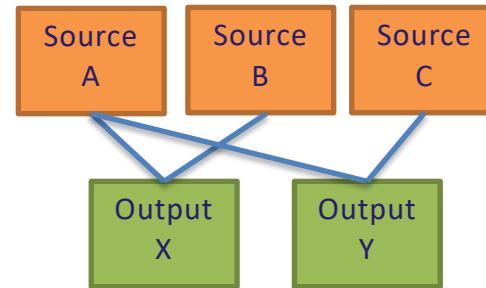
Overview combining sources



Meta data system

1. Describe what sources you have
 - Comparable
 - Menu of data for (new) users
2. Link adm. sources to output
3. Sources change
 - Impact of changes. Know where to adapt (in input, throughput and output)

Tool for loading
metadata received
from adm sources

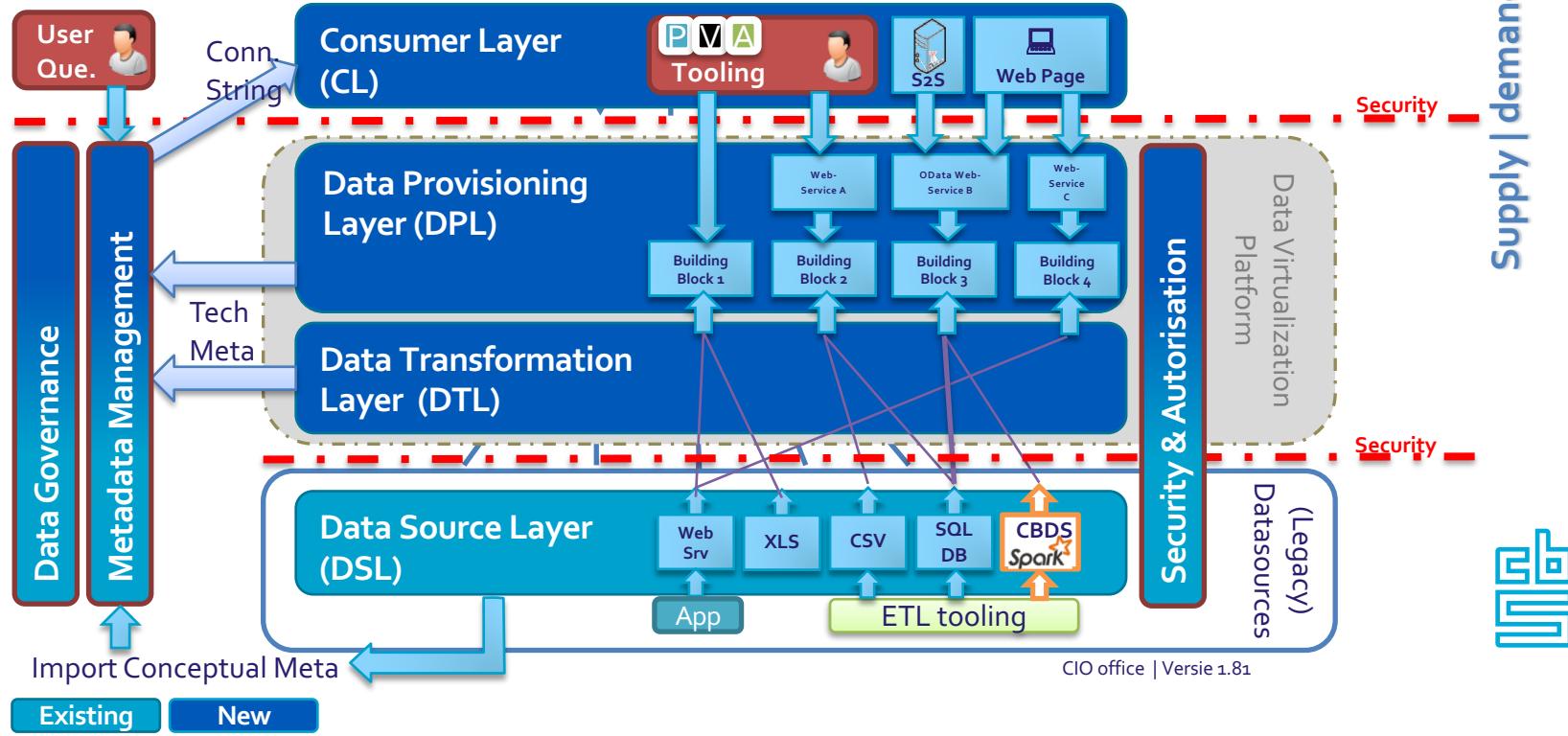


Future challenges

1. Uniforming all administrative data processes
2. More flexible in using new administrative sources and integrating the new information
3. Webscraping
4. Using big data in the BR



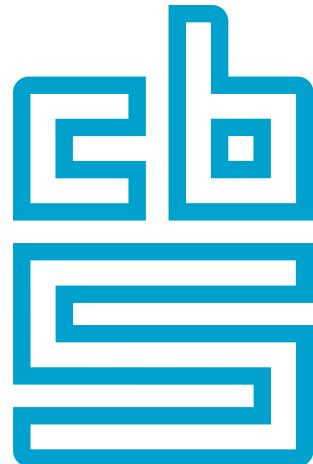
Data Architecture



Questions?

- b.coenen@cbs.nl





Facts that matter