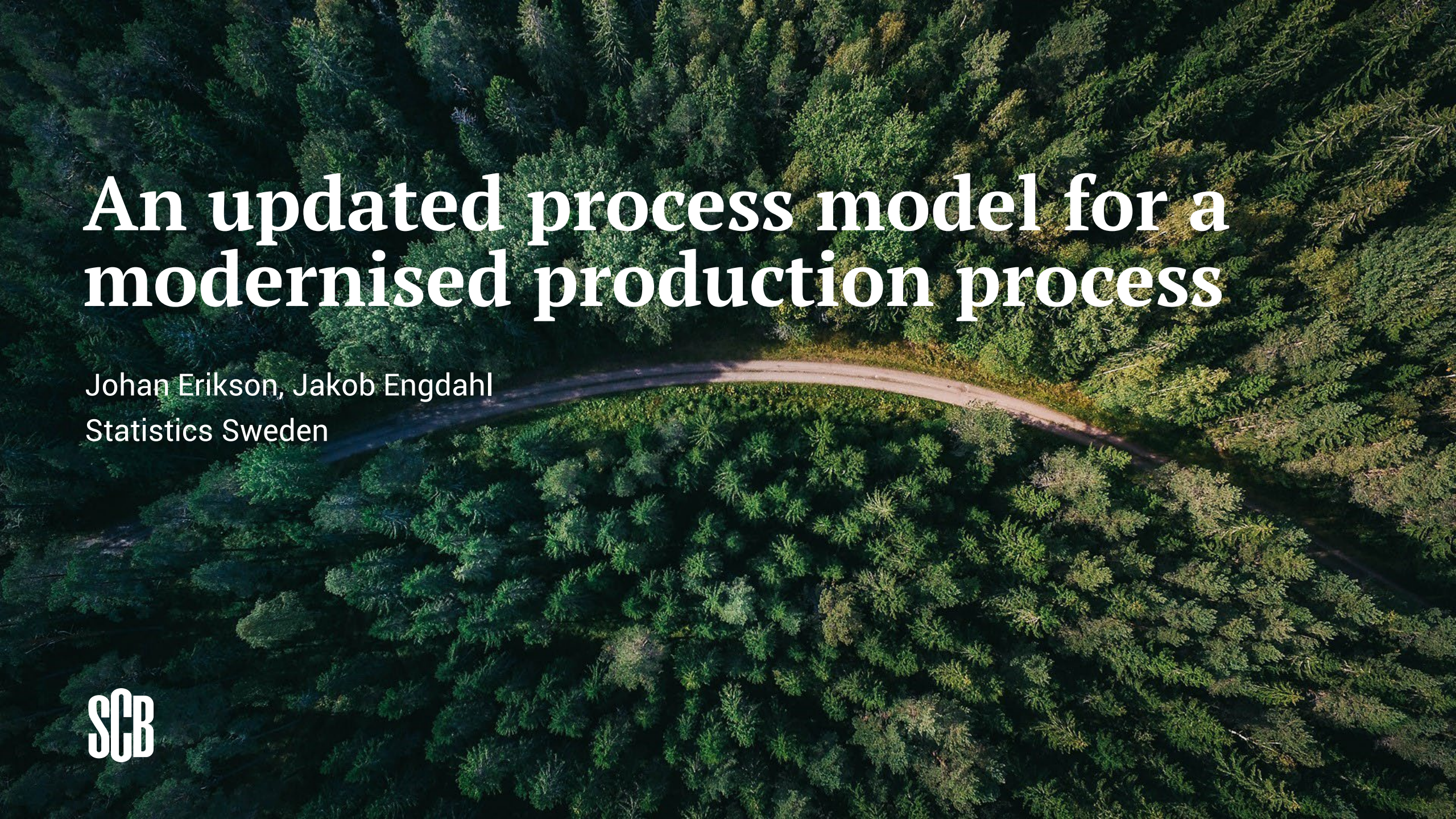


An updated process model for a modernised production process

Johan Erikson, Jakob Engdahl
Statistics Sweden

SCB

Why an updated process model?

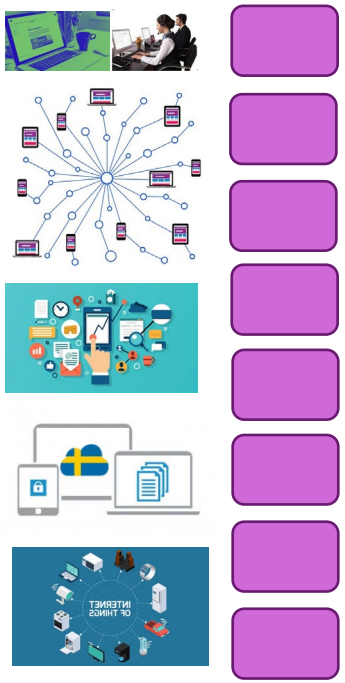
- Statistical production 4.0
  - New types of data sources
  - Cohesive design of statistical areas
  - New ways of working → flexible
  - Adapt to new technical possibilities
  - Take out things that are not done by every statistical program

SCB

Statistical production 4.0

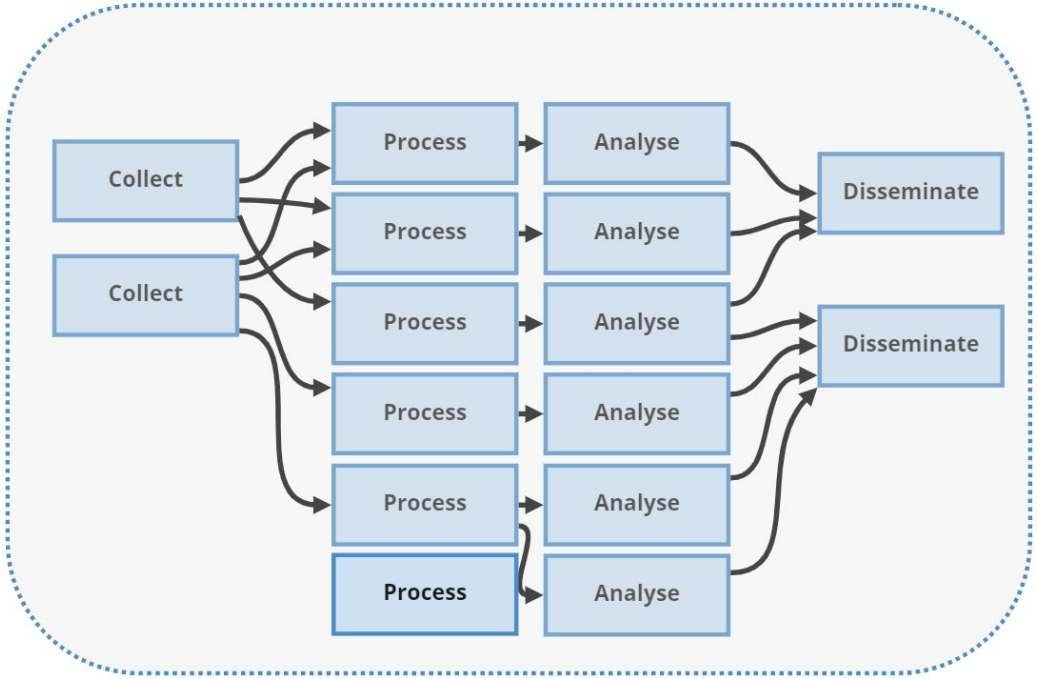
Data sources

Movement from primary collection of data for statistical purposes to data created for other needs



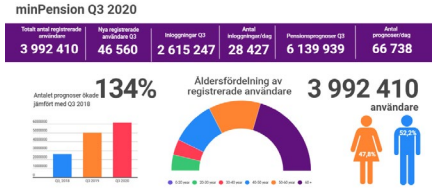
From data to statistics

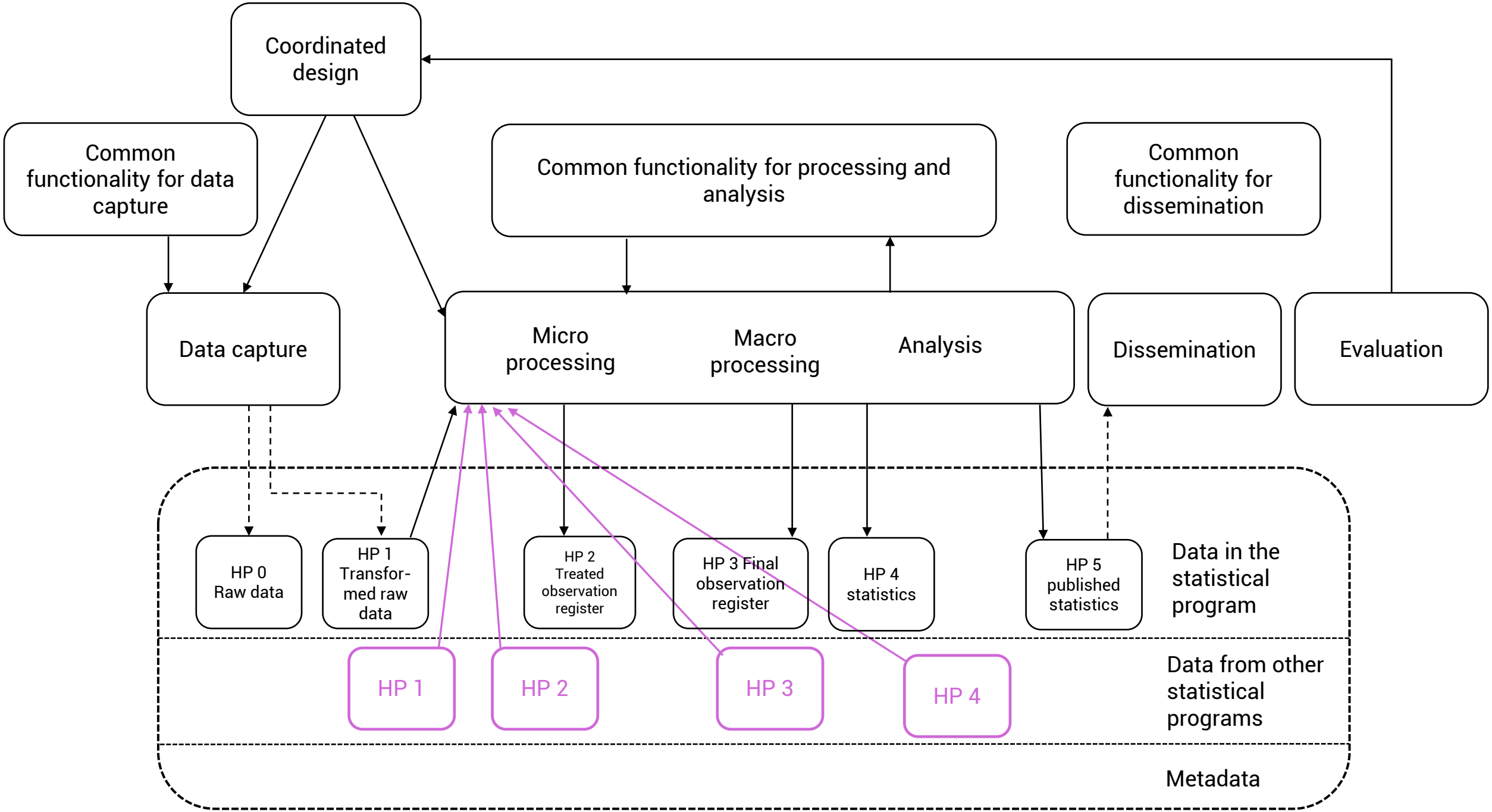
Flexible processing of different types of data
Co-ordinated output for statistical areas

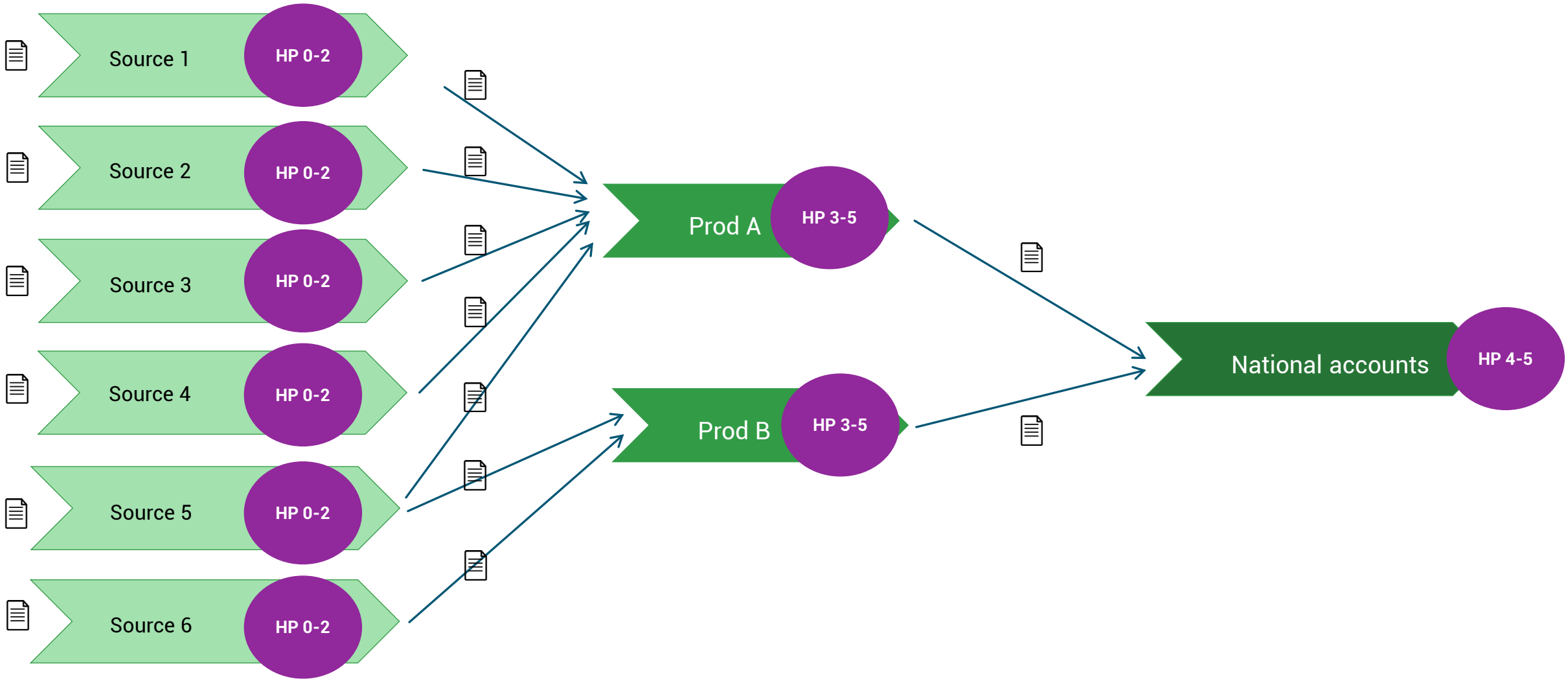


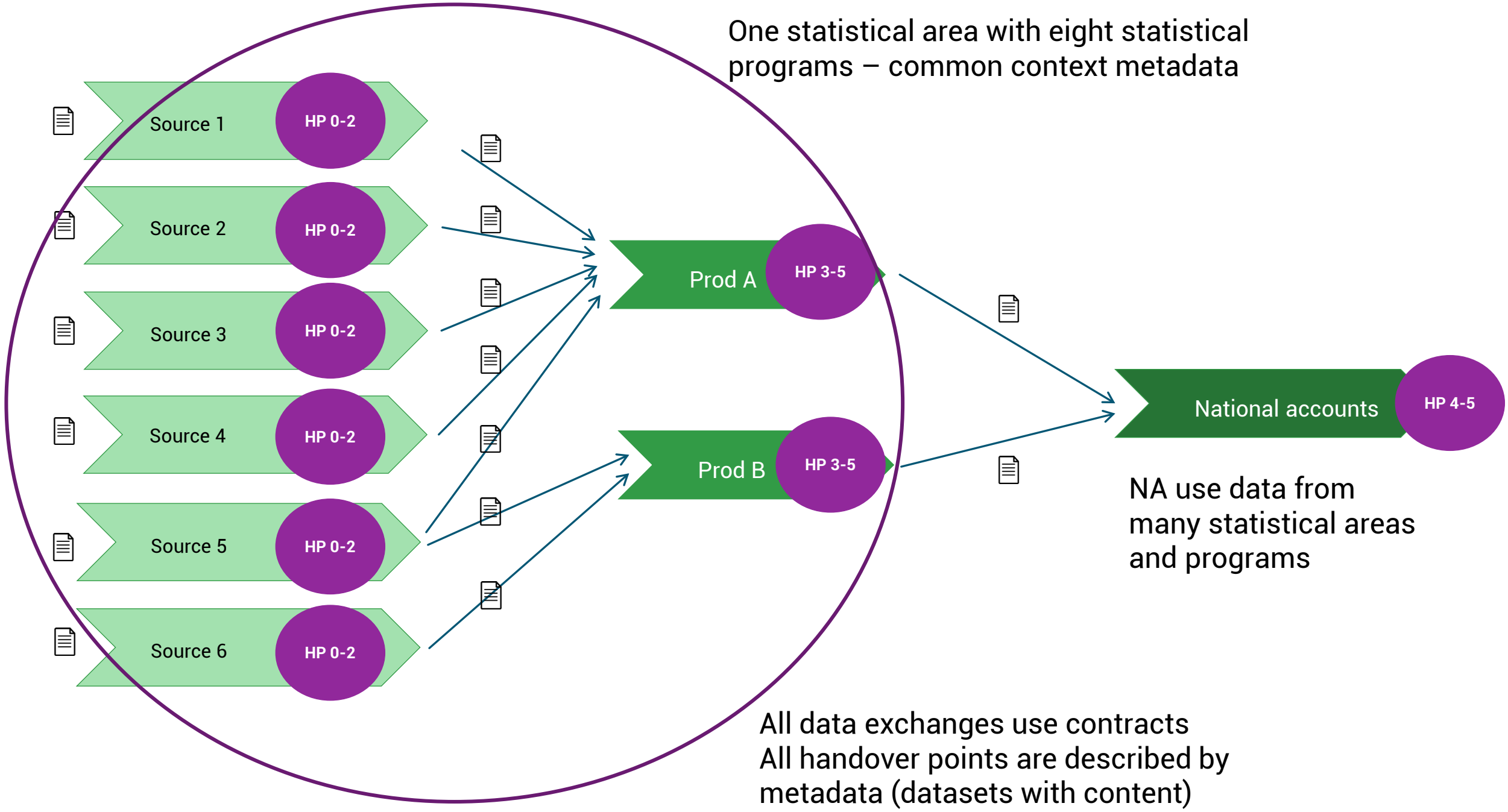
Dissemination of statistics

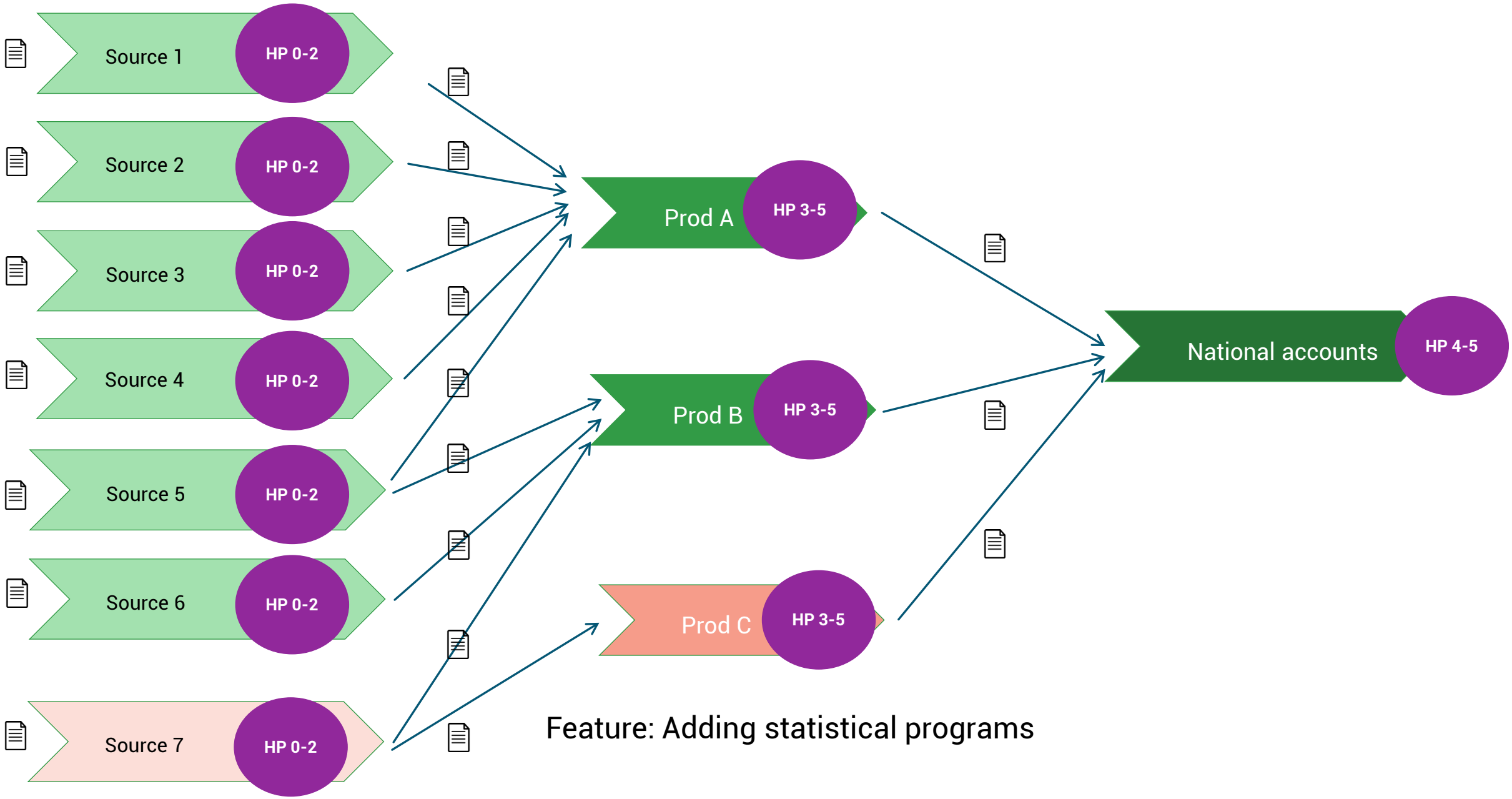
Many different channels



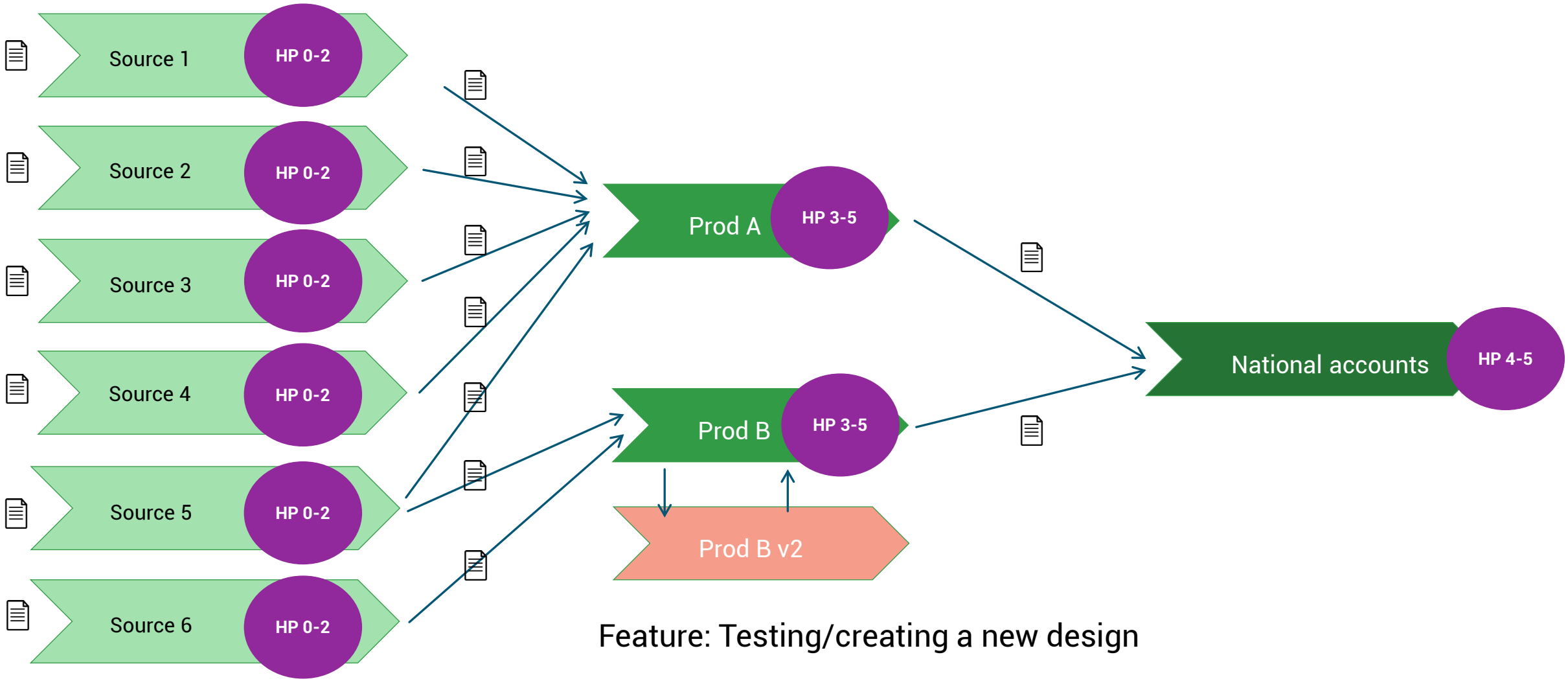

Coordinated design
Common functionality for data capture
Common functionality for processing and analysis
Common functionality for dissemination
Data capture
Micro processing
Macro processing
Analysis
Dissemination
Evaluation
HP 0 Raw data
HP 1 Transfor-med raw data
HP 2 Treated observation register
HP 3 Final observation register
HP 4 statistics
HP 5 published statistics
Data in the statistical program
HP 1
HP 2
HP 3
HP 4
Data from other statistical programs
Metadata


Source 1
HP 0-2
Source 2
HP 0-2
Source 3
HP 0-2
Source 4
HP 0-2
Source 5
HP 0-2
Source 6
HP 0-2
Prod A
HP 3-5
Prod B
HP 3-5
National accounts
HP 4-5


One statistical area with eight statistical programs – common context metadata
Source 1
HP 0-2
Source 2
HP 0-2
Source 3
HP 0-2
Source 4
HP 0-2
Source 5
HP 0-2
Source 6
HP 0-2
Prod A
HP 3-5
Prod B
HP 3-5
National accounts
HP 4-5
NA use data from many statistical areas and programs
All data exchanges use contracts
All handover points are described by metadata (datasets with content)



Feature: Adding statistical programs



Feature: Testing/creating a new design

Main suggestions

- Incorporate coordinated design of whole statistical areas
- More focus on data harvest rather than collection and a flexible use of data sources
- More focus on metadata
- More focus on automated production flows
- Take out the building of IT platforms, include configuration through parameters and code

SCB