

# Data science in the context of international banking statistics

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S V E R I G E S R I K S B A N K

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# Background to international banking statistics in Sweden



- New producers of this statistical product
- International banking statistics "pilot" for data science at the Riksbank
- Why this transformation?
  - Where did we start?
  - What are the benefits?
  - What is the long-term objective?

# Results of the project

- Fast and assured
- Rapid implementation of new ideas
- Lower cost than expected

# Ideas for enhancing data handling

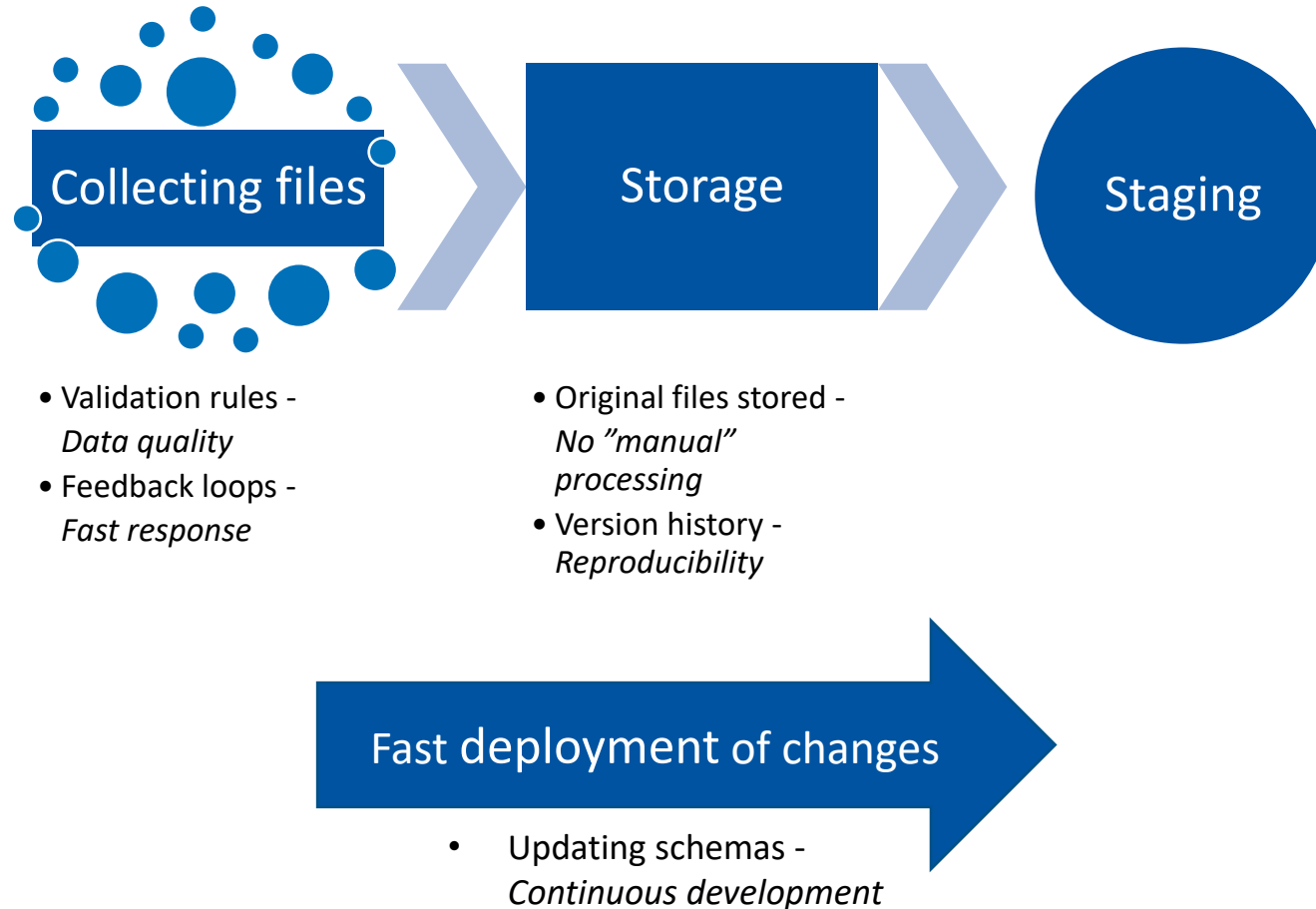
- Open source approach
- Continuous development
- Collaboration



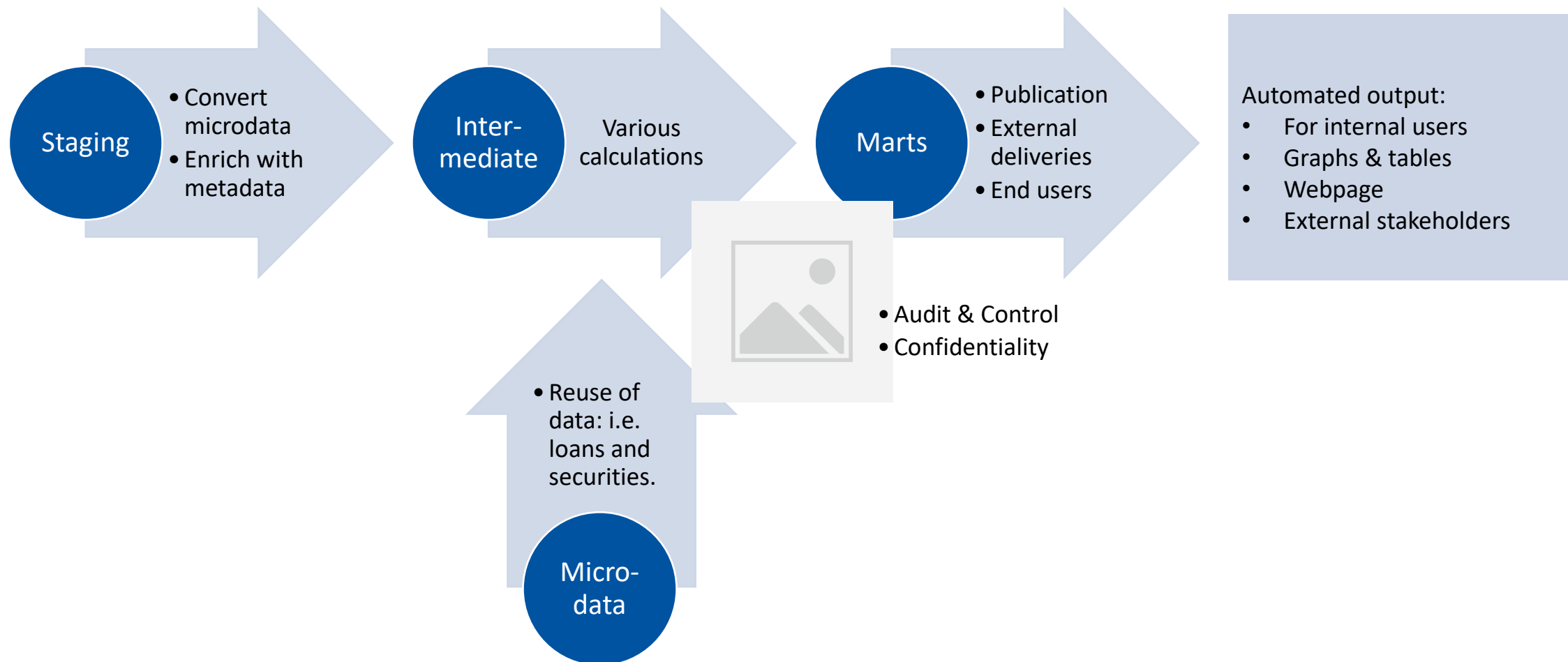
# How we produce international banking statistics

- Data collection
- Processing, Review & Dissemination
- Evaluation

# How we produce international banking statistics - Data collection

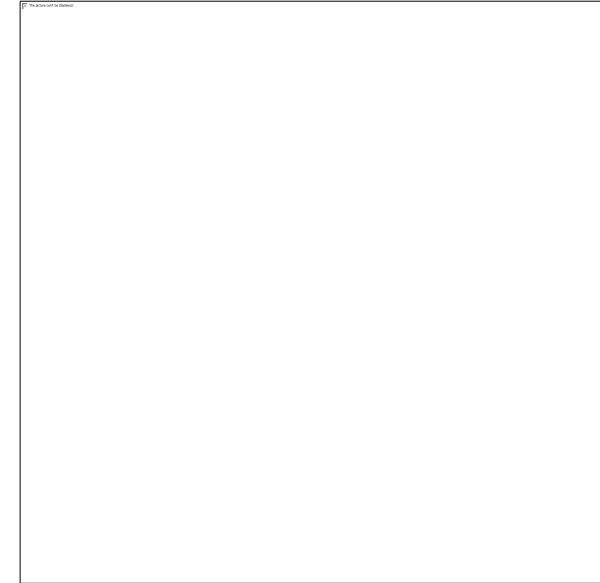


# How we produce international banking statistics – Processing, Review & Dissemination



# How we produce international banking statistics - Evaluation

- Agile way of working
- Small single team
- New products for end users
- Continuous development
  - Ability to create and modify code
  - Fast, secure and independent
  - Will effectively implement new ideas





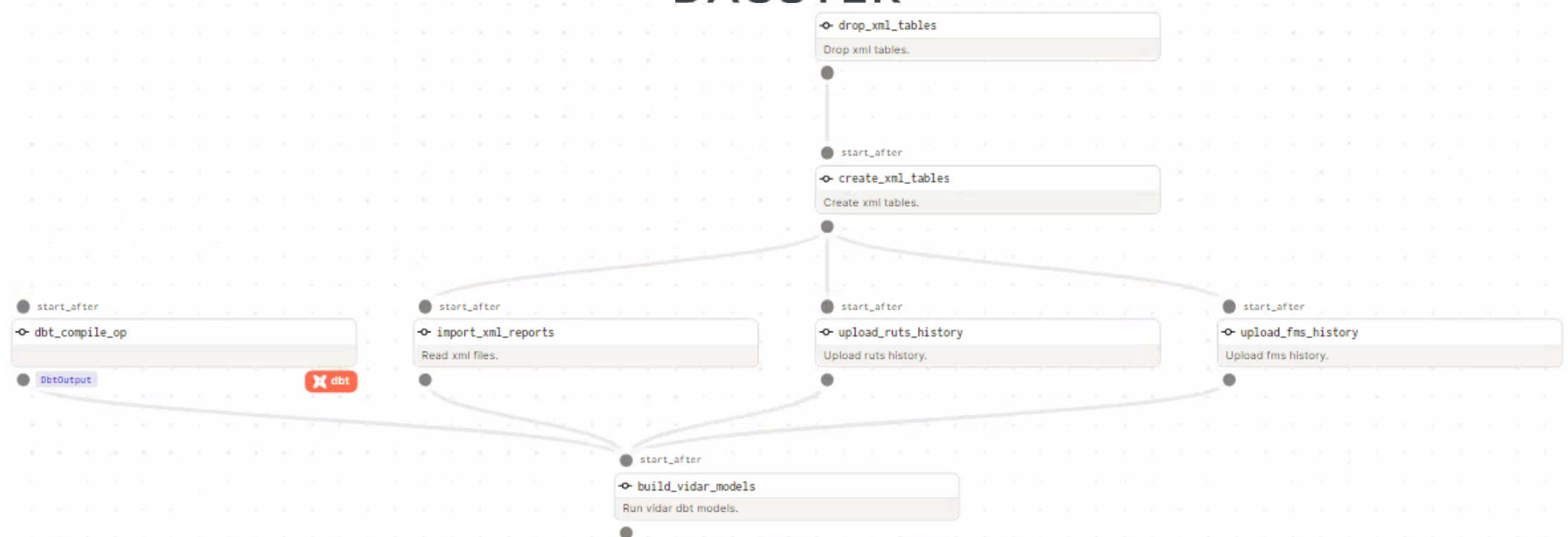
# Tools for continuous development

- Platform for project management
  - Code sharing and review
  - Pipeline for test and deployment
  - Package management
  - Planning and timeline



# Tools for continuous development

- Orchestrator and scheduler



# Tools for continuous development

- Data transformation
- Testing
- Access management
- Publication of documentation

