

HFBI – WS2 – TECHNICAL PLATFORM

4.8.2021

TECHNICAL PLATFORM OPTIONS FOR PREPARING/POPULATING DATA

WE ARE SPOILED OF CHOICES – IN FOLLOWING SLIDES JUST A SMALL SAMPLE FOR CONSIDERATION
FINAL SELECTION DEPENDS ON FACILITY'S EXISTING SYSTEM AND SKILLS OF PERSONNEL

DBMS FOR BI

PostgreSQL, MariaDB, MySQL, SQL Server, Oracle, mongoDB, ...

TOOLS FOR ACCESSING AND ADMINISTERING DATA STORES

Native DBAdmin, HeidiSQL, ...

TOOLS FOR DATA MODELING

DBDesigner, ArgoUML, DbSchema, ...

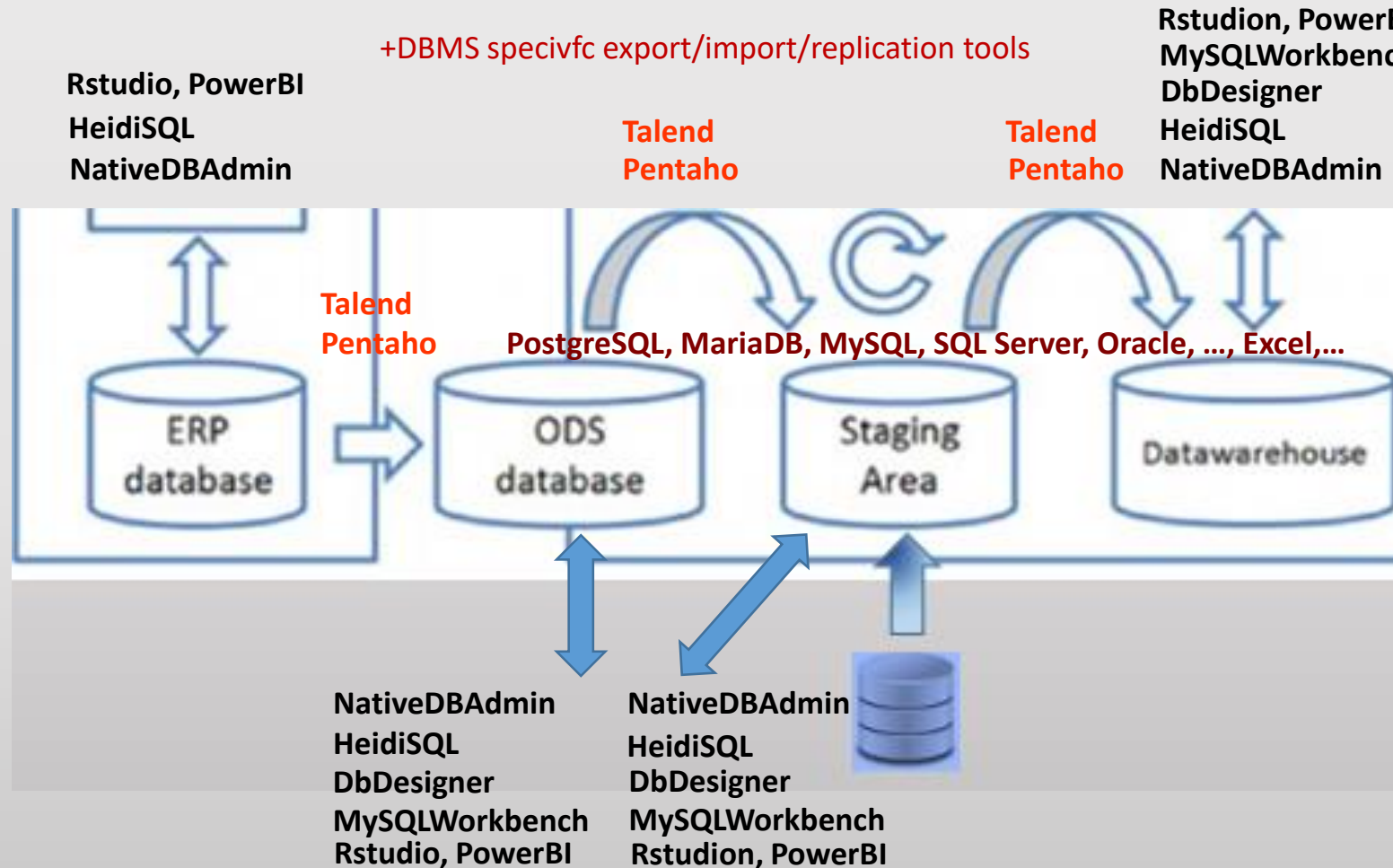
TOOLS FOR CLEANING, TRANSFORMING, ETL ...

Pentaho, Power BI, RapidMiner, Alteryx, Qubole, Trifacta, ...
(+ DBMS specific tools for export/import/replication)

POPULAR PROGRAMMING LANGUAGES FOR BI

Python, SQL, R, C++, Java, C, JavaScript, ...

TECHNICAL PLATFORM OPTIONS FOR ACCESSING/PREPARING/POPULATING DATA

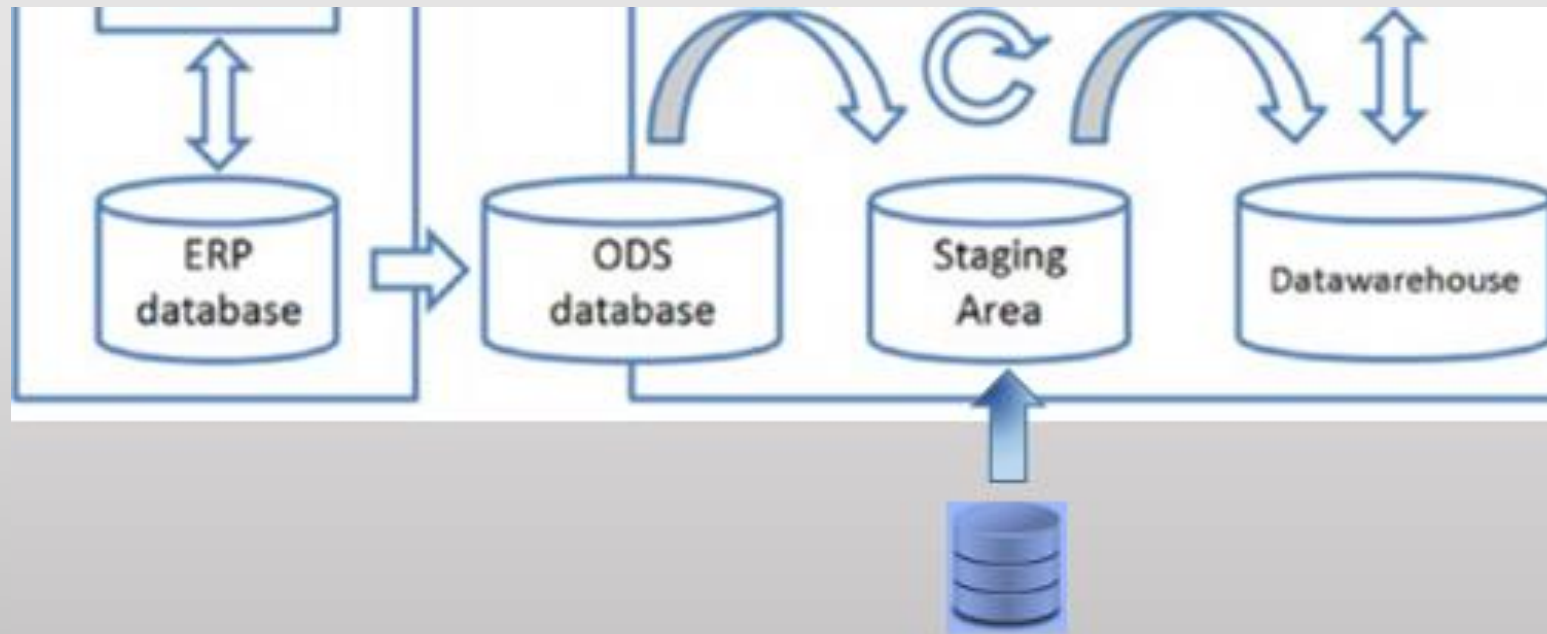
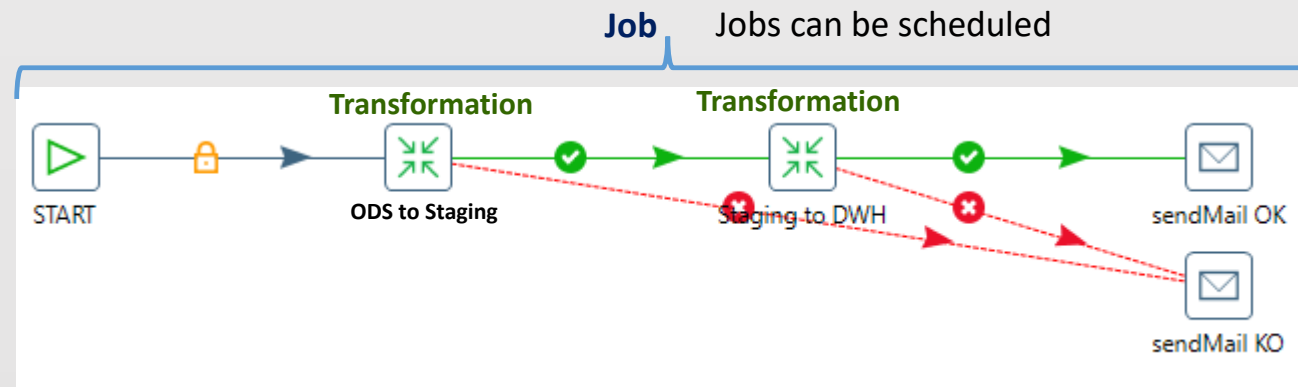


PowerBI desktop combines functionalities for data source access, data preparation and analysis

The technical solution for transferring data from one data store to another depends to a large degree on the data store architecture and products!

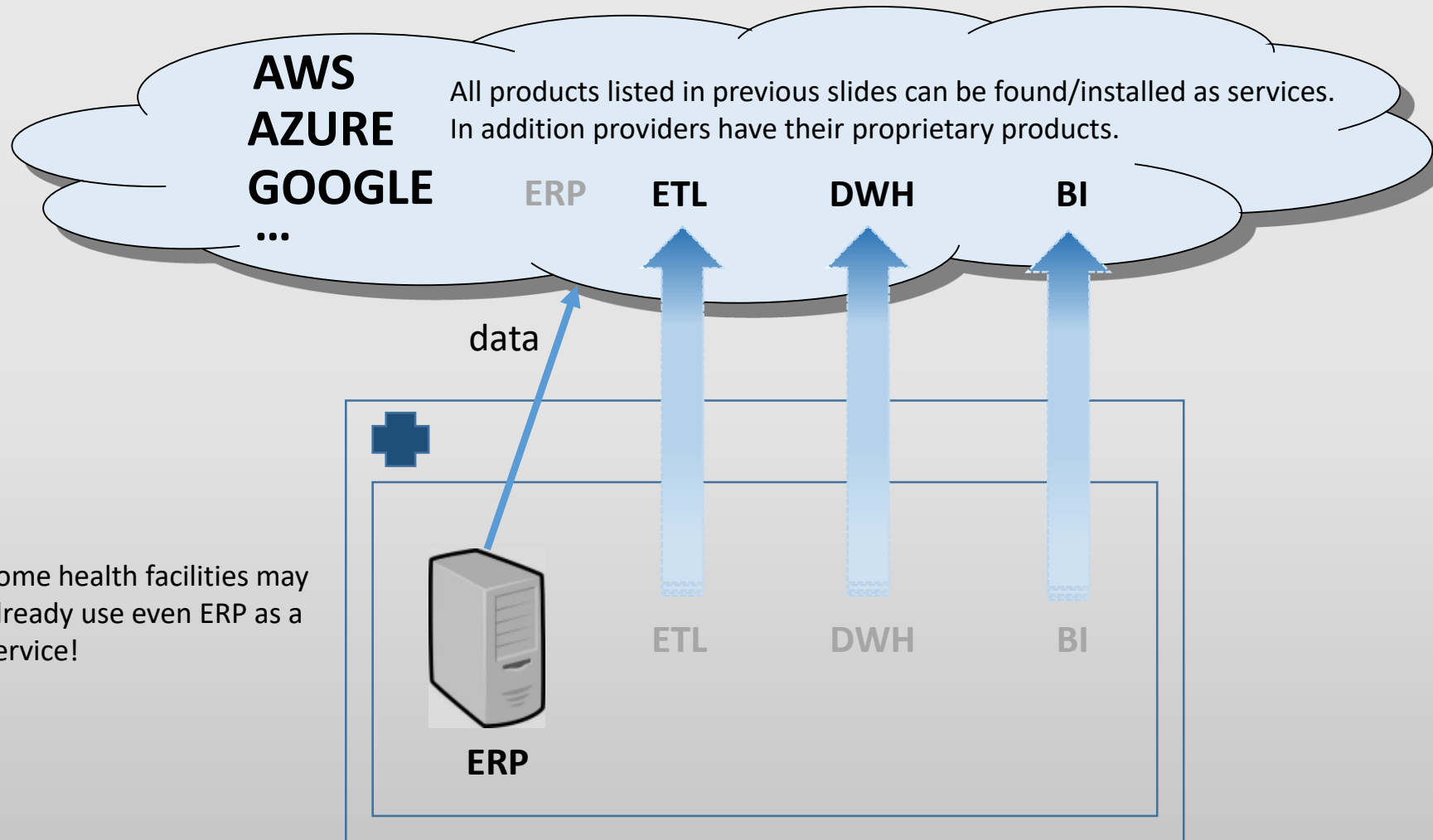
USING PENTAHO TO MANAGE THE WHOLE ETL WORKFLOW

Transformation is a data flow consisting of steps (tasks) that transform and move the data



TECHNICAL PLATFORM AS A SERVICE – “CLOUD”

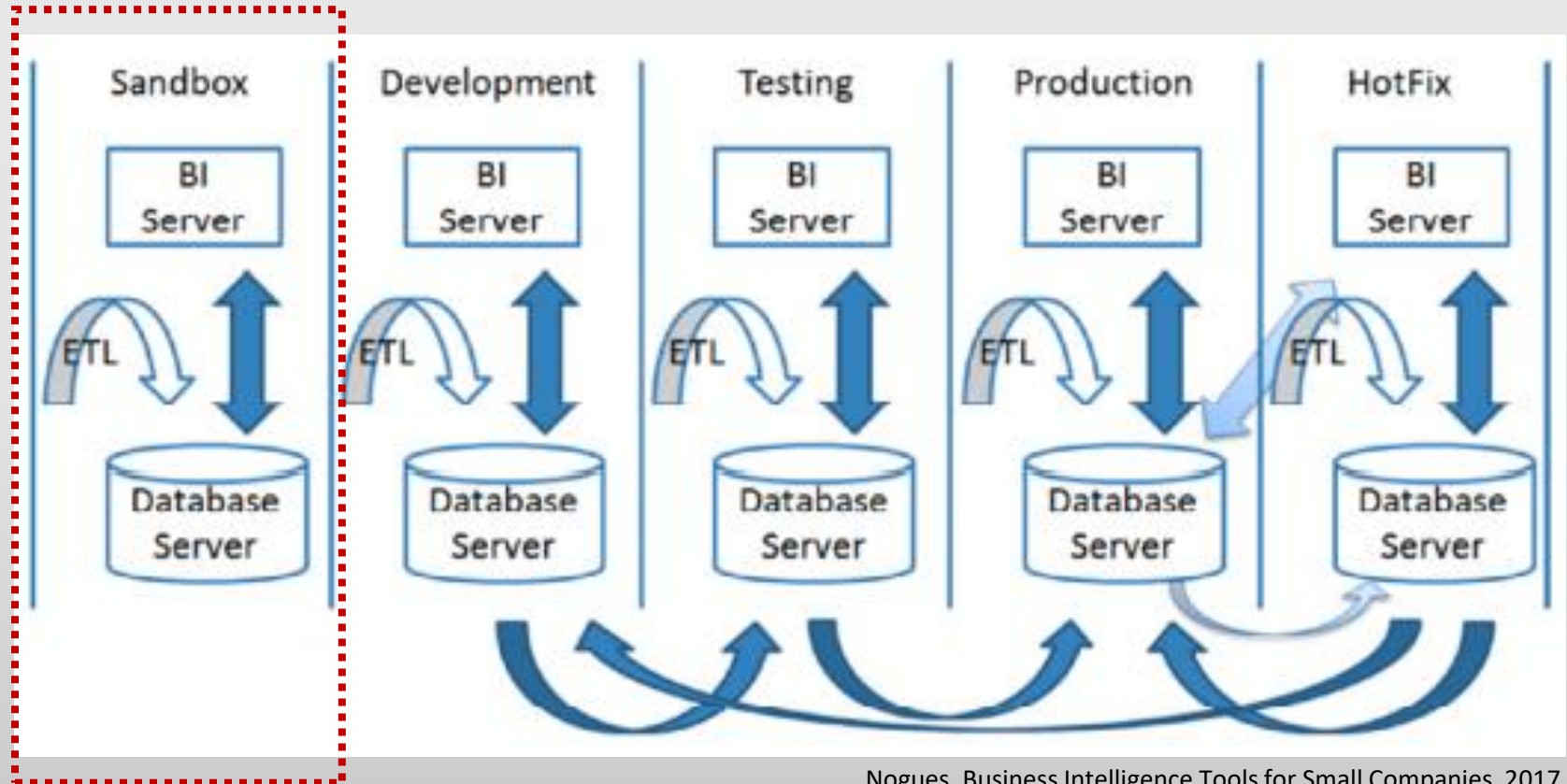
(HARWARE, OS, SOFTWARE, NETWORKING)



Some health facilities may already use even ERP as a service!

THE FULL DevOps ENVIRONMENT

During the HFBI workshop series we work more or less in a sandbox environment. It is isolated from the current production systems so that we can experiment with our potentially unsafe and unsecure code.



Nogues, Business Intelligence Tools for Small Companies, 2017

QUICK TECHNICAL SOLUTION FOR WS EXERCISES

