

# Kettle

Или трансформация данных чайником

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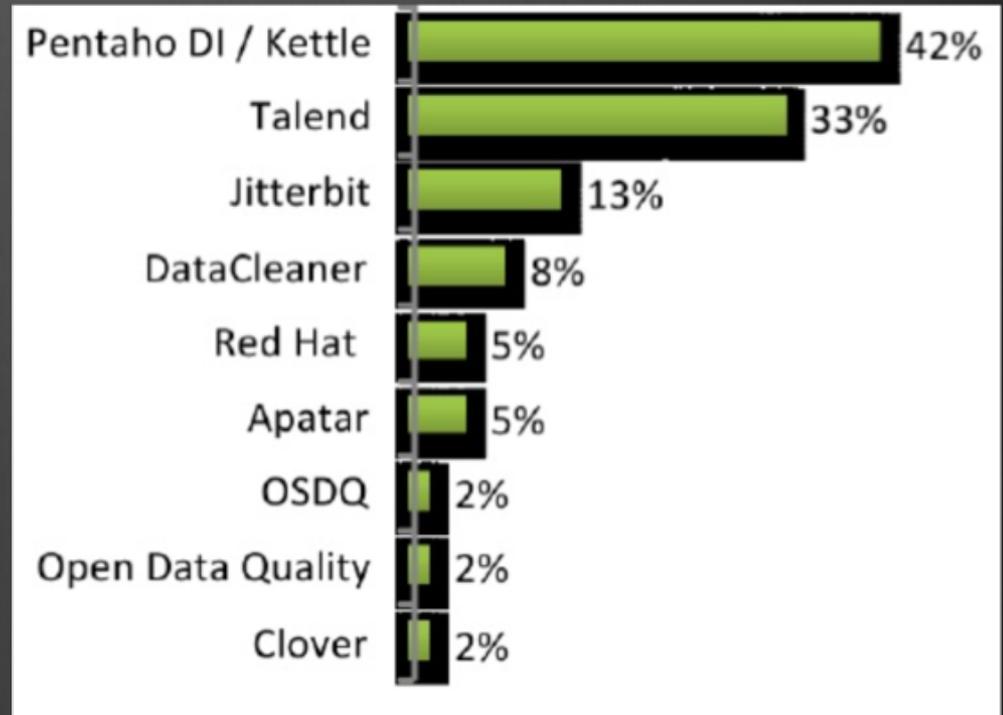
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# Why Data Integration Tool?

- ⊗ Data consolidation project for Nortal BI
  - ⊗ 6 countries
  - ⊗ 11 different applications
  - ⊗ 3 DBMS

# Why Kettle?

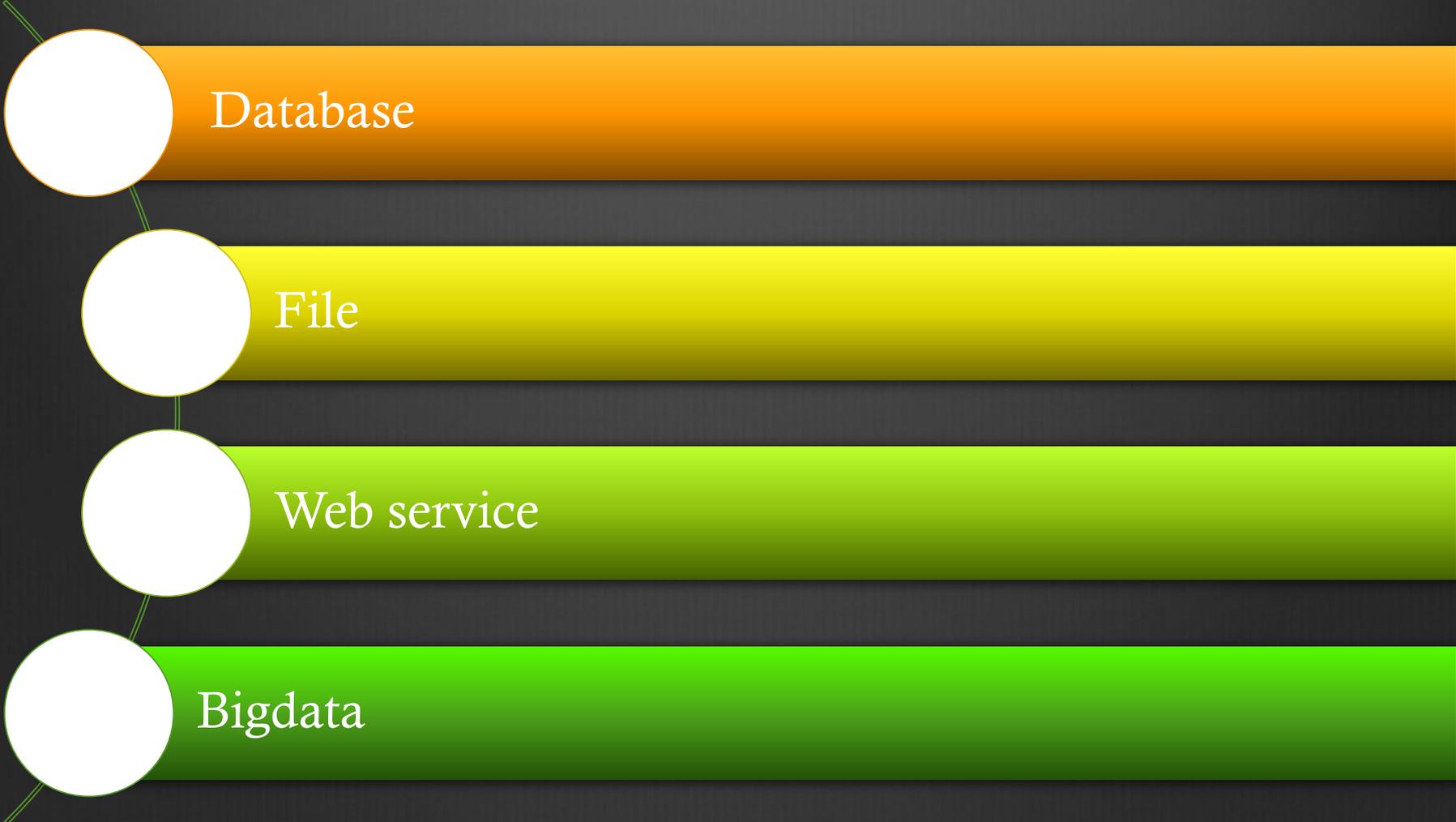
- 🎬 Open-source
- 🎬 Free
- 🎬 Big community
- 🎬 Easy to use
- 🎬 Easy to debug



# What is Kettle?

- ⊗ Kettle – Pentaho Data Integration tool with powerful Extraction, Transformation, and Loading (ETL) capabilities
- ⊗ Intuitive, graphical, drag and drop design environment
- ⊗ Scalable and standards-based architecture

# When to use



Database

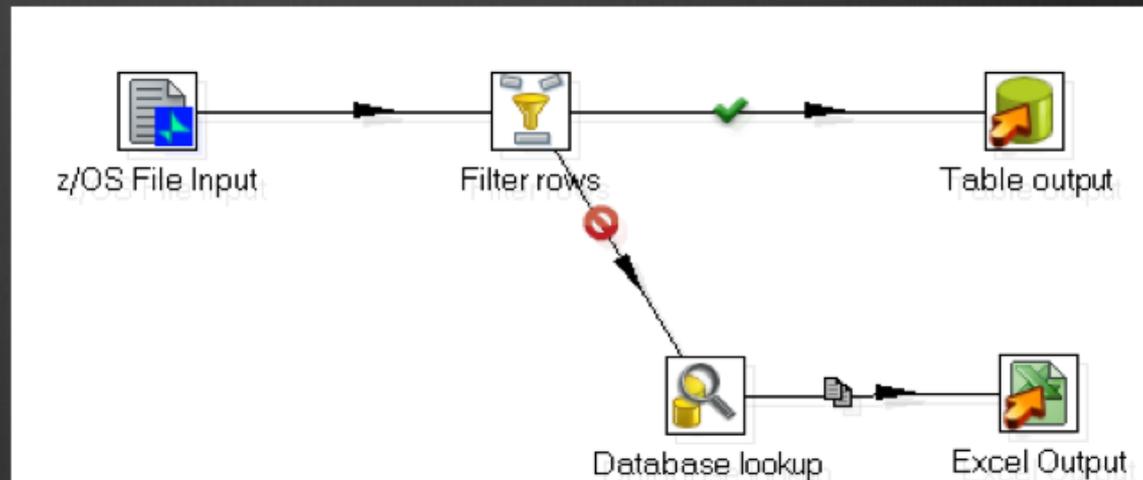
File

Web service

Bigdata

# How it works

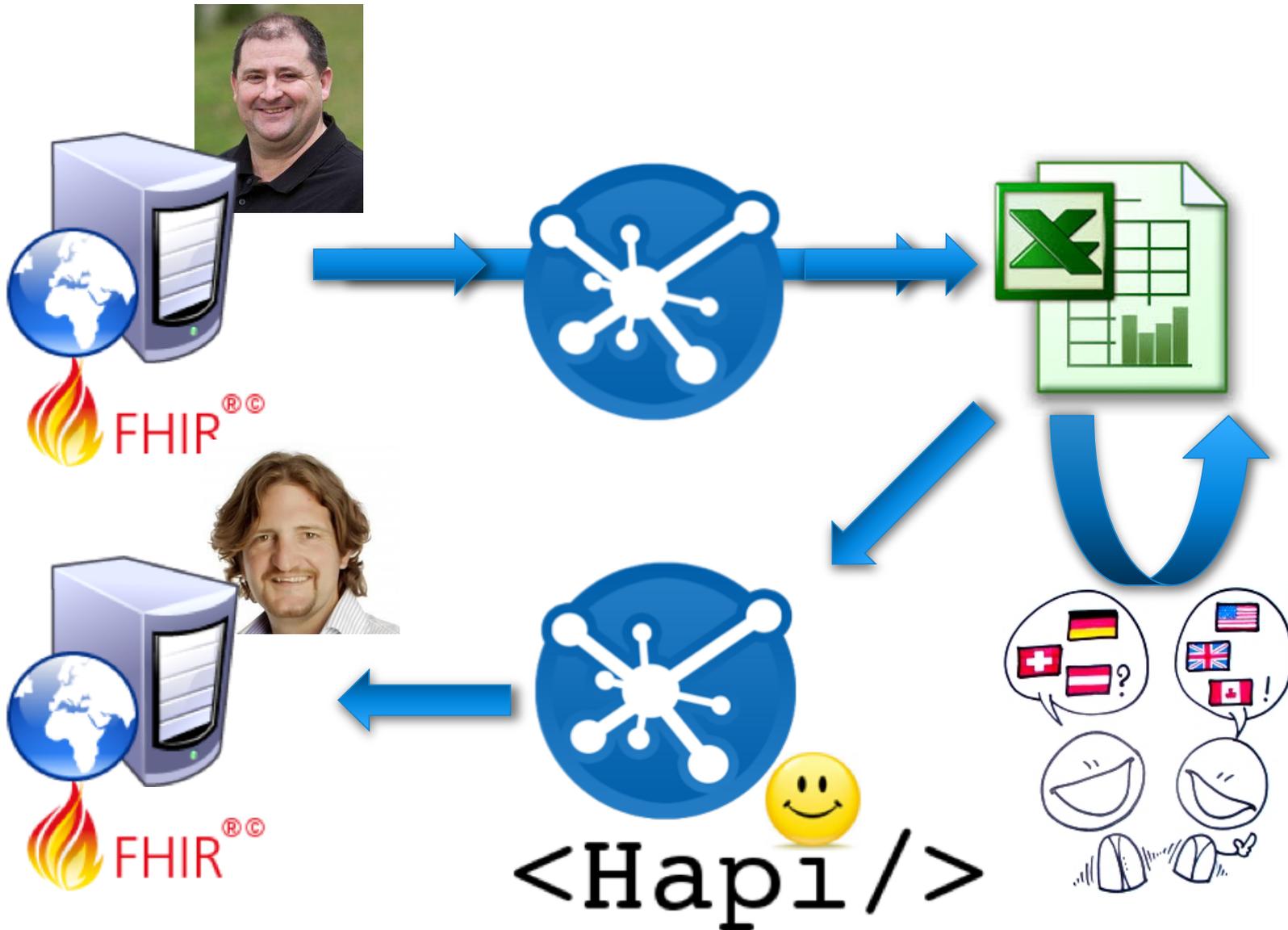
- ⦿ Extraction (35+ databases, LDAP, files, web services, Bigdata, xBase, Geo-data, generated data ..)
- ⦿ Transportation (union, append, filter, ..)
- ⦿ Transformation (split, join, lookup, calculator, scripting, ...)
- ⦿ Loading (see extraction)
- ⦿ Streaming!!!



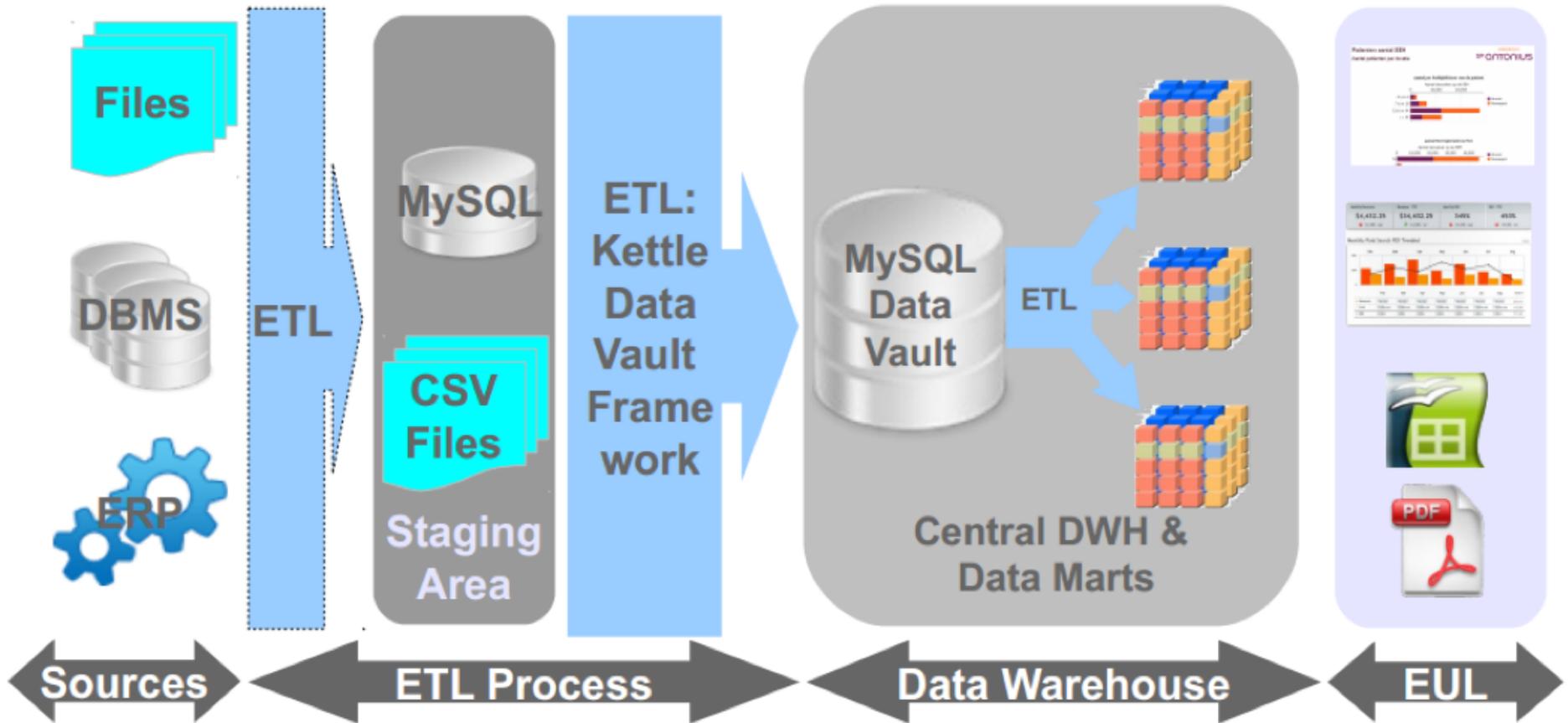
# Examples

- ⊗ Database -> Database
- ⊗ Database -> Excel
- ⊗ Javascript transformation (Period dimension)
- ⊗ REST service <-> Excel
- ⊗ Translation example (Property -> Excel)
- ⊗ Overview of Nortal BI

# ValueSet translations



# Complex solution with Kettle



# How to start

- ⊙ Download and extract  
zip <http://community.pentaho.com/projects/data-integration/>
- ⊙ Run graphical designer - spoon.sh (.bat)
- ⊙ Use kitchen.sh (.bat) to execute the jobs in a batch mode in shell (usually using scheduler)

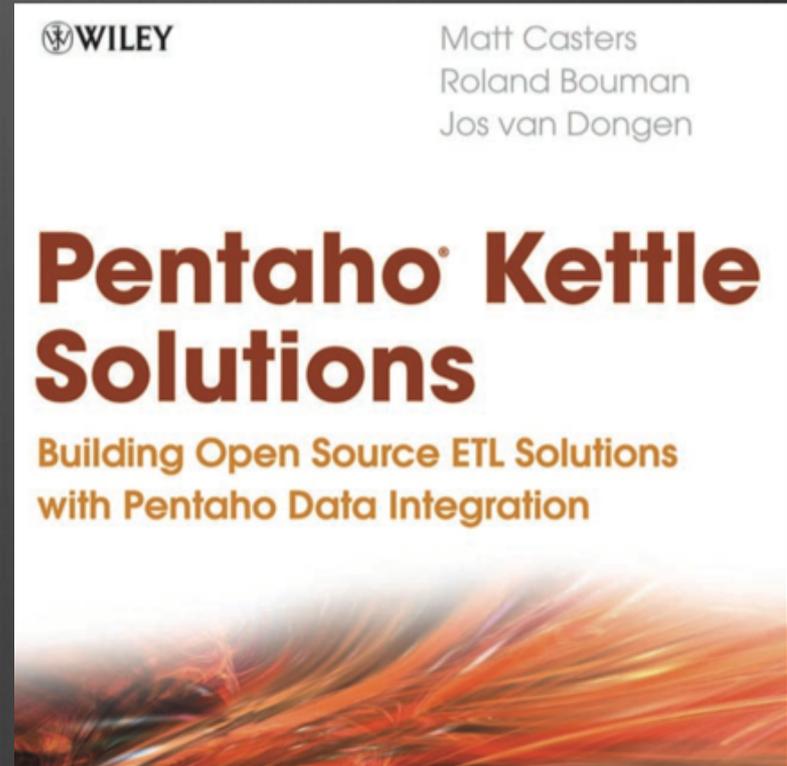
# Recommendation

Matt Casters

Chief of Data Integration  
in Pentaho

Lead Development

Kettle Project Founder



# My translation tool

<https://github.com/nortal/fhir-etl>

# Q&A

Thank you for listening!