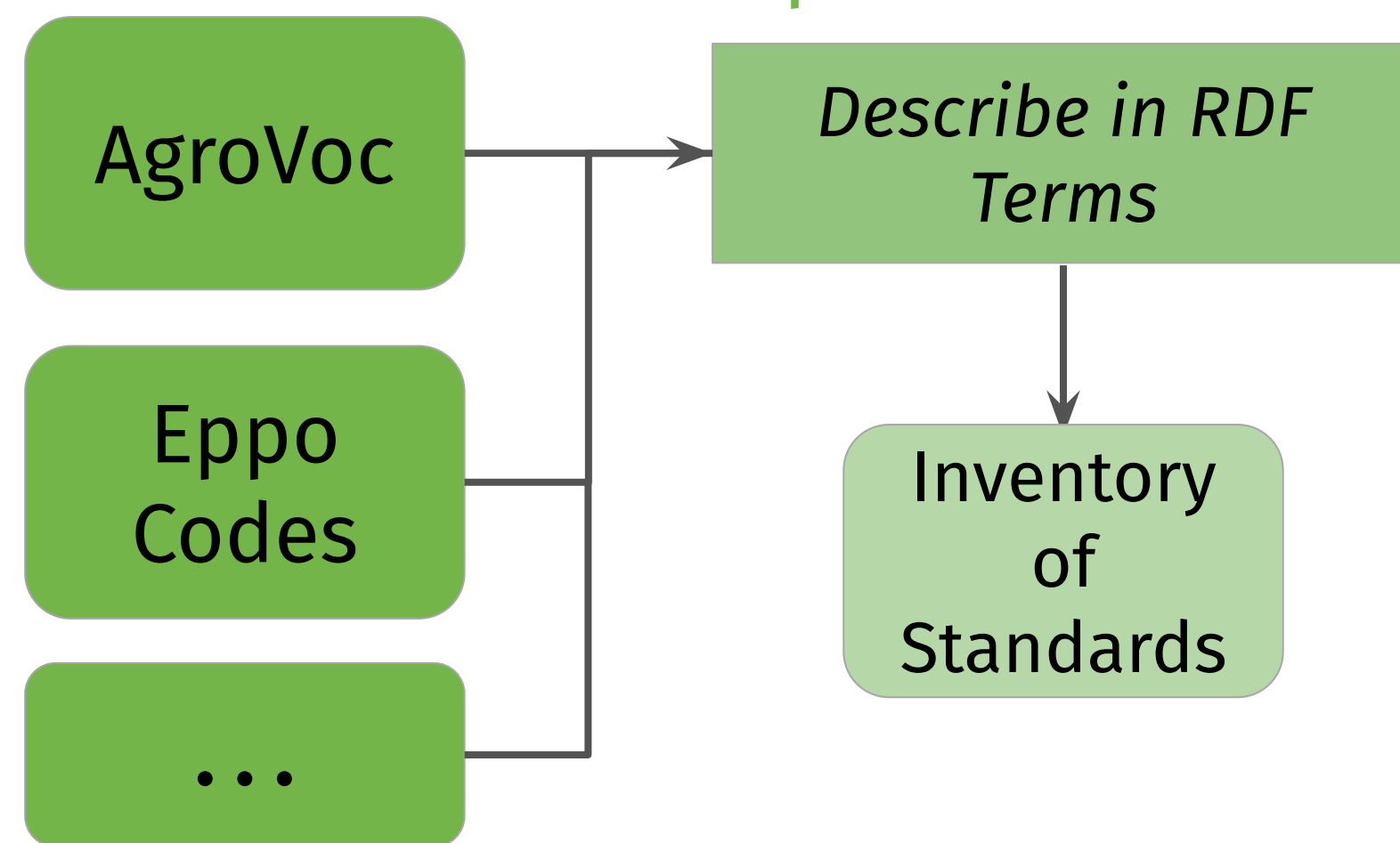FAIRagro

(Meta)Data Standards for agricultural research data management and approaches towards evaluation – an overview

Authors: Jascha Jung (KTBL), Nils Reinosch (KTBL), Daniel Martini (KTBL), Gabriel Schneider (ZB MED) on behalf of the FAIRagro consortium

Standards Inventory

- Develop a comprehensive inventory of relevant (meta)data standards, repositories and infrastructures for FAIRagro

- Represent this inventory in RDF (Resource Description Framework) for better interoperability and querying
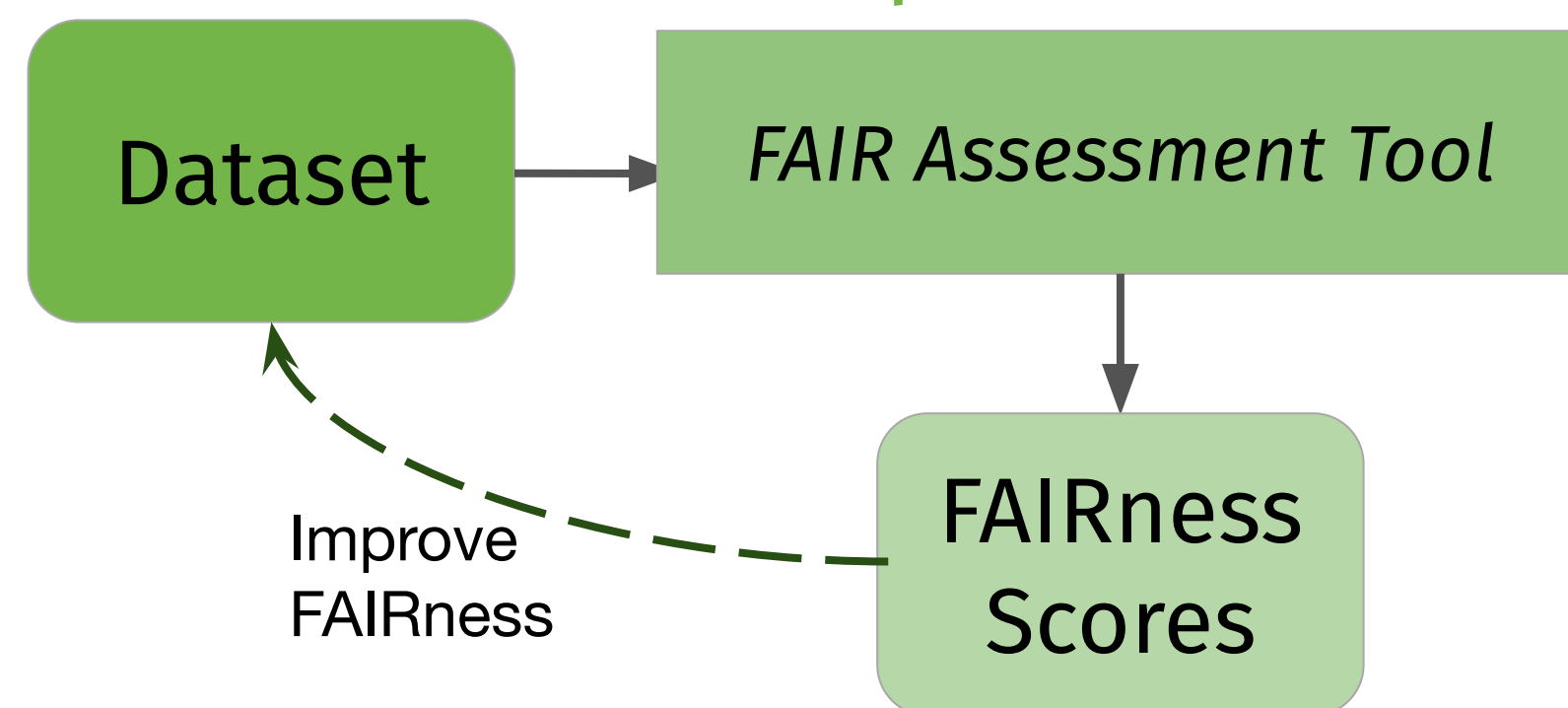
An example:

AgroVoc → *Describe in RDF Terms* → Inventory of Standards

Eppo Codes

...

FAIR Assessment

- Goal: Assess and improve the FAIRness of FAIRagro data

- Find and use relevant metrics for specific domains

- Automate the process with a FAIR Assessment Tool
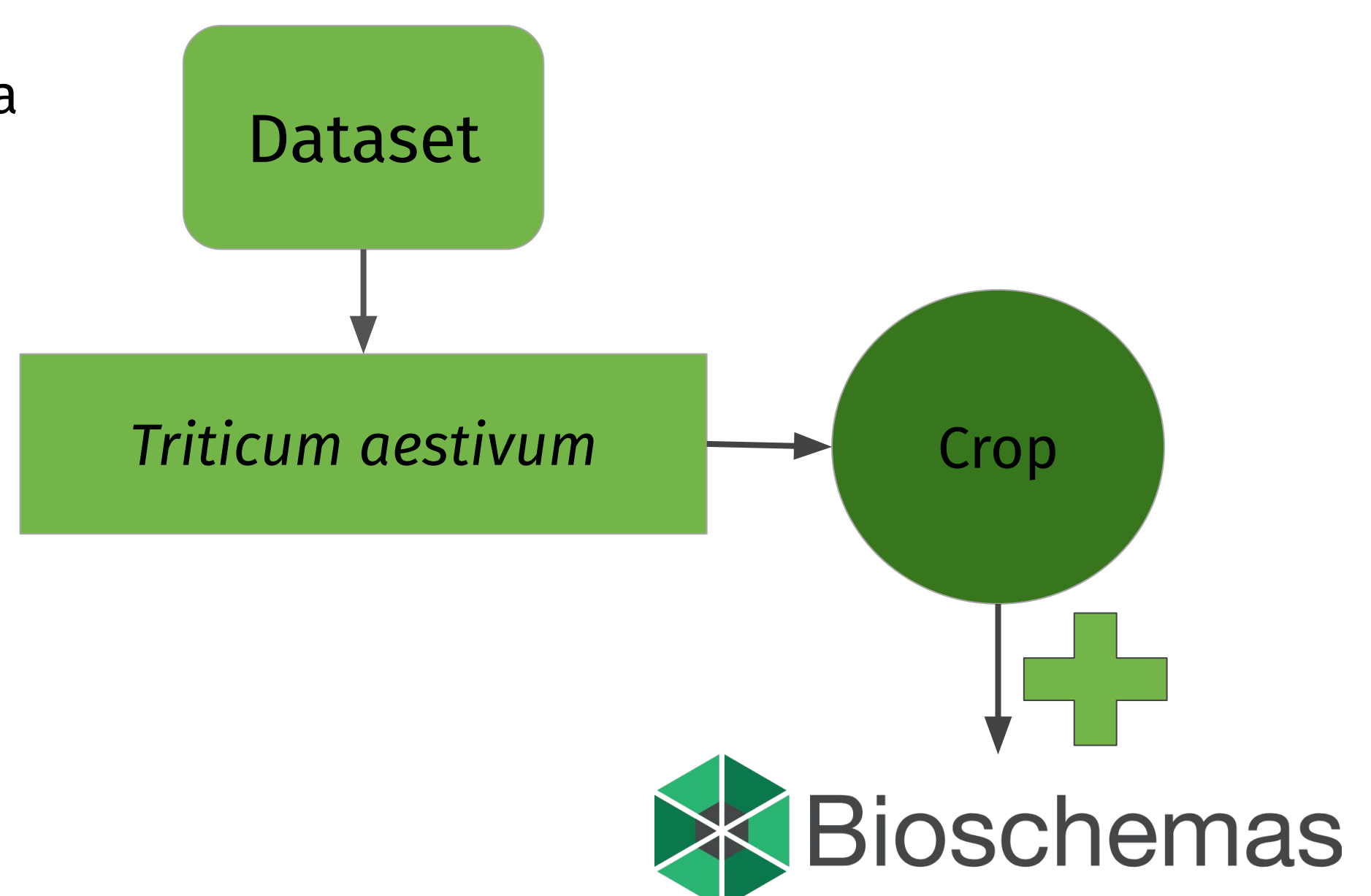
- Give feedback to researchers and platforms

An example:

Dataset → *FAIR Assessment Tool* → FAIRness Scores

Improve FAIRness

Making agrosystem resources more findable

- Search engines crawl landing pages of research data sets that are described with vocabularies like Schema.org / Bioschemas

- We extend these vocabularies with resources relevant to the agrosystem domain to increase the Findability of datasets

An example:

Dataset → *Triticum aestivum* → Crop → Bioschemas