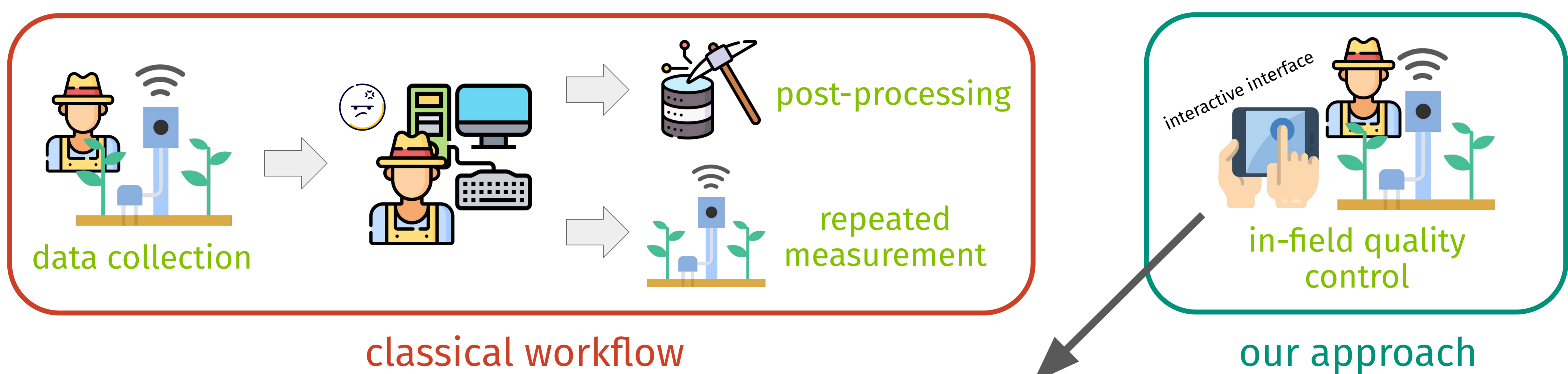UNIVERSITÄT BONN

FAIRagro

An Interactive Interface for Analyzing and Visualizing Data Quality

Authors: Shiyaza Risvi (University of Bonn), Sven Gedicke (University of Bonn) on behalf of the FAIRagro consortium

Data quality in the agricultural domain is crucial because it directly affects accurate analysis and research outputs. Usually, a lot of time and effort are dedicated to cleansing data collected from the field during a post-processing phase.
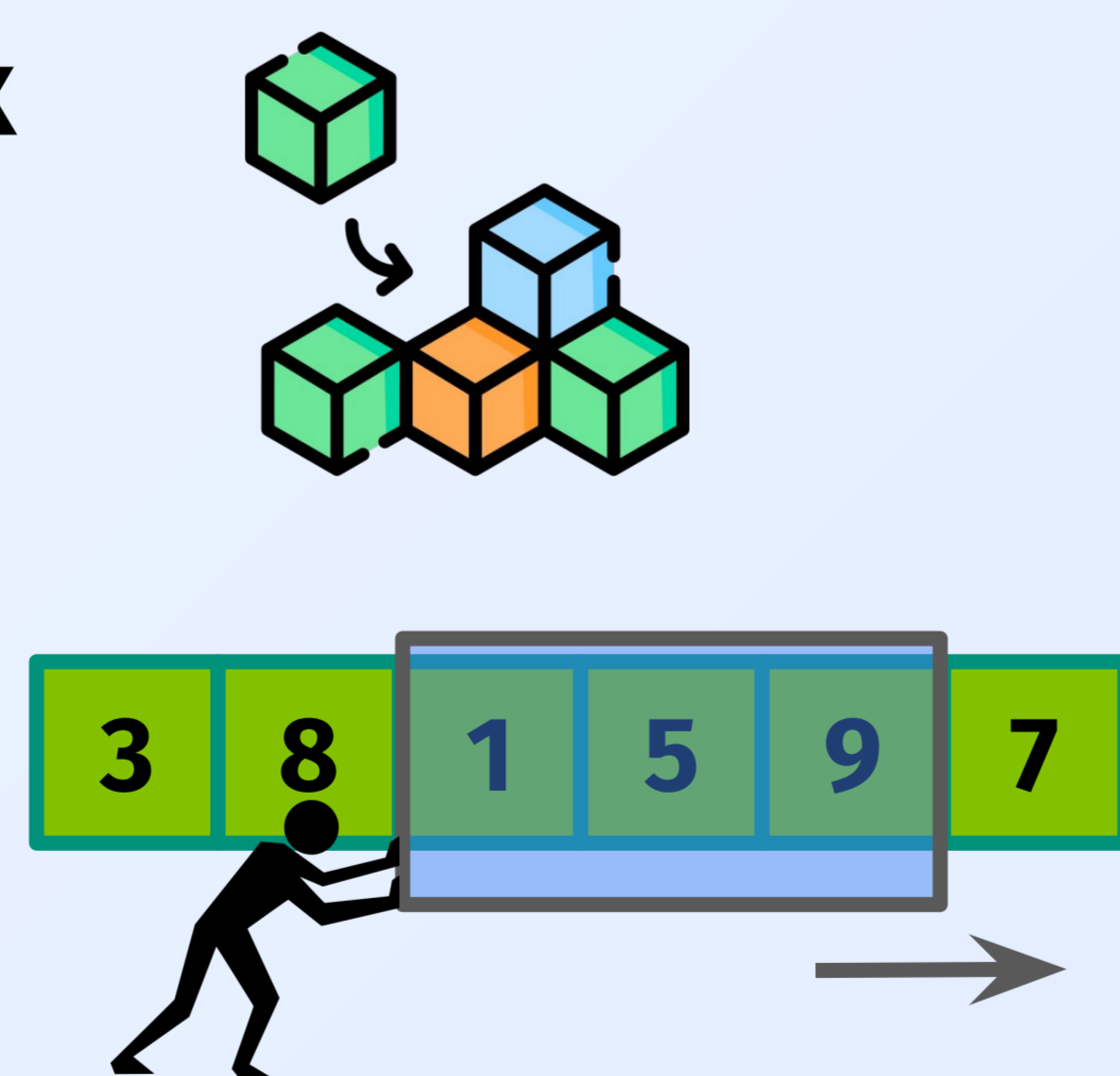

data collection → post-processing / repeated measurement

classical workflow

interactive interface — in-field quality control

our approach

Main Idea

Real-Time Analysis: Identify quality issues early to allow for immediate action in the field.

Documentation: Maintain thorough and targeted annotations of quality metrics.
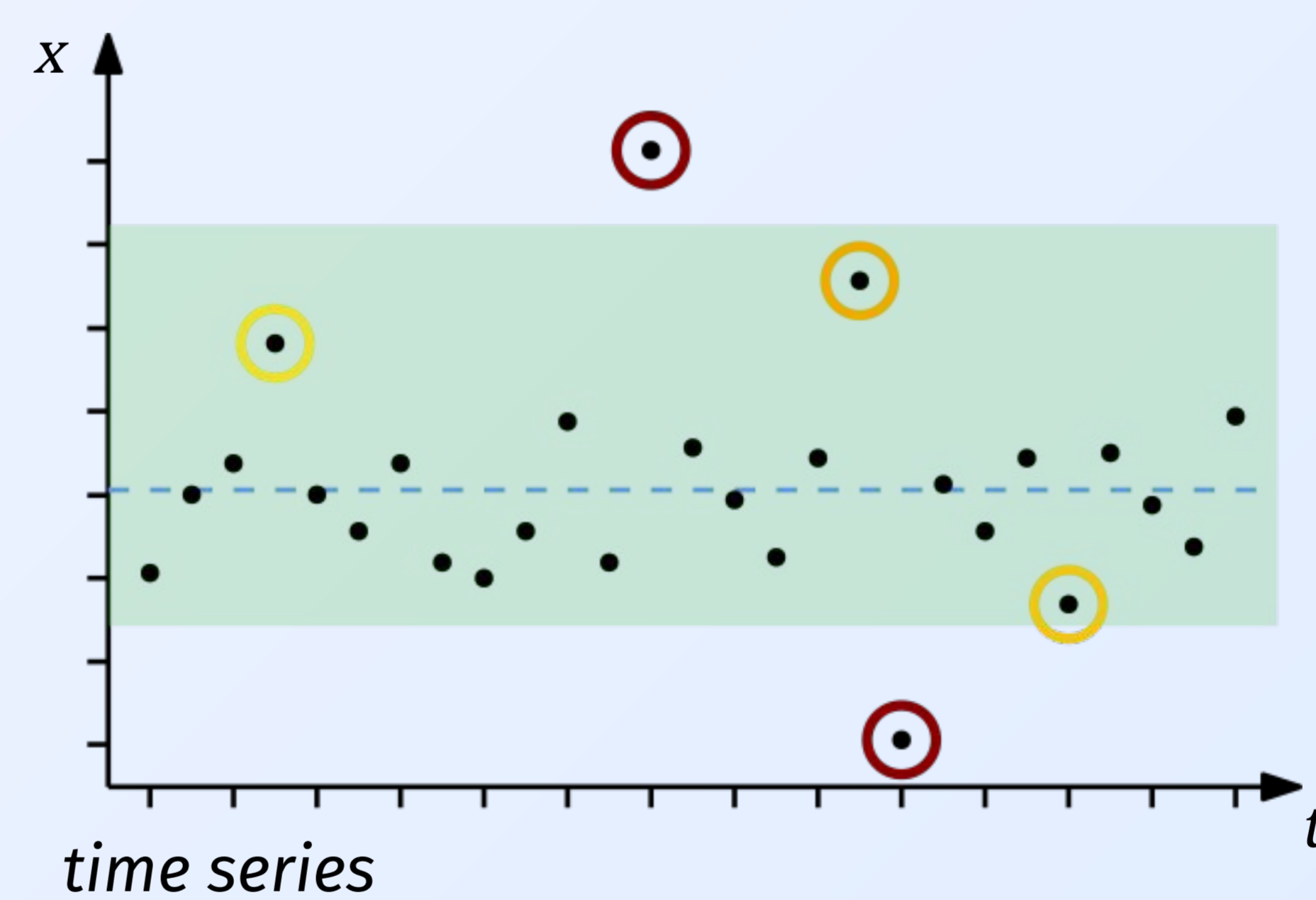
➡ Reduce expenses and save valuable time of data providers and users.

Algorithmic Toolbox

- light-weight algorithms
- modular design
- sliding window technique

| 3 | 8 | 1 | 5 | 9 | 7 |

Intuitive Visualizations

time series

spatial data

*Icons made by Freepik from www.flaticon.com