

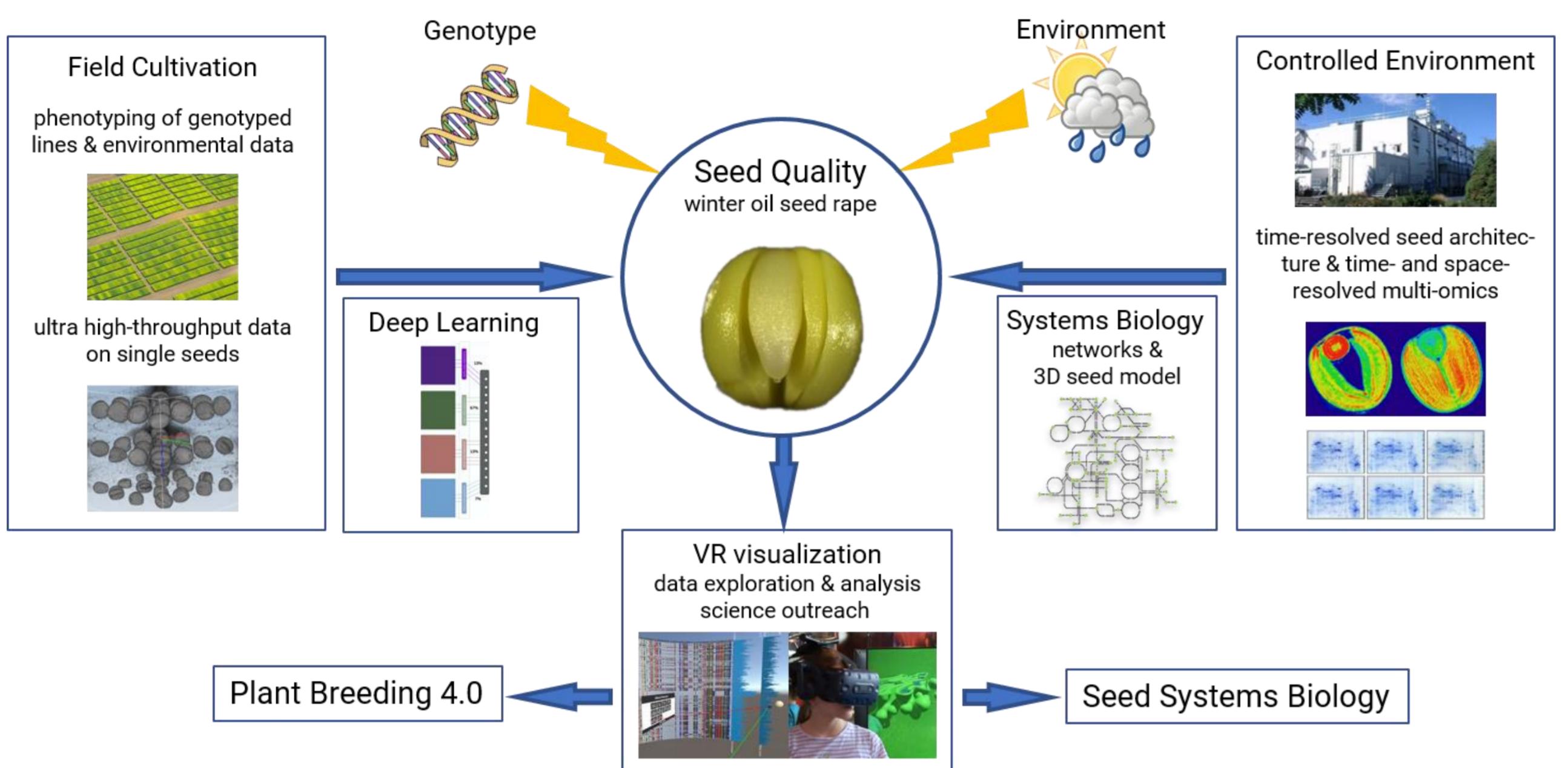
AVATARS

Advanced Virtuality and Augmented Reality Approaches in Seeds to Seeds

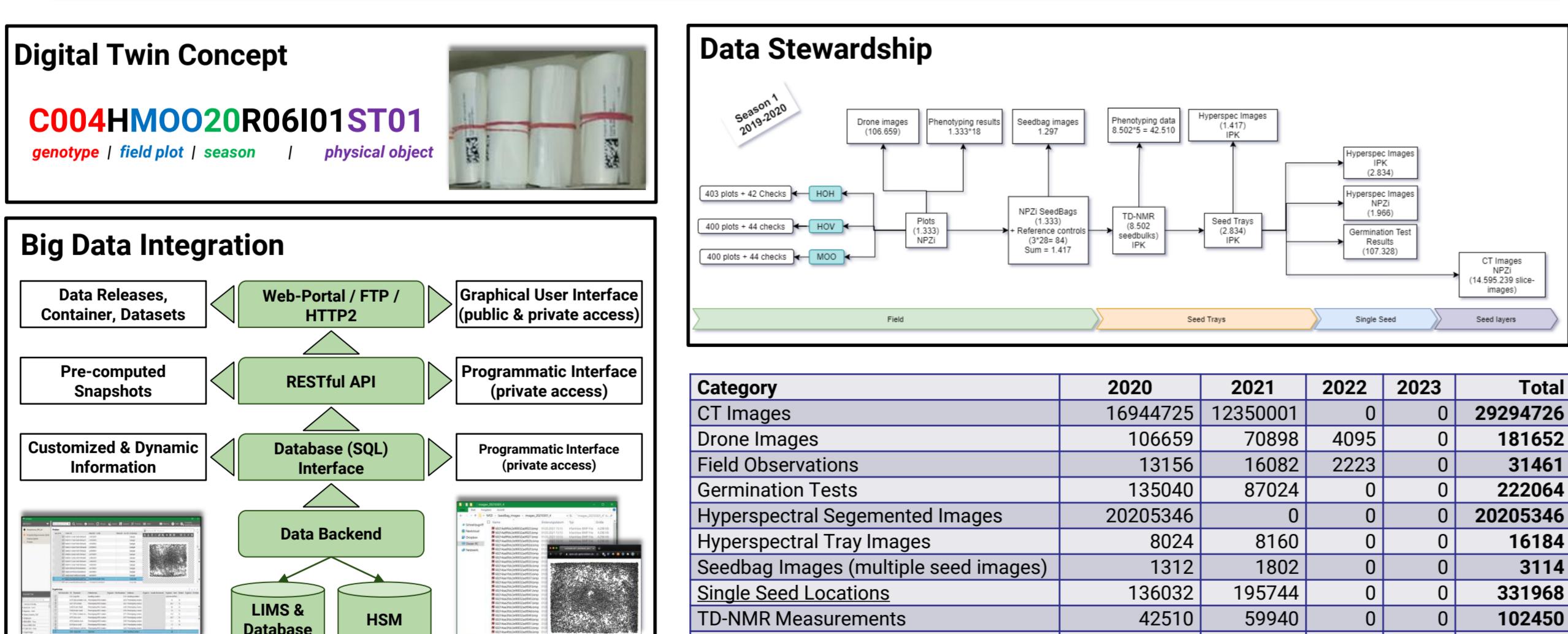
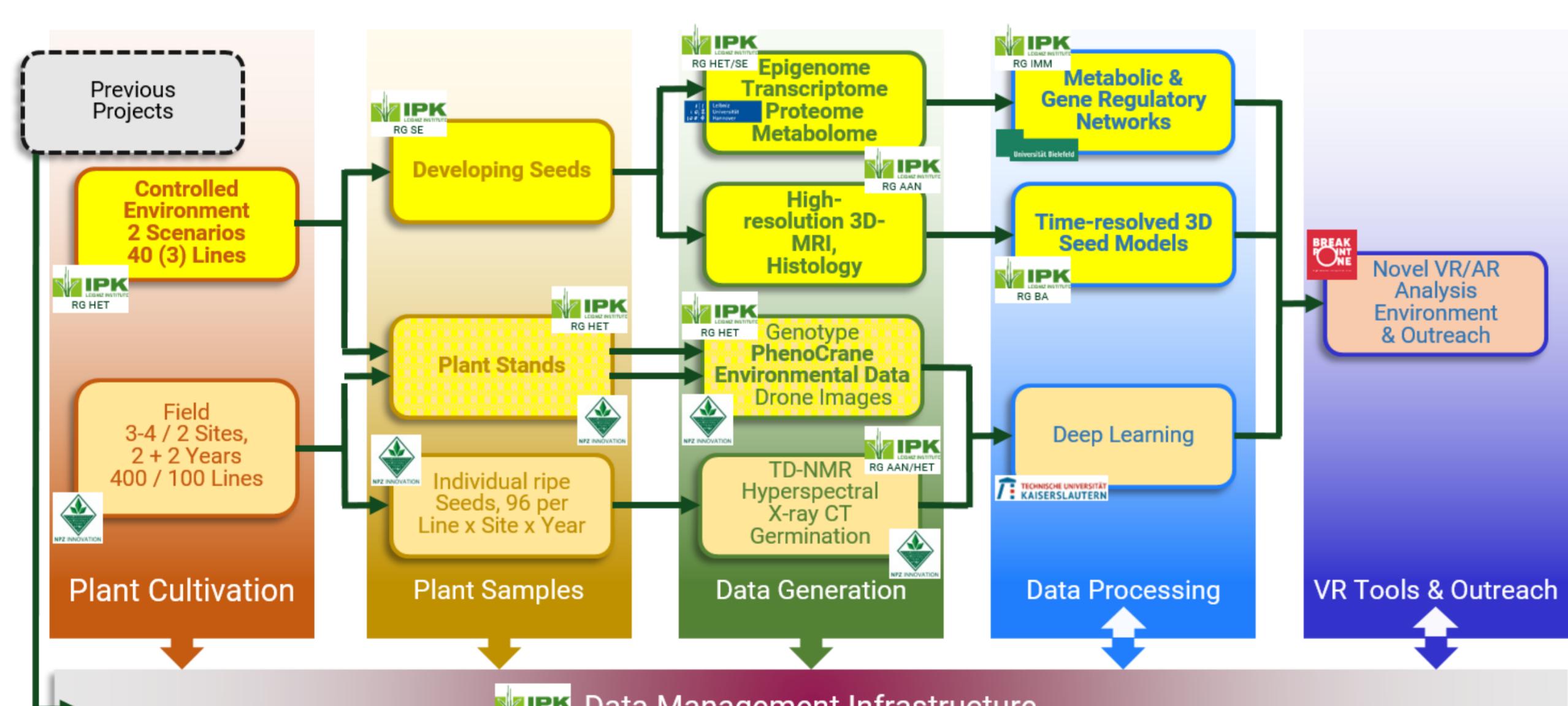


Goals

- Virtual breeding nursery
- Time resolved virtual 3D-seed model of rapeseed based on high-resolution MRI, high-throughput X-ray CT and histology
- Interactive display of organ-specific transcriptome, proteome, metabolome data, as well as epigenetic information
- Deep learning algorithms for the prediction of seed (quality) traits from ultra-HTP single seed data
- User group-specific education, training, and outreach modules.



Partners & Workflow



Quick Facts

Funding: BMBF from 01.06.2019 to 30.09.2024

Funding total: 7.2 million €, IPK: 4.4 million €

Coordination: Prof. Dr. T. Altmann (IPK, RG HET)

Website and Data Portal: www.avatars-project.de

Achievements

