Capability Type	Core Functions	Example Platforms / Technologies
Data Collection & Management	Automated sensor-based data acquisition, LIMS management, metadata standardization	TraitMill, OpenPheno
Decision Analysis Support	Multi-trait prediction, genetic gain simulation, G×E modeling and strategy recommendations	EBS, CropGPT
User Collaboration Interface	Visual dashboards, real-time logs, role-based access control, cross-institutional project collaboration	Jinzhong Cloud, PhenoApp