

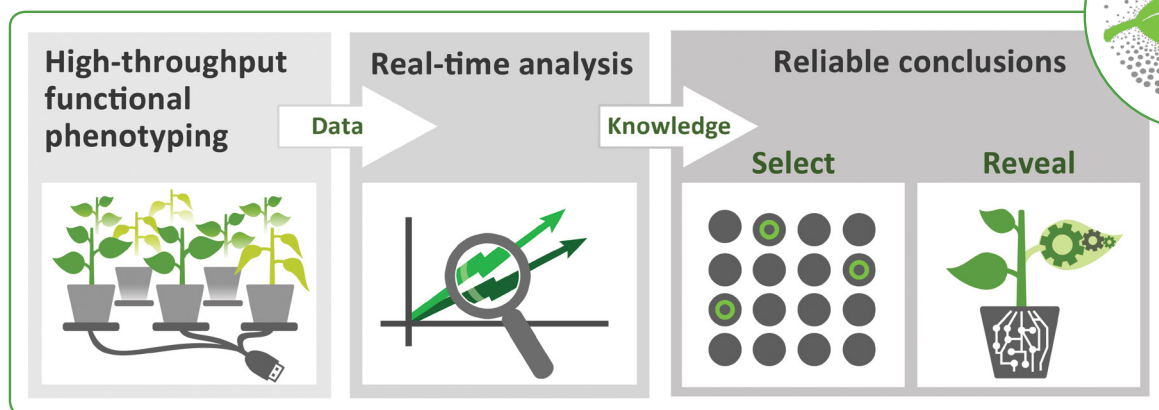


# High-Throughput Whole Plant Functional Phenotyping

## Plant-DiTech's Plantarray System

A fully automated, feedback irrigation system and multiple precise sensor platform that enables Agro Scientists, Breeders and Agro CROs to quickly and easily perform:

- Characterization of whole-plant response to various environmental conditions with functional-physiological trait measurements such as **growth rates (bio-mass)**, **root activity**, **water-use-efficiency**, **stomatal conductance**, **relative water content**...
- Automated**, repeatedly-controlled experiments with precise output
- Simultaneous performance analysis** to efficiently select the right plants or chemicals for imposed environmental conditions (e.g. draught, salinity)
- Easy operation with **less time and manpower**
- Fast **pre-field screening**
- Fits into any greenhouse



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# Select the Best Plant

## Plant-DiTech's SPAC (Soil-Plant-Atmosphere-Continuum) Analytics

Cloud-based software that performs real-time analysis, statistics and yield prediction. The SPAC-analytics process input from multiple sensors and sources to provide :

- **Advanced statistical analysis** - multi-factorial ANOVA or paired T test for reliable and quick results
- **Fast quantitative selection** - rate and score plant physiological response to different environmental needs
- **Simple graphical presentation** of complex experiments - spatial and temporal relationships between measured physiological variables and the ambient conditions
- **Real-time experimental optimization** to ensure effectiveness of the treatment when it matters



### Applicable for :



Analyzing  
Abiotic Stress



Develop Chemicals  
and Nutrient



Functional  
Breeding



Study  
Eco-Physiology



Study Roots  
and Soils



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