



## PhenoFab®

### High-throughput digital phenotyping

**“PhenoFab creates  
>300,000 images and boils  
it down to answers”**

Christiaan Biemond  
BD Digital Phenotyping, KeyGene

***In the plant breeding and crop protection industry phenotyping is one of the most crucial aspects of product development. It requires significant experiences by breeders or agronomists and even then objective and robust phenotyping in a high throughput manner is a great challenge. For this KeyGene has PhenoFab.***

PhenoFab is a greenhouse service operation that combines high-throughput, non-invasive technology with trait interpretation to exploit phenotypic variation. Since the growth conditions can be controlled for each individual plant, PhenoFab is a great tool to screen for a range of abiotic stresses, including water use efficiency, nutrient use efficiency, heat, fertilizers, seed treatments and

different soil or substrate types. Every 24 hours the plants are scanned from various angles using three camera systems resulting in high quality, reproducible data. The over 300,000 images and analysis are made easily accessible with visualization tool PhenoReport. They are fully exploited via in-house developed algorithms to create a full range of digital phenotypes and to link, if needed, the results with the genetic profile of the plants.

Customers across the world have valued KeyGene’s ability to test genotypes and treatments creating more insight in their product. That makes PhenoFab a superior screening service for breeding and crop protection industry.

Can we support your phenotyping?

#### **For more information, please contact:**

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**The crop innovation company**

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