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PHENOTYPING AND IMAGE ANALYSIS AT NAKTUINBOUW*Document prepared by an expert from the Netherlands (Kingdom of)**Disclaimer: this document does not represent UPOV policies or guidance*

As Naktuinbouw continues to work on its data science projects, we are making efforts in transitioning from manual measurements to digital tools. In this talk, we will explore our ongoing phenotyping activities, with a special focus on the unique complexities of ornamental crops. Ornamentals present immense morphological diversity, making standardized trait capture difficult. We will discuss the current bottlenecks in this work and future perspectives. We will also provide an update on our progress with the development of a high-throughput phenotyping (HTP) platform designed to automatically and precisely capture traits from leaves and other crop components. Finally, we will provide a technical update on our methodologies, highlighting the use of conventional computer vision or AI wherever appropriate.

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