

# GROWING SEEDLINGS FOR CURRENT AND FUTURE PLANTING TECHNOLOGIES



23-05-2022 ELLEPOT A/S

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ELLEPOT A/S



**ELLEPOT<sup>®</sup>**  
SOUTH AFRICA



# WORLD MAP OF ELLEPOT

CUSTOMERS IN MORE THAN 120 COUNTRIES



WORKING GLOBAL – ACTING LOCAL



MORE THAN 20 ELLEPOT PRODUCTION CENTRES



SALES OFFICES IN CHINA & BRAZIL



16 SALES & DISTRIBUTIONS PARTNERS



120 COUNTRIES

# ONE INTEGRATED PROPAGATION SYSTEM

## WHAT IS ELLEPOT



**ELLEPOT  
MACHINES**



**ELLEPOT  
PAPER**



**ELLEPOT  
TRAYS**



**ELLEPOT  
SERVICE**



# KEY QUESTIONS?

What are the key challenges with current planting system?

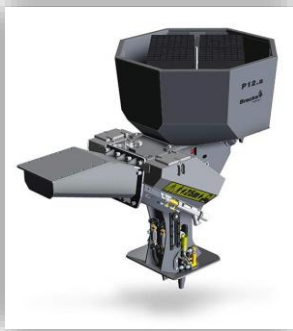
1. Plant supply to the compartment/machine
2. Extracting plants from the trays – time consuming or difficult to automate
3. Root damage (due to extraction and when planted)
4. Quality of establishment (Transplant shock, mortalities, windthrow)



# KEY QUESTIONS?

What plant specifications does effective mechanised planting require?

- Root quality & integrity
- Uniform plant height & branching (form)
- Uniform RCD/Sturdiness
- Good plant health





# KEY QUESTIONS?

## Target Plant Concept

The TPC means to target specific physiological and morphological seedling characteristics that can be quantitatively linked with reforestation success"

(Rose and others 1990 / Landis 2009).



# WHAT TRAITS?

## PHYSIOLOGICAL TRAITS

## MORPHOLOGICAL TRAITS

- Plant health (Leaf & Root)
- Nutritional Status



- Shoot Height

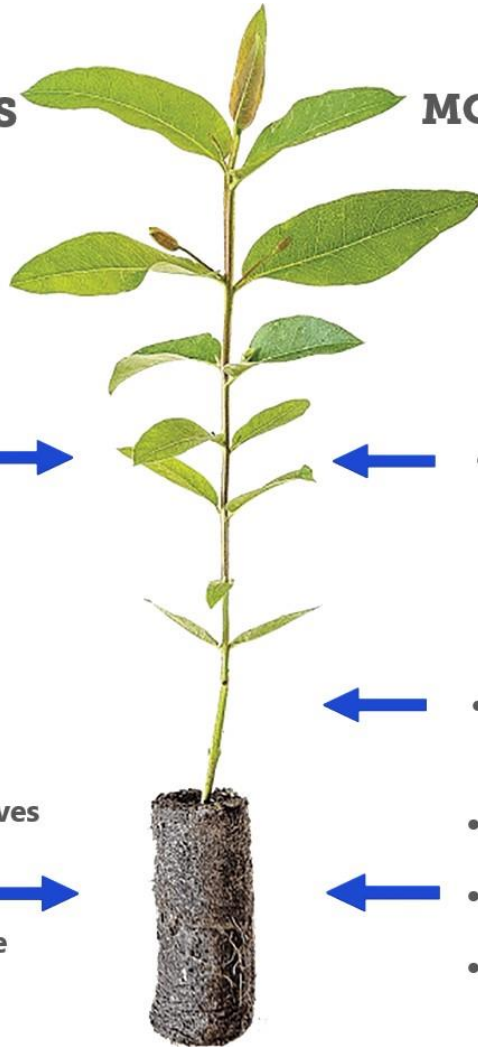
- Accumulation of Plant reserves (assimilates)
- Hardiness – drought tolerance



- RCD – Sturdiness Ratio



- Root Mass
- Root Growth Potential
- Root architecture



# HOW DO NURSERIES ACHIEVE THIS?

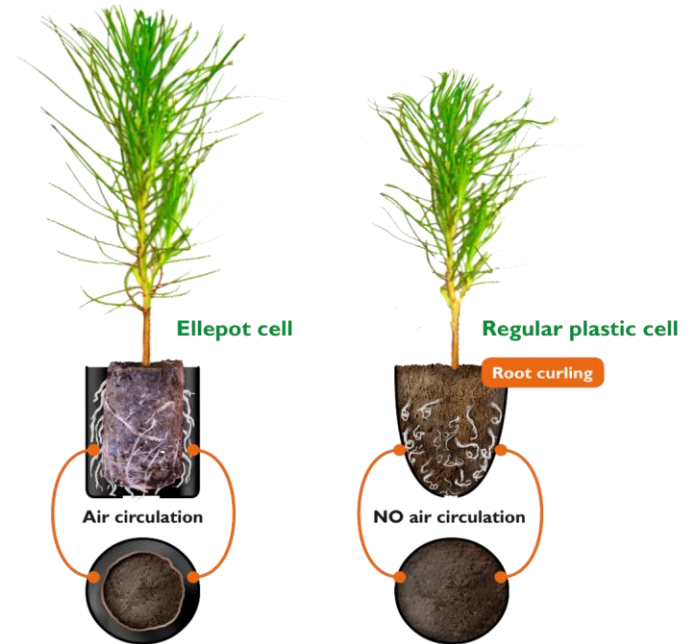
- Ellepot propagation system
- Best Nursery Practices
- On time production
- Sorting operations
- Plant Quality Index (Traits)
- Plantcare (transport & holding)





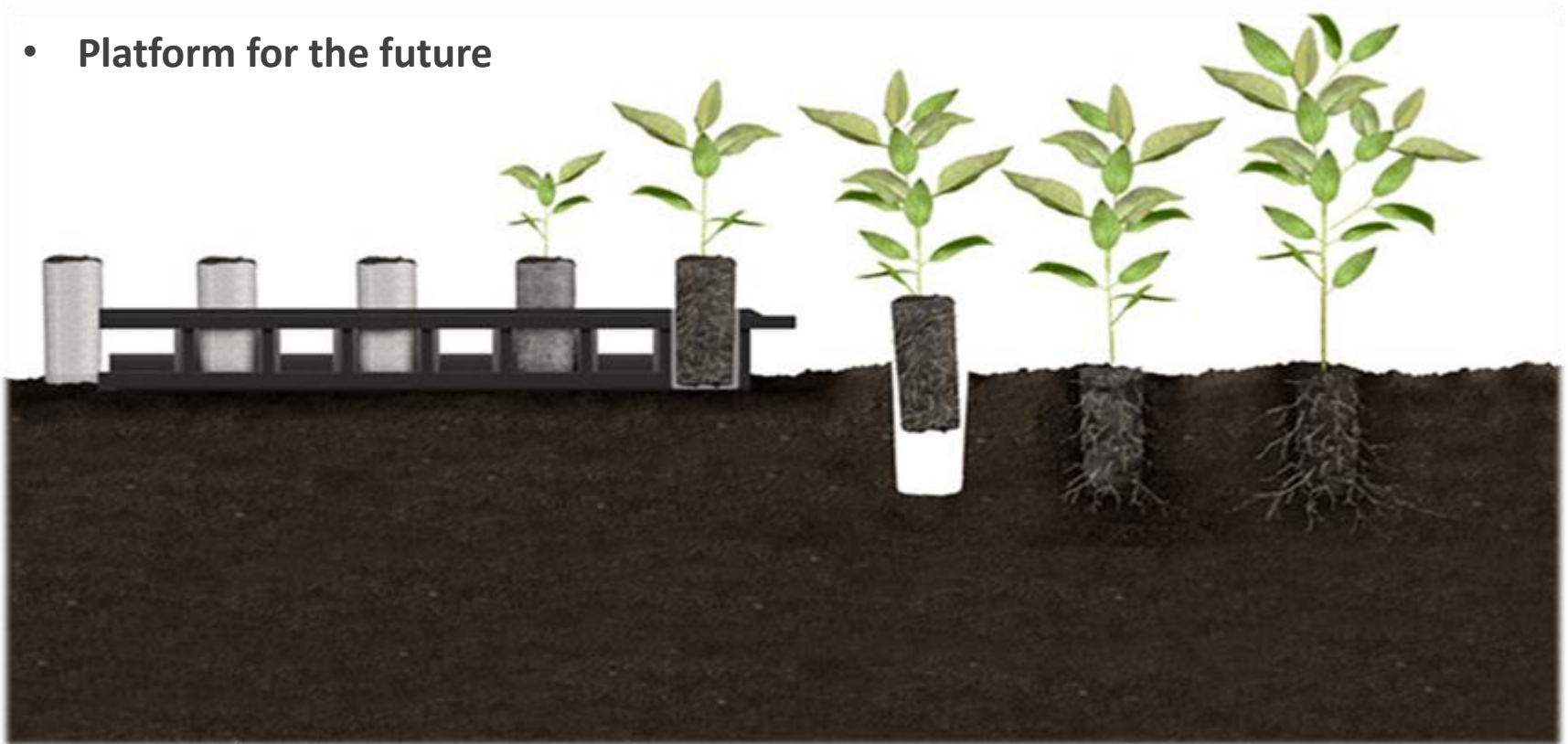
# WHAT ARE ELLEPOTS?

- Air pruning
- Stabilised substrate
- Density
- Water Holding Capacity



# WHY ARE PAPER POTS BETTER?

- Efficiency gains
- Survival & biomass gains (climate risk)
- Platform for the future



# THANK YOU

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