

# GreenTech

## GLOBAL / AMSTERDAM

IMPACT by T&U through SYNERGY for a  
FOOD SECURE, CIRCULAR, CLIMATE NEUTRAL,  
SUSTAINABLE & LOCAL Horticulture



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**A FOOD SECURE AND  
CIRCULAR HORTICULTURE**

2

**A CLIMATE NEUTRAL  
HORTICULTURE**

**11-13 JUNI 2024**

3

**FUTURE VISION SESSIONS**

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**TASTY & HEALTHY  
HORTICULTURE**



**TOPSECTOR**  
TUINBOUW • UITGANGSMATERIALEN





# Climate neutral horticulture 2040

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The output at the consumer level is the result of all previous steps

# Climate neutral horticulture 2040

## What to breed for?

- Disease resistance
- Higher output with less (or similar) input
- Resilience to new/varying conditions

## How to achieve this?

- Modelling for efficient breeding and to predict future needs
- Novel breeding technologies
- Integration of knowledge, business and regulatory

Genetics  
Seeds



# Climate neutral horticulture 2040

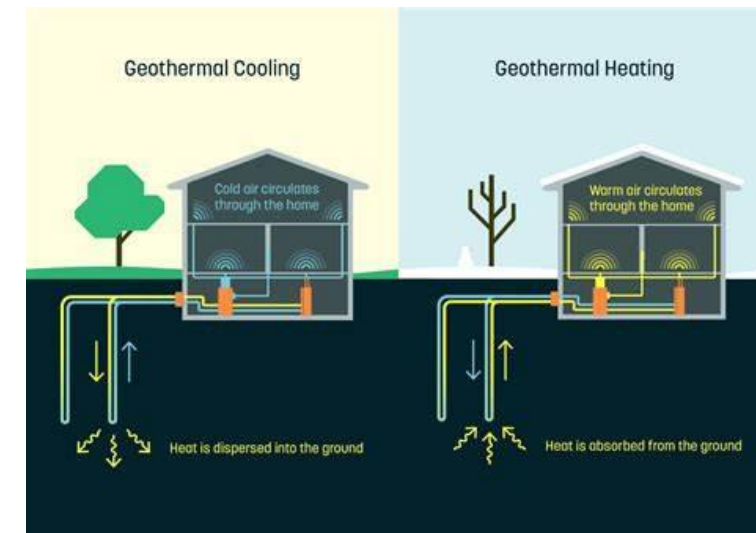
Growing environment

## What?

- Alternative growing systems in the field: Organic/strip cropping etc.
- Climate neutral greenhouses: e.g. the RE-greenhouse project
- (Bio)stimulants: e.g. Lower growth temperature with same yield

## How?

- Experiment and keep the relevant aspects
- Data access and modelling to optimize the system
- Consistent planning and regulatory framework

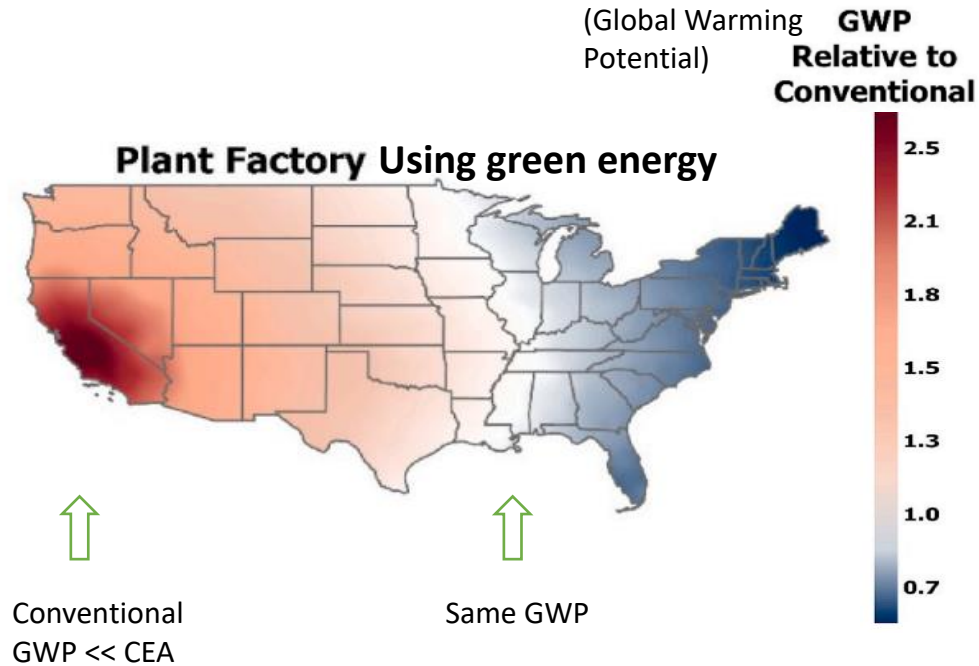


# Climate neutral horticulture 2040



## What?

- Transport



- Waste



## How?

- Modelling to optimize the system
- Integration of knowledge, business and regulatory

# Climate neutral horticulture 2040



## Conclusions:

- The solution is complex
- Every-one needs to take their responsibility
- Every situation is unique
- We're all in this together: collaboration is a must
- The law/consumers require us to act

# Climate neutral horticulture 2040



Consider a systems approach where we use mathematical (A.I.) models to predict what components to optimize for best results in each specific situation

Essential are:

- Access to data to continuously improve the models
- Collaboration within the sector, with suppliers and with (local) authorities
- Consistent planning of the public space and utilities; and consistent legislation
- Examine everything and keep the good

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