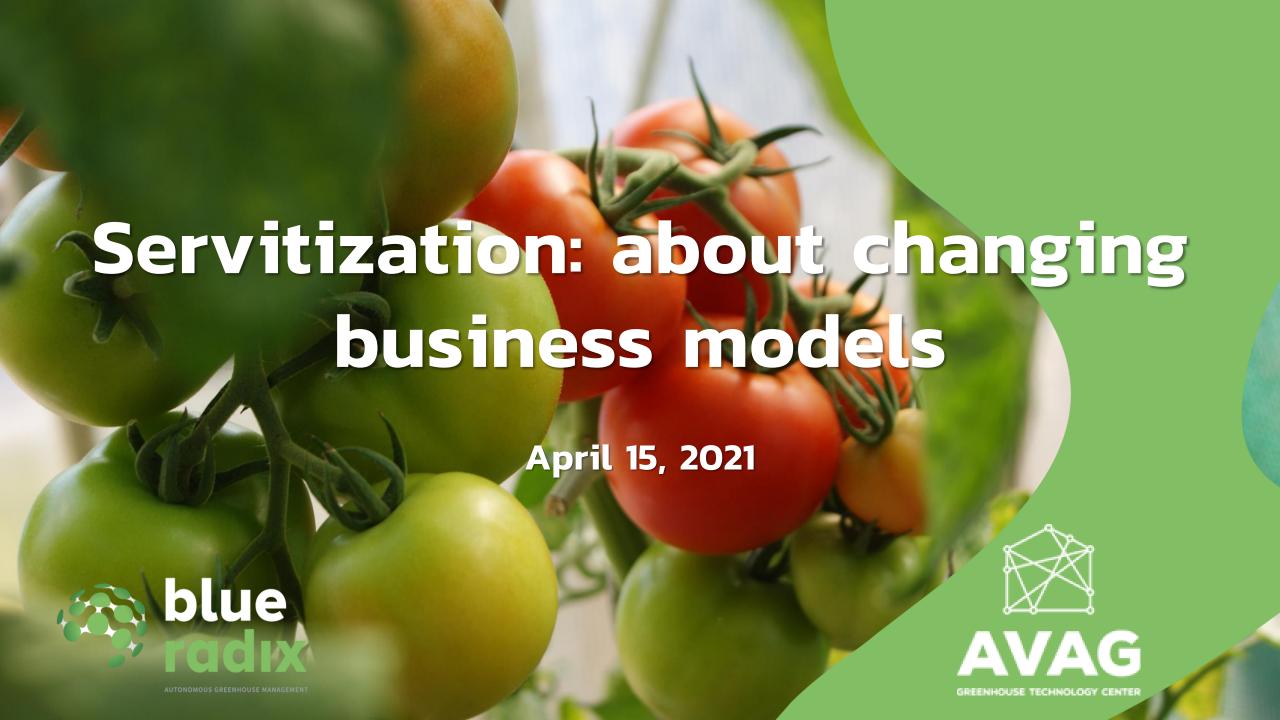


**AUTONOMOUS GREENHOUSE MANAGEMENT** 



# Nice to meet you!



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## Agenda

- History: the road from commodity to services
- Blue Radix

- Autonomous greenhouse management
- Service elements in our approach
- Lessons learned from our route



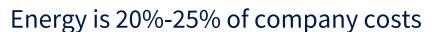
Kosten WKK (Warm)







agroenergy





#### Uw energiezaken altijd binnen handbereik

De EnergyManager is een beveiligde omgeving waarin u al uw energiezaken online beheert. Uw persoonlijke pagina's zijn 24 uur per dag, 7 dagen per week bereikbaar.

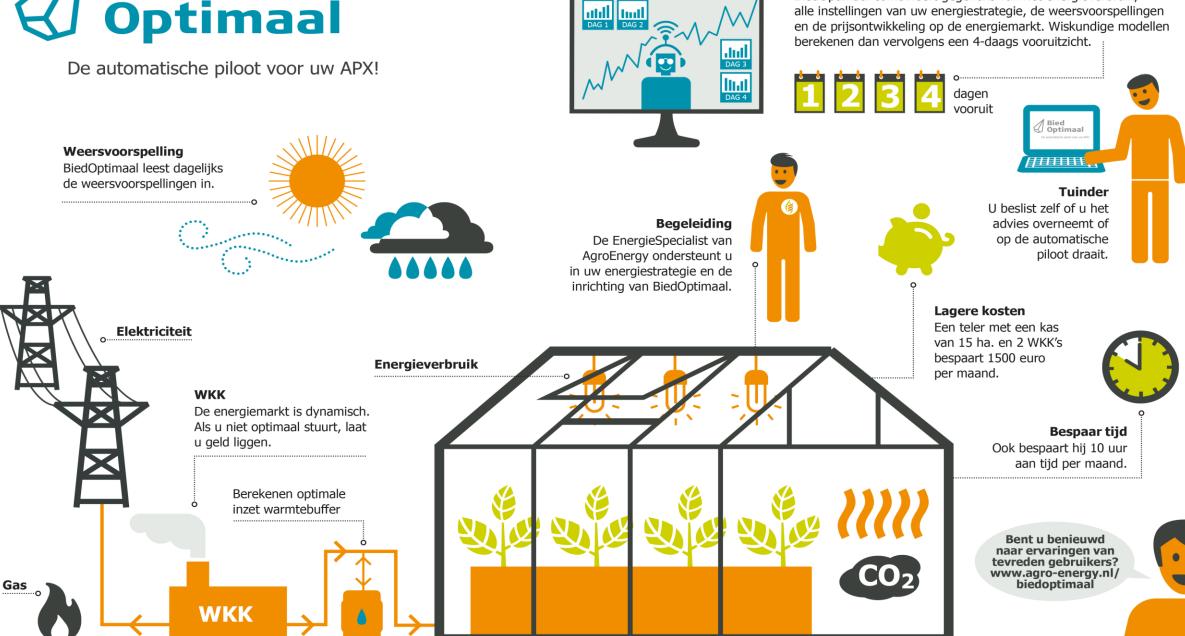




Een overzicht van uw financiële resultaten

Artuele markt- en trendinformatie





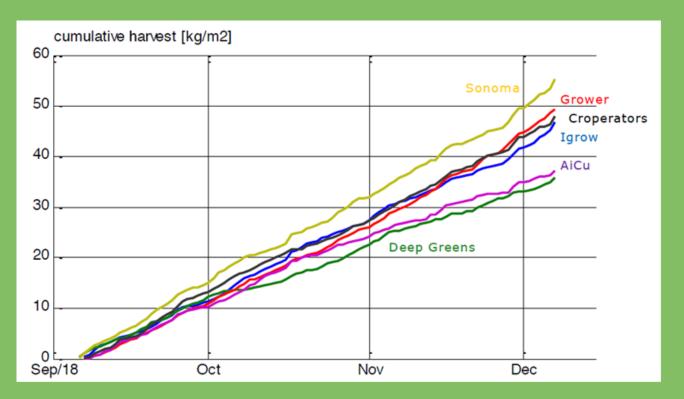
Voorspellen met big data

BiedOptimaal combineert gegevens van het energieverbruik,









#### Strong competition by tech-giants



#### **Challenge results The Croperators**

Challenge result: 3rd overall place of 14 international teams. 2nd place for Al approach, beating the overall winner Microsoft (Sonoma).

Jury report: "A very strong approach, solid use of AI, only team that is **ready to test in production greenhouses**."

#### Media coverage in 15+ horticulture media, Dutch and international media



Weblog

over floranews.



kas met komkommers op afstand aanstuurt, zodat deze de hoogste onbrengst heeft, met de laagste energiekosten. De Nederlanders gooiden

Intel! De opdracht: ontwikkel

een oplossing waarmee je een



### **Introduction Blue Radix**





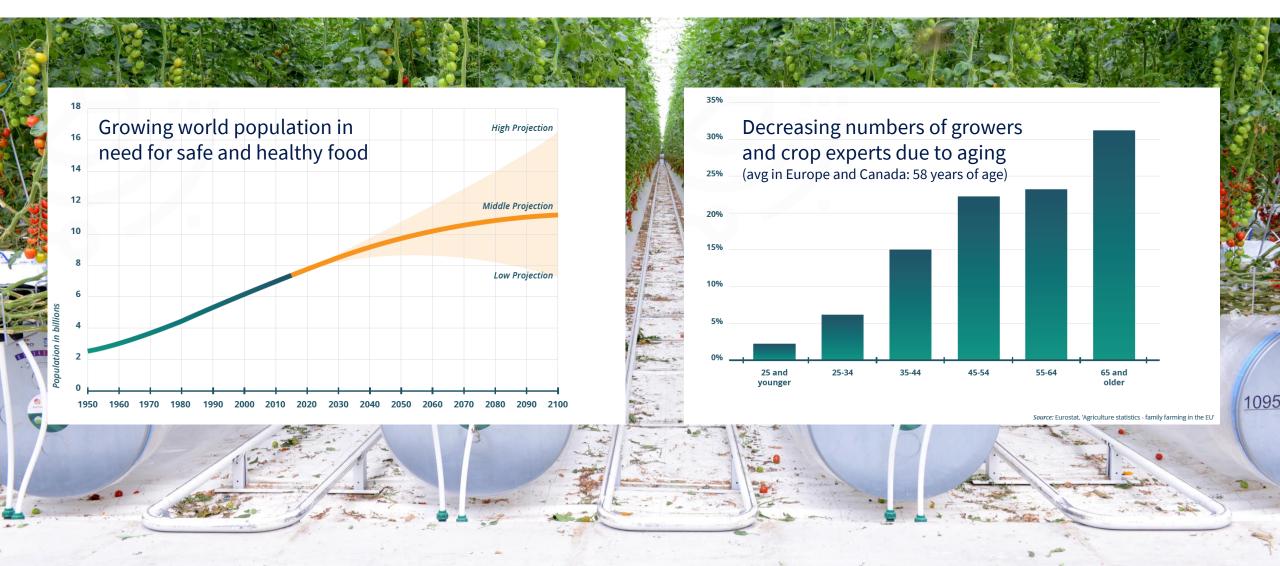




- Blue Radix is an independent AI-tech specialist with green thumbs, fully focused on the greenhouse industry
- Specialized front runner in autonomous greenhouse management
- > 7 years experience in applied AI for autonomous energy management: controlling 300 CHP's at 130+ greenhouses
- 16 employees with expertise on AI, IT, Cultivation and Energy.

# Greenhouse sector is growing strongly, but...

...Who will operate these greenhouses to feed 8.5 billion people in 2030?



## **Our mission**

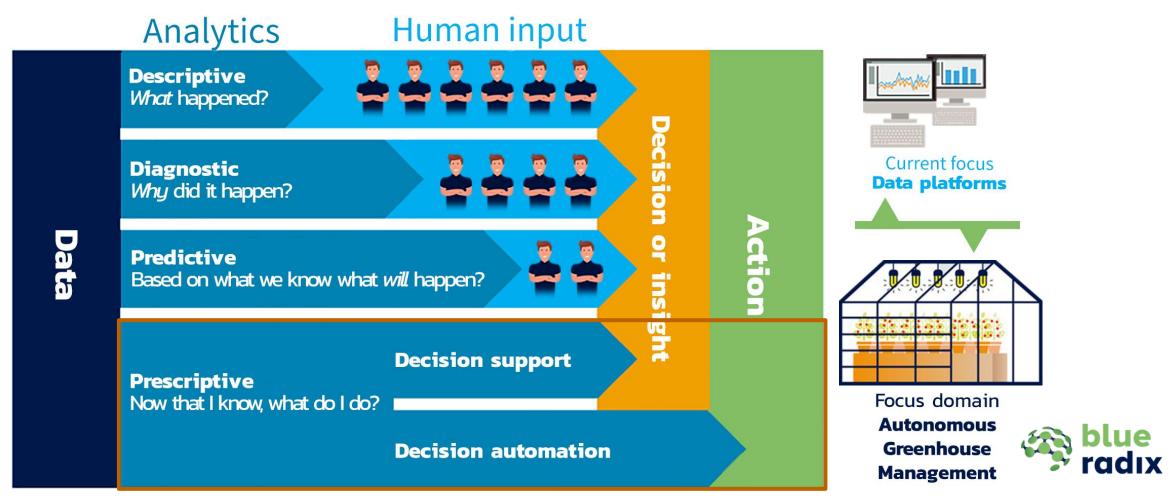
We add **automated intelligence** to the **daily decisions** in the greenhouse. To enable growers to meet their daily challenge: Produce more food and flowers with less resources.

Our solutions **integrate deeply** in the ecosystem of greenhouses to cooperate seamlessly with humans and existing systems. **Supported by highly skilled operators**, trusted by growers worldwide.



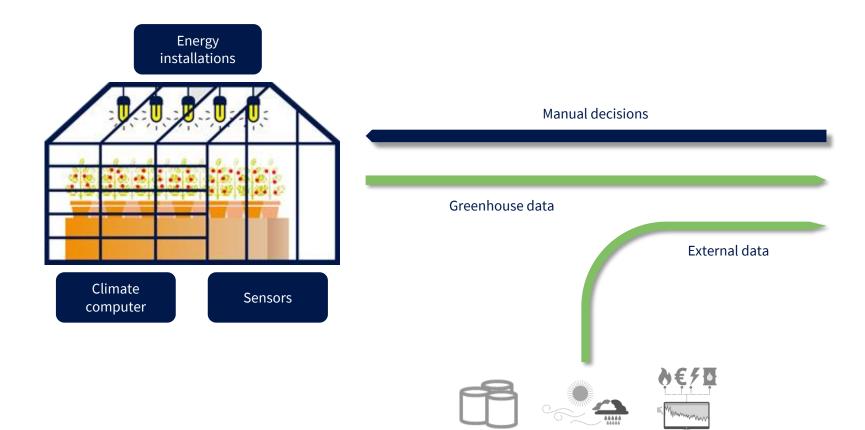
## Minimizing human interference in daily operations

Blue Radix focusses on applied data science for action in greenhouse operations



## **Current situation**

### **Human decision & control for greenhouses**



Historic data

Weather data

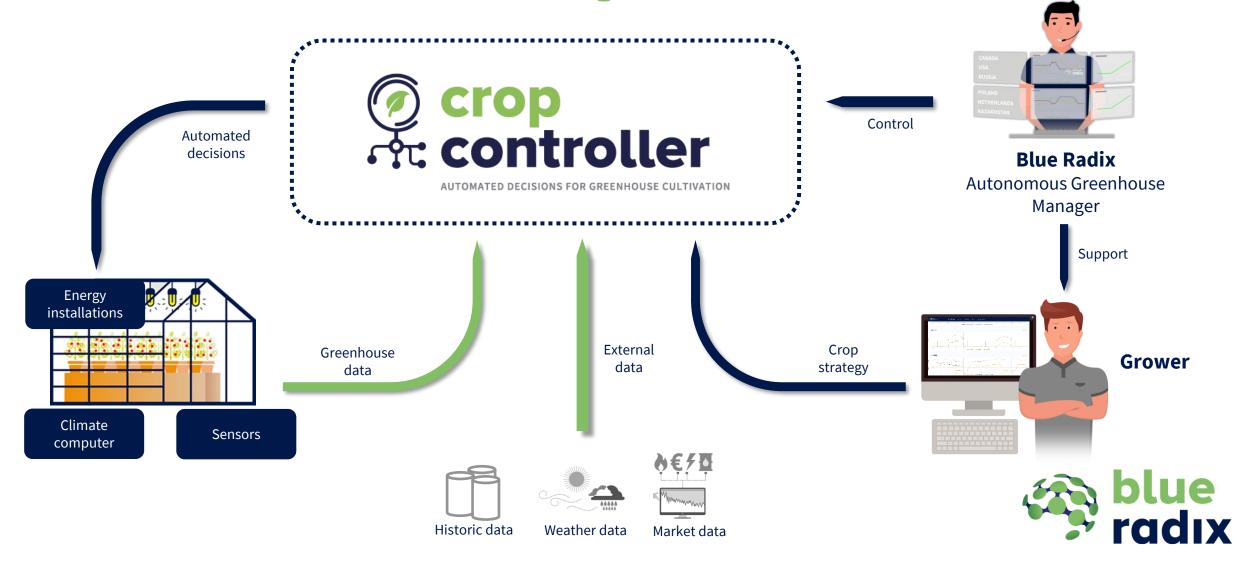
Market data





# With Crop Controller

**Automated decisions & control for greenhouses** 



## The service approach is the success factor!

### **Pricing**

We work with a **subscription model** with a value-based fee per month

No additional hardware or upfront investments are needed.

Updates are always included and part of the deal

### **Flexibility**

Customers want to select what's **best for them** and want to be **independent** of a service provider: growers can cancel at anytime.

We are **open to connect** with all data platforms to make our customer's life easier.

### **Support**

It's not only software: **extensive support** by a Crop

Advisor and our Autonomous

Greenhouse Manager.

We must perform continuously, so **customer excellence** is at the core of our daily work



### **Changing business models**

From commodity supply To autonomous energy management To autonomous greenhouse management

### Some learnings from our route

- Change your business pro-actively
- Defined a vision on services as a business model and be willing to invest significantly
- Built a separate team with focus and dedication
- Attract and involve the right skill-set and experience. Often others than the usual suspects in the organization.



### Follow us:



