



# Innoveren: zo zijn onze manieren

Dirk Deichmann & Gabriël van der Kruijk

**Some insights from our research and practical experience on:**

**Failure (rejection)**  
**Success (adoption)**

## Idea failure vs success

Do you continue after an earlier failure or success?



## Idea failure vs success

Do you learn more from a failure or success?



# Data from an idea management program

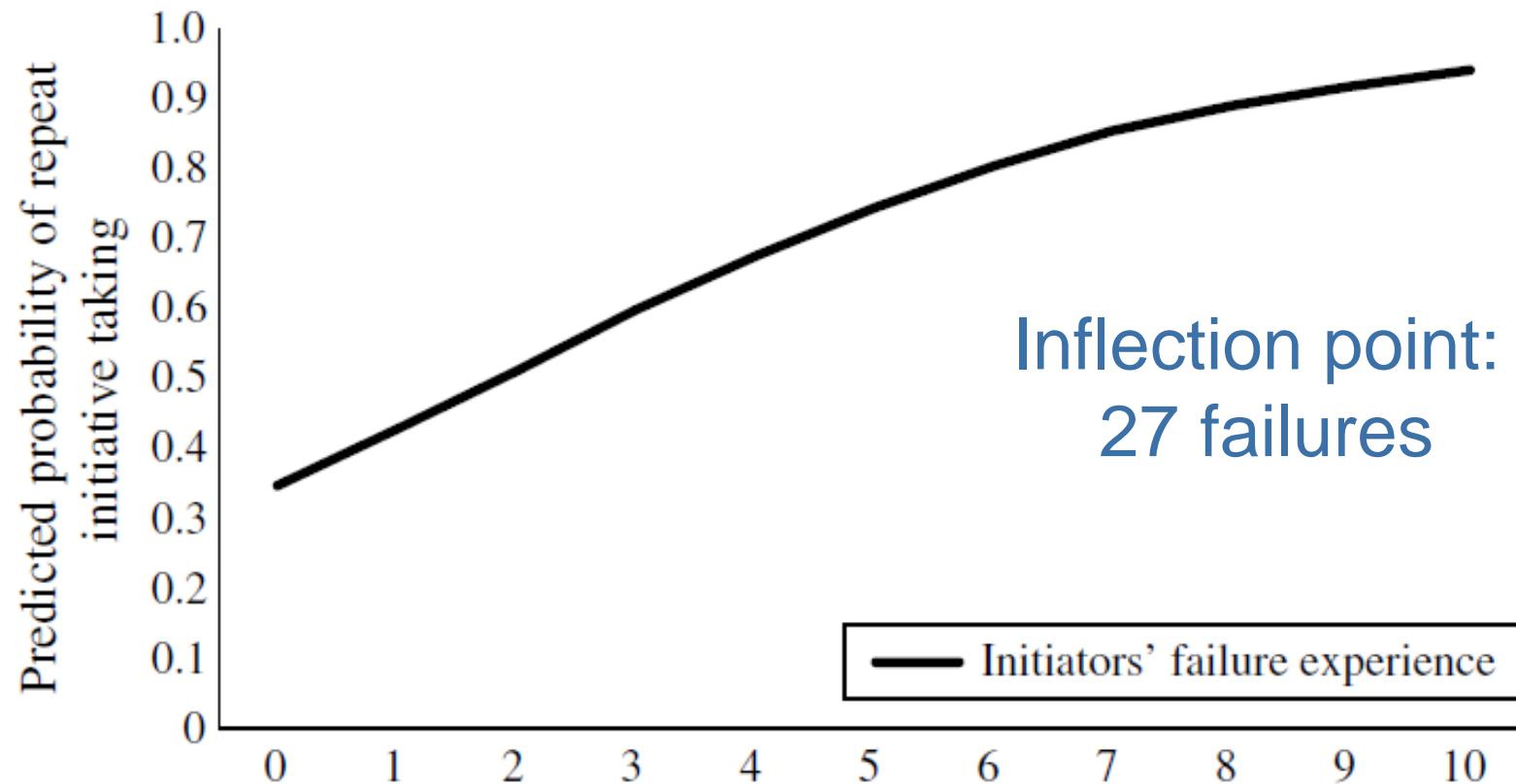
Studying a 12-year archival record of 2,352 ideas



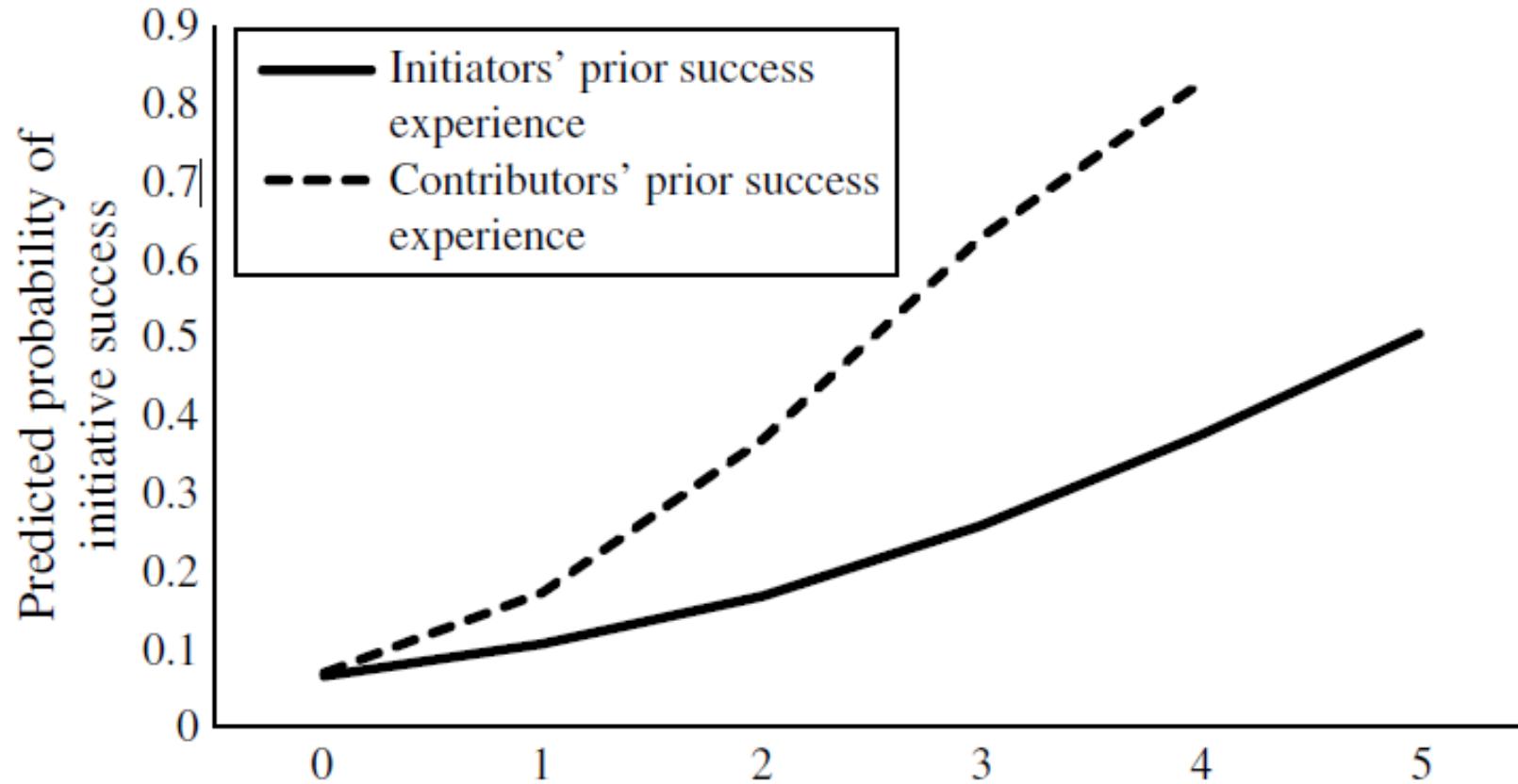
How many people do you think generated only one idea?

**48%**

## Failure can motivate to come back with more...



## ...but success breeds success



## Take aways

- Follow a structured process such as design thinking
- Importance of a “safe” environment where failures have no negative repercussions
- Work in a team and build a community, not a contest
- Try to enjoy the process, not (only) the outcome

# Koppert's visie op Digitaal

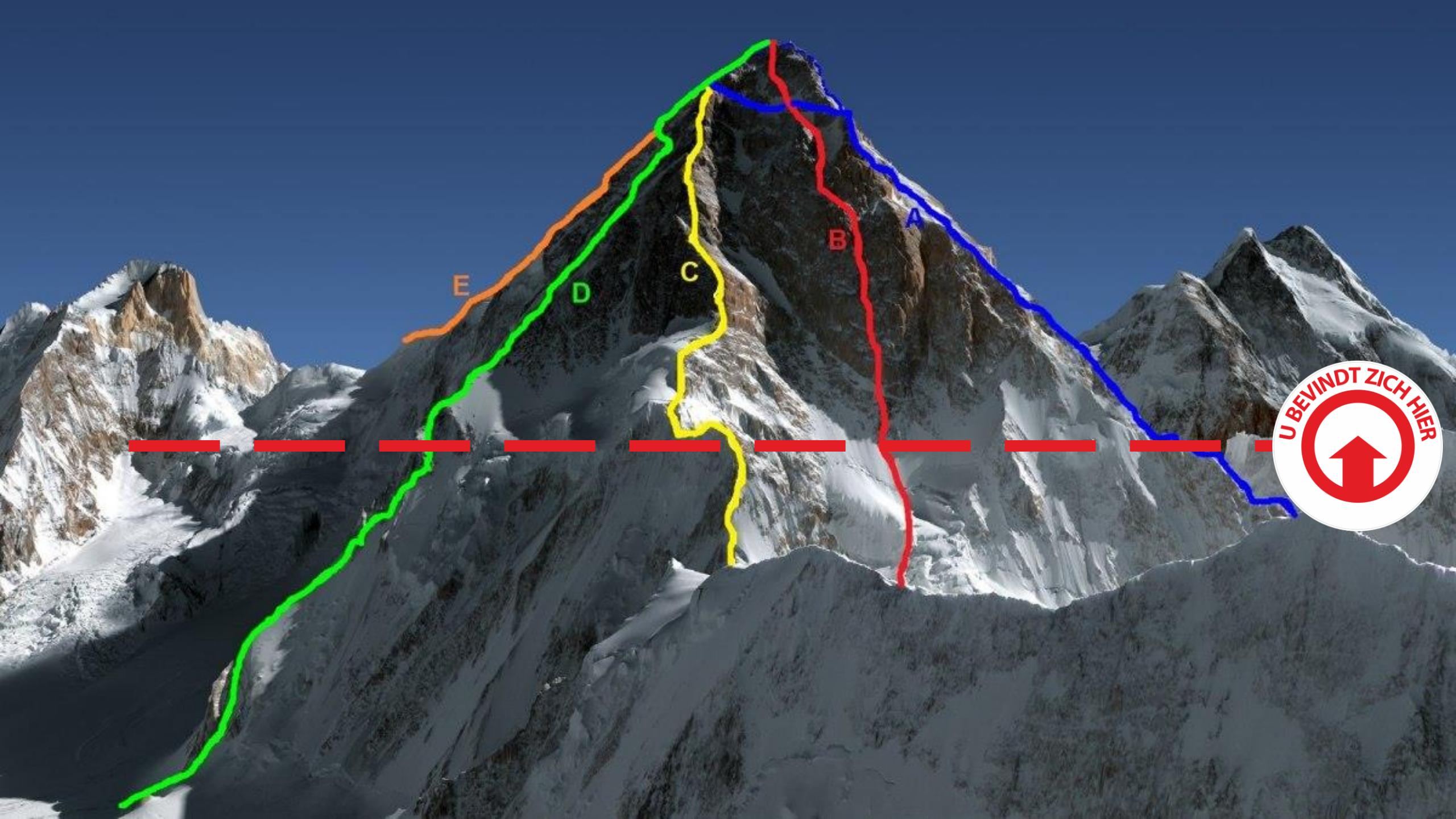


Koppert

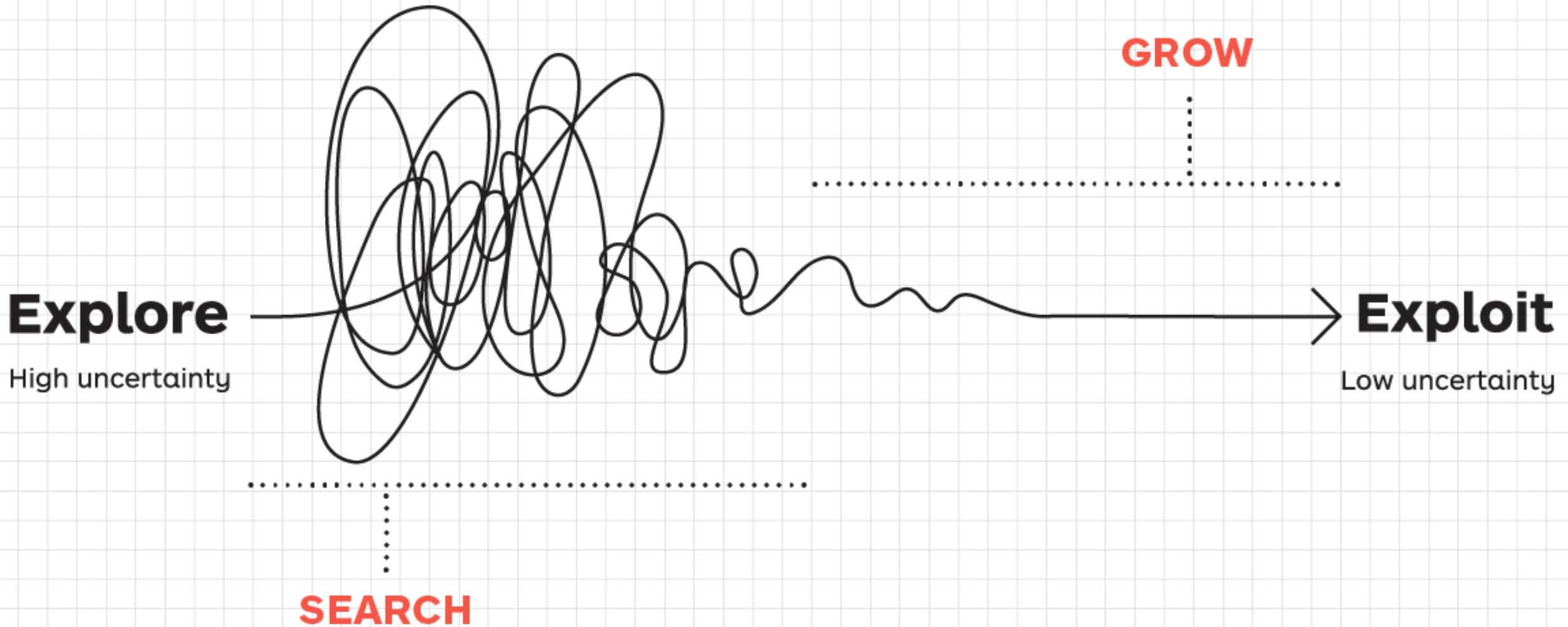
**“Our products are alive; our supporting products contribute to our core.”**

# Ambitie

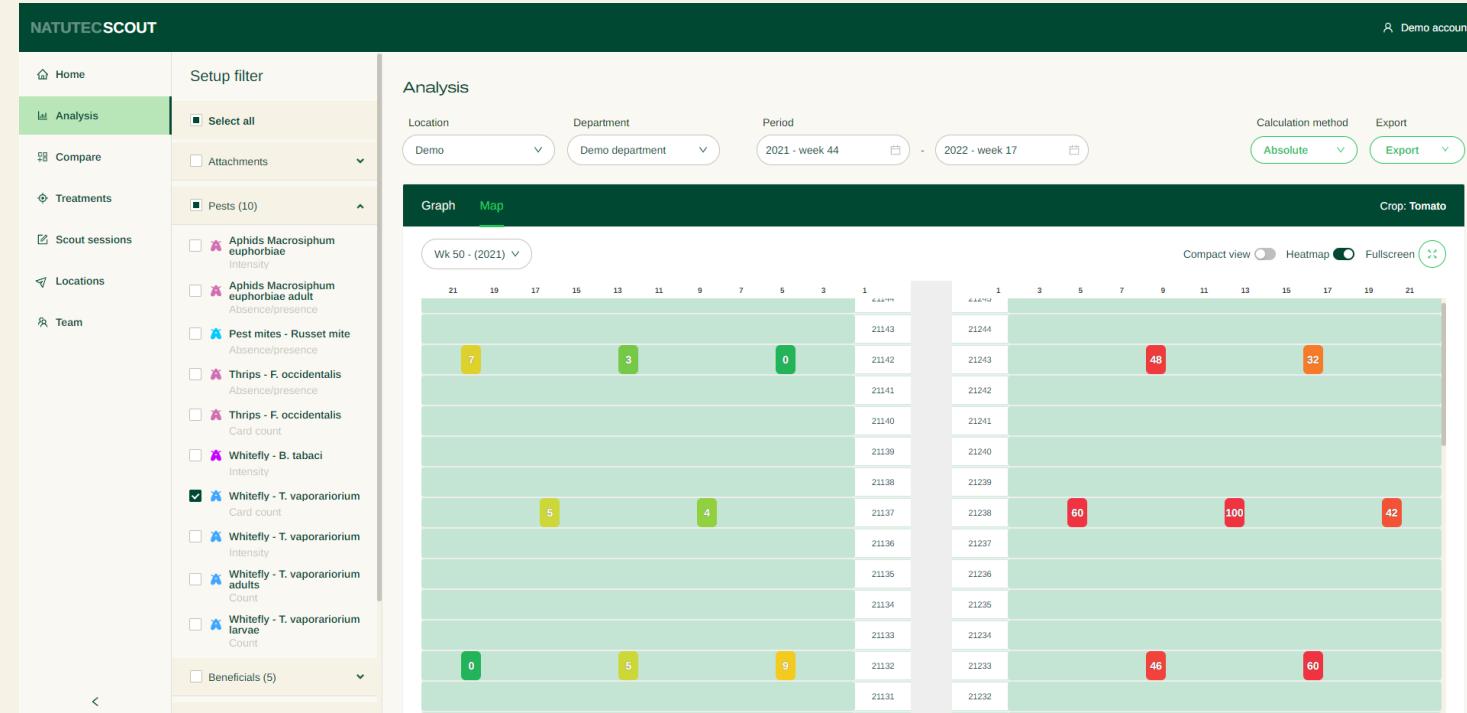




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# Natutec Scout



# Plan

# Startpunt



# Digitalisering

## Digitaal verwerkbaar maken



Plaag	Druk	Advies
Spint	1/5	6x Spidend
Luis	0/5	1 Aphiscout per 1.000m <sup>3</sup>
Trips	2/5	1x Thripex per 250m goot
Witte vlieg	1/5	Geen inzet

# Digitalisatie

Slimmer doen

Digitaal

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Dashboard



Webshop bestelling



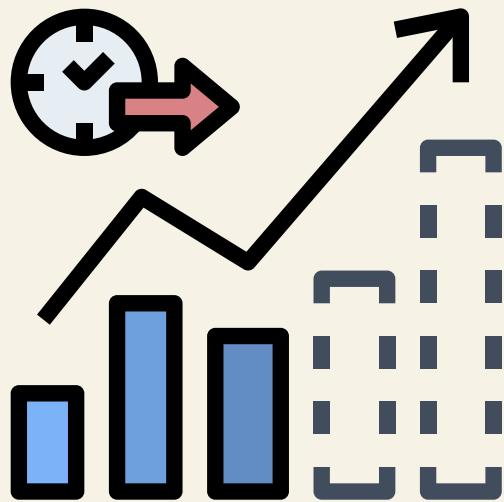
Trendanalyse



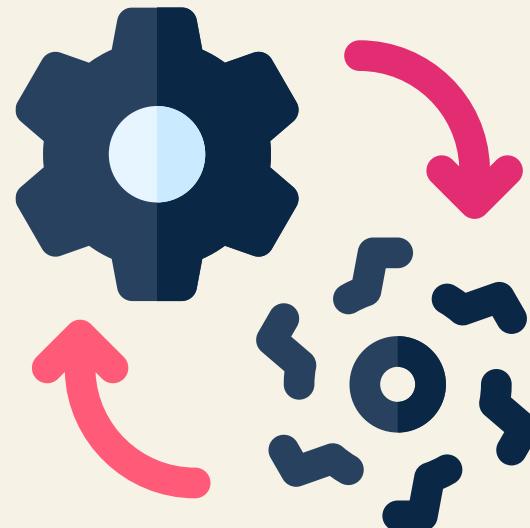
# Digitale Transformatie

Anders doen

Voorspellen



Simuleren (Digital Twin)



En?



# Plan & hoop

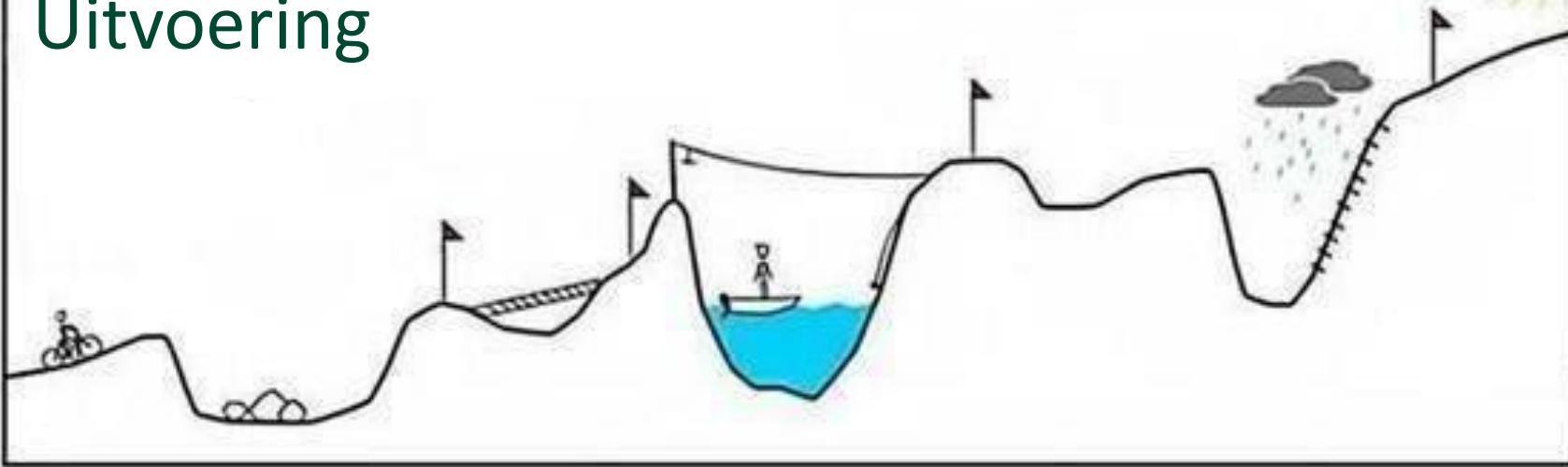


Bezoekrapport		
Plaag	Druk	Advies
Spint	1/5	6x Spidend
0/5	1 Aphiscout per 1.000m <sup>3</sup>	
Trips	2/5	1x Thripex per 250m goot
Witte vlieg	1/5	Geen inzet

A red arrow points to the 'Trips' row in the table.

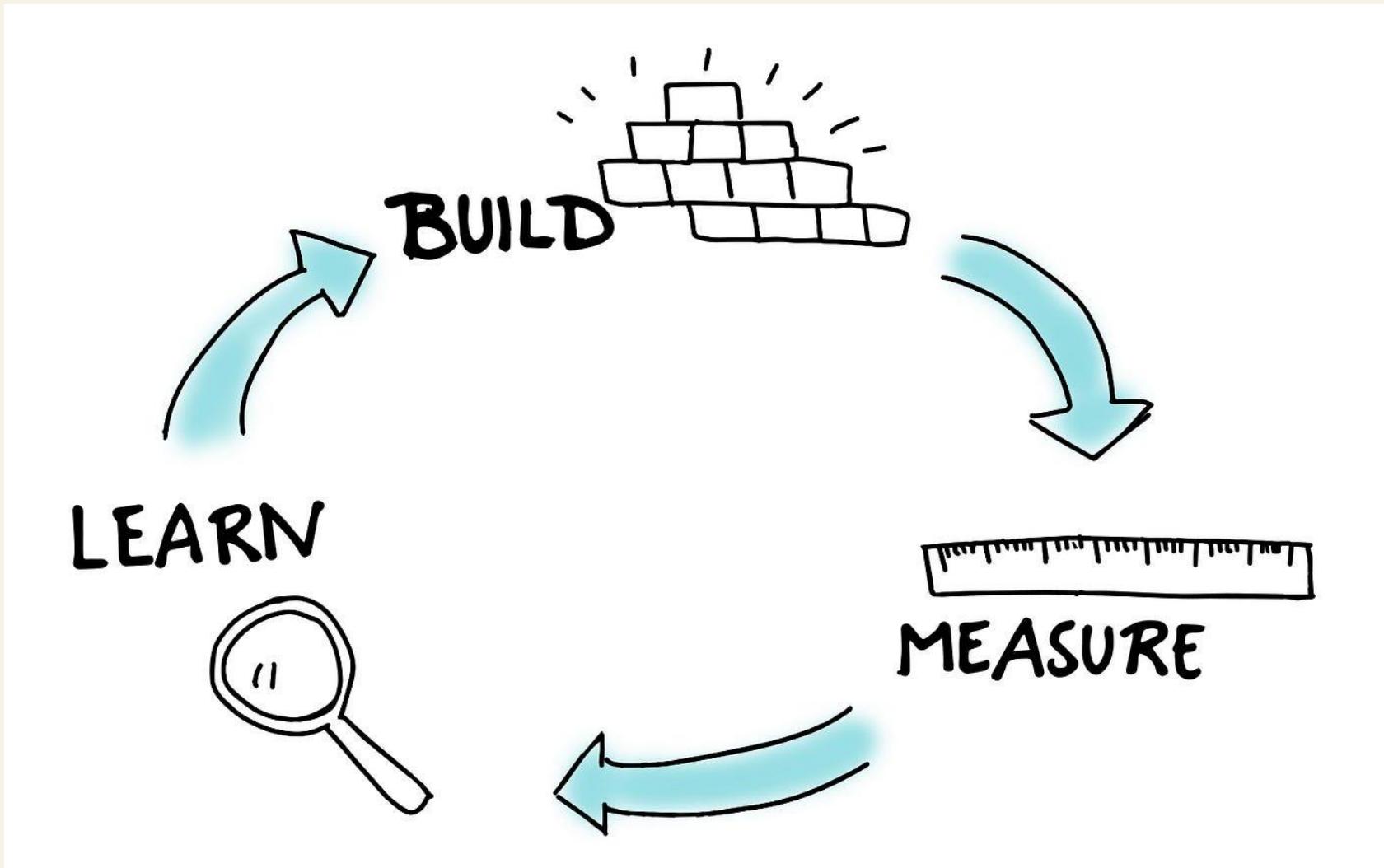
A black and white checkered racing flag.

# Uitvoering



# Reis

# Build, Measure & Learn



# Ons experiment

Kort - binair



Lisa Broekhuizen  
lbroekhuizen@koppert.nl  
+31 6 321789317  
8 juni 2022

Piet Pan  
ppan@koppert.nl  
+31 6 321789317  
Tomaten



## Action points

- Deploy Spidex in rows 12-18
- If Whitefly gets above 25/card on fresh cards, increase Swirskii to 10/m<sup>2</sup>
- Orders for the next 4 weeks have been placed according to year planning



Medium - Stoplicht



Lisa Broekhuizen  
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8 juni 2022

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## Pests

### Greenhouse whitefly



Whitefly pressure has decreased to 8/sticky card average after sprays last week. Advice now is to keep releasing macrolophus to maintain a healthy population to make sure to keep the WF under control.

#### Advice

Go to 8/m<sup>2</sup> for Mirical instead of the regular 5/m<sup>2</sup>.

Critical

	15	16	17	18	19	20	21	22	23	24	Week
	8	10	10	11	13	17	23	56	89	8	Count
Whitefly	8	10	10	11	13	17	23	56	89	8	Count
Spidex	8	10	10	11	13	17	23	56	89	8	Count
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Lang - Data



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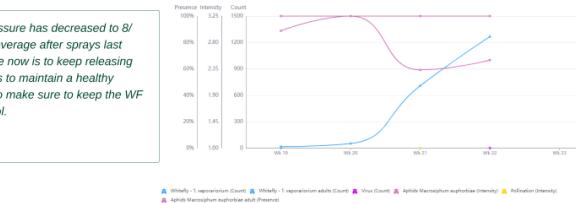


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## Greenhouse whitefly





# Resultaat

Kort - binair

Lisa Broekhuizen  
lbroekhuizen@koppert.nl  
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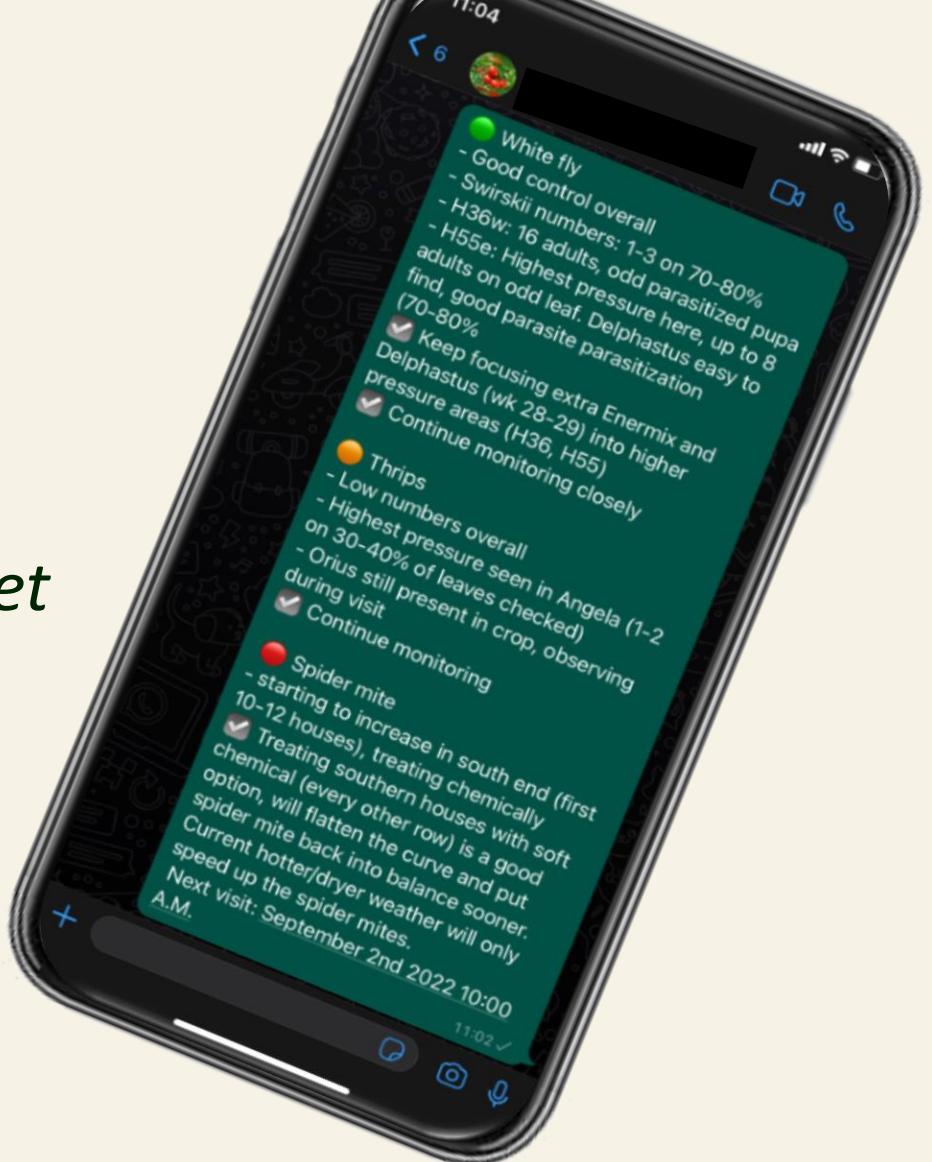


Under control

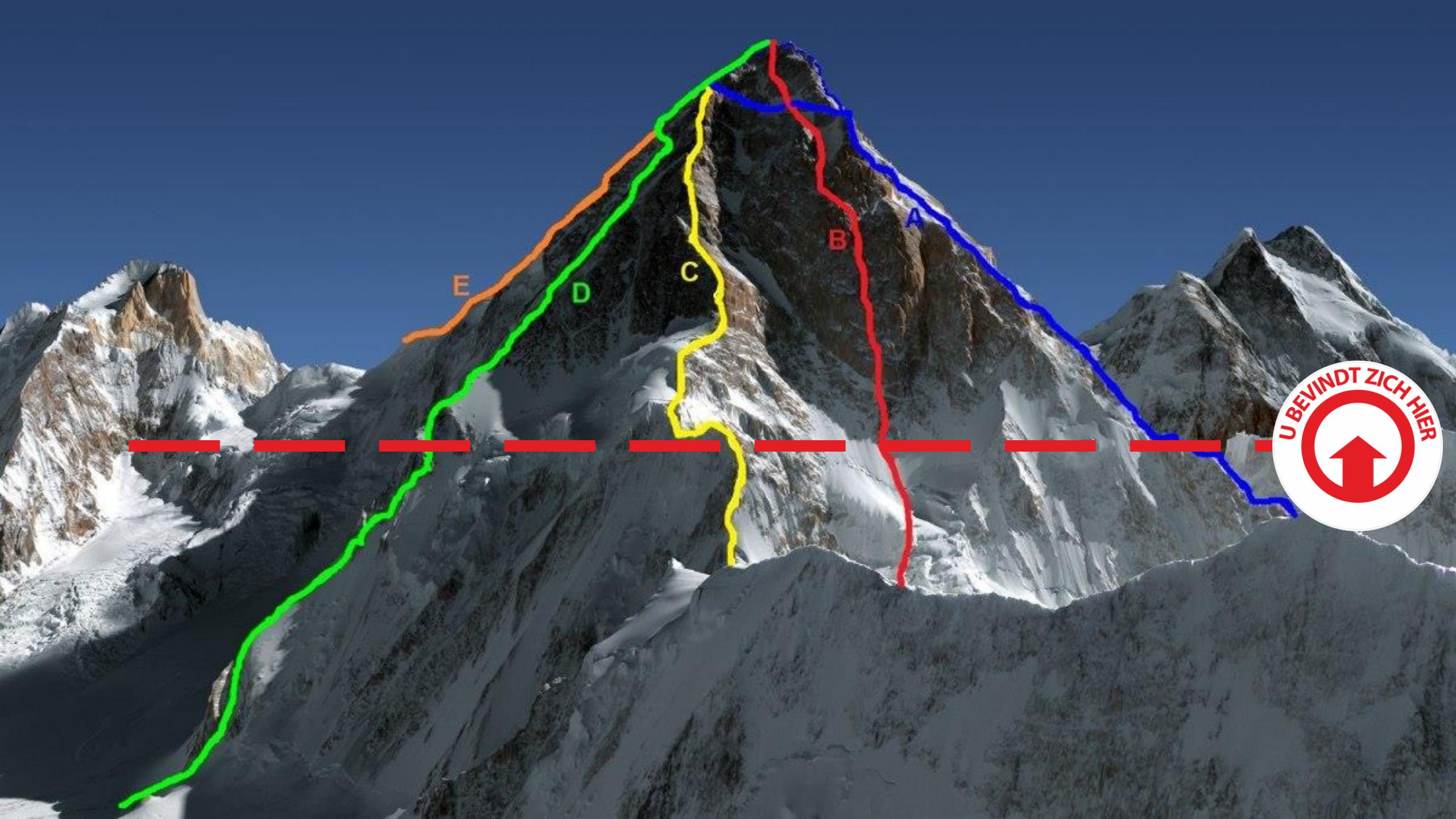
# Volgende experiment

*'Eerste indruk, het compacte formaat werkt top! Laat ze maar komen!'*

*'Dit rapportformaat ziet er goed uit. Al met al heel duidelijk wat er aan de hand is en wat er moet gebeuren.'*



Conclusie: Geen Word-documenten genereren!



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# Horticulture innovation at Erasmus University

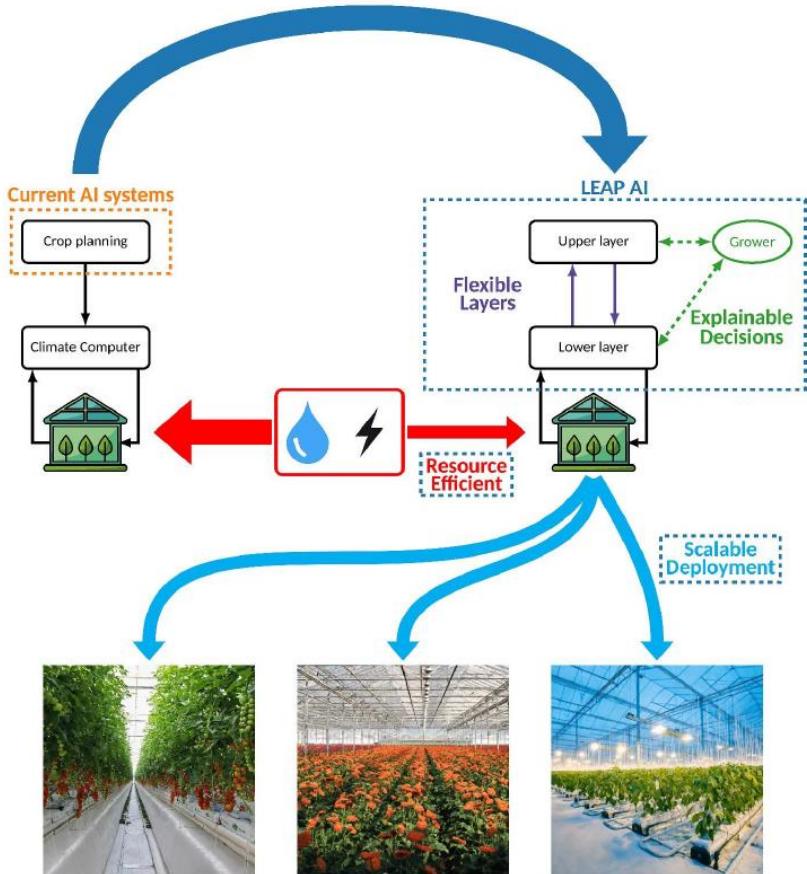


# Opportunities for innovation

- Promising innovations not only come from within organizations: **new ideas can be found everywhere**
- Solo efforts often turn out ineffective: **solutions need to be co-created in a broader ecosystem**



# Research



NWO grant  
proposal  
LEAP-AI

## Master theses

E.g., Femke Melkert:  
Cultivating creativity in  
Dutch greenhouse  
horticulture

## PT-PhD supervision

E.g., Saritha Saraswathy  
from Nutreco on the topic of  
innovation contests and  
idea selection

# Teaching

Master elective  
Foresight and Future Thinking in  
the Horticulture Sector



Executive  
education  
Weerbaarheid  
van de  
tuinbouwsector

**Koppert**  
Teaching cases  
E.g.: Design  
thinking digital  
solutions for  
biological pest  
control at  
Koppert

# Engagement

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# Thank you

Dirk Deichmann | ddeichmann@rsm.nl

[www.rsm.nl](http://www.rsm.nl)

Burgemeester Oudlaan 50  
3062 PA Rotterdam  
The Netherlands



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