



The next 40 years, the world needs more food than ever produced in men's history. NSure tools will be part of the solution!

CROP

INNOVATION & BUSINESS

Theo Aanhane MSc CEO NSure BV (The Netherlands)

NSure BV

- Established in 2006
- Spin-off Wageningen University
- Strong team of molecular biologists and sales professionals
- Privately owned by Investors and management
- Own laboratory for Product development and customer projects
- Target crops: fruit, row crops, vegetables







NSure's general approach



Test development



Key technology description

- Proprietary materials and procedures to stabilize, extract and amplify RNA to measurable quantities
- Proprietary knowledge to draw relevant correlations between changes in gene activity and physiological behaviour of plants
- Proprietary databases of gene expression data on plant growth/development and biotic/abiotic stresses of a variety of crops (e.g. corn, soybean, brassica, potato, tomato, apple, pear, grape, etc.)
- Proprietary software to improve and enhance product development









NSure's unique proposition

- Validated, actionable recommendation to farmers of fruit, vegetables and row crops
- Remediation of crop damage (biotic and abiotic stresses) during growth and storage
- Shortening of field trials of test agricultureprotection lead compounds based on early detection of plant response





Increase yield with higher margins!



Applications of NSure technology

Tailormade tests



R&D services



Determine the optimal moment for your budbreak treatment





sure*

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Physiological results vs HiCane treatments

Treatment	Application (date)	Bud break	к	ing flowe	rs	Spread budbreak (days)		
Control		41.0		1.4			23	
HC1	7-8-14	53.1		2.1			27	
HC2	13-8-14	54.7		2.3			19	1111
НСЗ	21-8-14	55.0		1.9			14	an
нс4	27-8-14	62.8		2.7			11	
HC5	8-9-14	55.8		2.0			26	

Bud break +10%Spread of bud break# King flowers +0.6/0.7-15/16 days



Simple sampling procedure in the orchard



1. Excising 25 buds



2. Excised bud in extraction bag, in label-side pocket







4. Using pipette to extract fluid from sample



5. Pipetting two drops of fluid onto FTA card



6. Air-dried FTA card is sent to laboratory in NZ

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Gene activity index vs budbreak results





10 sub-optimal late

Actionable recommendation

006087KMN: K7655

006087KMN: K3585

Customer	NSure Binne 6709 Nethe	BV nhaven 5 PD Wageningen rlands								
Subject	Break	NSure Kiwifruit								
Date report	29-02-	-2016								
		too early		sub-optimal early		optimal	1	sub-optimal late		
	-40		-20		-5	0	5		20	
006085FAH: K8711			-24 too	early						
006086PJZ: K2934							4	optimal		

-15 sub-optimal early

10



BreakNSure test: sample to information



Funding round

To enter the next, commercial stage:

- Worldwide introduction BreakNSure kiwifuit
- Wide range of BreakNSure tests
- New high potential tests
 - New traits
 - New crops
- Portable test device
- 1-1.5 years to develop the new tests that are key to reach the proposed revenues in 2022



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Join our mission

You are most welcome to:

- Give me a call
- Write me an email
- Visit us in Wageningen or on www.nsure.eu

 More information: <u>theo.aanhane@nsure.nl</u> or + 31 6 22 51 50 11

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