

Ocean Insight

Bridging the gap between photonics and the food industry

Marco Snikkers

Delft, September 2019





deVolkskrant

Columns & Opinie

Video

Vetenschap

Mensen

(

Cultuur 8

NIEUWS ZELFSCANKASSA'S

Albert Heijn introduceert winkel zonder kassa en personeel

Albert Heijn draait de komende twee maanden een proef met een volautomatische winkel zonder kassa waarin klanten hun producten niet meer zelf hoeven te scannen of af te rekenen. Computers, camera's en sensoren registreren de artikelen waarmee ze naar buiten stappen en schrijven de kosten elektronisch af.

Peter van Ammelrooy 5 september 2019, 7:33







Science News

Artificial intelligence helps banana growers protect the world's most favorite fruit

August 12, 2019 Date:

International Center for Tropical Agriculture (CIAT) Source:

Summary: Using artificial intelligence, scientists created an easy-to-use tool to detect banana

diseases and pests. With an average 90 percent success rate in detecting a pest or a

disease, the tool can help farmers avoid millions of dollars in losses.

Share:









RELATED TOPICS

FULL STORY

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- > Food and Agriculture
- > Pests and Parasites
- Endangered Plants

Computers & Math

Educational Technology









By Shiraz Jagati

SEP 03, 2019

EDITOR'S CHOICE

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Walmart's Foray Into Blockchain, How Is the Technology Used?

5153 Total views 194 Total shares Listen to article ▶ 7:55

Bitcoin Deposited in Bakkt Warehouse Protected by \$125M Insurance

New Analysis: Every Bitcoin Holder Makes a Profit After 1,335 Days

Investment Giant Schwab Steering Clear of Crypto 'For Now': Sources

Bitcoin Price Wobbles Toward \$10K as Altcoins Push Dominance Under 70%

Top-5 Crypto Performers: XMR, EOS, BCH, BTC, DASH



Meten is weten





Nieuws

Sport

Uitzendingen



Van salades tot soep, ministerie meet eigen voedselverspilling

③ DINSDAG, 08:58 POLITIEK





Ask a question



Precision farming based on real-time nutrient intelligence

Worldwide population is increasing and food production has to double to keep up with the growing demand. With AgroCares' proven technology farm management can begin to behave like chief operating officers, managing their fields, animals and recources like never before and achieving new levels of productivity. We give agribusinesses opportunities to grow with fewer recources.





NATIONAL GEOGRAPHIC

9x
more per acre
than others

Food=

10%

Dutch economy

Population Growth:
+70%
In 2050

MAGAZINE

THIS TINY COUNTRY FEEDS THE WORLD

The Netherlands has become an agricultural giant by showing what the future of farming could look like.







Kennis & Innnovatieagenda

2.5 Kernthema Slimme Technologie

Ambitie

In alle kernthema's is technologie van groot belang. Hierbij gaat het om het slimmer en preciezer produceren en verwerken met behulp van bijvoorbeeld sensoren en drones, grondstofbesparende technologieën, toepassingsmogelijkheden van het internet-of-things, blockchains, de inzet van data-analyse en systeemarchitectuur en -integratie.

In dit kernthema wordt samengewerkt met de Topsector High-Tech Systems & Materials (HTSM) en de Topsector Tuinbouw & Uitgangsmaterialen onder de koepel High Tech to Feed the World (HT2FtW). Hierin worden de volgende thema's onderscheiden:

- Data collectie: sensoren, detectie, visionsystemen;
- Analyse en benutting van data: ICT, Big Data, interpretatie (van data naar informatie);
- Automatisering en controle: activering, manipulatie, handling, robotica;
- Materialen en verwerking: nanomaterialen, soft matter, slimme oppervlaktes.

Activiteiten

De huidige activiteiten bestaan uit projecten en programma's die over verschillende roadmaps in de vorige kennis- en innovatieagenda waren ondergebracht.

De Topsector Agri & Food wil de komende jaren specifiek inzetten op:

- Digitalisering agrifoodsector (NL Next level) en samenwerking met de coöperatieve DataHub.
- Organisatie van gezamenlijke calls met HTSM en T&U voor HT2FtW;
- Ontwikkeling van een fundamenteel programma HT2FtW (via NWO);











NATIONALE AGENDA FOTONICA







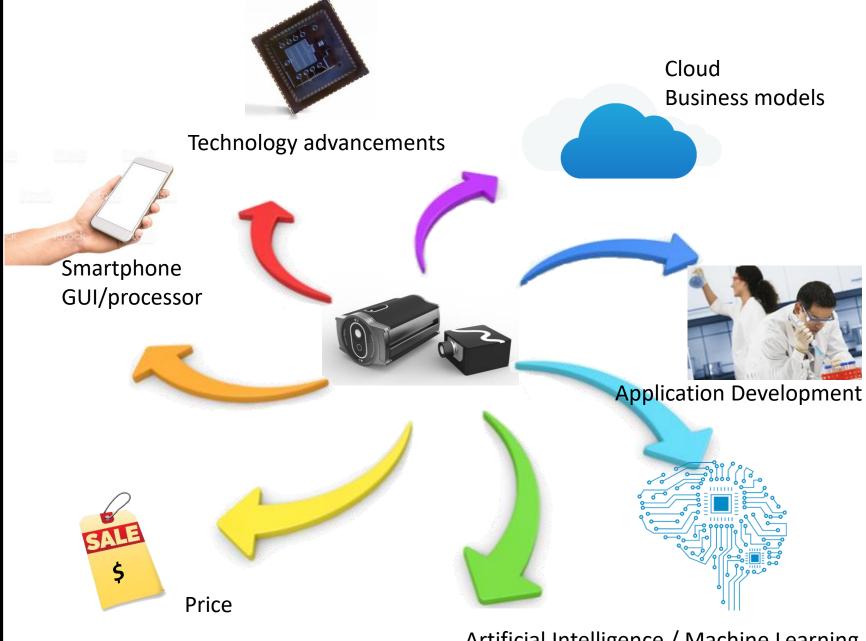
Autonomous Greenhouses Call - WUR





Photonics Technologies in Food industry

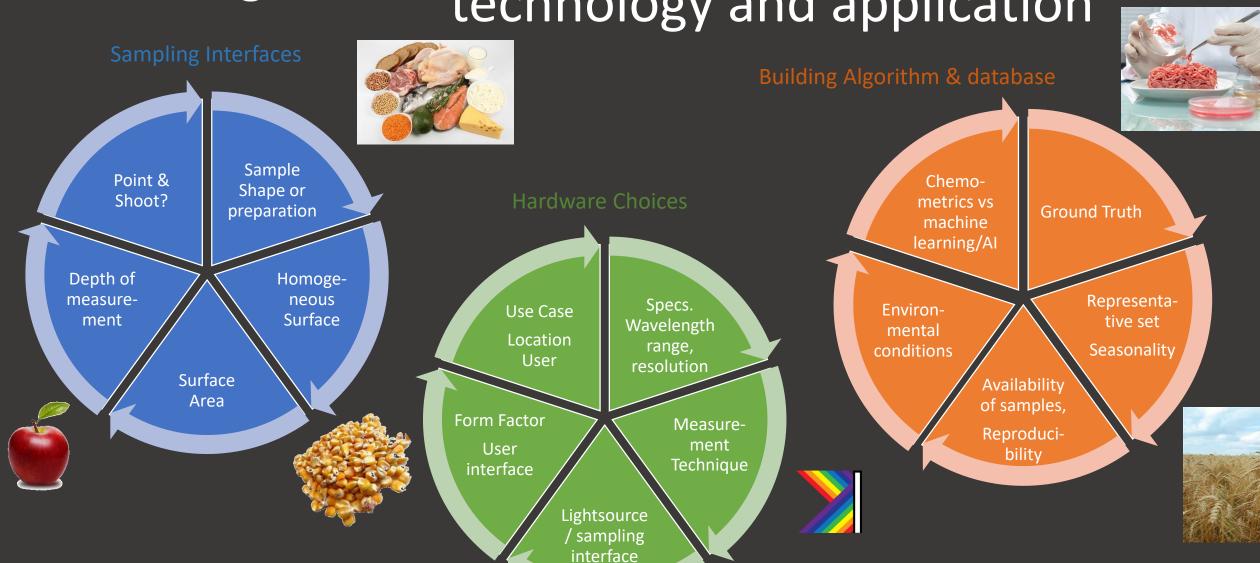
Combining with key technologies to provide solutions...



Artificial Intelligence / Machine Learning



Bridging the Gap between technology and application





Spectral Sensing or Imaging







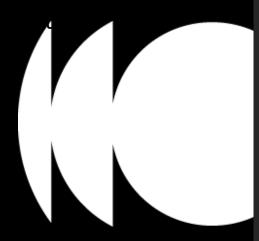








Ocean Insight



Since 1989, the largest manufacturer of modular spectrometers ISO 9001:2015





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Environmental

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Thank you!



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