

AeroVision brengt mensen bij elkaar!



COPERNICUS en LANDBOUW

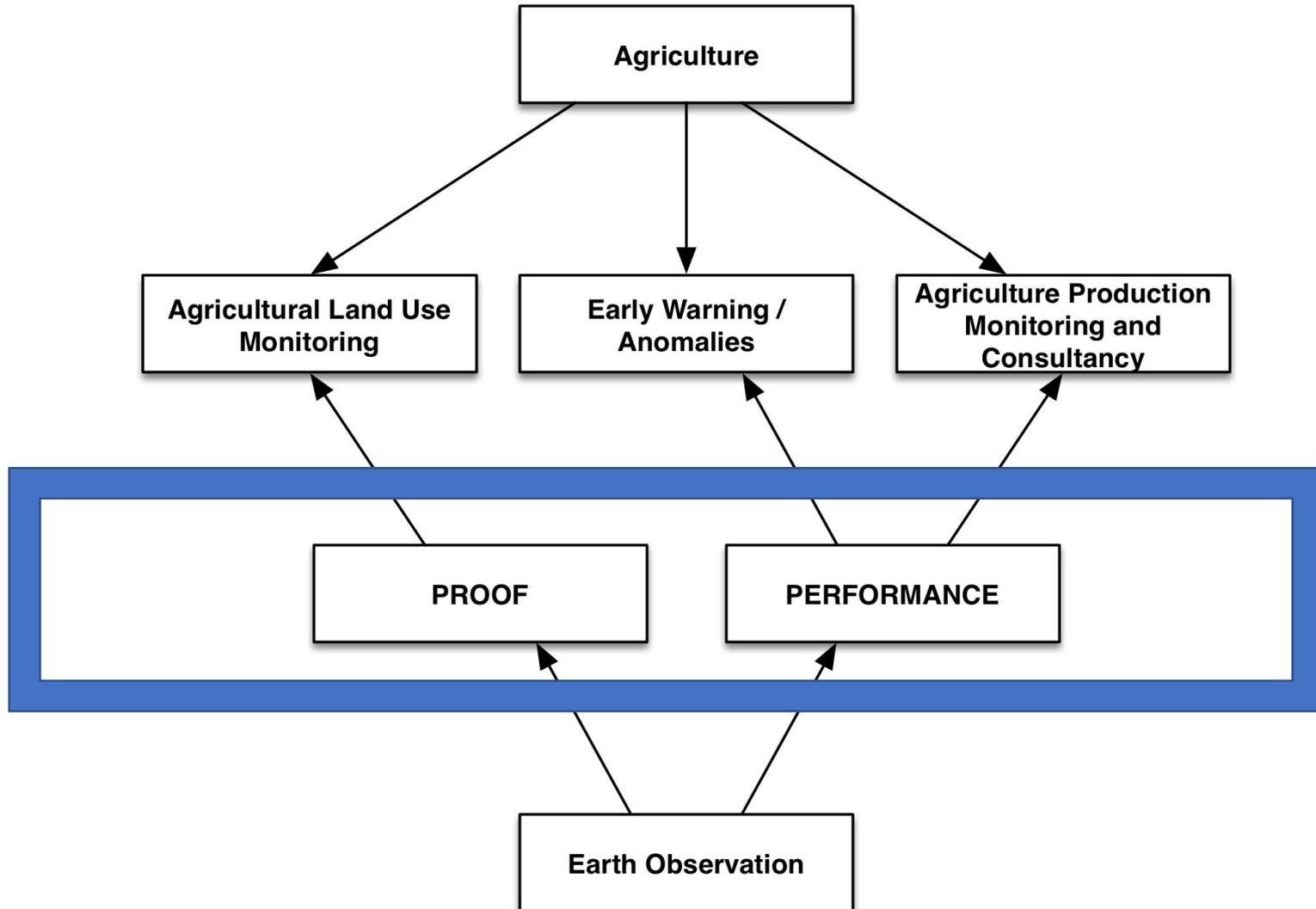


Tamme.vanderWal@aerovision.nl

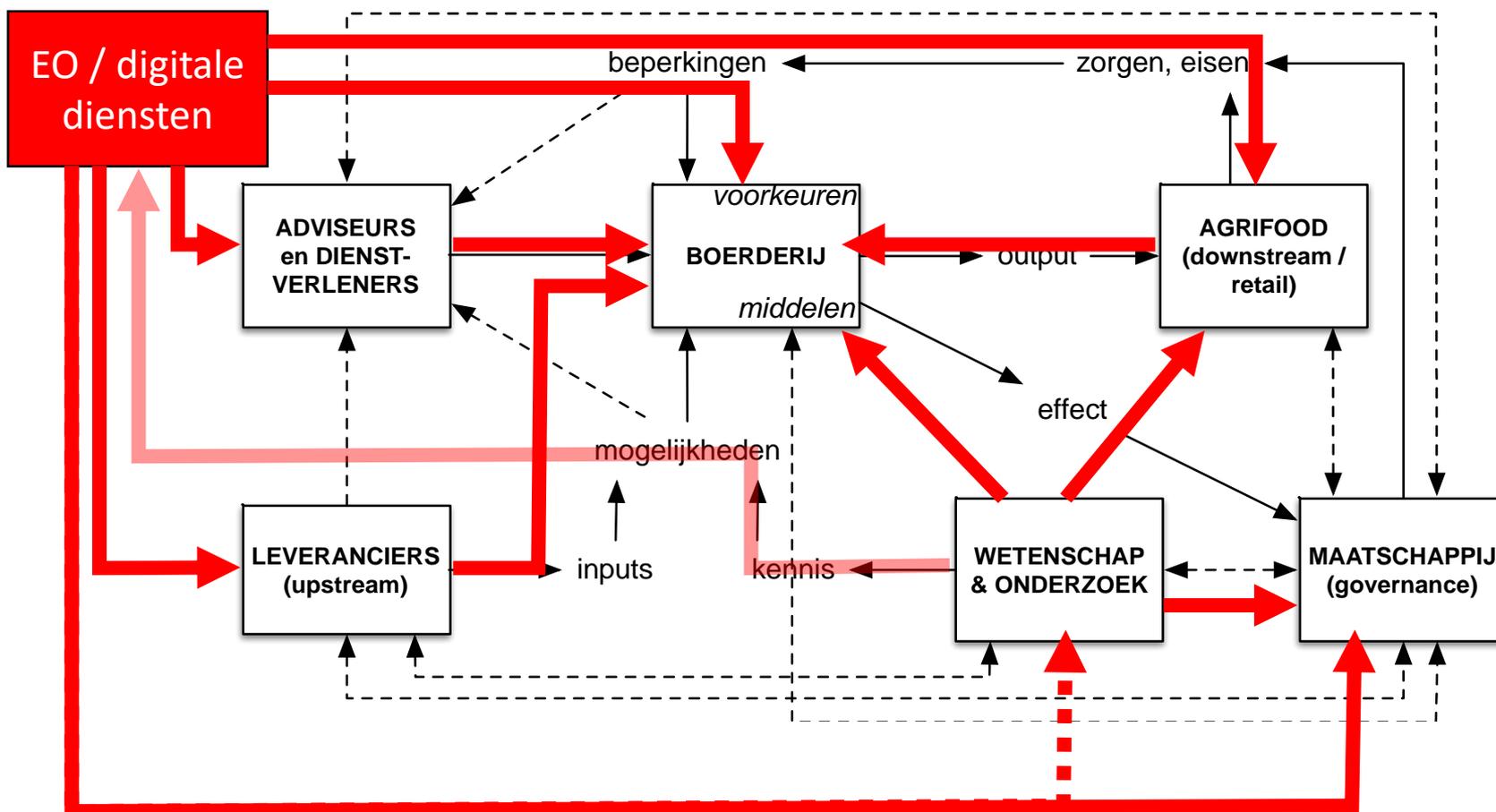
Gebaseerd op:

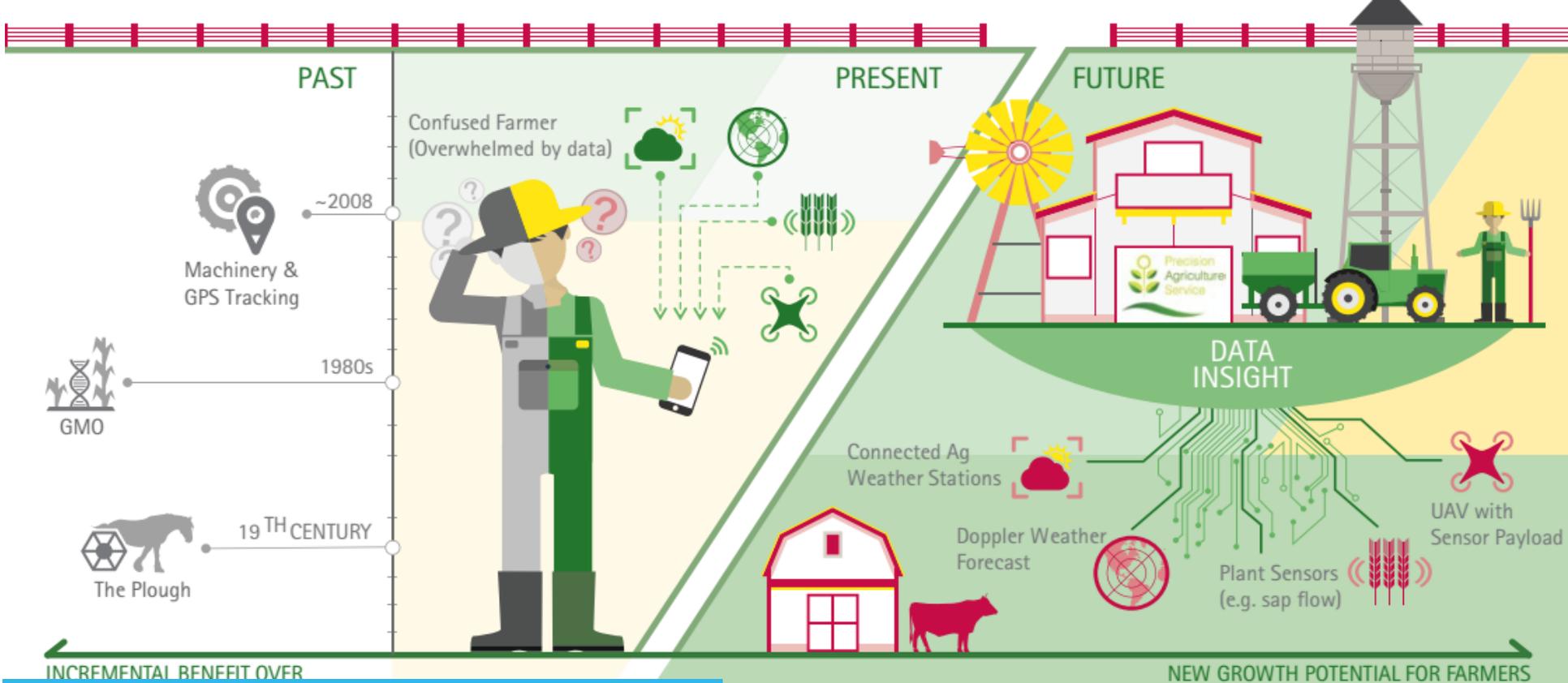
- discussion paper *"Towards Future Copernicus Service Products in support to Agriculture in Europe"*. T. van der Wal, G. Lemoine, A. Zloty. Mrt 2018.
- Workshop *"Agriculture and Earth Observation"*, 4-5 juli 2017, LNV, Den Haag.

Landbouw en Aardobservatie



Boerderij en Aardobservatie





Farmers take a byte out of...

'BIG DATA'



Australian farmers

are finding new ways of using data to increase their productivity so they can keep putting food on

ACCESS TO SMART FARMING TOOLS WILL HELP FARMERS MAKE BETTER DECISIONS TO INCREASE THEIR FOOD PRODUCTION



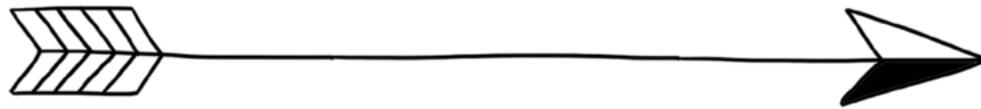
More data → **More information** → **More insights** = **Increased productivity**



Sentinels = disruptive

INNOVATION

DISRUPTION



DOING THE SAME
THINGS A BIT
BETTER

DOING NEW
THINGS

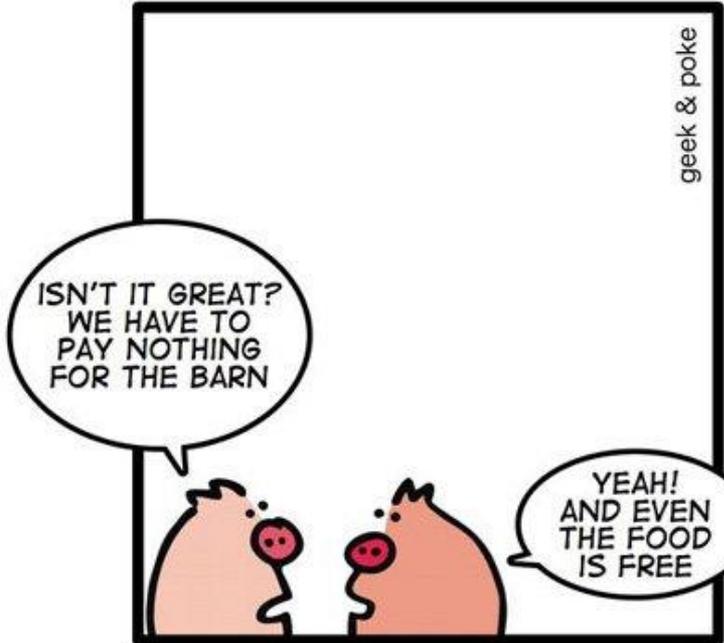
MAKING THINGS THAT
MAKE THE OLD THINGS
OBSOLETE



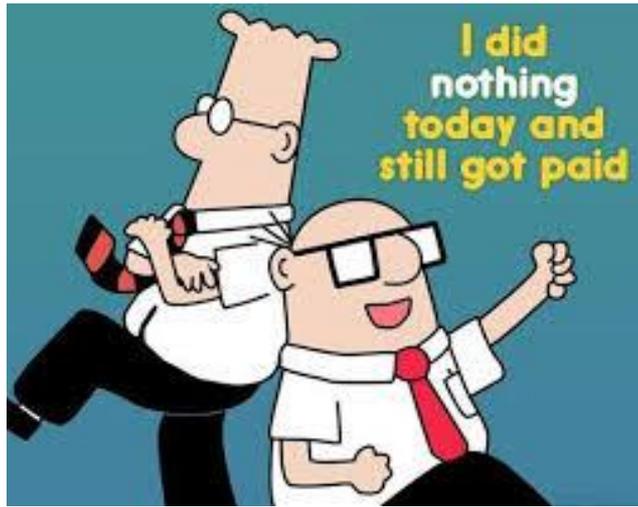
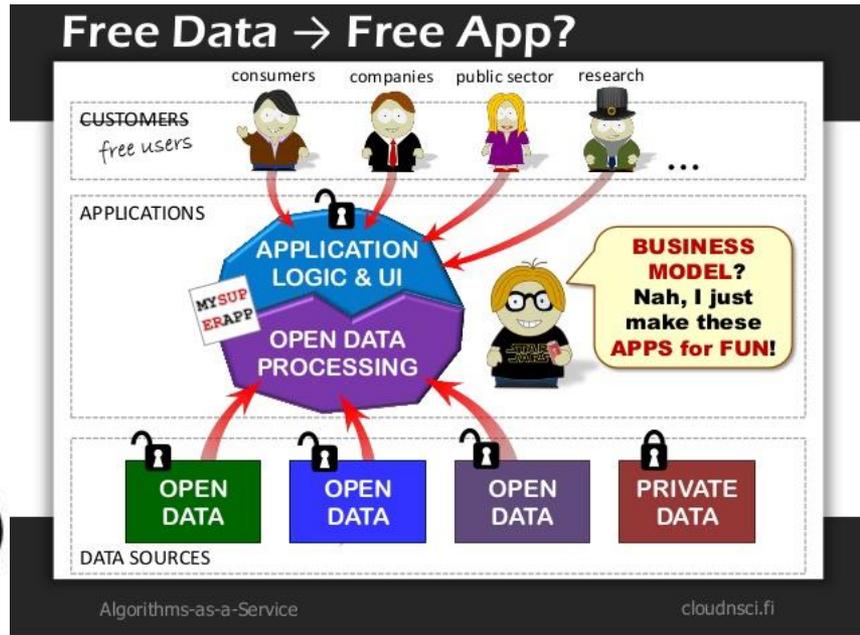
50 YEARS OF INNOVATION CONTINUE

			
INSTAMATIC 40 1963	INSTAMATIC 231 1968	POCKET INSTAMATIC 100 1972	NEWMATIC 3004 2013

Kodak
NEWMATIC 3004



PIGS TALKING ABOUT THE "FREE" MODEL

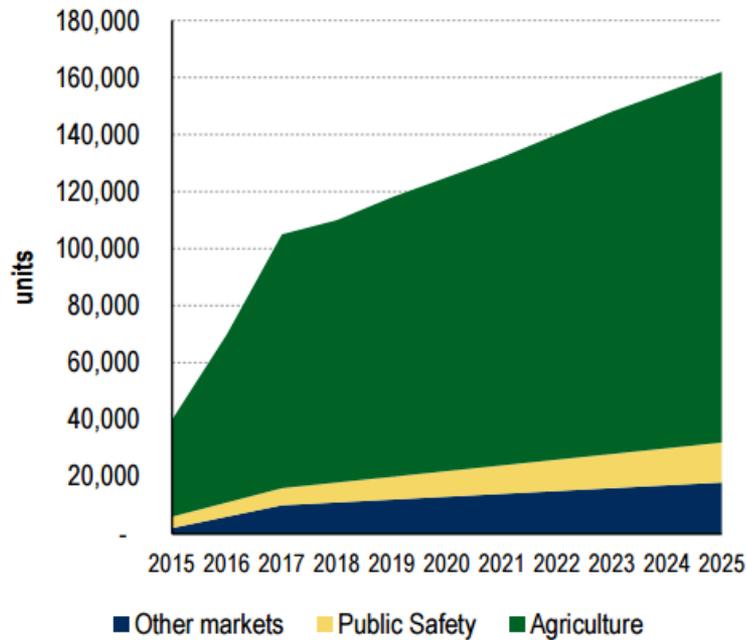


7 Amazing APPS THAT LITERALLY PAY YOU FOR DOING NOTHING



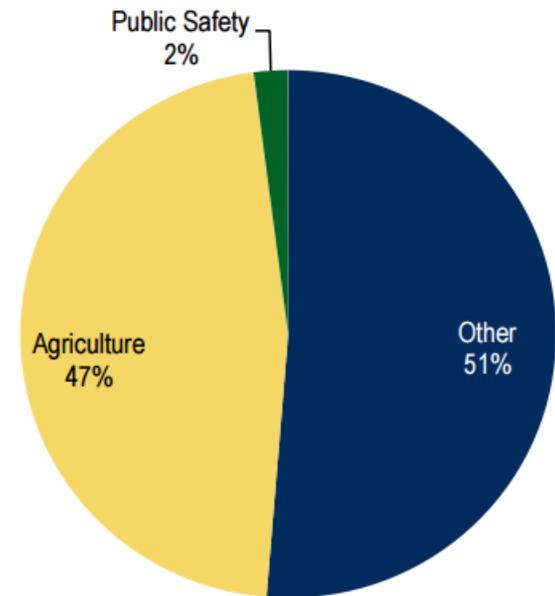
Drones ...

Chart 277: Projected annual UAVs sales, 2015-2025E



Source: AUVTI

Chart 278: Expected economic impact of UAVs in 2015



Source: AUVTI

Note: Other (US\$2.2bn), Agriculture (US\$2bn), Public Safety (US\$89mn)

Meerwaarde Copernicus

Groenindex



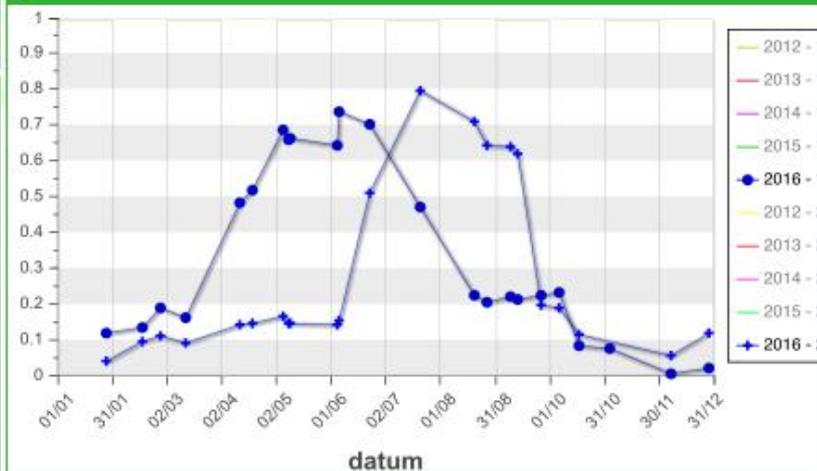
zoek gemeente

voer een gemeentenaam in

legenda

	Landbouw	Natuur
	No data	No data
0	Open water	Open water
0.1	Drassig/na...	Wit zand o...
0.2	Geploegd l...	Kale bodem
0.3	Net opkom...	Bladverlie...
0.4	Opkomend...	Naaldbos i...
0.5	Gesloten g...	Opkomen...
0.6	Gewas me...	Naald bos ...
0.7	Gewas me...	Moerasve...
> 0.8	Groene vpl	Grnen loof

groenindex





Home

Achtergrond | 15 mrt 2017 | 1271 x bekeken

Precisielandbouw wil nog niet doorbreken

Nederland loopt voorop met investeringen in vernieuwing van de land- en tuinbouw. Maar toch breekt precisielandbouw nog niet door op de schaal die gewenst wordt. Wageningen University en Research zette de knelpunten op een rij.

Staatssecretaris Martijn van Dam (Economische Zaken) meent dat precisielandbouw en de kennis en technologie die daarvoor worden ontwikkeld, kunnen leiden tot verduurzaming van de landbouwproductie en vergroting van de opbrengsten. Met precisielandbouw kan de aanwending van gewasbeschermingsmiddelen en kunstmest gericht worden toegepast, wat tot een vermindering van het gebruik leidt.

Lees ook: [Van Dam koopt satellietdata voor landbouw](#)

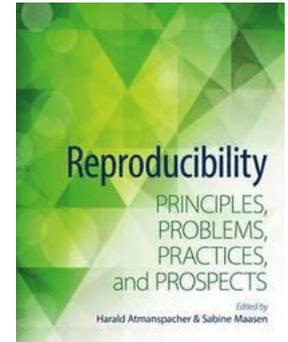
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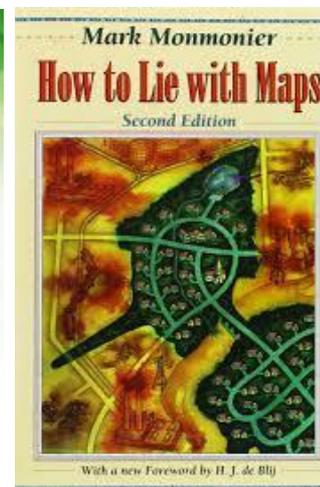
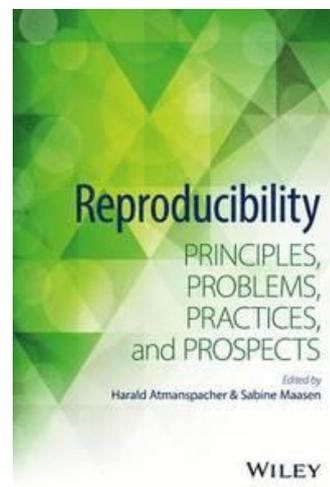


Wat is er nodig voor meer gebruik?

Wat is er nodig voor meer gebruik van satellietdata?

- Eenduidigheid in (pre)processing:
 - Analysis Ready Data
 - Reproduceerbaarheid
- Van inventie naar innovatie:
 - Heldere rolverdeling triple-helix
 - Benchmarks
 - In situ segment
- Voorkom (nieuwe golf) overselling:
 - Satellietdata is geen haarlemmerolie
- Inspireer gebruikers, genereer bewustzijn
 - Satellietdataportaal





Eenduidige (pre)processing; afwegen van alternatieven; eerlijk over wat kan/niet kan



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2

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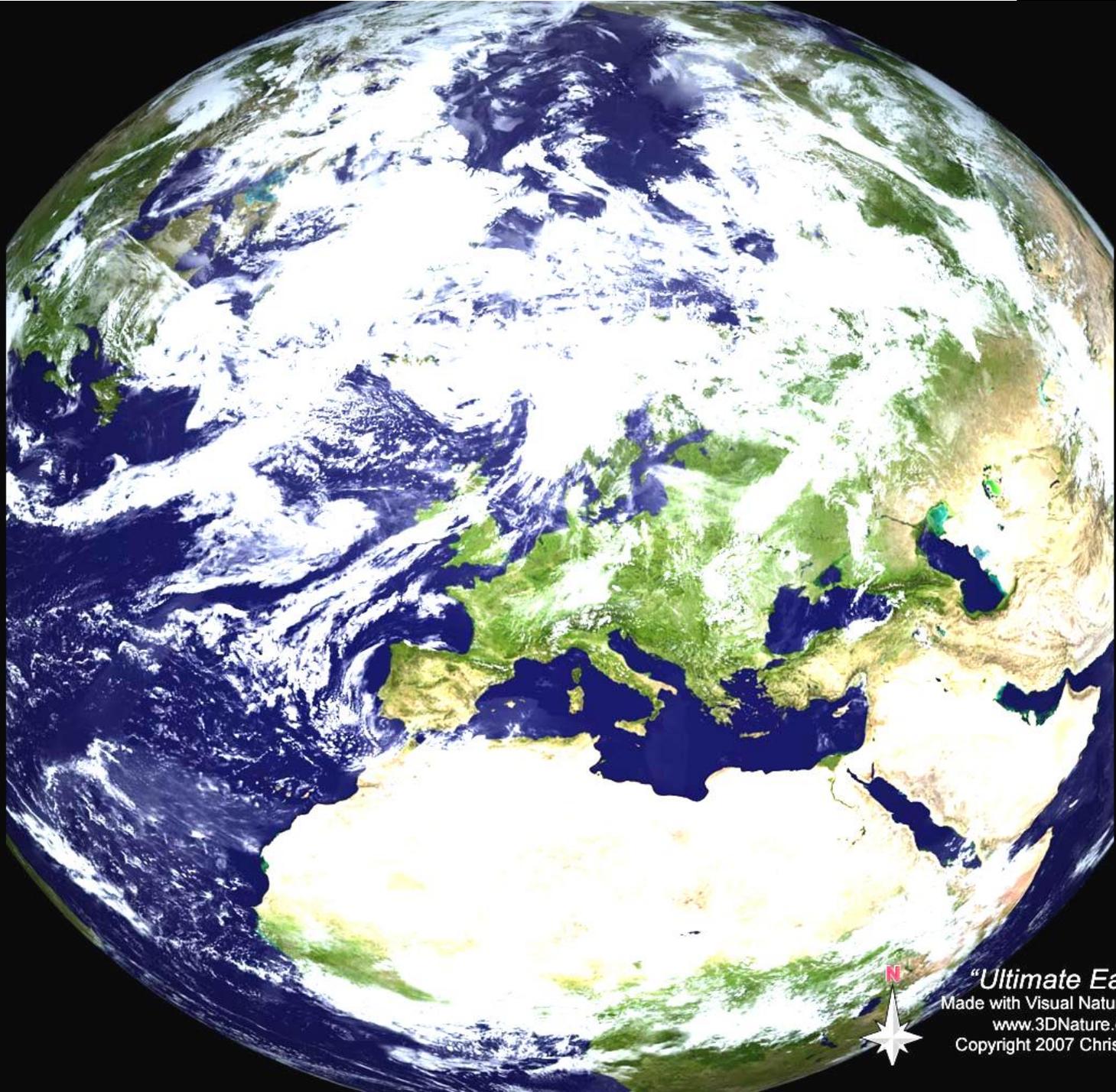
3

...and Wrap!





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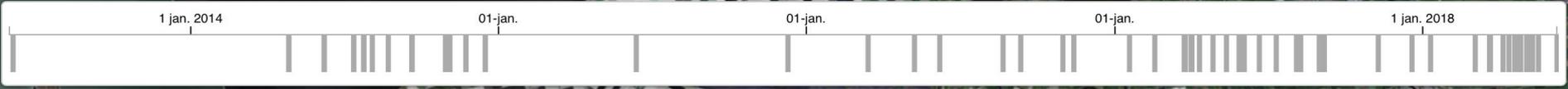


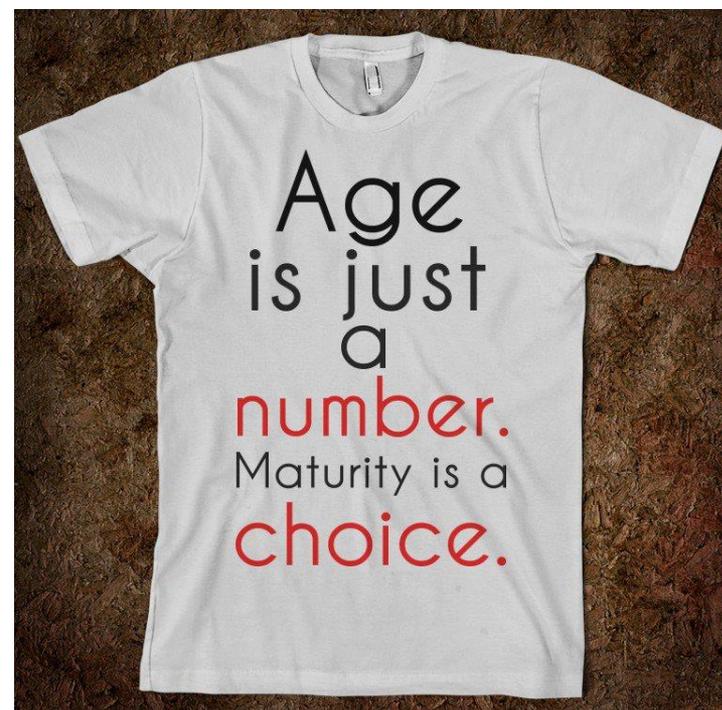
**Inschrijving
sluit vrijdag
12 januari**



- BRT achtergrondkaart
- OpenStreetMap
- Luchtfoto 2016 25cm
- Luchtfoto 2017 25cm
- Triplesat Mei 2017 80cm
- Triplesat Maart 2018 80cm

Periode	
Startdatum:	Einddatum:
01-03-2013	13-06-2018





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Copernicus en Landbouw?

Landbouw ≠ Milieu of natuur



GAF presents the High-Resolution Layer (HRL) 2015 Forest and Grassland products to European Environment Agency (EEA)

On 3rd May 2018, the production results for the [Copernicus Land Monitoring Service's High-Resolution Layer \(HRL\) 2015](#) were presented to the [European Environment Agency \(EEA\)](#) in Copenhagen, Denmark. This was done at the HRL 2015 Final Meeting.
09.05.2018 | Posted in [Information note](#)

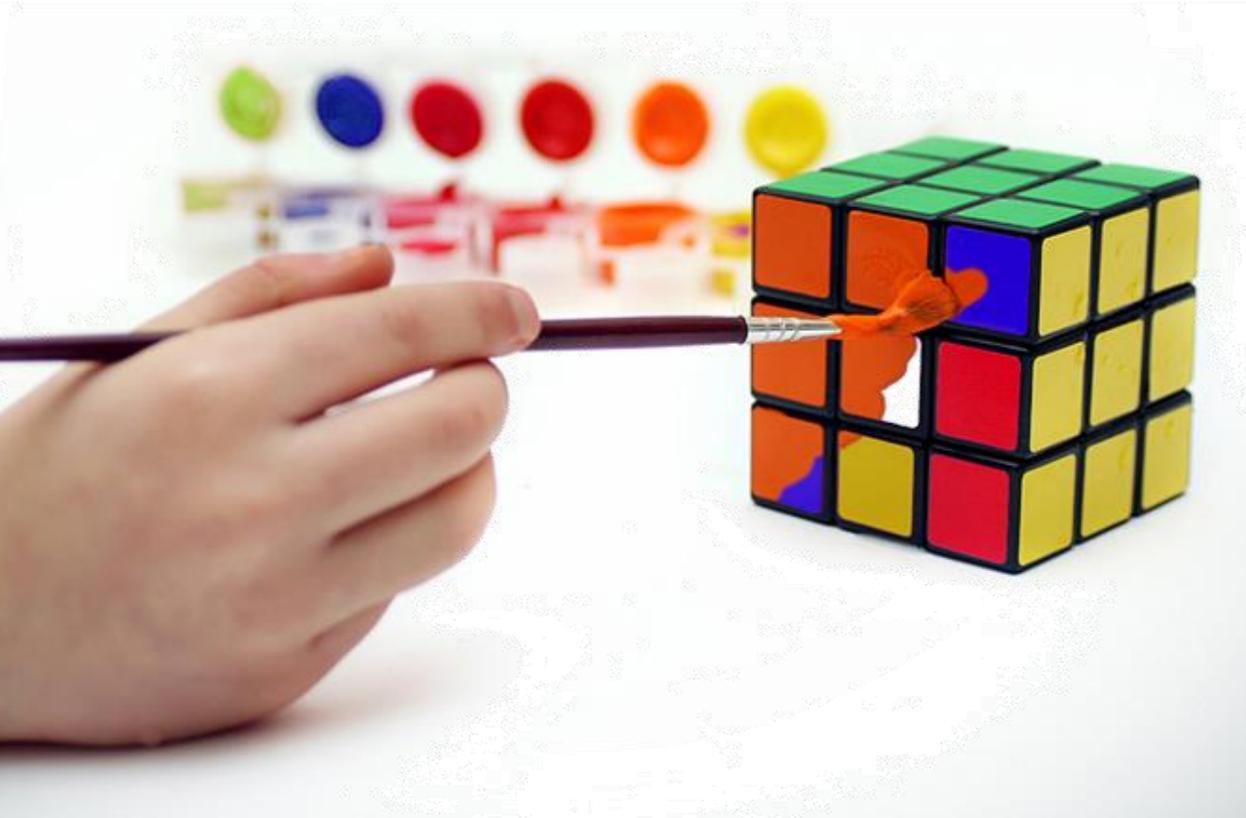
Wel rapportages OVER de landbouw, niet VOOR de landbouw



24 hour Analysis Ready Data

- **Near Real-Time (NRT)**: delivered less than 3 hours after data acquisition and mainly used for marine meteorology and ocean-atmosphere gas transfer studies (and possibly for operational oceanography depending on orbit accuracy).
- **Slow Time Critical (STC)**: delivered within 48 hours after data acquisition, due mainly to the consolidation of some auxiliary or ancillary data (e.g. preliminary restituted orbit data) and the data are mainly used for geophysical studies and operational oceanography.
- **Non-Time Critical (NTC)**: typically delivered within 1 month after data acquisition. This additional delay allows consolidation of some auxiliary or ancillary data (e.g. precise orbit data) and the data are mainly used for geophysical studies and operational oceanography.

Te veel niches / oplossingen





AeroVision brengt mensen bij elkaar!



Dank voor uw aandacht.

Tamme van der Wal

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