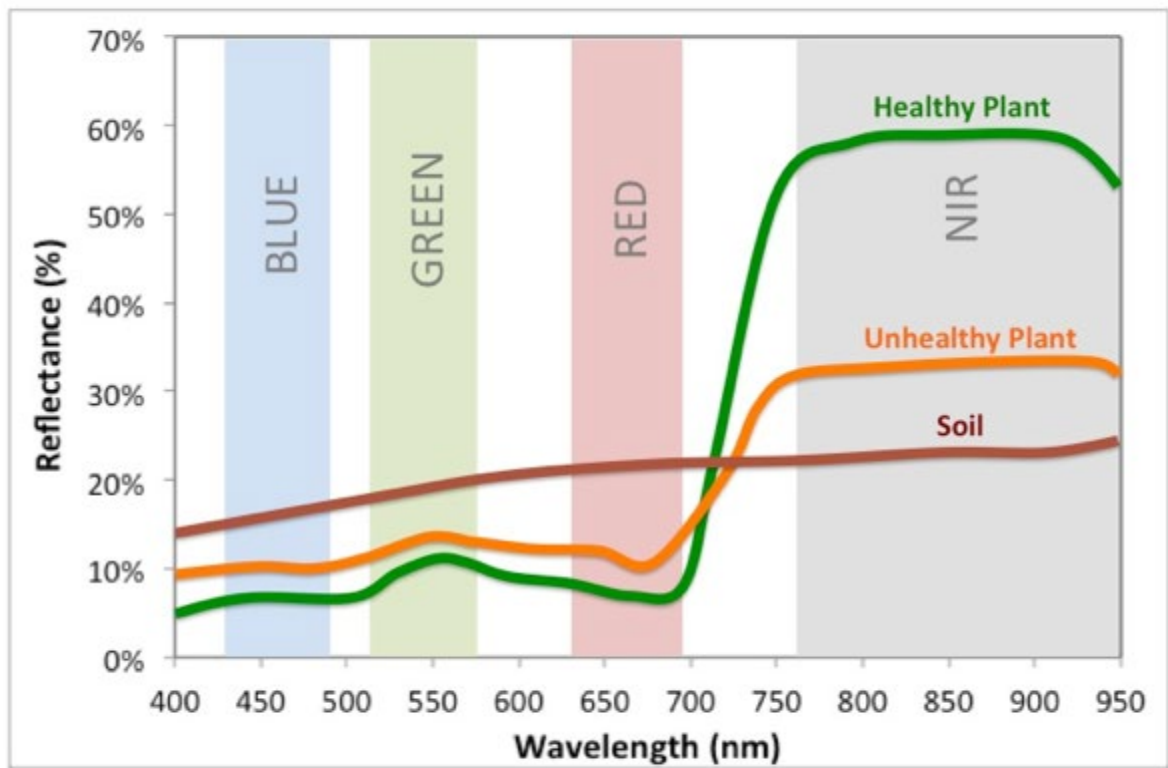
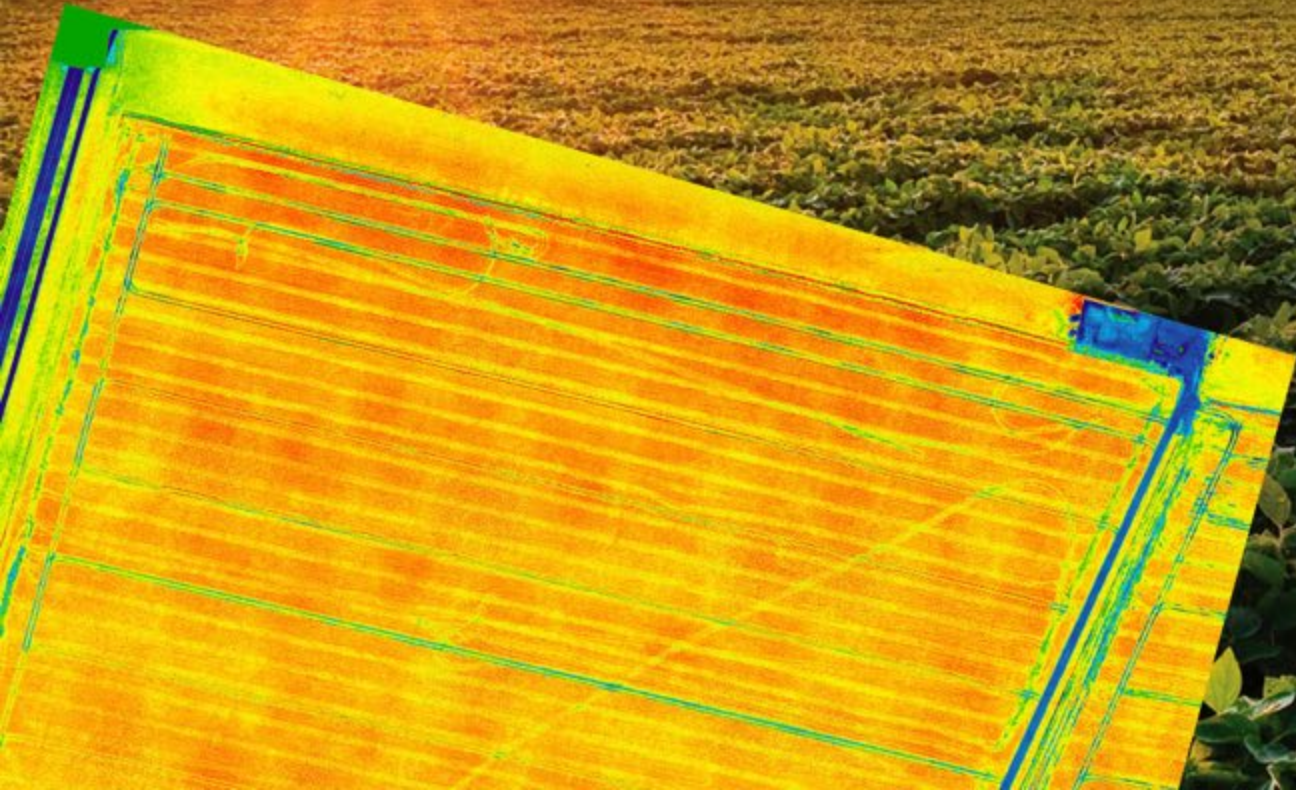


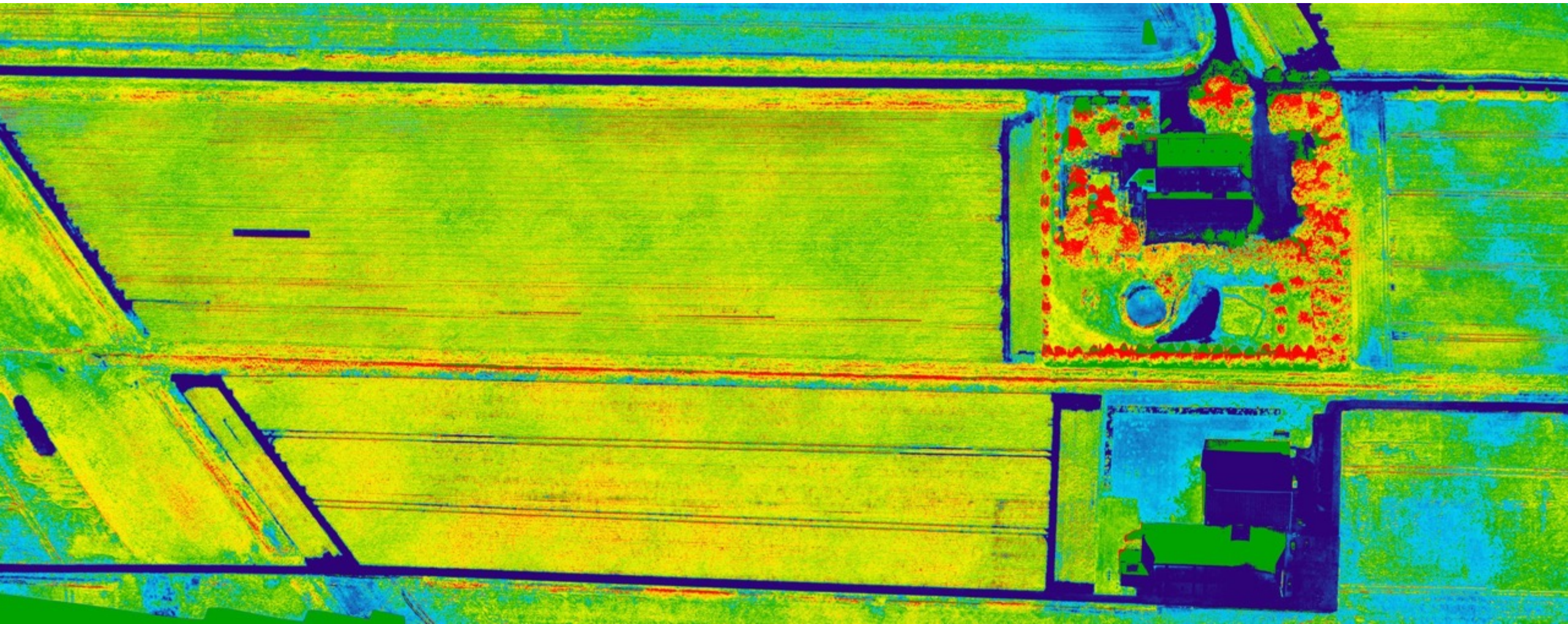


Agriculture, a challenge for 5G
Wilco Stollenga, Agrifly











The logo features a stylized signal tower icon composed of five concentric, curved lines in green, yellow, orange, red, and purple. To the right of this icon, the text "5G" is written in a large, bold, blue sans-serif font, and "GRONINGEN" is written in a smaller, bold, black sans-serif font.

5G GRONINGEN





Problem

- 5 Gigabyte data
- Farmer needs to wait



Solution

- **Near real-time processing**
- **Delivering result in 'the cloud'**

Status for job 366

Status of this job

Task	Error	Status	Natural Took	Created / Updated
match-photos	—	—	—	30% 31 seconds ago / a second ago
calibrate-reflectance	—	—	a moment	done 32 seconds ago / 31 seconds ago
locate-reflectance-panels	—	—	7 seconds	done 40 seconds ago / 32 seconds ago
add-photos	—	saving document, images used of total GRE: 455 / 457, NIR: 455 / 457, REG: 455 / 457, RED: 455 / 457	4 seconds	done 45 seconds ago / 40 seconds ago
initialize	—	—	a moment	done 45 seconds ago / 45 seconds ago

Key	Created	Updated	gre	reg	nir	red	ndvi
5ScyAGL1hS ... 0QtQv	None	0	1 day, 17 hours ago	1 day, 16 hours ago	✓	✗	i ndvi gre reg nir red
s2MfagKTS ... 5aNIj	None	0	1 day, 2 hours ago	1 day, 2 hours ago	✗	✓	i ndvi gre reg nir red
Pr3tMq5xDw ... ystIN	None	0	21 hours ago	4 hours ago	✗	✓	i ndvi gre reg nir red
YpPGkju219 ... LSuAM	None	0	4 hours ago	3 hours ago	✓	✗	i ndvi gre reg nir red
UKWBNFyVnD ... i6yPV	None	0	4 hours ago	an hour ago	✗	✗	i
CtJotTglaP ... 4Xnjm	None	0	4 hours ago	3 hours ago	✓	✗	i ndvi gre reg nir red
M51mbWGjm1 ... T1uW5	None	0	an hour ago	52 minutes ago	✓	✗	i ndvi gre reg nir red

API Token

Authentication token to

Agri-fly

Dashboard

None

Kaart

Satelliet

RED

REG

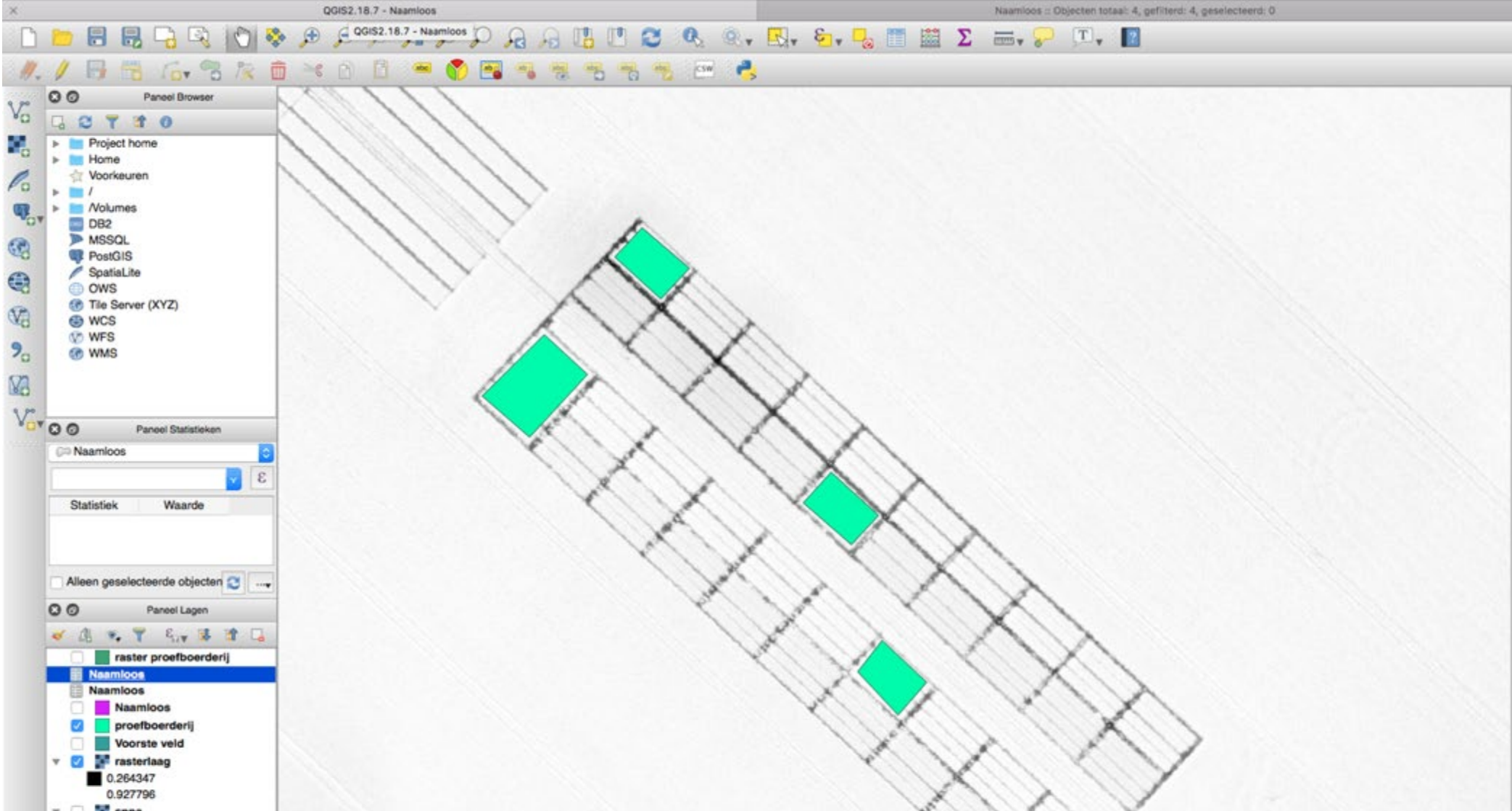
NIR

GRE

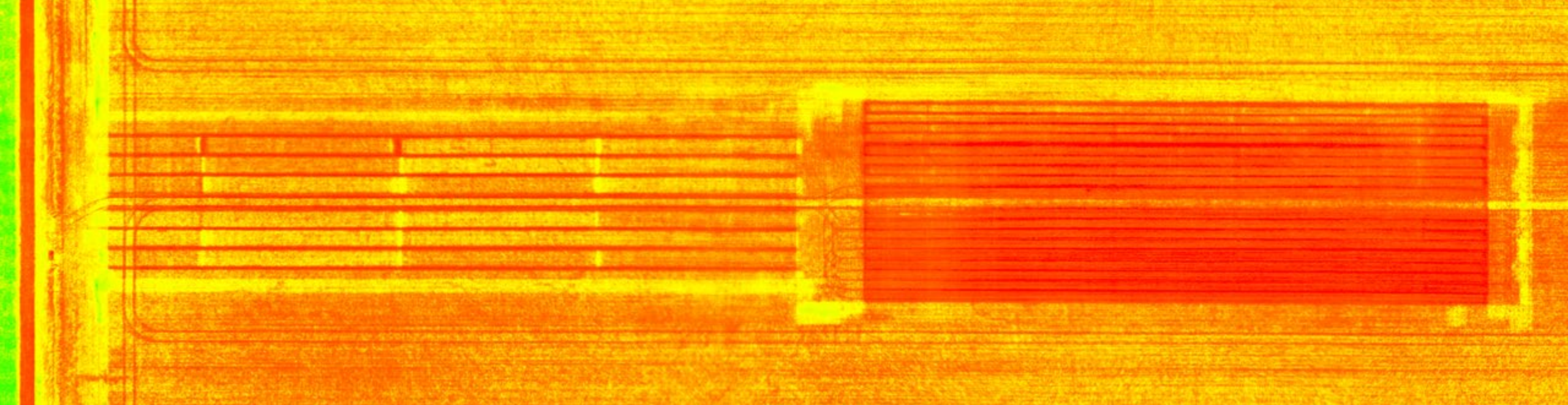
NDVI

recenter

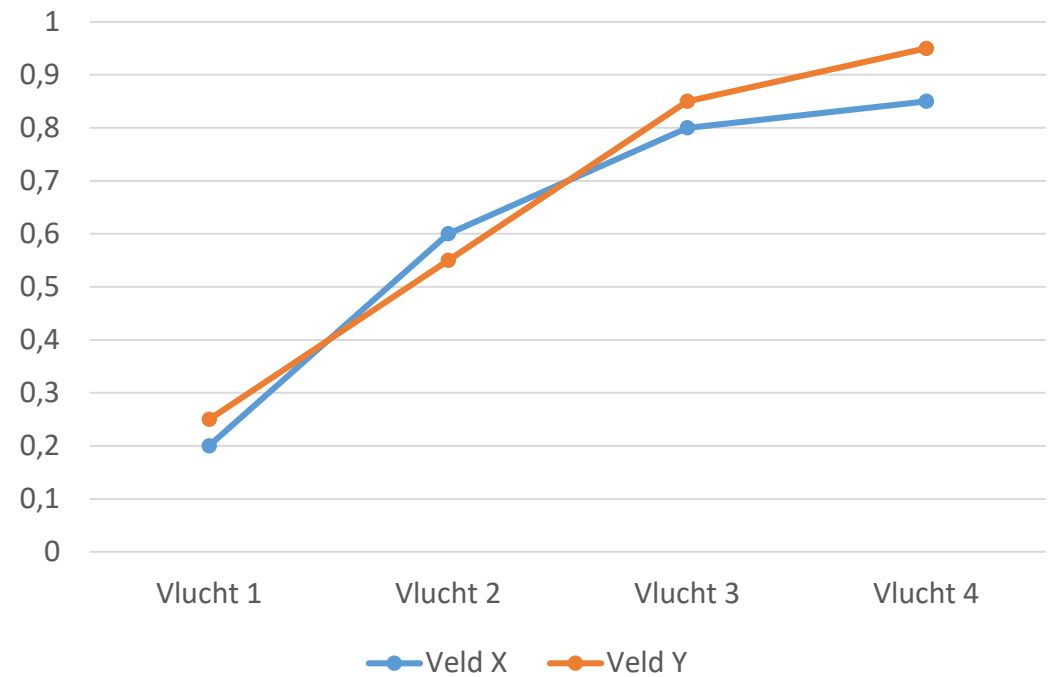




	id	count	sum	mean	min	max	range	_count	_sum	_mean	_min	_max
1	1							11332	10133.24595...	0.894215139...	0.738975346...	0.931918978...
2	2							10839	9835.446166...	0.907412691...	0.803318500...	0.939891695...
3	3							11087	9571.559685...	0.863313762...	0.556784212...	0.916940689...
4	4							22786	20391.05395...	0.894893967...	0.677530646...	0.939974665...



Change in biomass



An aerial photograph of a coastal landscape. The foreground and middle ground are dominated by vibrant green, rectangular fields, likely used for agriculture or aquaculture. A narrow, winding canal or waterway cuts through the fields, starting from the bottom center and moving towards the top. In the background, a large body of water, possibly a bay or the ocean, stretches to the horizon under a cloudy, overcast sky. Several cows are visible grazing in the fields, adding a sense of rural activity to the scene.

Improvements

- 5G coverage
- Processing speed at the UG



Future

- 5G rural area's
- AgTech
- Teaching

Multiple drones for
different
applications





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