



Satellite imagery
Serving Agriculture

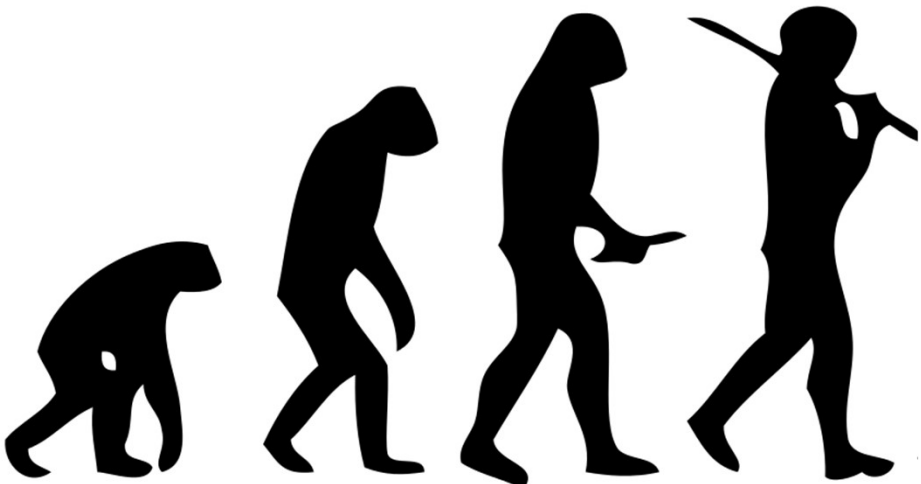
DEFENCE AND SPACE

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The idea to take some height to better understand the environment is not new



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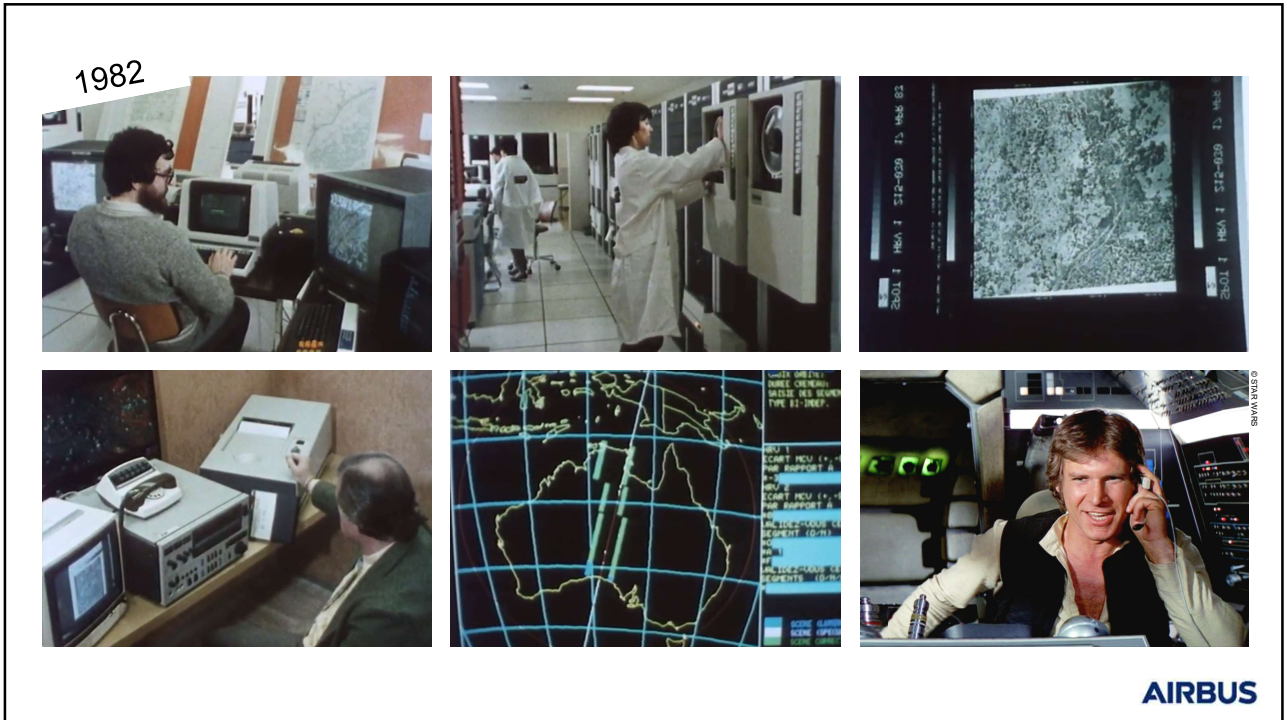


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Precision Agriculture took off recently, when image frequency increased with the number of satellites in orbit



Sentinel 2

Free access
2-3 day revisit
Spectral richness

150

EO satellites
currently in orbit*

20

Companies trying to develop
low cost EO constellations**

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Yet turning satellite pixels into crop analytics remains somewhat rocket science

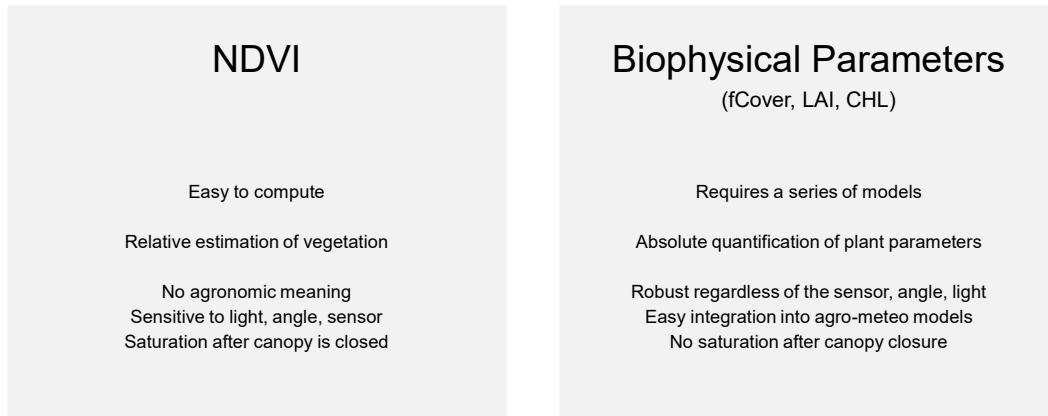
- Clouds
- Image size
- Different resolutions
- Different revisits
- Different spectral responses



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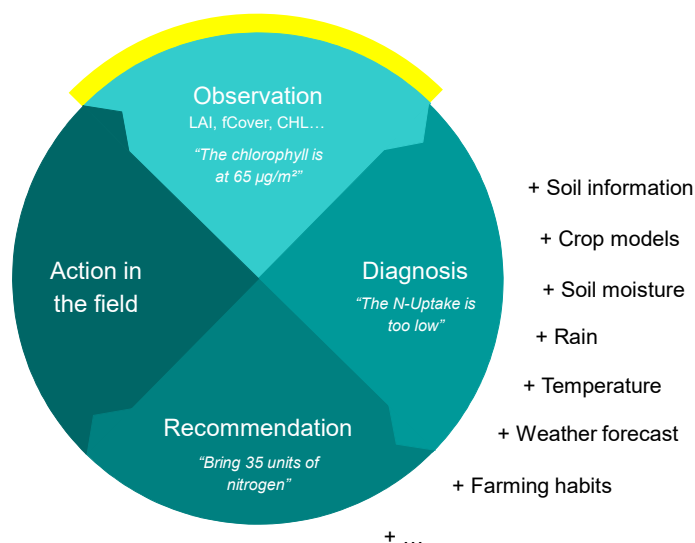
There are different ways to translate pixels into vegetation analytics



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These analytics are crucial, though just the starting point of precision ag



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And they are just one source of information depending on what you want to monitor

Use Case

- Resolution
- Frequency
- Coverage
- Cost



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Further work is required collectively to unlock the full potential of satellite imagery for precision agriculture

- 1 More bands & ground data to explore further machine learning for new use cases
- 2 More reliability in the service to the farmer
- 3 A real ROI for the farmer (certification / label)

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