



Emerging Technologies



PPDC
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Introduction

- How we use pesticides to help grow our food **tomorrow** will look very different from how we use them **today**.
- What policy and label changes are necessary as a result?



Examples

- Precision Farming
- Robotics
- Artificial Intelligence
- Advanced Sensor Technology
- Hyperspectral Imaging
- Internet of Things
- QR (Quick Response) Codes
- Product Traceability
- Unmanned Aerial Applications
- Augmented Reality Farming



EPA Questions

- How should EPA obtain a greater understanding of how the use of emerging technologies leads to reduced or increased risks that differ from those resulting from current methods?
- What changes to EPA's approach to labels, if any, are needed to accommodate emerging technologies?



EPA Projects

- OPP Information Technology Digital Transformation
- OPPEL
- QR Codes
- Web-distributed labeling
- EPA UAV Workgroup
- Commodity Classic (Association of Equipment Manufacturers)
- Participation in State Emerging Technologies Workgroup
- Other

Appendix



Pictures are not endorsements

AGCO
Agriculture Company

AGCO
Agriculture

FENDT

IDEAL

PROVEN PERFORMANCE
FOR FARM & FIELD

CENEX



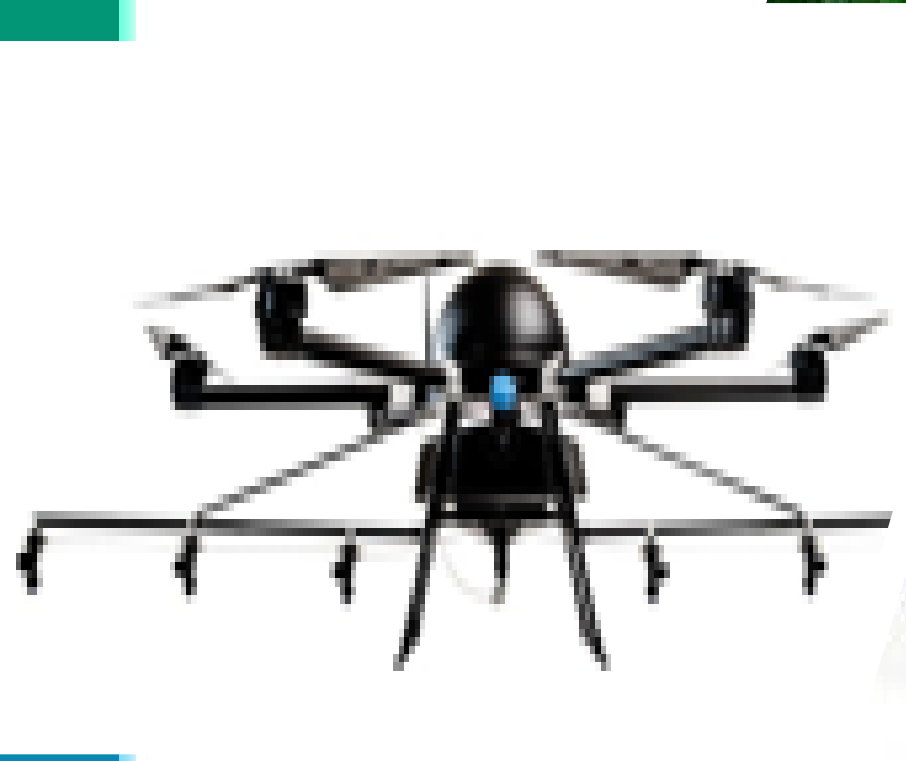


AGCO
Your Agriculture Company

2400
2400

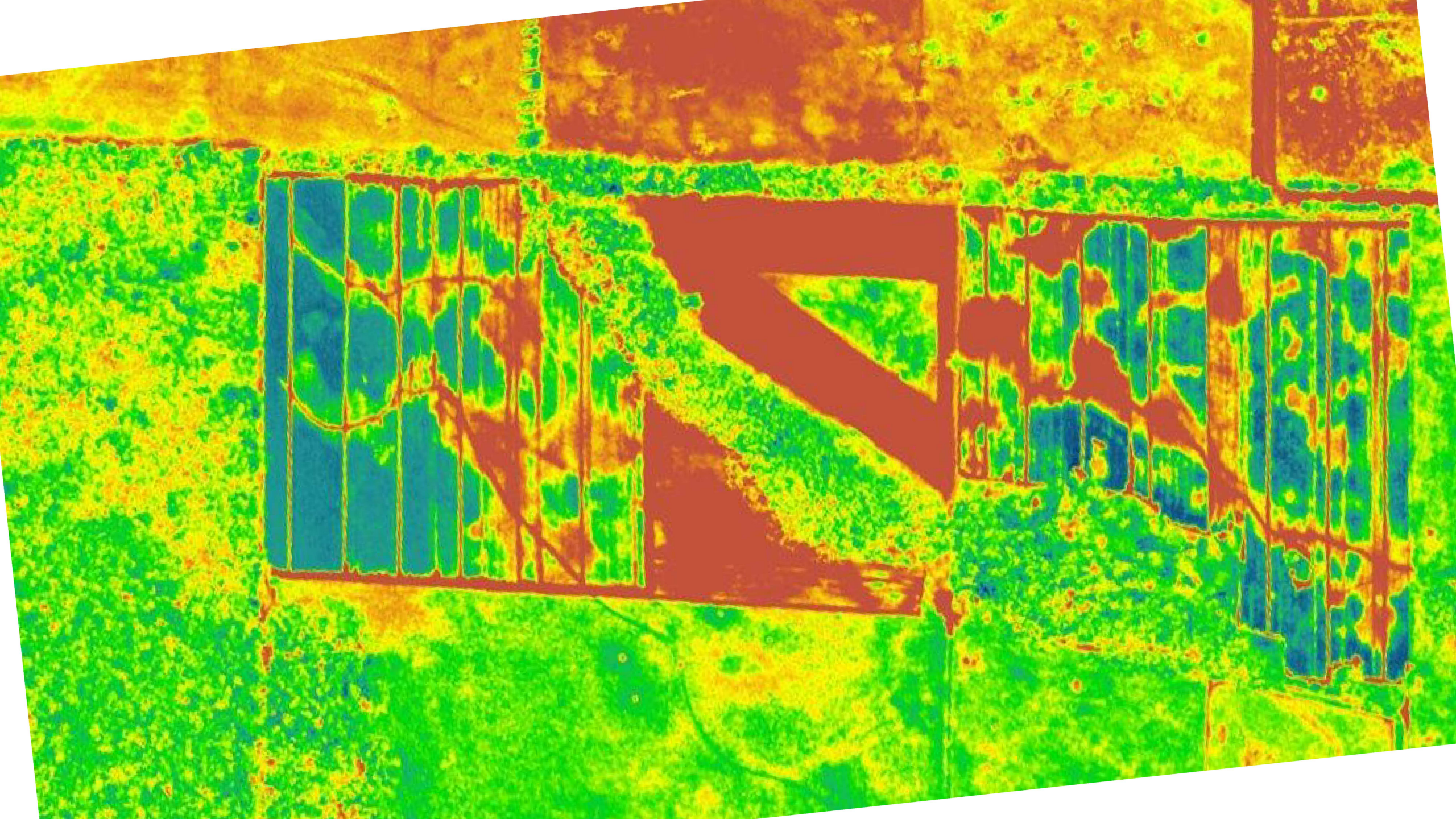
Precision
Planting

SOURCE Sc













Environment

75F

6.2

65F

Tokens

1,250 Images

1,000 Big Tomatoes

95.3%

1,250 PV

Credits

- <https://arpost.co/2019/01/18/how-augmented-reality-could-revolutionize-farming/>
- <https://www.agritecture.com/blog/2018/11/27/the-hidden-potential-of-augmented-reality-in-farming>
- <https://www.youtube.com/watch?v=NNynnV1PJrk&list=PL290561E12DD924D9&index=81&app=desktop>
- Ed's Photos
- Shutterstock
- Wikipedia (QR Code landing page)