





**Temadag: Brug af droner i landbruget**  
**Centrovic 28/11-2016**

# Disposition

*Gode / dårlige erfaringer*

Erfaringer

Barriere for anvendelse

Software løsninger

Økonomi

Landbrugsmæssige  
anvendelser - trends

## Om

- Medejer af planteavlsbedriften Tokkerupgaard I/S
- 2002 agronom
- 2003-13 rådgiver ved DHI
- 2013 indehaver af Spectrofly ApS
- 2014 indehaver af Agrohydrologerne Aps



## Barriere

- Lovgivning - VLOS
  - Professionalisering og omkostninger
- Internet
- Areal kapacitet
- Hardware
- Få business cases
- Workflow
- Integration i beslutningsprocesser



## Erfaringer

- Et "fag" som så meget andet
- Planlæg i fht. kamera/lysforhold/overlap vigtige for en god smertefri processering
- Flyvhøjde - højt generelt lettere
- Processering svær uden geotag
  - Husk dato/tid på billeder
- Batteriers tilstand bør håndteres og kontrolleres
-

## Krav og kompetencer

- Forståelse af kundernes problemer / behov
- Tid, interesse og økonomi
- Flyveerfaring
- Dronebevis
- Lovgivning
- Forståelse af billeder som datakilde
- GIS / kortprogrammer



# Barriere

- Lovgivning - VLOS
  - Professionalisering og omkostninger
- Internet
- Areal kapacitet
- Hardware
- Få business cases
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- Integration i beslutningsprocesser



WARNING

START MISSION

RESUME MISSION

GO TO START WPT

GO TO HOME WPT

GO LAND

HOLD POSITION

LAND NOW  
Click 3x

ABORT LANDING

ROLL

FAST CLIMB

FAST DESCENT

EB-01-003

0 m/ATO  
14 m/AMSL  
0:00  
Idle  
Ready to take off

55.3372631°N 12.2029172°E 14 m/AMSL (52 m/WGS84)

Camera model

S110 RGB

Mapping and mission parameters

Difficult terrain

Easy terrain

Mission area: Polygonal

Camera: S110 RGB

Ground resolution: 3.5 cm/px

Desired altitude: 100.1 m/ATO

☐ Use elevation data to set absolute waypoint altitudes

Lateral overlap: 75%

Longitudinal overlap: 75%

☐ Generate perpendicular flight lines

☒ Reversed flight direction

Save parameters as default for S110 RGB

Advanced parameters

Starting waypoint: 1 After previous

Wind estimate: 0° 0.0 m/s

Use current wind estimate

Max flight time: 40 min

Upload

Resulting flight characteristics

Number of flights: 1

Simulator

Wind: 4.9 m/s 75°

## Begrænset arealkapacitet

# Erfaringer

- Et "fag" som så meget andet
- Planlæg i fht. kamera/lysforhold/overlap vigtige for en god smertefri processering
- Flyvhøjde - højt generelt lettere
- Processering svær uden geotag
  - Husk dato/tid på billeder
- Batteriers tilstand bør håndteres og kontrolleres
  -



## Fotogrammetri software



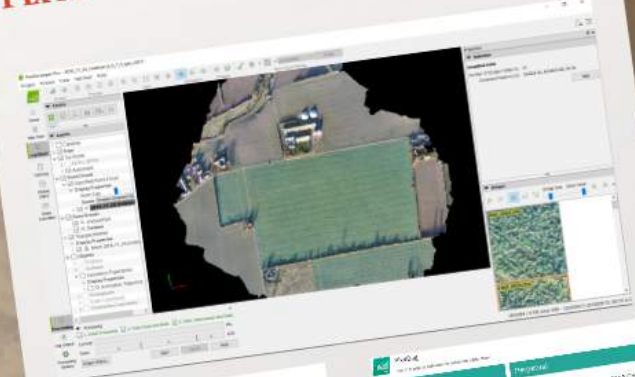
Små 100 programpakker

## DroneDeploy



7.000-21.059 dk/år

## Pix4D



55.500 kr eller 22.500 kr / år

22.400 kr eller 9800 kr / år

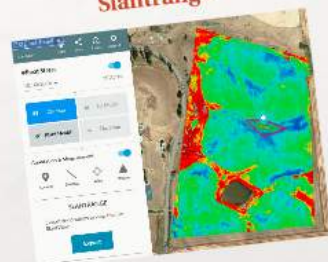
## Datamapper



Cloud /desktop  
Fra 6.700 - 31.600 kr/år  
Pris pr. analyse

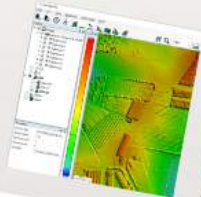


## Slantrange



Cloud service  
31.600 dk/år

## CORRELATOR3D UAV

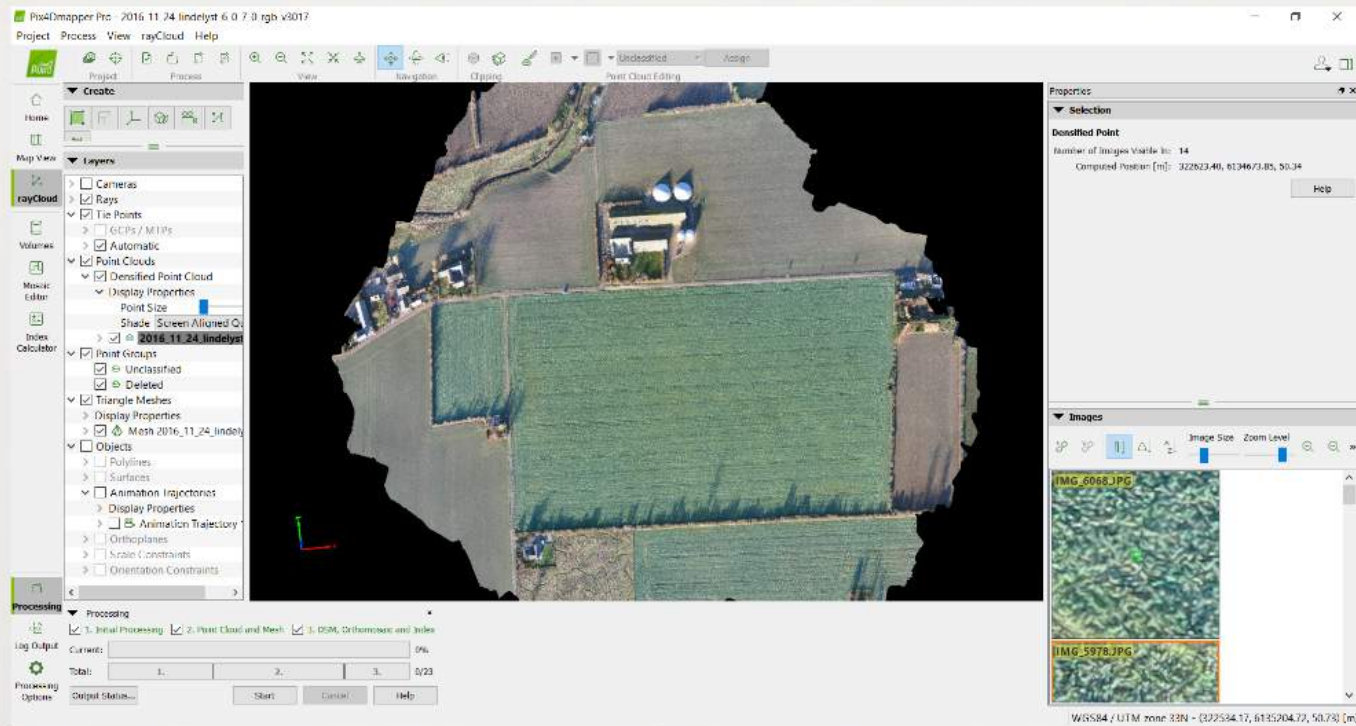


Fra 18.595 kr/år  
- Desktop  
- Ubegrænset  
- Hurtig  
- Begrænset  
- pc krav

## Små 100 programpakker

| Comprehensive Project Portfolio Overview - Q3 2024                                                                 |          |          |                       |                      |           |                     |               |                   |                 |              |                |                      |        |
|--------------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------|----------------------|-----------|---------------------|---------------|-------------------|-----------------|--------------|----------------|----------------------|--------|
| Project Details & Performance Metrics                                                                              |          |          |                       |                      |           |                     |               |                   |                 |              |                |                      |        |
| Application                                                                                                        | License  | Platform | Architecture / Design | Automatic deployment | Stability | Type of photography | Data source   | Location          | Vendor / Dealer | Device price | Online service | Time for this period |        |
| 1. Adobe Photoshop                                                                                                 | Standard | Windows  | Standard              | Yes                  | High      | Portrait            | Adobe Cloud   | San Jose, CA      | Adobe           | \$239/mo     | Yes            | Yes                  | 1 week |
| 2. Microsoft Word                                                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 3. Google Chrome                                                                                                   | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Google Cloud  | Mountain View, CA | Google          | \$0          | Yes            | Yes                  | 1 week |
| 4. Microsoft Excel                                                                                                 | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 5. Microsoft PowerPoint                                                                                            | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 6. Microsoft Outlook                                                                                               | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 7. Microsoft Access                                                                                                | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 8. Microsoft OneDrive                                                                                              | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 9. Microsoft Teams                                                                                                 | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 10. Microsoft SharePoint                                                                                           | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 11. Microsoft Dynamics 365                                                                                         | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 12. Microsoft Azure                                                                                                | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 13. Microsoft Office 365                                                                                           | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 14. Microsoft Edge                                                                                                 | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 15. Microsoft Word (Mobile)                                                                                        | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 16. Microsoft Excel (Mobile)                                                                                       | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 17. Microsoft PowerPoint (Mobile)                                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 18. Microsoft Outlook (Mobile)                                                                                     | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 19. Microsoft Access (Mobile)                                                                                      | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 20. Microsoft OneDrive (Mobile)                                                                                    | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 21. Microsoft Teams (Mobile)                                                                                       | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 22. Microsoft SharePoint (Mobile)                                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 23. Microsoft Dynamics 365 (Mobile)                                                                                | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 24. Microsoft Azure (Mobile)                                                                                       | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 25. Microsoft Office 365 (Mobile)                                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 26. Microsoft Edge (Mobile)                                                                                        | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 27. Microsoft Word (Mobile) - International                                                                        | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 28. Microsoft Excel (Mobile) - International                                                                       | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 29. Microsoft PowerPoint (Mobile) - International                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 30. Microsoft Outlook (Mobile) - International                                                                     | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 31. Microsoft Access (Mobile) - International                                                                      | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 32. Microsoft OneDrive (Mobile) - International                                                                    | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 33. Microsoft Teams (Mobile) - International                                                                       | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 34. Microsoft SharePoint (Mobile) - International                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 35. Microsoft Dynamics 365 (Mobile) - International                                                                | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 36. Microsoft Azure (Mobile) - International                                                                       | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 37. Microsoft Office 365 (Mobile) - International                                                                  | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 38. Microsoft Edge (Mobile) - International                                                                        | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 39. Microsoft Word (Mobile) - International - Spanish                                                              | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 40. Microsoft Excel (Mobile) - International - Spanish                                                             | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 41. Microsoft PowerPoint (Mobile) - International - Spanish                                                        | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 42. Microsoft Outlook (Mobile) - International - Spanish                                                           | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 43. Microsoft Access (Mobile) - International - Spanish                                                            | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 44. Microsoft OneDrive (Mobile) - International - Spanish                                                          | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 45. Microsoft Teams (Mobile) - International - Spanish                                                             | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 46. Microsoft SharePoint (Mobile) - International - Spanish                                                        | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 47. Microsoft Dynamics 365 (Mobile) - International - Spanish                                                      | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 48. Microsoft Azure (Mobile) - International - Spanish                                                             | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 49. Microsoft Office 365 (Mobile) - International - Spanish                                                        | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 50. Microsoft Edge (Mobile) - International - Spanish                                                              | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 51. Microsoft Word (Mobile) - International - Spanish - Portuguese                                                 | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 52. Microsoft Excel (Mobile) - International - Spanish - Portuguese                                                | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 53. Microsoft PowerPoint (Mobile) - International - Spanish - Portuguese                                           | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 54. Microsoft Outlook (Mobile) - International - Spanish - Portuguese                                              | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 55. Microsoft Access (Mobile) - International - Spanish - Portuguese                                               | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 56. Microsoft OneDrive (Mobile) - International - Spanish - Portuguese                                             | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 57. Microsoft Teams (Mobile) - International - Spanish - Portuguese                                                | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 58. Microsoft SharePoint (Mobile) - International - Spanish - Portuguese                                           | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 59. Microsoft Dynamics 365 (Mobile) - International - Spanish - Portuguese                                         | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 60. Microsoft Azure (Mobile) - International - Spanish - Portuguese                                                | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 61. Microsoft Office 365 (Mobile) - International - Spanish - Portuguese                                           | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 62. Microsoft Edge (Mobile) - International - Spanish - Portuguese                                                 | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 63. Microsoft Word (Mobile) - International - Spanish - Portuguese - French                                        | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 64. Microsoft Excel (Mobile) - International - Spanish - Portuguese - French                                       | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 65. Microsoft PowerPoint (Mobile) - International - Spanish - Portuguese - French                                  | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 66. Microsoft Outlook (Mobile) - International - Spanish - Portuguese - French                                     | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 67. Microsoft Access (Mobile) - International - Spanish - Portuguese - French                                      | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 68. Microsoft OneDrive (Mobile) - International - Spanish - Portuguese - French                                    | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 69. Microsoft Teams (Mobile) - International - Spanish - Portuguese - French                                       | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 70. Microsoft SharePoint (Mobile) - International - Spanish - Portuguese - French                                  | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 71. Microsoft Dynamics 365 (Mobile) - International - Spanish - Portuguese - French                                | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 72. Microsoft Azure (Mobile) - International - Spanish - Portuguese - French                                       | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 73. Microsoft Office 365 (Mobile) - International - Spanish - Portuguese - French                                  | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 74. Microsoft Edge (Mobile) - International - Spanish - Portuguese - French                                        | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 75. Microsoft Word (Mobile) - International - Spanish - Portuguese - French - German                               | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 76. Microsoft Excel (Mobile) - International - Spanish - Portuguese - French - German                              | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 77. Microsoft PowerPoint (Mobile) - International - Spanish - Portuguese - French - German                         | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 78. Microsoft Outlook (Mobile) - International - Spanish - Portuguese - French - German                            | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 79. Microsoft Access (Mobile) - International - Spanish - Portuguese - French - German                             | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 80. Microsoft OneDrive (Mobile) - International - Spanish - Portuguese - French - German                           | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 81. Microsoft Teams (Mobile) - International - Spanish - Portuguese - French - German                              | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 82. Microsoft SharePoint (Mobile) - International - Spanish - Portuguese - French - German                         | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 83. Microsoft Dynamics 365 (Mobile) - International - Spanish - Portuguese - French - German                       | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 84. Microsoft Azure (Mobile) - International - Spanish - Portuguese - French - German                              | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 85. Microsoft Office 365 (Mobile) - International - Spanish - Portuguese - French - German                         | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 86. Microsoft Edge (Mobile) - International - Spanish - Portuguese - French - German                               | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 87. Microsoft Word (Mobile) - International - Spanish - Portuguese - French - German - Italian                     | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 88. Microsoft Excel (Mobile) - International - Spanish - Portuguese - French - German - Italian                    | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 89. Microsoft PowerPoint (Mobile) - International - Spanish - Portuguese - French - German - Italian               | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 90. Microsoft Outlook (Mobile) - International - Spanish - Portuguese - French - German - Italian                  | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 91. Microsoft Access (Mobile) - International - Spanish - Portuguese - French - German - Italian                   | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 92. Microsoft OneDrive (Mobile) - International - Spanish - Portuguese - French - German - Italian                 | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 93. Microsoft Teams (Mobile) - International - Spanish - Portuguese - French - German - Italian                    | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 94. Microsoft SharePoint (Mobile) - International - Spanish - Portuguese - French - German - Italian               | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 95. Microsoft Dynamics 365 (Mobile) - International - Spanish - Portuguese - French - German - Italian             | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 96. Microsoft Azure (Mobile) - International - Spanish - Portuguese - French - German - Italian                    | Standard | Windows  | Standard              | Yes                  | High      | Cloud Computing     | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 97. Microsoft Office 365 (Mobile) - International - Spanish - Portuguese - French - German - Italian               | Standard | Windows  | Standard              | Yes                  | High      | Productivity Suite  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 98. Microsoft Edge (Mobile) - International - Spanish - Portuguese - French - German - Italian                     | Standard | Windows  | Standard              | Yes                  | High      | Web Browser         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 99. Microsoft Word (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese          | Standard | Windows  | Standard              | Yes                  | High      | Document            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 100. Microsoft Excel (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese        | Standard | Windows  | Standard              | Yes                  | High      | Spreadsheet         | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 101. Microsoft PowerPoint (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese   | Standard | Windows  | Standard              | Yes                  | High      | Presentation        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 102. Microsoft Outlook (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese      | Standard | Windows  | Standard              | Yes                  | High      | Email Client        | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 103. Microsoft Access (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese       | Standard | Windows  | Standard              | Yes                  | High      | Database            | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 104. Microsoft OneDrive (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese     | Standard | Windows  | Standard              | Yes                  | High      | Cloud Storage       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 105. Microsoft Teams (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese        | Standard | Windows  | Standard              | Yes                  | High      | Video Conferencing  | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 106. Microsoft SharePoint (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese   | Standard | Windows  | Standard              | Yes                  | High      | Collaboration       | Microsoft 365 | Redmond, WA       | Microsoft       | \$6.99/mo    | Yes            | Yes                  | 1 week |
| 107. Microsoft Dynamics 365 (Mobile) - International - Spanish - Portuguese - French - German - Italian - Japanese | Standard | Windows  | Standard              | Yes                  | High      | CRM                 | Microsoft 365 | Red               |                 |              |                |                      |        |

# Pix4D



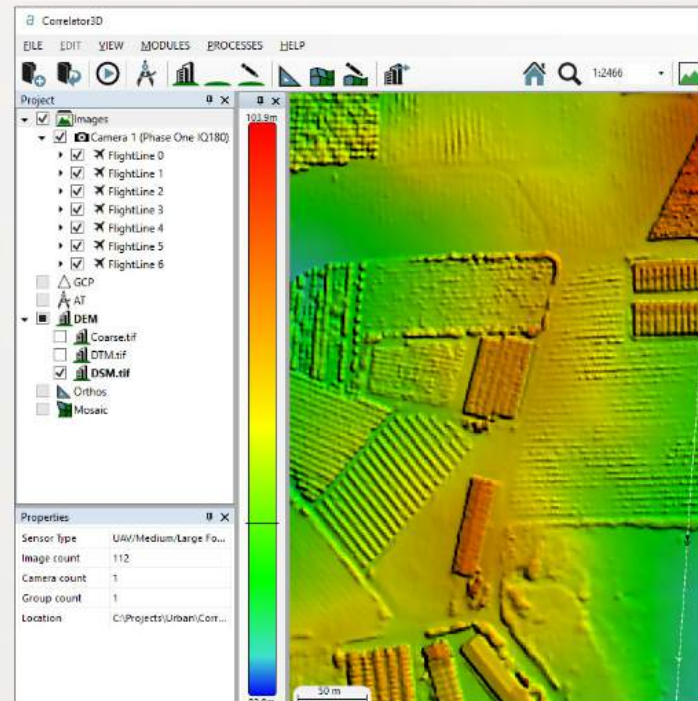
| Pix4Dmapper Pro<br>Professional drone-based mapping, purely from images                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subscription                                                                                                                                                                                                                                                                                                                                                                     | Perpetual                                                                                                                                                                                                                                                                                                                |
| <p><input checked="" type="radio"/> Yearly <b>3200 CHF</b><br/><small>Get 2 free months, save 640 CHF</small></p> <p><input type="radio"/> Monthly <b>320 CHF</b></p> <p><b>BUY NOW</b></p> <ul style="list-style-type: none"> <li>✓ Rent for 1 Year or 30 Days</li> <li>✓ Unlimited processing*</li> <li>✓ Desktop + Cloud</li> <li>✓ Support &amp; Upgrade included</li> </ul> | <p><input checked="" type="radio"/> Perpetual <b>7900 CHF</b></p> <p><b>BUY NOW</b></p> <ul style="list-style-type: none"> <li>✓ Perpetual Desktop software</li> <li>✓ Unlimited processing*</li> <li>✓ Desktop + Cloud</li> <li>✓ Support, Upgrade &amp; Cloud included for 1 Year (optional as of 2nd year)</li> </ul> |

55.500 kr eller 22.500 kr /år

| Pix4Dag<br>Drone mapping software for precision agriculture                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subscription                                                                                                                                                                                                                                                                                                                                                                     | Perpetual                                                                                                                                                                                                                                                                                                                |
| <p><input checked="" type="radio"/> Yearly <b>1399 CHF</b><br/><small>Get 2 free months, save 279 CHF</small></p> <p><input type="radio"/> Monthly <b>139 CHF</b></p> <p><b>BUY NOW</b></p> <ul style="list-style-type: none"> <li>✓ Rent for 1 Year or 30 Days</li> <li>✓ Unlimited processing*</li> <li>✓ Desktop + Cloud</li> <li>✓ Support &amp; Upgrade included</li> </ul> | <p><input checked="" type="radio"/> Perpetual <b>3190 CHF</b></p> <p><b>BUY NOW</b></p> <ul style="list-style-type: none"> <li>✓ Perpetual Desktop software</li> <li>✓ Unlimited processing*</li> <li>✓ Desktop + Cloud</li> <li>✓ Support, Upgrade &amp; Cloud included for 1 Year (optional as of 2nd year)</li> </ul> |

22.400 kr eller 9800 kr /år

# CORRELATOR3D UAV



## BUY CORRELATOR3D UAV

Includes all modules and tools. Supports cameras up to 50 megapixels.

### MONTHLY

One license for 30 consecutive days.  
Support and software updates included.

250 EUR/month

SUBSCRIBE

### YEARLY

One license for 365 consecutive days.  
Support and software updates included.

2,500 EUR/year

SUBSCRIBE

### PERMANENT

One permanent license.  
Support and software updates included for one year (optional maintenance renewal cost 750 EUR/year).

5,000 EUR

BUY

### PERMANENT FLOATING

One permanent floating license.  
Support and software updates included for one year (optional maintenance renewal cost 818 EUR/year).

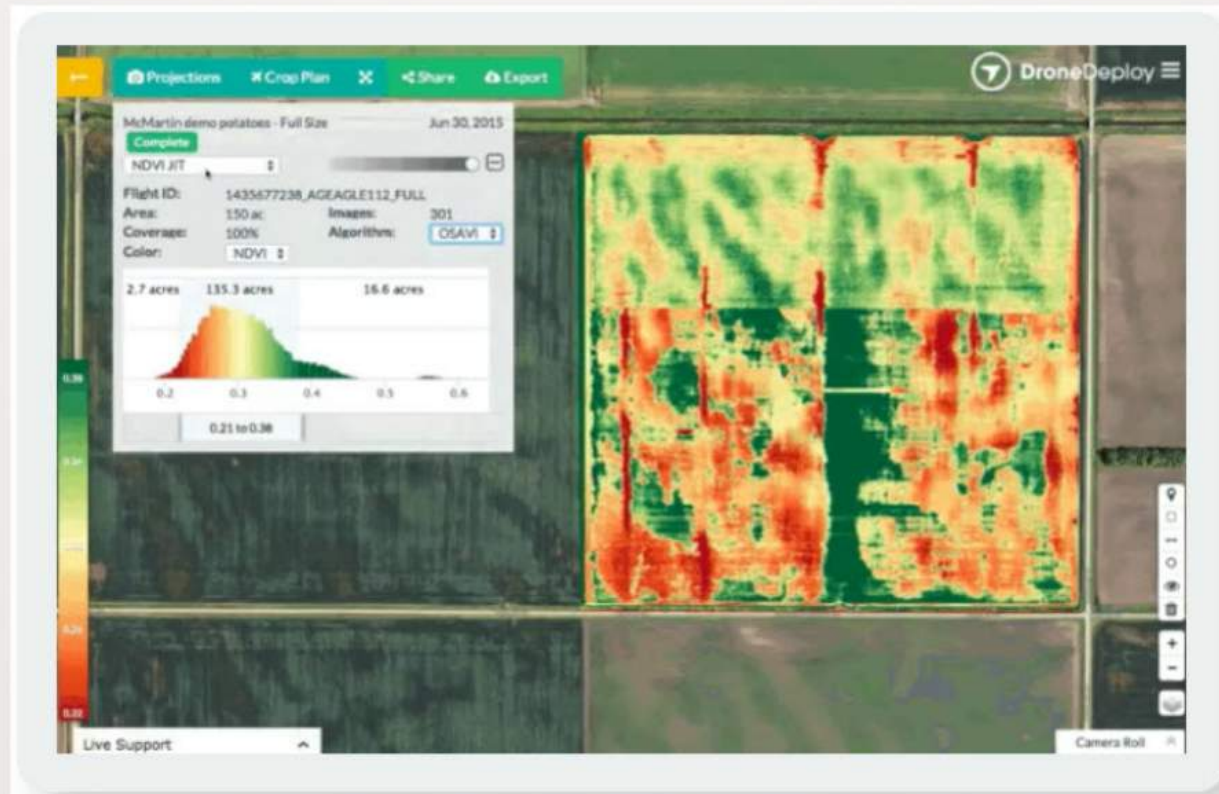
5,450 EUR

BUY

Fra 18.595 kr/år

- Desktop
- Ubegrænset processering
- Hurtig
- Begrænsede pc krav

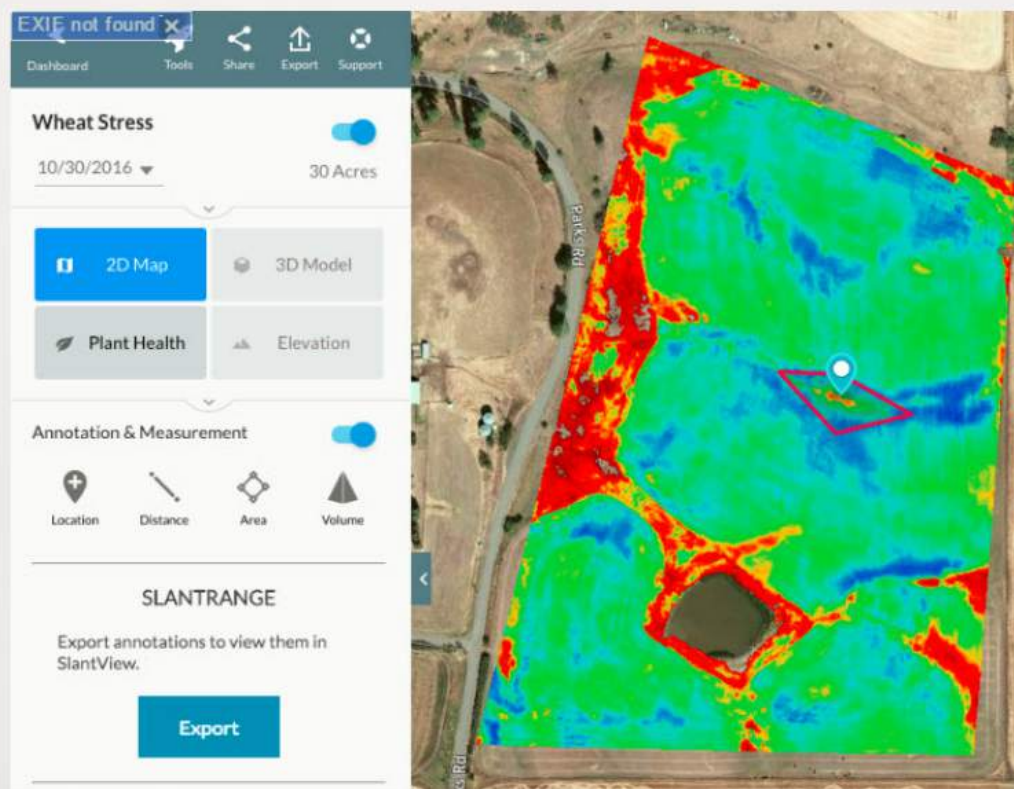
# DroneDeploy



|                           | Explorer                    | Pro                              | Business                                                                    |
|---------------------------|-----------------------------|----------------------------------|-----------------------------------------------------------------------------|
|                           | Free                        | \$999 /yr<br>16% Savings         | \$2999 /yr<br>16% Savings<br><small>\$3999/yr for up to 3000 photos</small> |
|                           | <a href="#">Sign Up Now</a> | <a href="#">Start Free Trial</a> | <a href="#">Contact Us</a>                                                  |
| Map + 3D Model Processing | 5 / month                   | Unlimited                        | Unlimited                                                                   |
| Max Photo Upload per Map  | 500                         | 1,000                            | 3,000                                                                       |
| Max 2D Resolution         | 5 cm/pixel                  | 2 cm/pixel                       | 1 cm/pixel                                                                  |
| Processing Priority       | +                           | ++                               | +++                                                                         |
| Support                   | Community                   | Email + Chat                     | Email + Chat                                                                |
| Android + iOS Mobile App  | ✓                           | ✓                                | ✓                                                                           |

7.000-21.059 dk/år

# Slantrange



## 2. PICK YOUR SLANTVIEW PLAN

Select one of the SLANTVIEW plans below. All of our plans include unlimited processing, no per acre charges, no per map charges, unlimited installations, all software updates, and full customer support.

Select an option...

| BEST VALUE                                                                                                                           |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>6</b><br>6 Month Plan<br>for SLANTRANGE 2p | <br><b>12</b><br>12 Month Plan<br>for SLANTRANGE 2p<br><i>12% savings</i> |
| 6 Months - 2p<br>\$2,550                                                                                                             | 12 Months - 2p<br>\$4,500                                                                                                                                    |

**Cloud service**  
**31.600 dk/år**

# Scouting og mapping

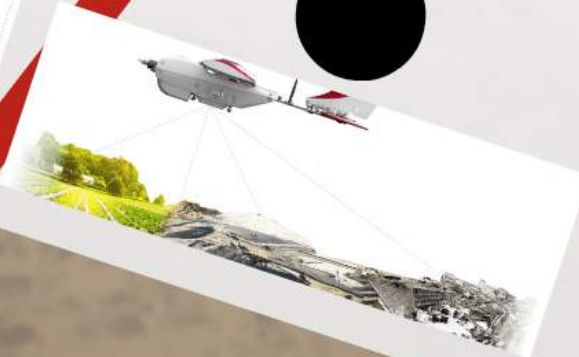


Målrettet rådgivning og driftsledelse  
Tilsyn med højt værdiafgrøder

## A collection of drone-related equipment is displayed on a white surface. It includes two drones: a smaller black quadcopter on the left and a larger black and red quadcopter on the right. In the center, there is a tablet showing a flight map and a smartphone. To the right of the tablet is a black carrying case with a handle and a strap.

Cloud /desktop  
Fra 6.700 - 31.600 kr/år  
Pris pr. analyse

|                                     | LITE<br>100% BAKED BREAD | VERY BASIC<br>STANDARD | STANDARD+  | BUSINESS   |
|-------------------------------------|--------------------------|------------------------|------------|------------|
| GOLD SALAD \$10.00/100% BAKED BREAD | \$4.90/AN                | \$9.50/AN              | \$24.00/AN | \$45.00/AN |
| SUPPES                              | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| SANDWICHES                          | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| BURGERS                             | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| SIDES                               | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| DRINKS                              | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| DESSERTS                            | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| SALES TAX                           | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |
| TOTAL                               | \$2.00/AN                | \$2.00/AN              | \$2.00/AN  | \$2.00/AN  |

[illegible]

### Wheat Stress

10/30/2014 →

## 11. SUMMARY

Plant Health

Annotation &amp; Measure

2



SLA

100

Export annotations  
SlantView

100%



## PICK YOUR SLAN

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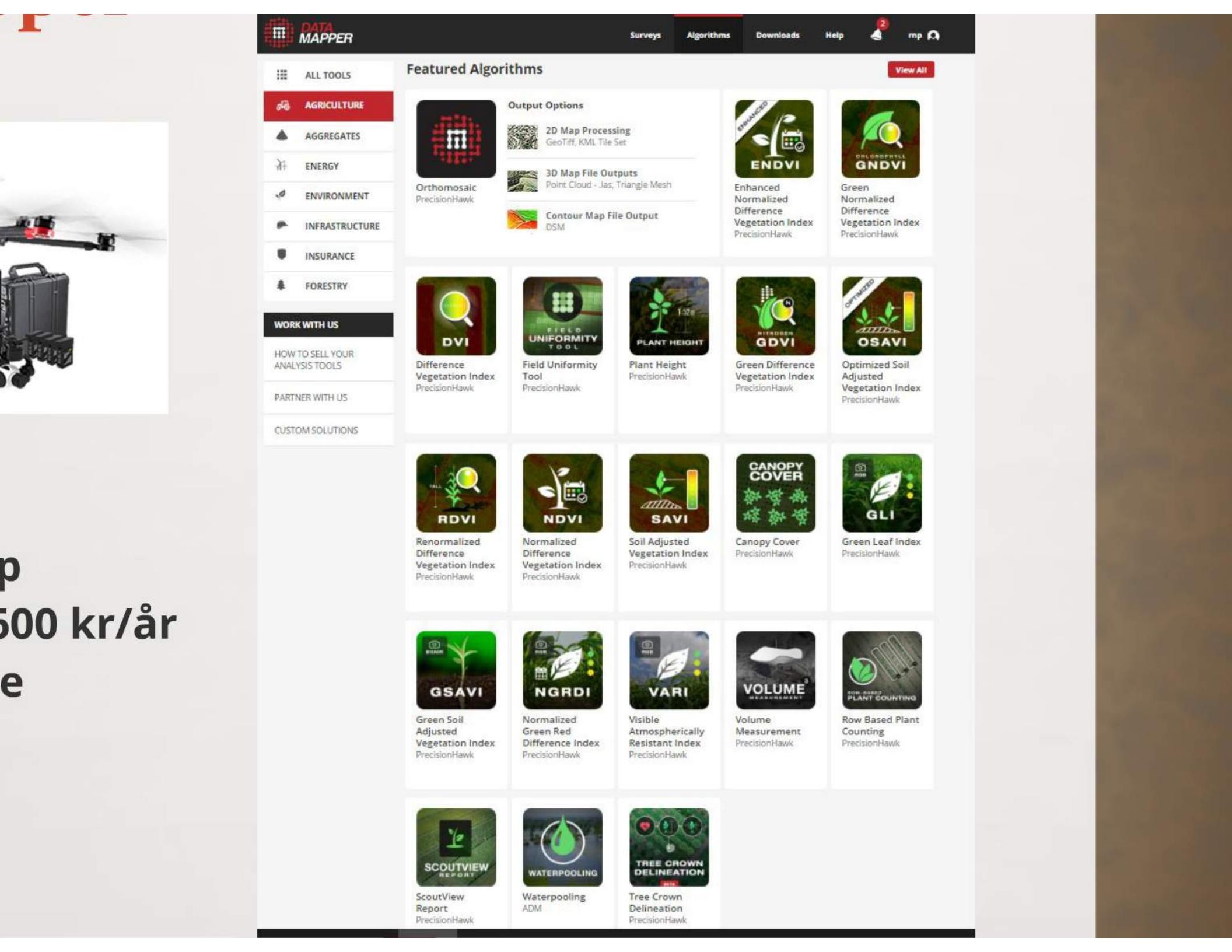
Select an option.

4

800-441-7447  
 For SUBMITTER USE

5. **What is the purpose of the 'if' statement in the code?**

---



ALL TOOLS

AGRICULTURE

AGGREGATES

ENERGY

ENVIRONMENT

INFRASTRUCTURE

INSURANCE

FORESTRY

WORK WITH US

HOW TO SELL YOUR  
ANALYSIS TOOLS

PARTNER WITH US

CUSTOM SOLUTIONS

Featured Algorithms

View All



Orthomosaic  
PrecisionHawk

Output Options



2D Map Processing  
GeoTiff, KML Tile Set



3D Map File Outputs  
Point Cloud - .las, Triangle Mesh



Contour Map File Output  
DSM



Enhanced  
Normalized  
Difference  
Vegetation Index  
PrecisionHawk



Green  
Normalized  
Difference  
Vegetation Index  
PrecisionHawk



Difference  
Vegetation Index  
PrecisionHawk



Field Uniformity  
Tool  
PrecisionHawk



Plant Height  
PrecisionHawk



Green Difference  
Vegetation Index  
PrecisionHawk



Optimized Soil  
Adjusted  
Vegetation Index  
PrecisionHawk



Renormalized  
Difference  
Vegetation Index  
PrecisionHawk



Normalized  
Difference  
Vegetation Index  
PrecisionHawk



Soil Adjusted  
Vegetation Index  
PrecisionHawk



Canopy Cover  
PrecisionHawk



Green Leaf Index  
PrecisionHawk



Green Soil  
Adjusted  
Vegetation Index  
PrecisionHawk



Normalized  
Green Red  
Difference Index  
PrecisionHawk



Visible  
Atmospherically  
Resistant Index  
PrecisionHawk



Volume  
Measurement  
PrecisionHawk



Row Based Plant  
Counting  
PrecisionHawk



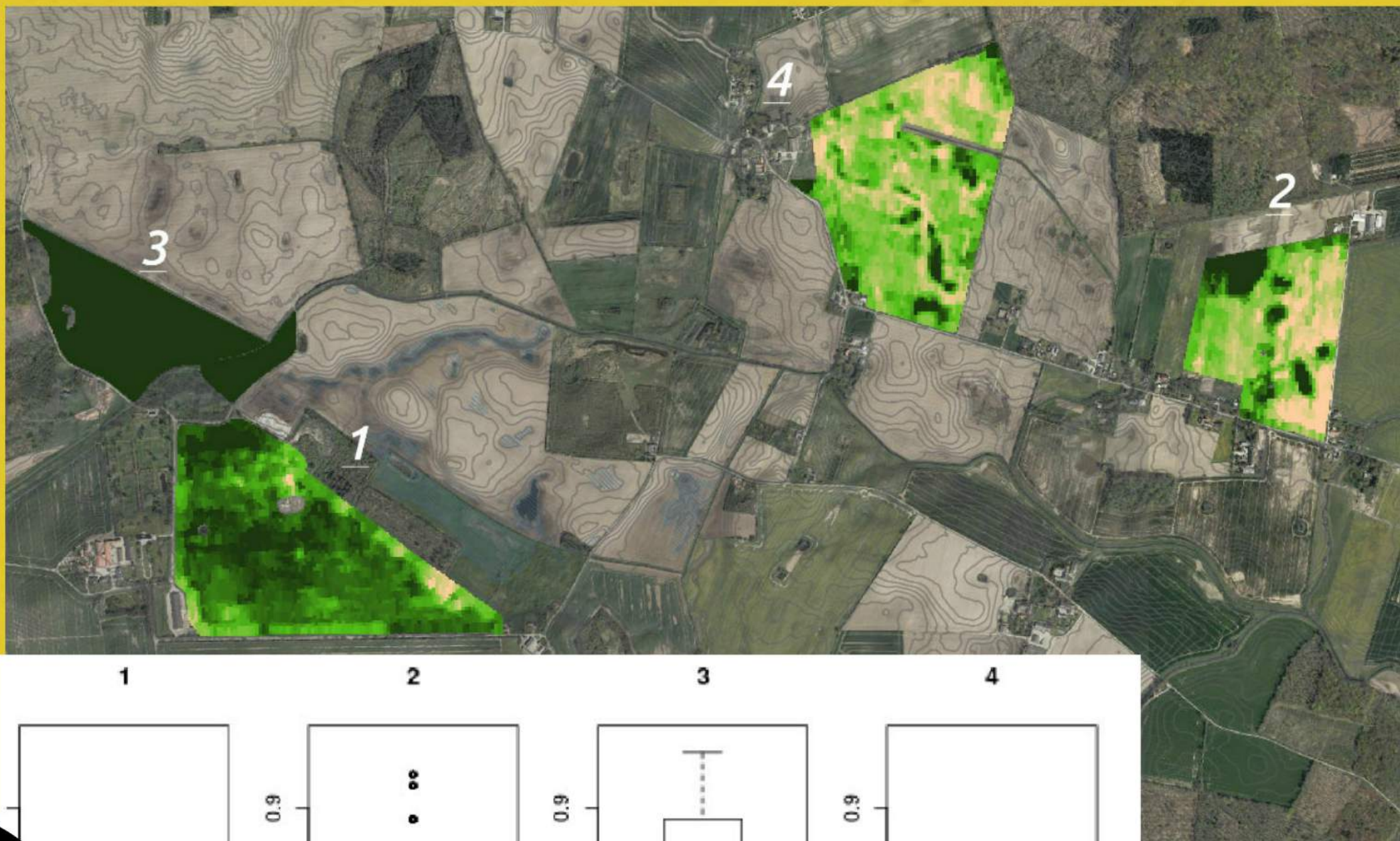
ScoutView  
Report  
PrecisionHawk



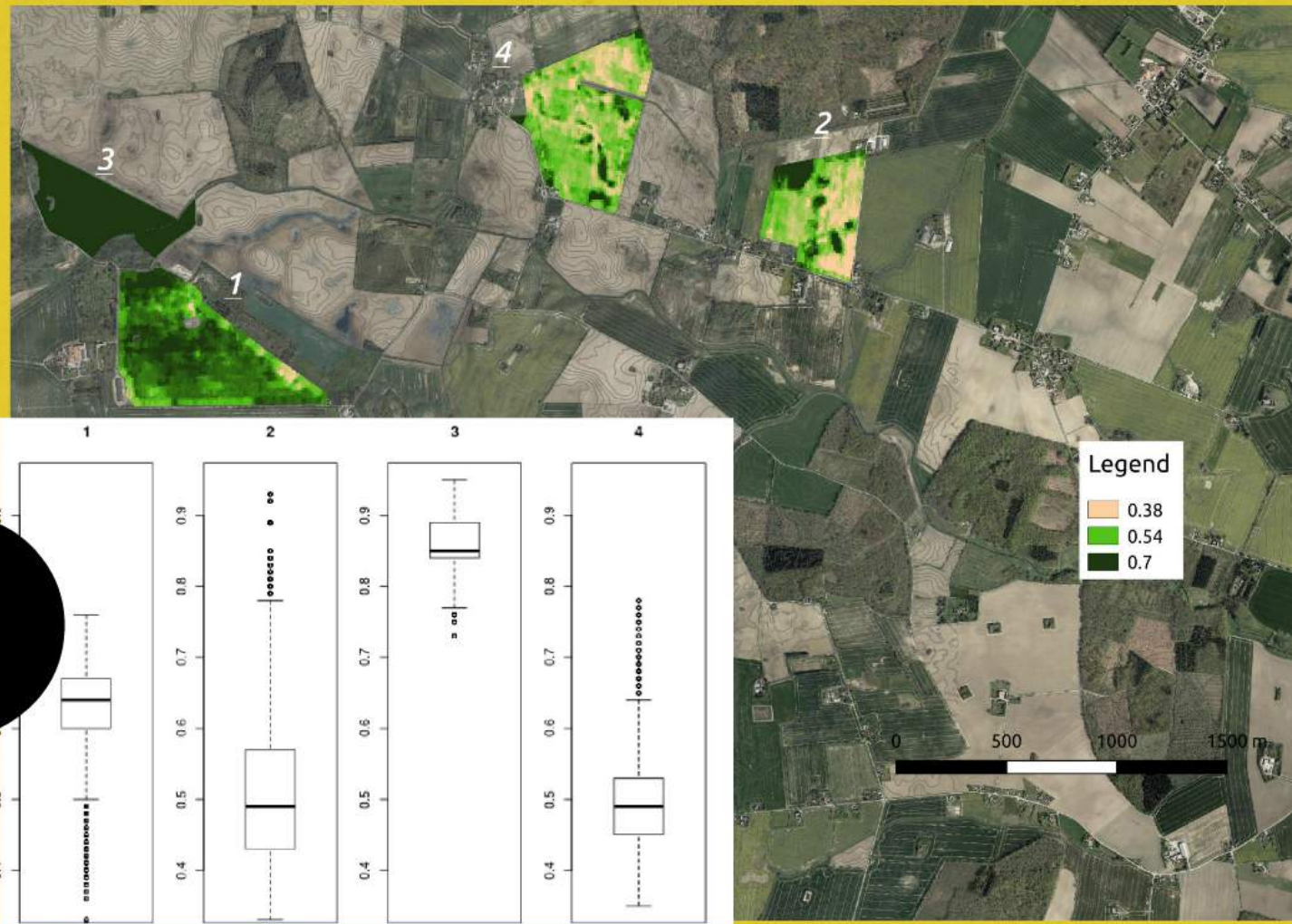
Waterpooling  
ADM



Tree Crown  
Delineation  
PrecisionHawk

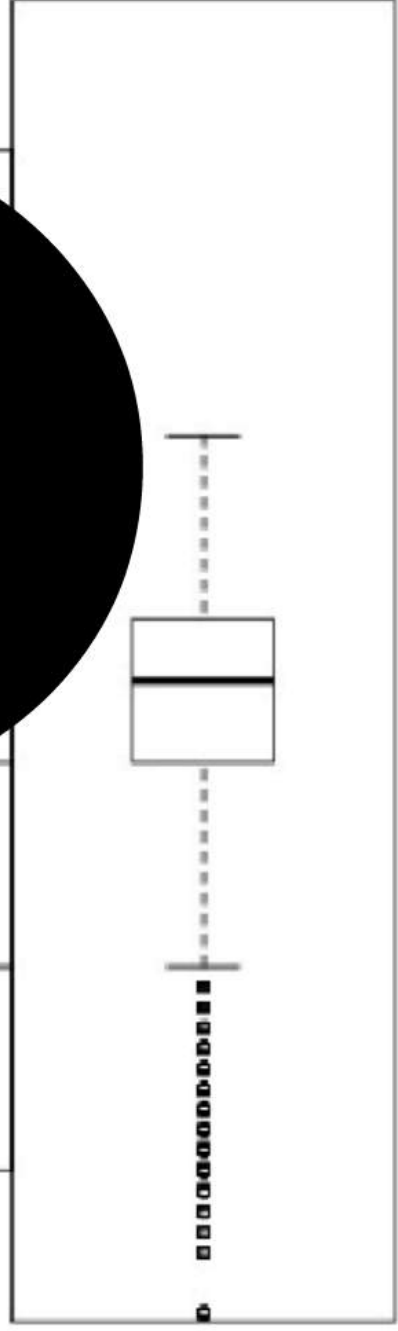


# Hvornår er der variation nok til den er økonomisk interessant?

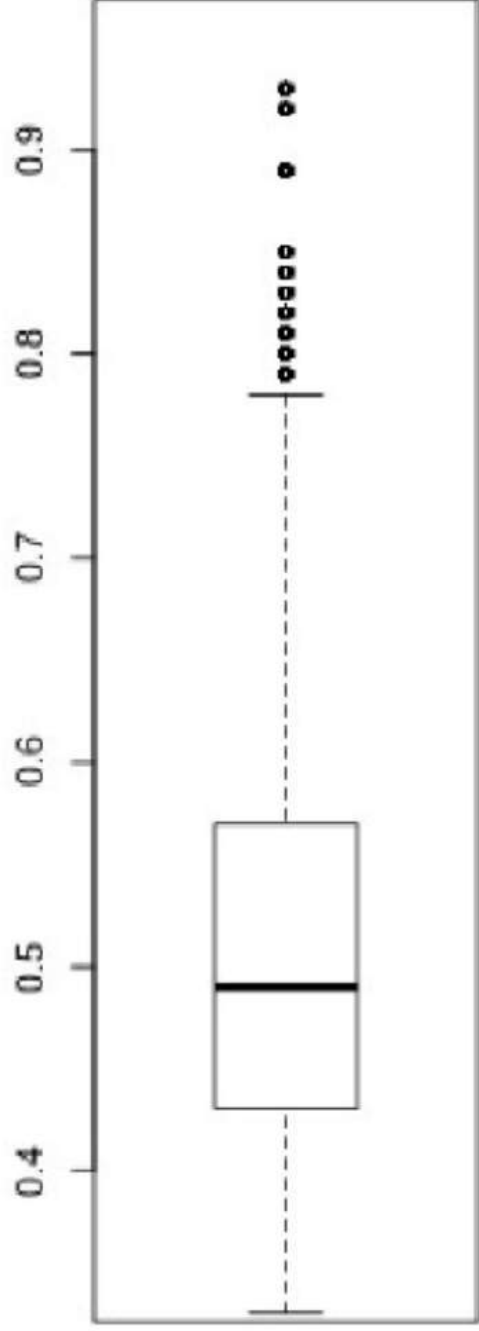




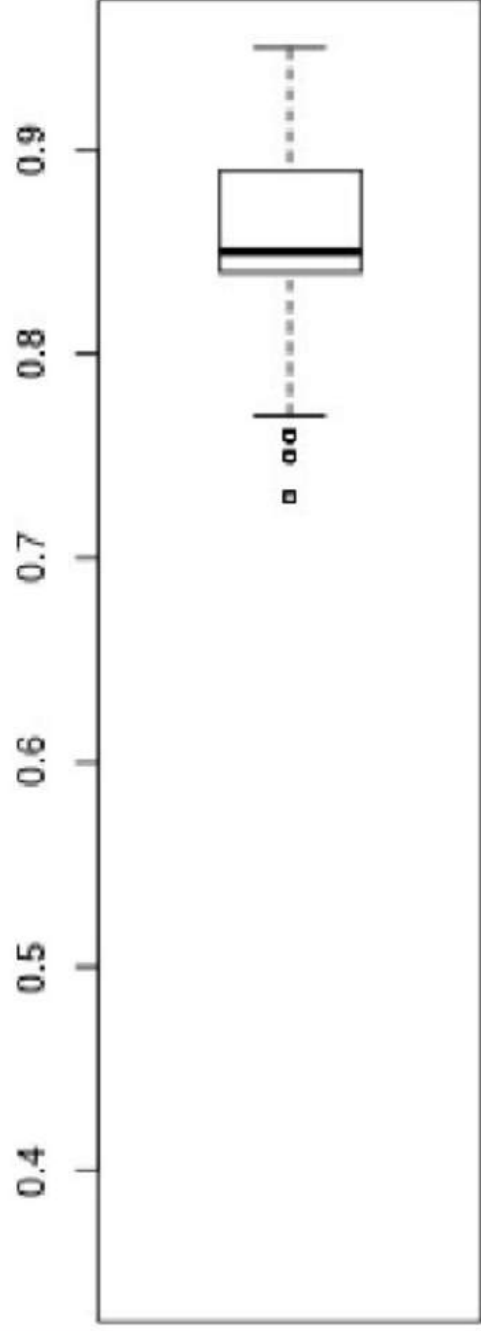
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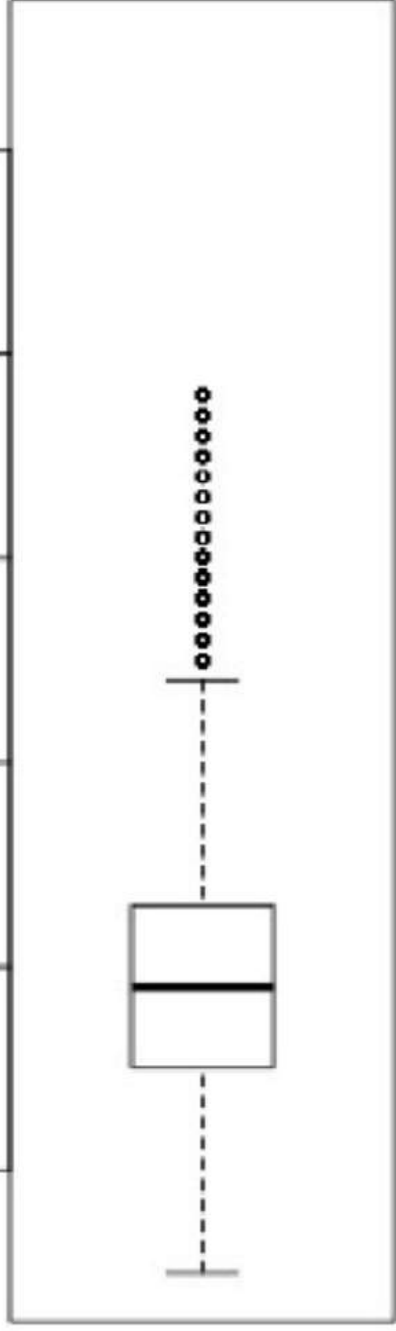
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3



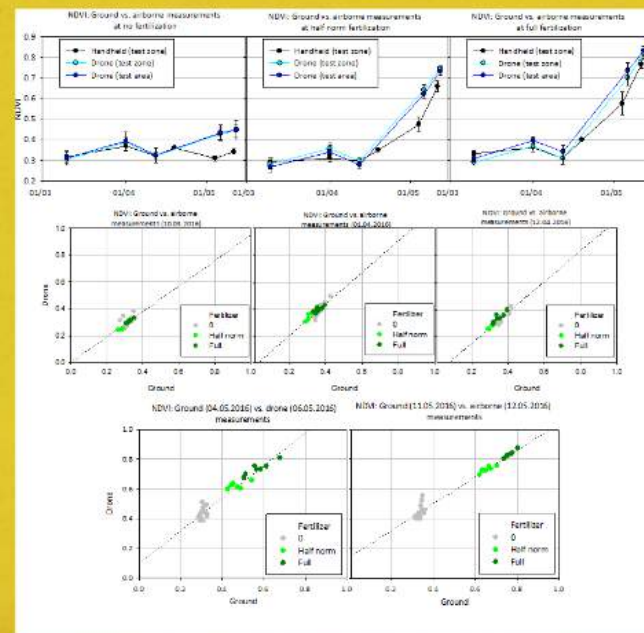
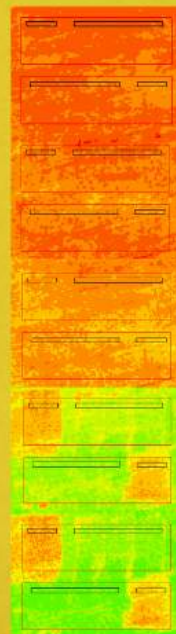
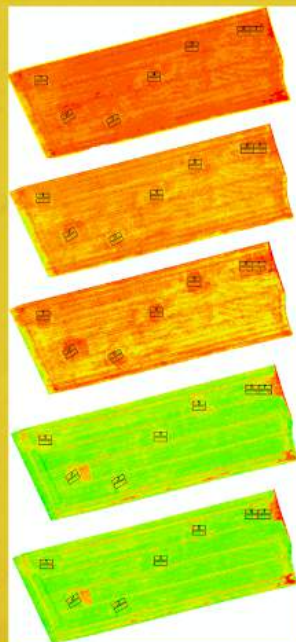
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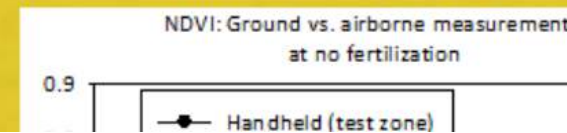
# Hvor gode er målinger fra luften?

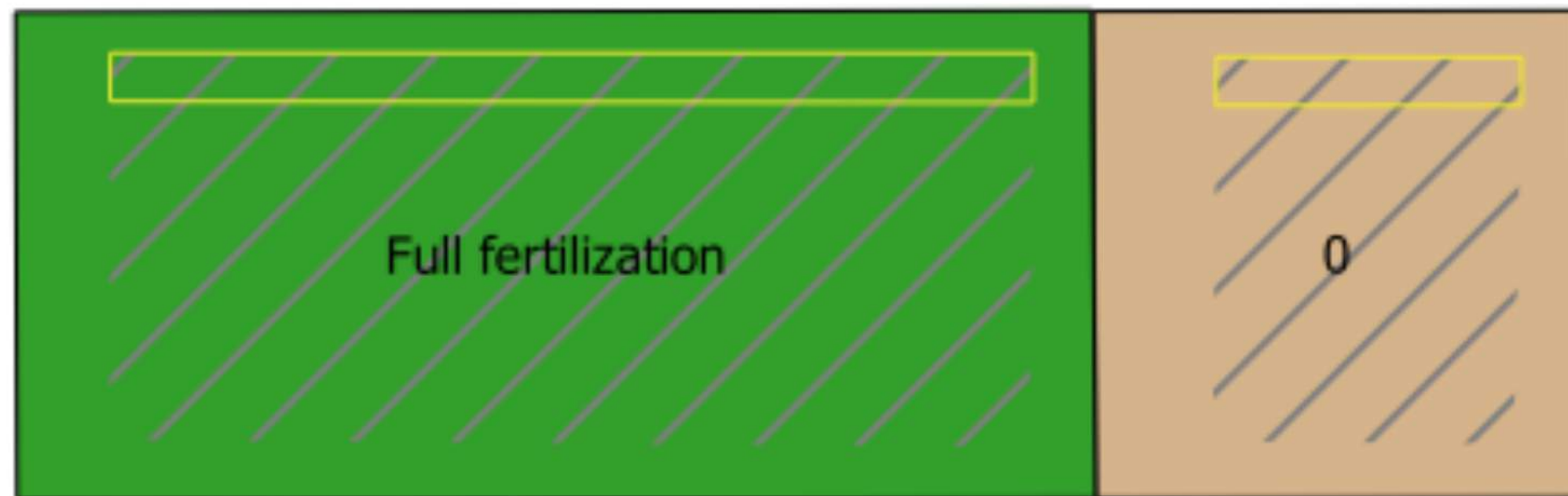
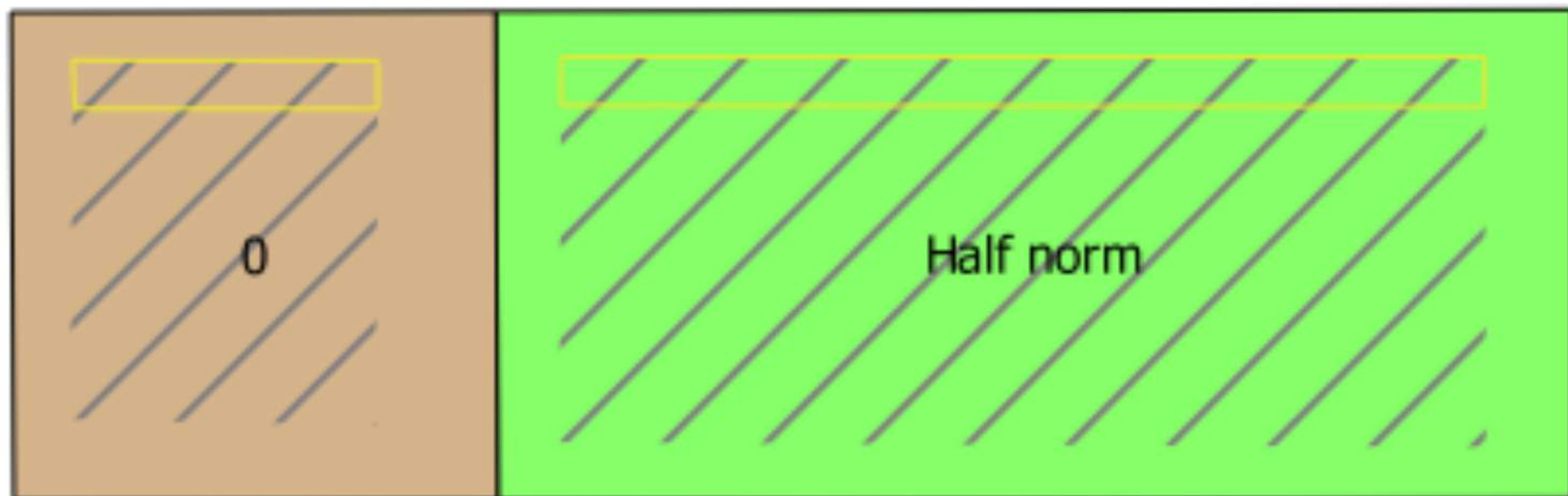
## Resultater afvandingsforsøg i Tokkerup

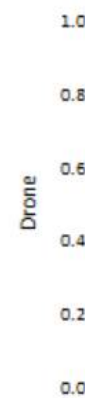
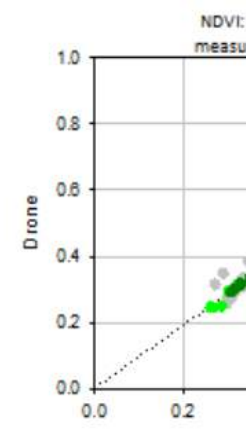
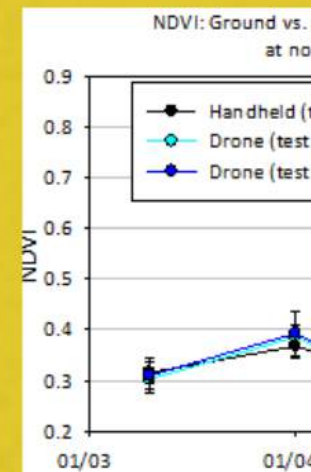
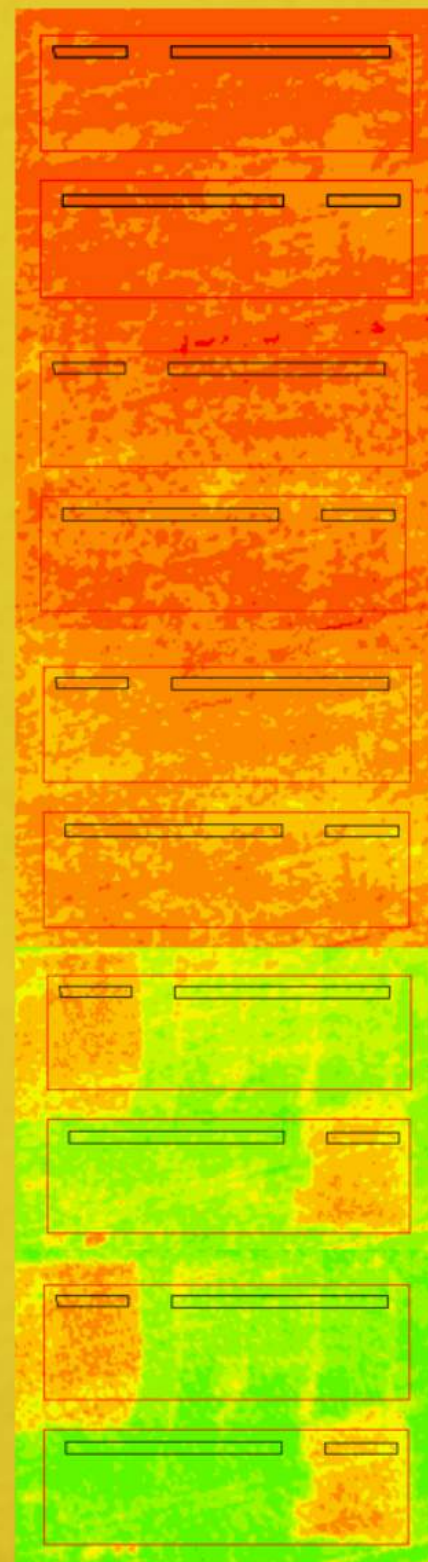
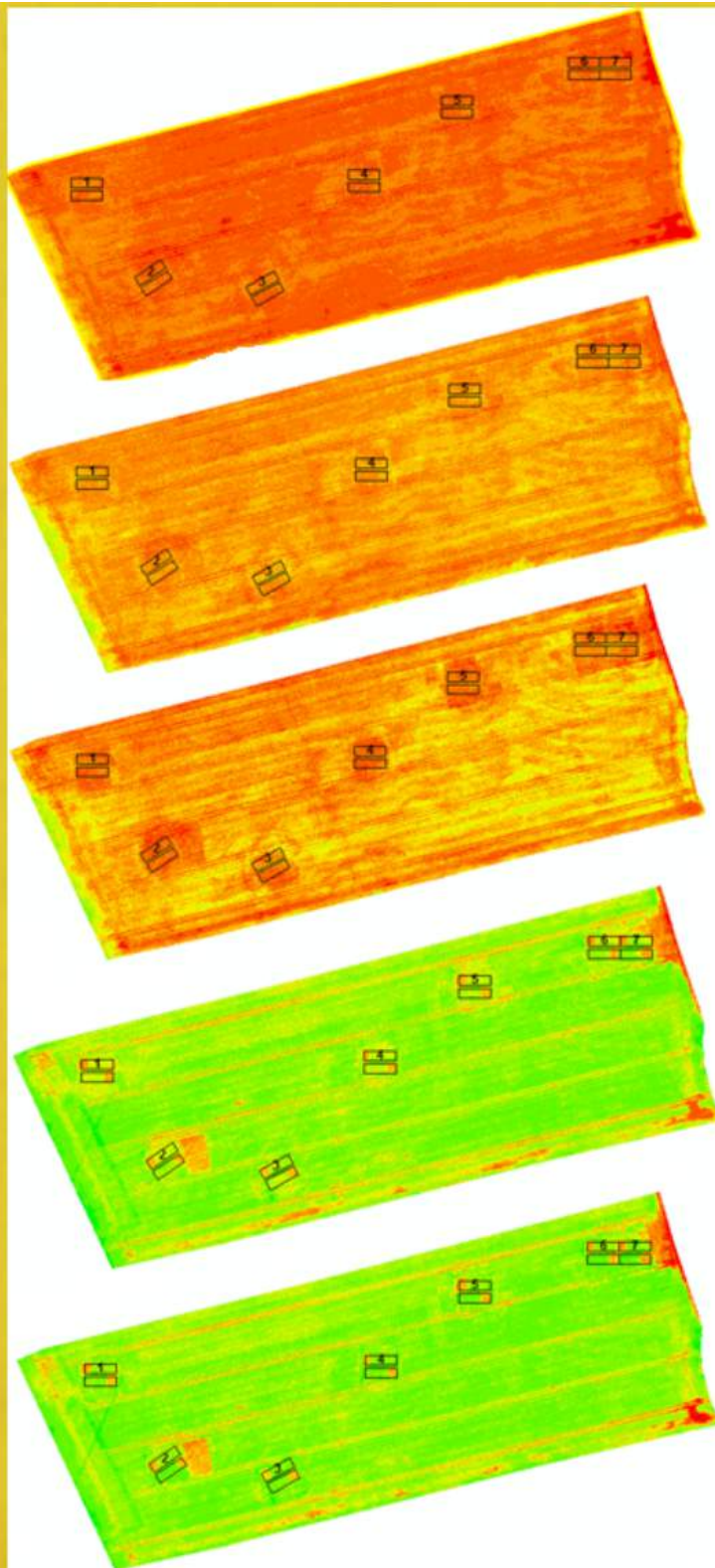
- Sammenligning af reflektansmålinger målt håndholdt og fra luften

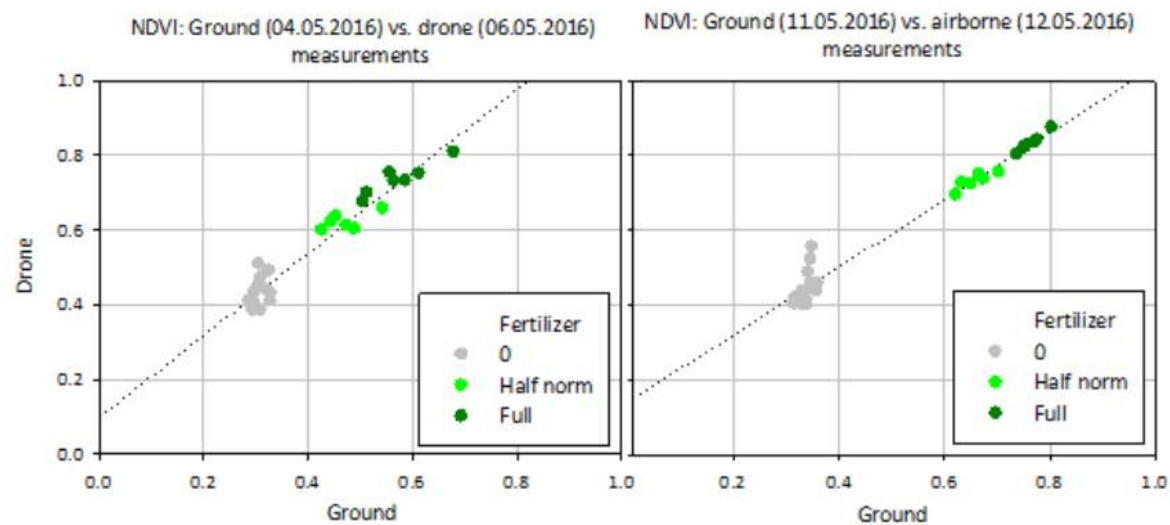
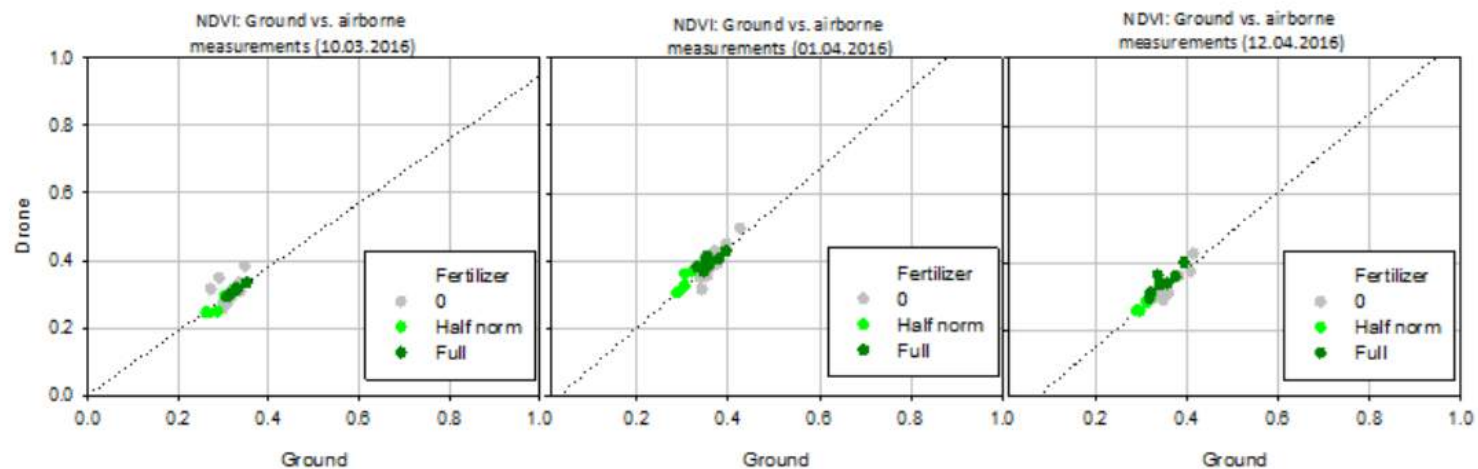
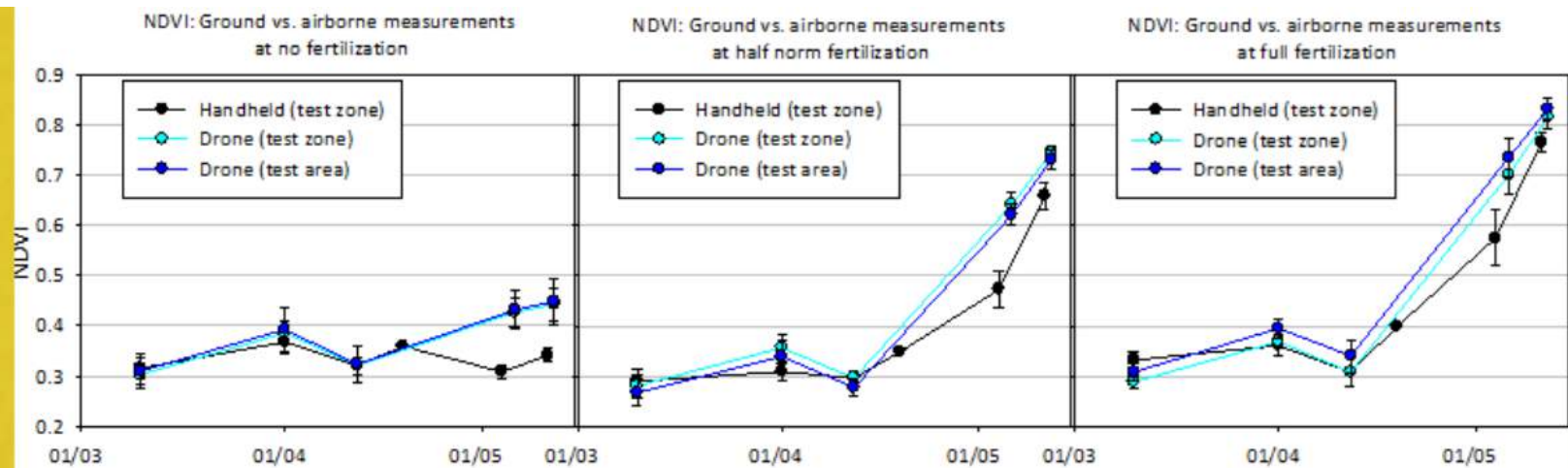


# målt håndholdt og fra









# Simple tildelingskort



## Cropsat: 11/6 & 24/7



## 100 timers flyvning service (3 år)

15.000 dkr

- Motor
- Servos
- Pietotube
- Højdemåler
- Antenne



Batteriforbrug på 100 timer: 10 stk

## US survey

11000 landmænd adspurgte om de vil købe  
en drone eller købe en service.

36 % Købe  
49 % Service

## Simple tildelingskort



| Parcel | Area (ha) | Area (ha) | Area (ha) |
|--------|-----------|-----------|-----------|
| 1      | 1.2       | 1.2       | 1.2       |
| 2      | 1.2       | 1.2       | 1.2       |
| 3      | 1.2       | 1.2       | 1.2       |
| 4      | 1.2       | 1.2       | 1.2       |
| 5      | 1.2       | 1.2       | 1.2       |
| 6      | 1.2       | 1.2       | 1.2       |
| 7      | 1.2       | 1.2       | 1.2       |
| 8      | 1.2       | 1.2       | 1.2       |
| 9      | 1.2       | 1.2       | 1.2       |
| 10     | 1.2       | 1.2       | 1.2       |

## Cropsat: 11/6 & 24/7



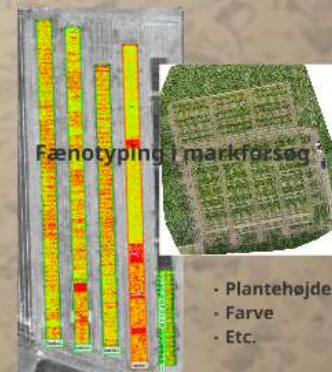
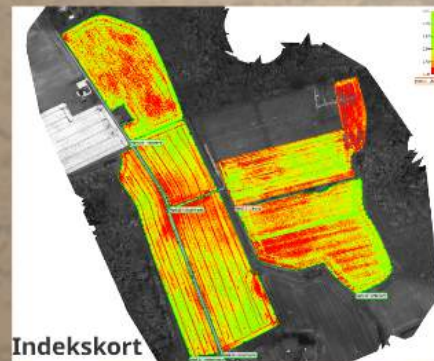
## **US survey**

**11000 landmænd adspurgte om de vil købe  
en drone eller købe en service.**

**36 % Købe**

**49 % Service**

# Landbrugsmæssige anvendelser



# Scouting og mapping



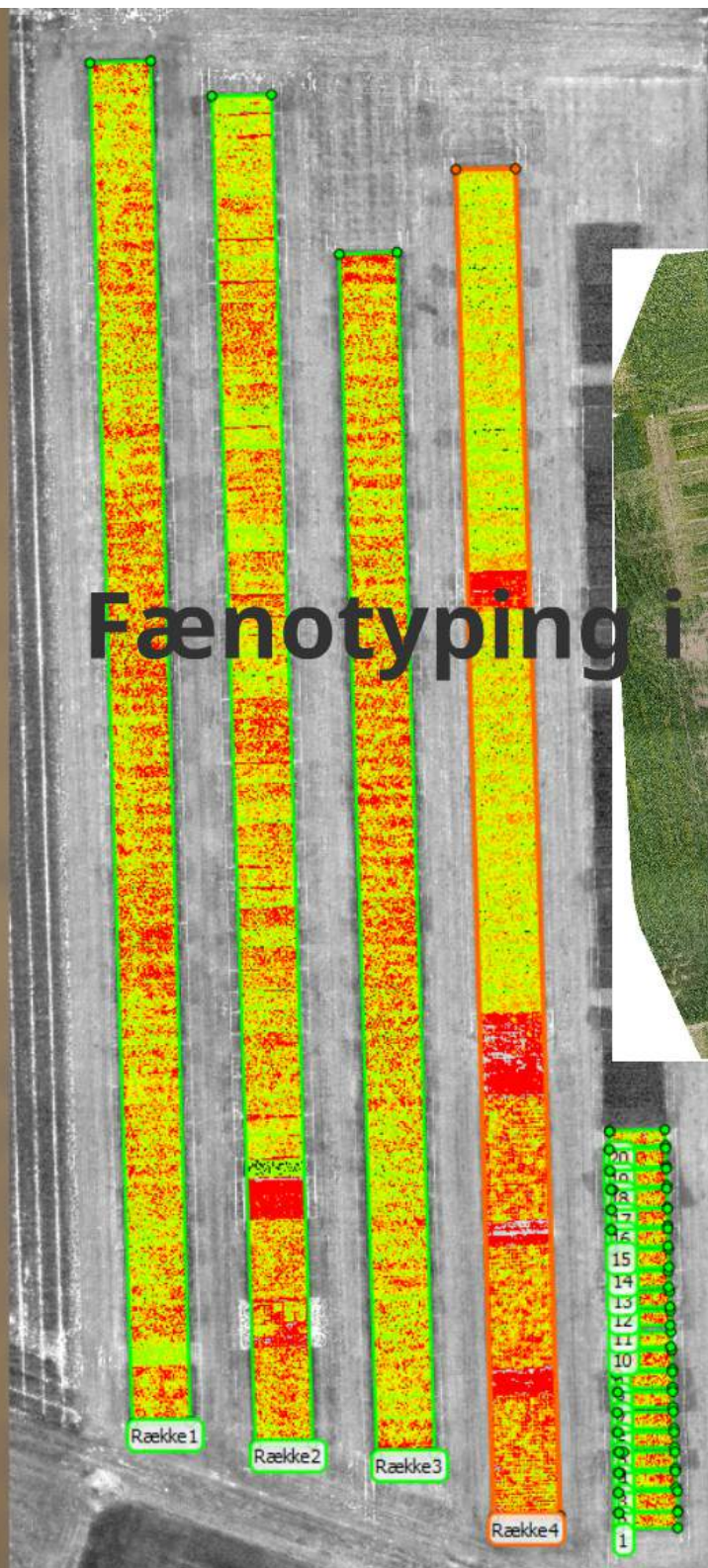
**Målrettet rådgivning og driftsledelse  
Tilsyn med højt værdiafgrøder**

An aerial orthomosaic image of a harvested agricultural field. The field is covered in numerous dark, curved lines representing drainage ditches, traffic tracks from heavy machinery, and spray patterns. The top of the image shows a road with the label 'Køgevej' repeated several times. In the top right corner, there is a small box with the text 'Orthomosaic opacity:'.

# Dokumentation

**Kortlægning af dræn, trafikskader,  
sprøjteskader, kabler**

# Fænotyping i markforsøg



- Plante højde
- Farve
- Etc.

# Indekskort



# Sygdomsovervågning



