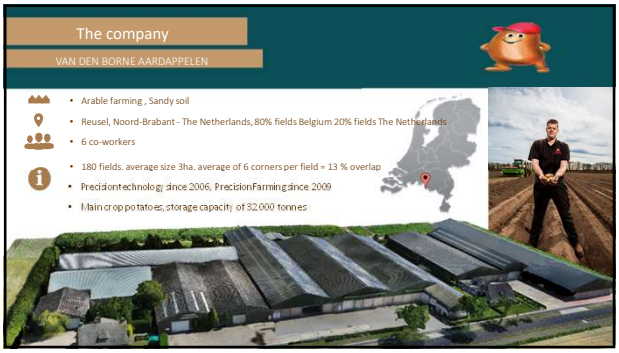
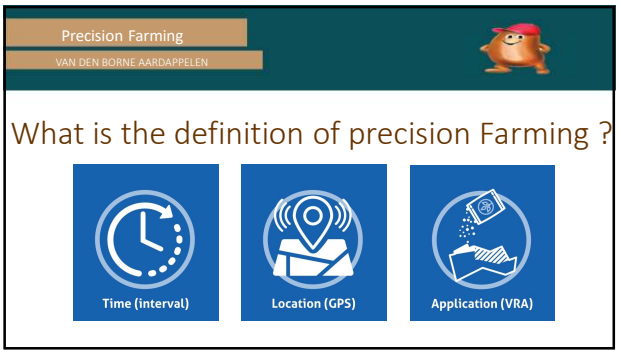

van den borne
aardappelen

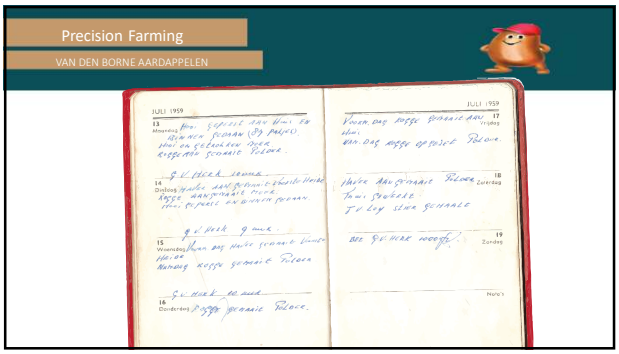
1


The company
VAN DEN BORNE AARDAPPELEN
Arable farming , Sandy soil
Reusel, Noord-Brabant - The Netherlands, 80% fields Belgium 20% fields The Netherlands
6 co-workers
180 fields. average size 3ha. average of 6 corners per field = 13 % overlap
Precisiontechnology since 2006, PrecisionFarming since 2009
Main crop potatoes, storage capacity of 32.000 tonnes

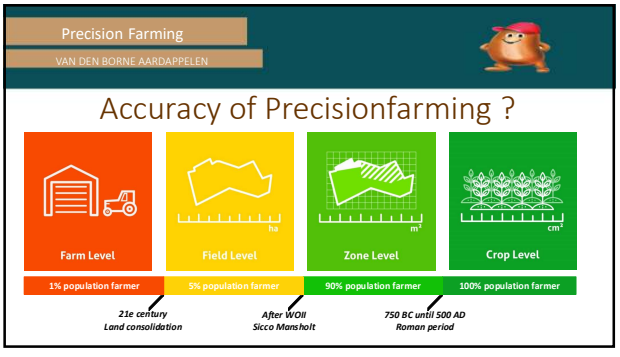
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Precision Farming
VAN DEN BORNE AARDAPPELEN
What is the definition of precision Farming ?
Time (interval)
Location (GPS)
Application (VRA)

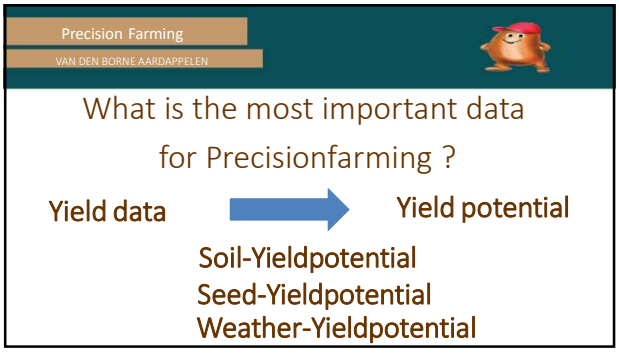
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Precision Farming
VAN DEN BORNE AARDAPPELEN

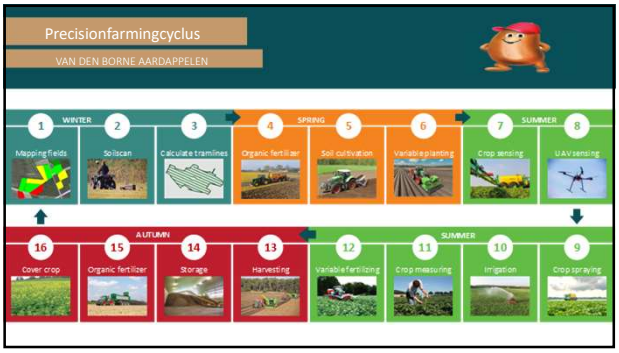
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Precision Farming
VAN DEN BORNE AARDAPPELEN
Accuracy of Precisionfarming ?
Farm Level
Field Level
Zone Level
Crop Level
1% population farmer
5% population farmer
90% population farmer
100% population farmer
21e century
Land consolidation
After WOII
Sicco Mansholt
750 BC until 500 AD
Roman period

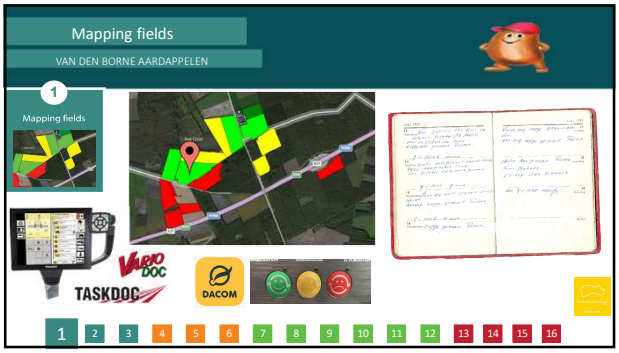
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Precision Farming
VAN DEN BORNE AARDAPPELEN
What is the most important data
for Precisionfarming ?
Yield data
Yield potential
Soil-Yieldpotential
Seed-Yieldpotential
Weather-Yieldpotential

6


Precisionfarmingcyclus
VAN DEN BORNE AARDAPPELEN
WINTER
SPRING
SUMMER
AUTUMN
Mapping fields
Soilscan
Calculate tramlines
Organic fertilizer
Soil cultivation
Variable planting
Crop sensing
UAV sensing
Cover crop
Organic fertilizer
Storage
Harvesting
Variable fertilizing
Crop measuring
Irrigation
Crop spraying

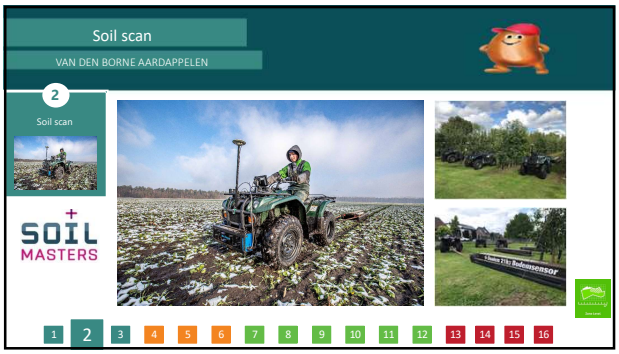
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Mapping fields
VAN DEN BORNE AARDAPPELEN
Mapping fields
VARIO DOC
TASKDOC
DACOM

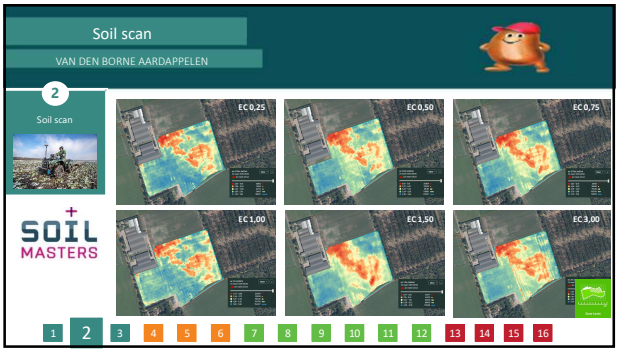
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Mapping fields
VAN DEN BORNE AARDAPPELEN
Mapping fields
DACOM
VARIO DOC
TASKDOC

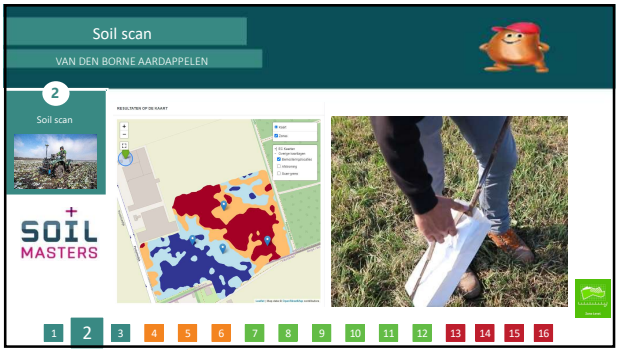
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Soil scan
VAN DEN BORNE AARDAPPELEN
Soil scan
SOIL MASTERS

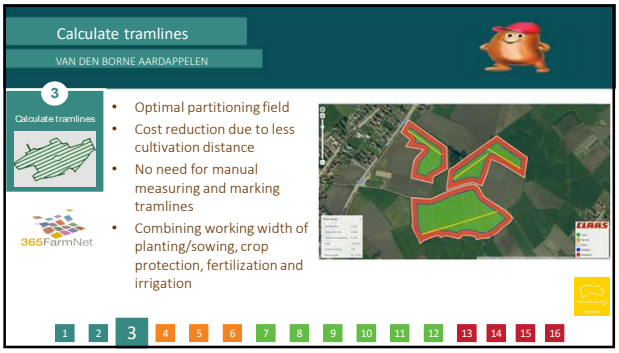
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Soil scan
VAN DEN BORNE AARDAPPELEN
Soil scan
SOIL MASTERS
EC 0,25
EC 0,50
EC 0,75
EC 1,00
EC 1,50
EC 3,00

11


Soil scan
VAN DEN BORNE AARDAPPELEN
Soil scan
SOIL MASTERS

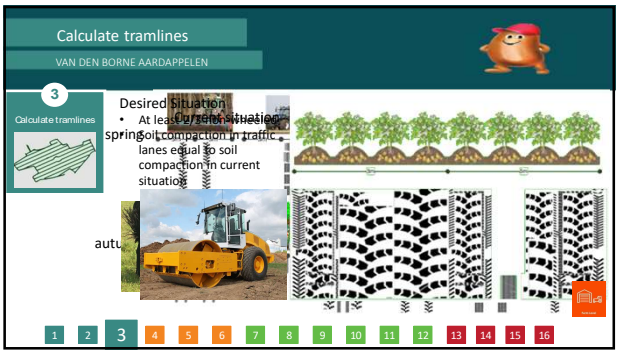
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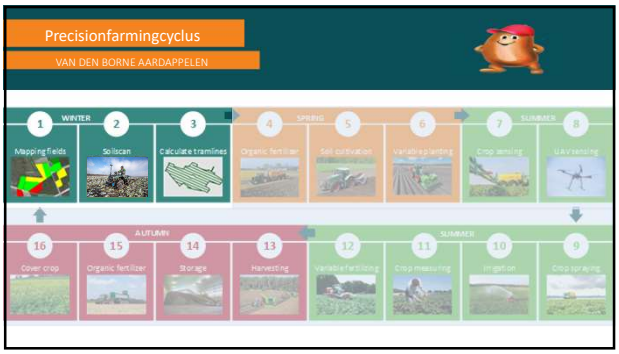
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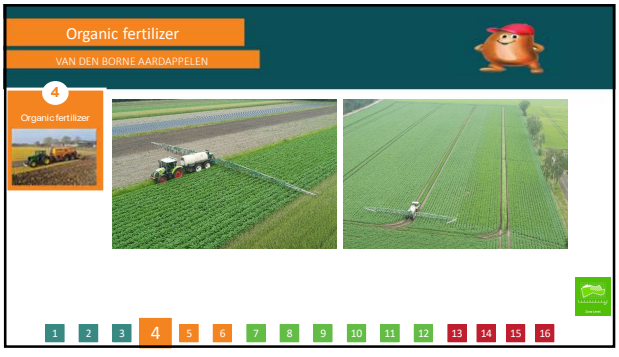
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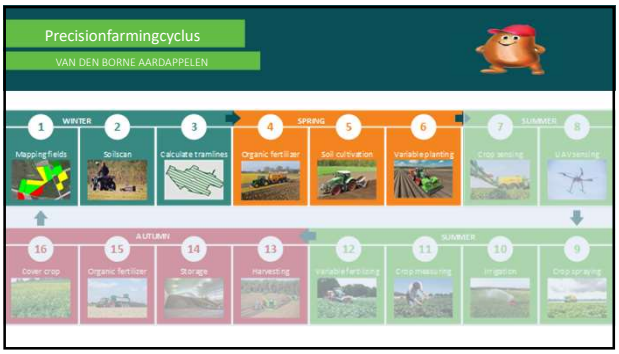
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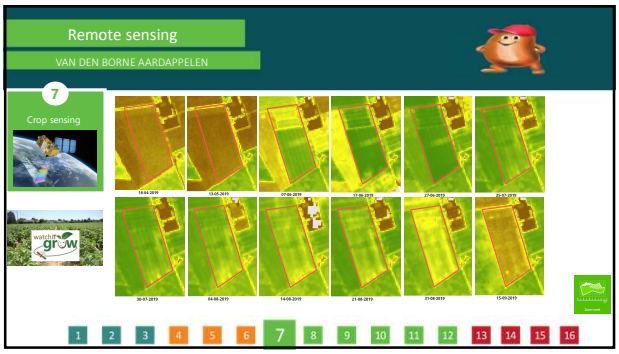
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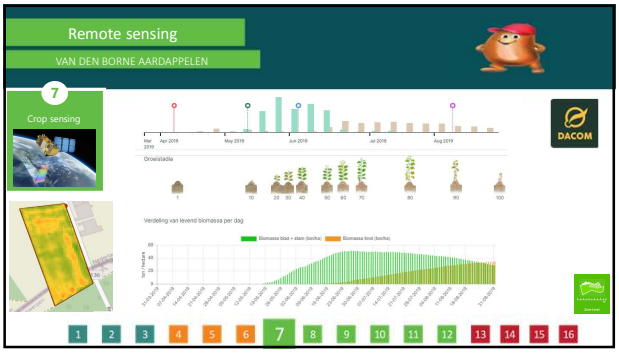
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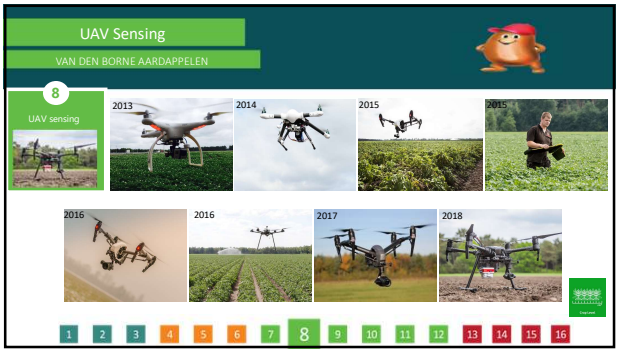
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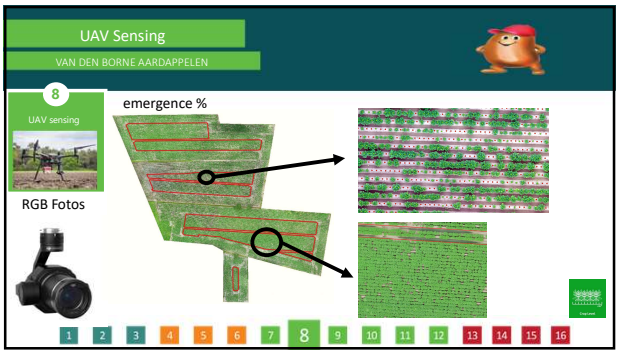
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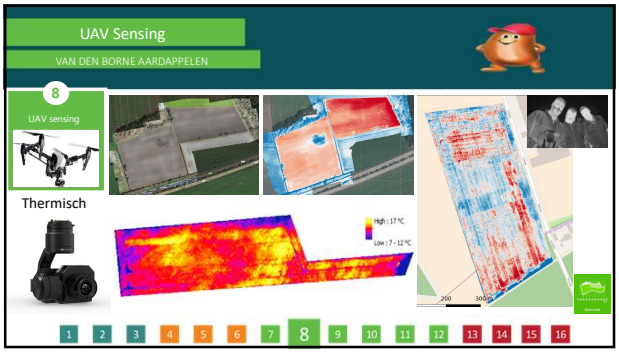
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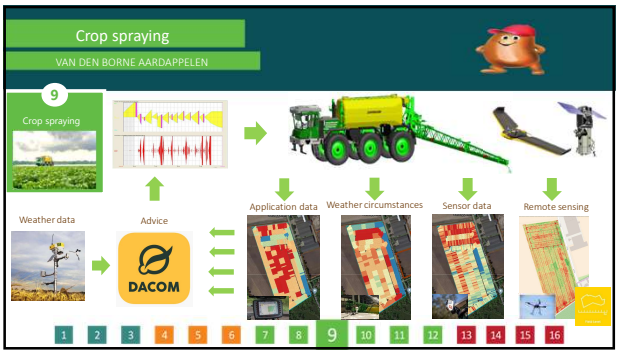
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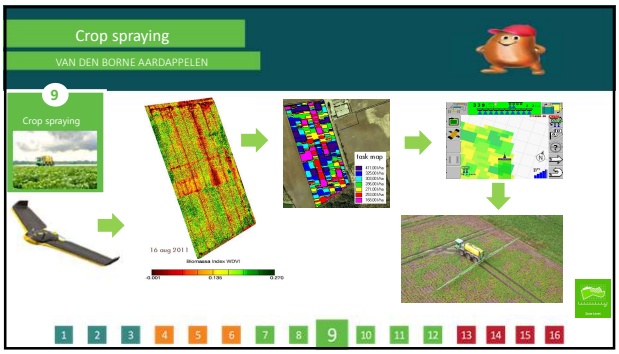
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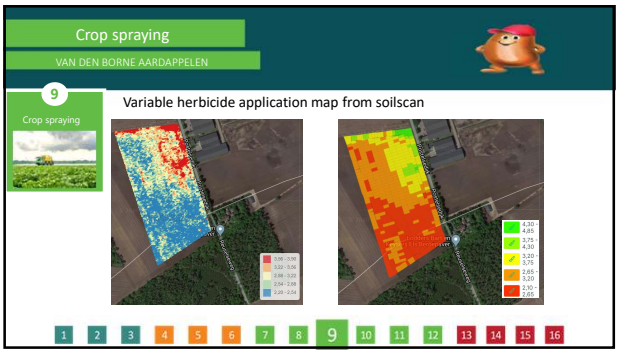
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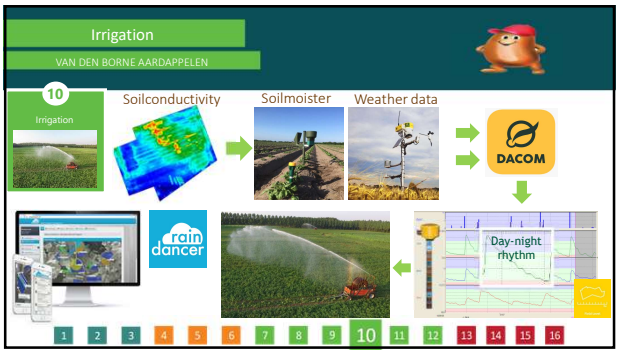
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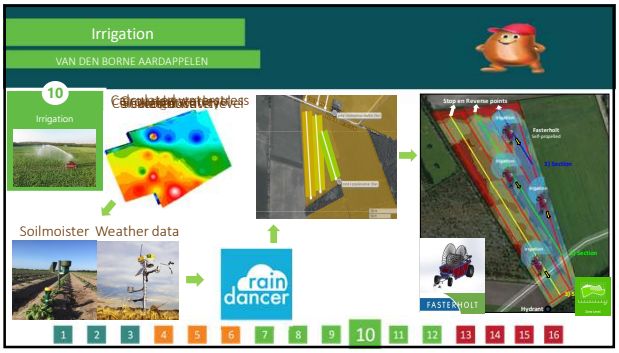
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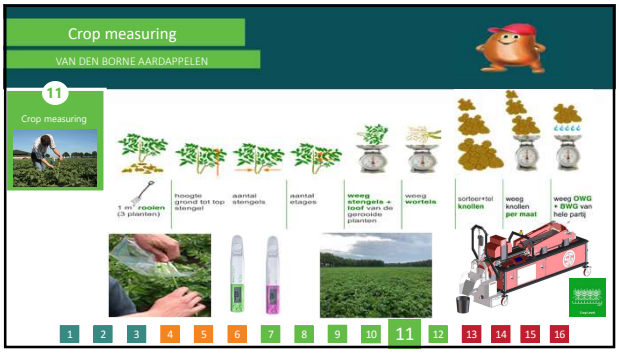
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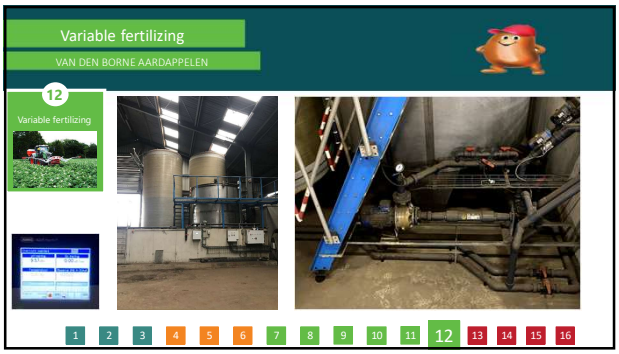
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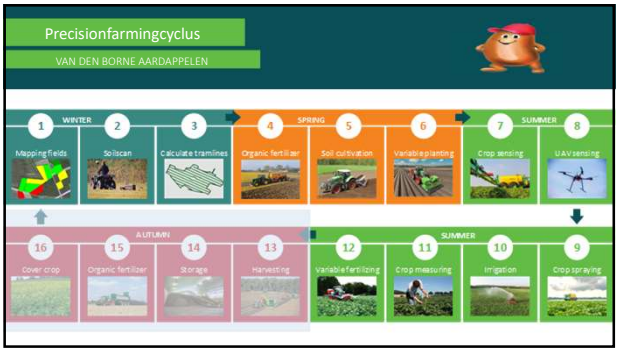
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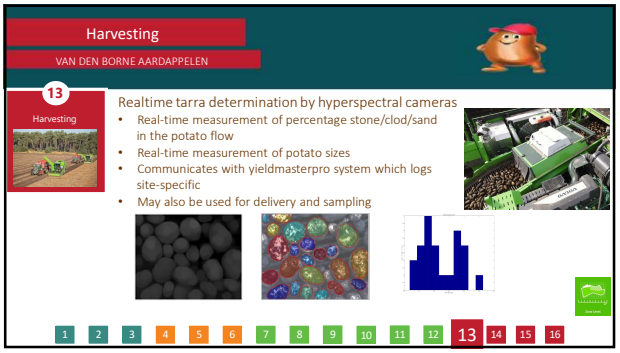
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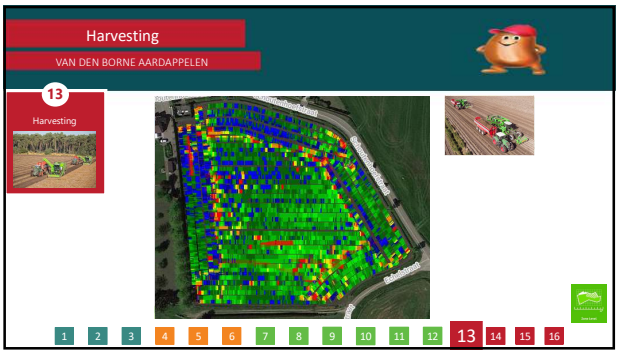
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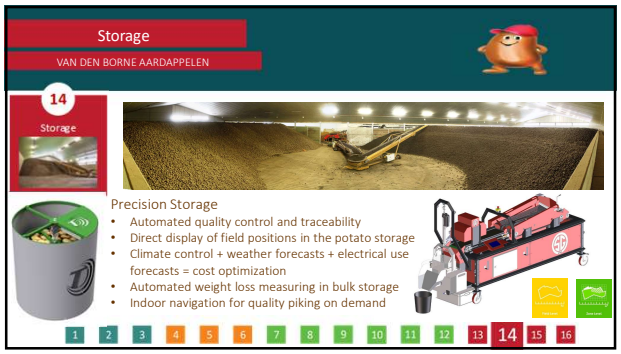
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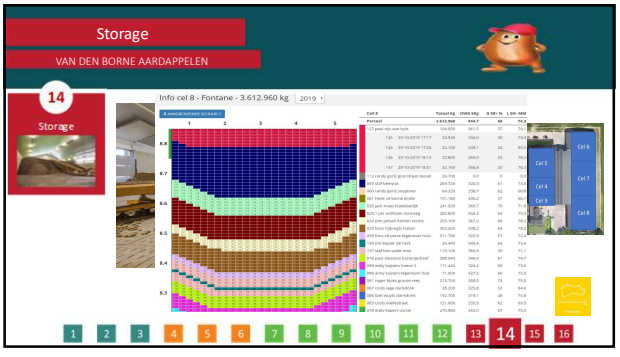
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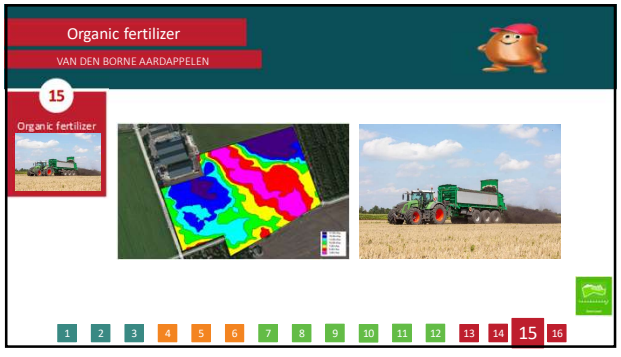
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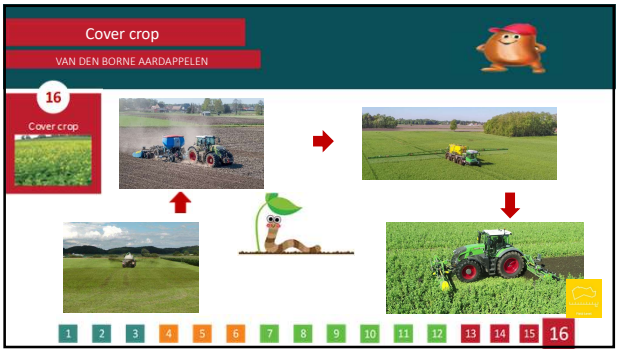
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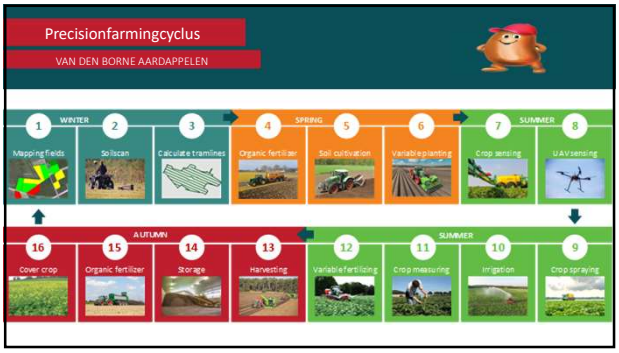
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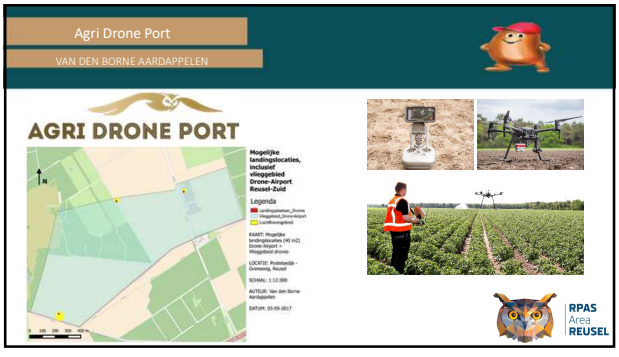
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VAN DEN BORNE AARDAPPELEN
Praktijk Centrum
Voor Precisie Landbouw

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