



What are the problems with the current status quo?



Human Scout



Low accuracy



Partial coverage of the field



Poor documentation







What are the challenges that come with traditional farming methods?

Pest and disease damage causes yield losses of 20%-40% annually

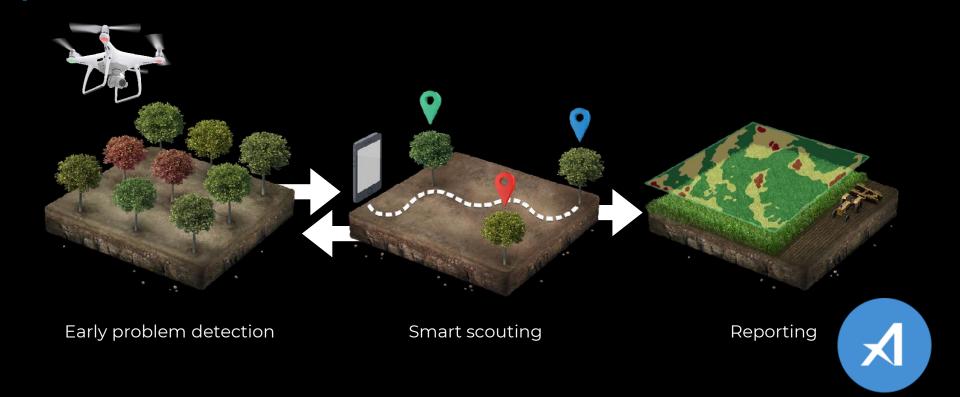
HLB and
Phytophthora
disease kills
5 million citrus
trees per year

Current yield estimates are 20-40% out causing losses of \$2000/acre



Monitor **Every Tree**

Aerobotics Solution



Hi-res **Imagery**





Turning Imagery into Data

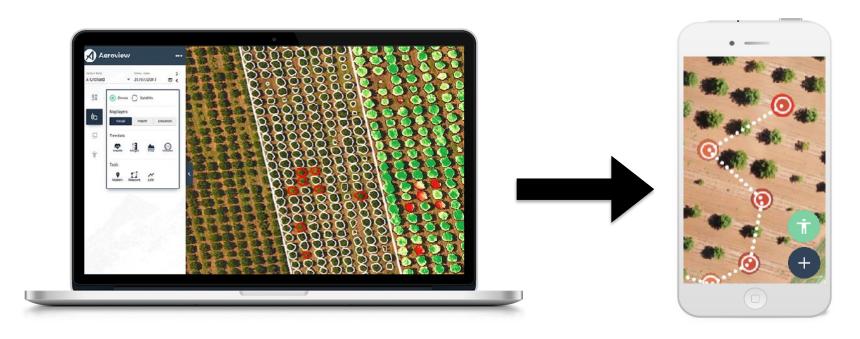








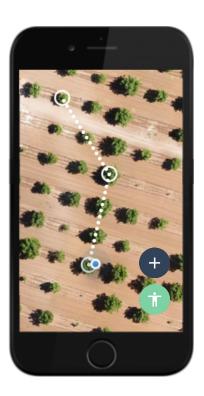
Automated Scout Routes

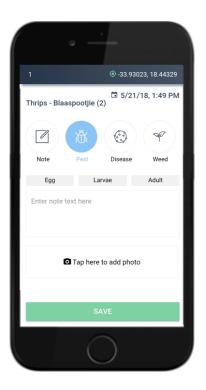


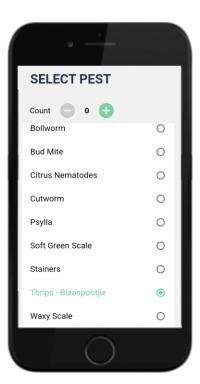
Automated problem detection

Automated scout routes

In-field **Scouting** Application

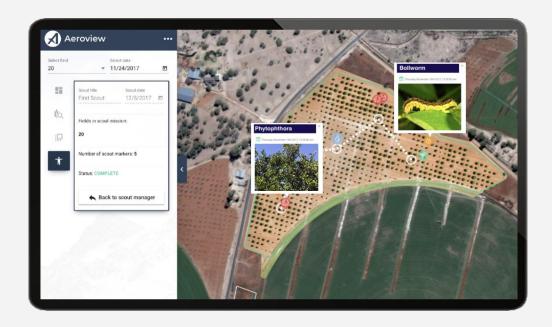








Georeferenced Results



All results from in-field are sent to your computer.

Results are geo-located so you can find the exact spots again!

Farm Performance Overview



Intuitive **Reporting**

Codling Moth

Orchard Α7 A61

P14 A94

A87 A77

A48

A39

A26

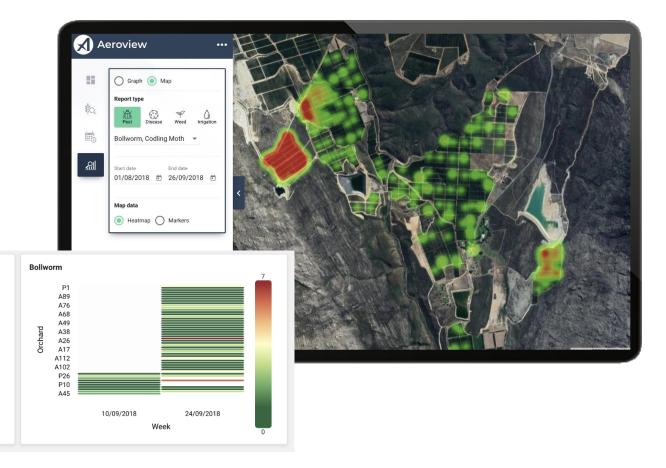
A18

A110

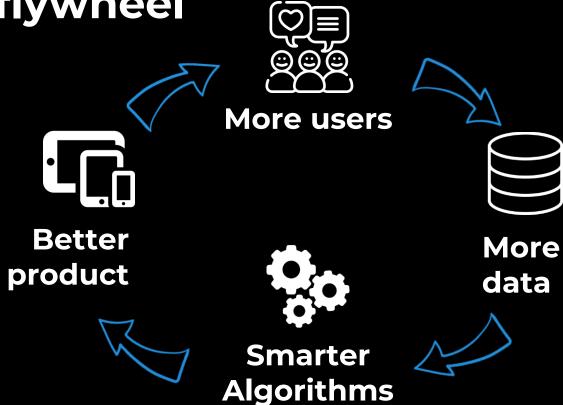
A10

24/09/2018

Week

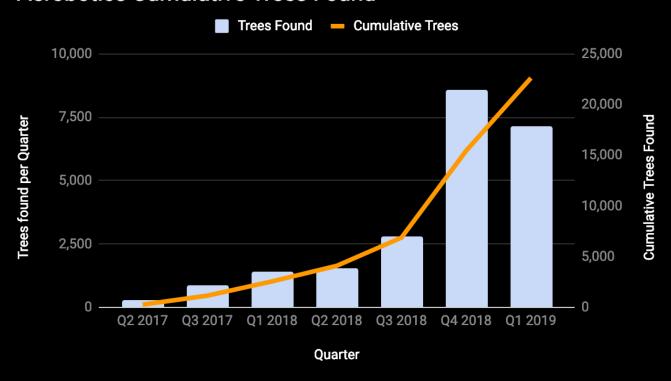


Building a data flywheel

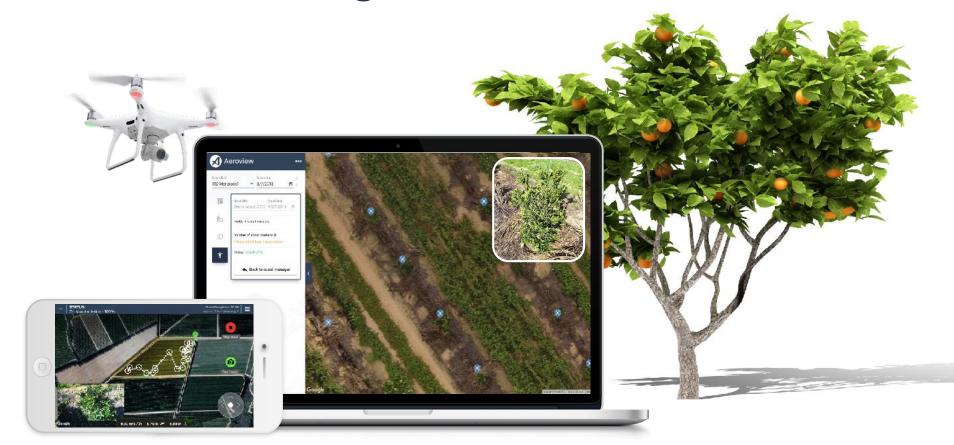


And the data is starting to fly in...

Aerobotics Cumulative Trees Found



Drone Scouting **Trees**





Near-future | Fruit counts



Aggregated **Dashboard**



JULY 2018 [VERSION 1.0]

NB! ONLY ADJUST YELLOW CELLS

FARM PERFORMANCE DASHBOARD

SORT RANGE BY	Average NDVI per Tree
MEAN	0.54
MEDIAN	0.55
STANDARD DEVIATION	0.17
VARIANCE	0.03

#	Farm Name	Size in Hectares	Number of Trees	Average NDVI per Tree	Average Area per Tree	Average % of Tree Canopy Cover	Average Tree Density	Aerobotics Performance Score
1	Farm 122	14.74	3,370	0.88	19.20	42.92	228.71	0.79
2	Farm 100	32.56	7,094	0.85	15.49	34.70	217.89	0.71
3	Farm 81	8.16	2,907	0.84	13.45	45.47	356.12	0.75
4	Farm 82	12.36	3,337	0.82	18.47	49.52	270.01	0.71
5	Farm 75	14.59	4,171	0.80	15.34	36.89	285.82	0.64
6	Farm 98	60.99	11,473	0.79	8.65	16.25	188.10	0.64
7	Farm 118	11.66	2,562	0.79	7.68	17.10	219.65	0.64
8	Farm 8	4.90	1,812	0.78	9.00	29.00	370.14	0.64
9	Farm 21	5.73	1,406	0.76	18.93	50.24	245.34	0.75
10	Farm 74	18.64	3,800	0.75	14.22	31.01	203.86	0.64
11	Farm 89	6.89	1,043	0.74	19.28	46.72	151.27	0.57
12	Farm 66	97.38	20,600	0.73	15.70	34.60	211.54	0.57
13	Farm 93	12.33	3,059	0.72	27.15	61.90	248.08	0.75
14	Farm 52	28.23	7,165	0.72	11.34	28.78	253.79	0.71
15	Farm 20	7.79	2,201	0.71	22.07	61.73	282.51	0.79
16	Farm 54	7.76	1,850	0.71	20.98	50.50	238.26	0.68
17	Farm 39	16.62	2,805	0.70	20.13	34.87	168.78	0.57
18	Farm 99	2.88	584	0.69	0.00	0.00	202.75	0.68
19	Farm 116	9.66	1,931	0.69	22.77	50.43	199.83	0.79
20	Farm 15	37.57	10,874	0.69	11.57	33.95	289.43	0.71
21	Farm 108	8.80	3,916	0.68	13.79	61.36	445.11	0.94

FARM ENGAGEMENT DASHBOARD

SORT RANGE BY	Number of Logins 🔻
MEAN	2.19
MEDIAN	1.00
STANDARD DEVIATION	3.02
VARIANCE	9.11

#	Farm Name	Number of Scout Markers	Number of Planned Scout Missions	Number of Comp. Scout Missions	% of Comp. Scout Missions	Number of Logins	Aerobotics Engagement Score
1	Farm 69	11.00	1	0.00	0.00%	16.00	0.94
2	Farm 38	0.00	0	0.00	0.00%	11.00	0.81
3	Farm 110	0.00	0	0.00	0.00%	11.00	0.81
4	Farm 11	19.50	1	0.50	50.00%	10.00	1.00
5	Farm 43	5.00	1	0.00	0.00%	9.00	0.94
6	Farm 54	13.00	1	0.00	0.00%	6.00	0.94
7	Farm 55	0.00	0	0.00	0.00%	6.00	0.81
8	Farm 56	0.00	0	0.00	0.00%	6.00	0.81
9	Farm 88	0.00	0	0.00	0.00%	6.00	0.81
10	Farm 111	1.00	1	0.00	0.00%	6.00	0.88
11	Farm 23	0.00	0	0.00	0.00%	5.00	0.81
12	Farm 49	0.00	0	0.00	0.00%	5.00	0.81
13	Farm 51	0.00	0	0.00	0.00%	5.00	0.81
14	Farm 93	5.00	1	0.00	0.00%	5.00	0.94
15	Farm 96	0.00	0	0.00	0.00%	5.00	0.81
16	Farm 98	0.00	0	0.00	0.00%	5.00	0.81
17	Farm 99	0.00	0	0.00	0.00%	5.00	0.81
18	Farm 100	2.00	1	1.00	100.00%	5.00	0.88
19	Farm 101	0.00	0	0.00	0.00%	5.00	0.81
20	Farm 104	0.00	0	0.00	0.00%	5.00	0.81
21	Farm 105	0.00	0	0.00	0.00%	5.00	0.81

Expanding around the globe...

