



SilviaTerra

Managing Forest Data

measurement, computation, and communication

Zack Parisa

***Who reluctantly moved to San Francisco two years ago**

President, SilviaTerra

**Timber Measurements Society -
April 2017**

OUR PRODUCTS



CruiseBoost

Save up to 50% of your
cruising cost.



Plot Hound

The timber cruising app.
Easy. Fast. Free.



Inventory Planner

Coming soon!



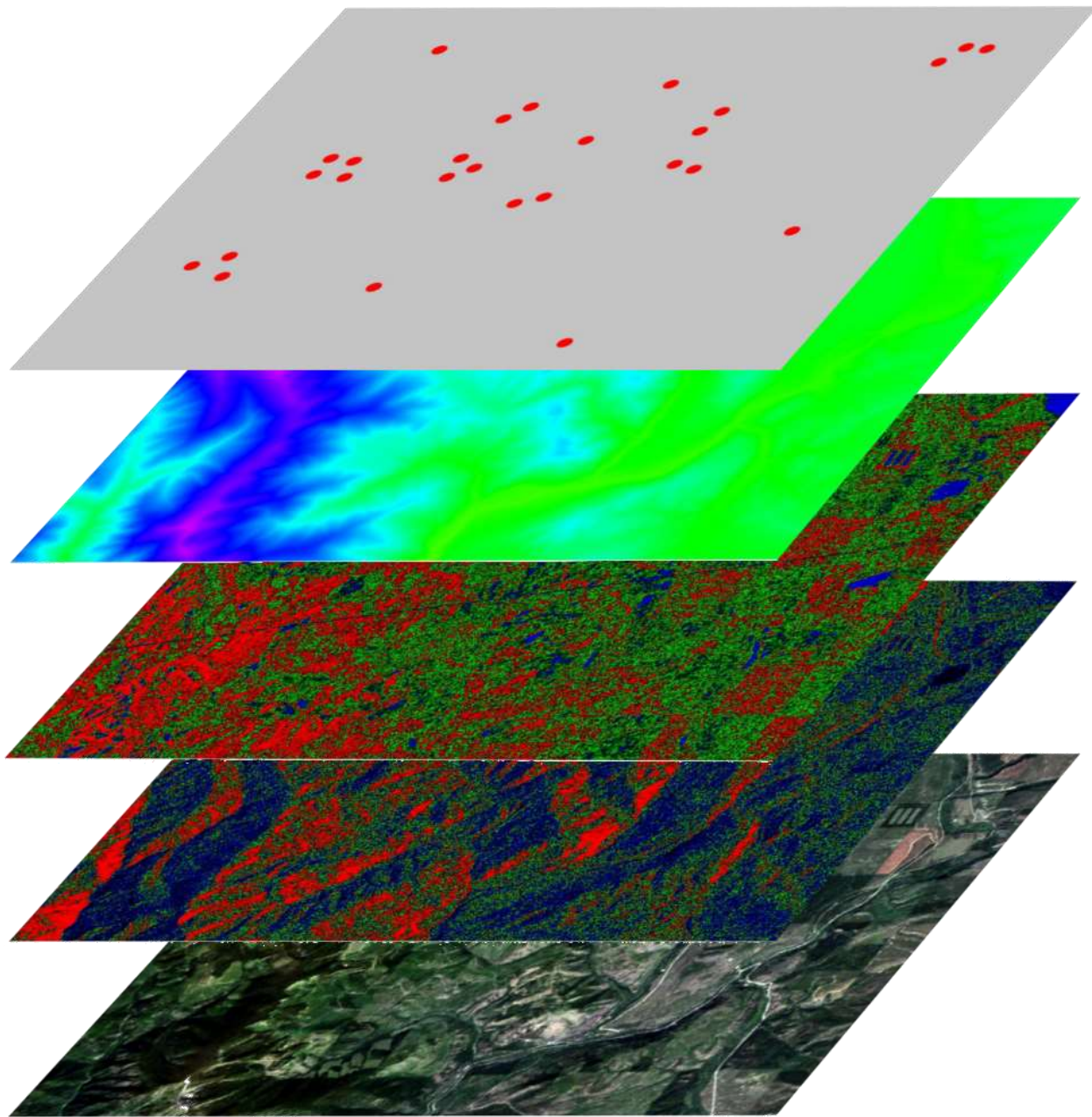
Canopy

The best way to manage
the cruising process for
individuals or teams.

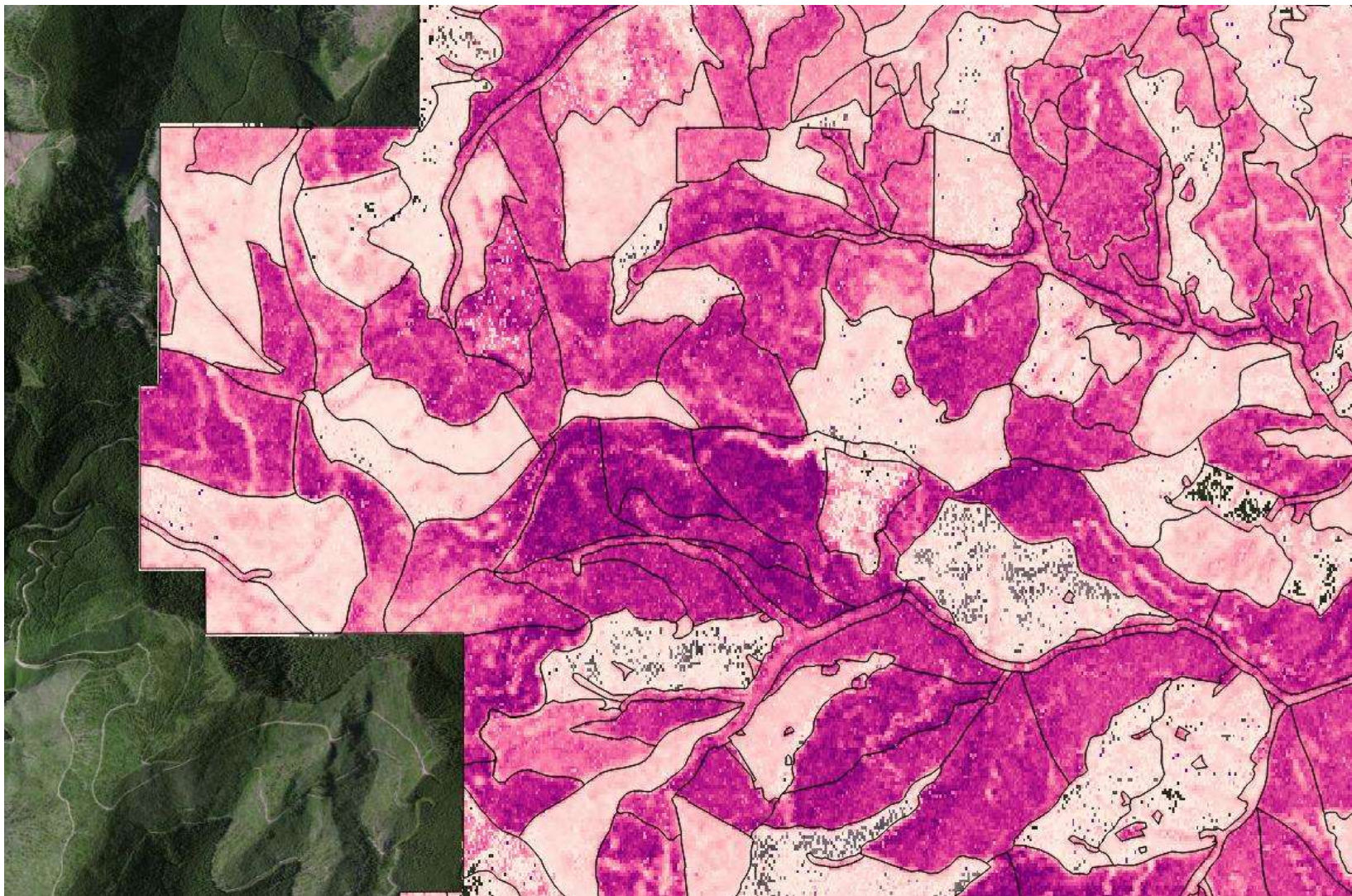


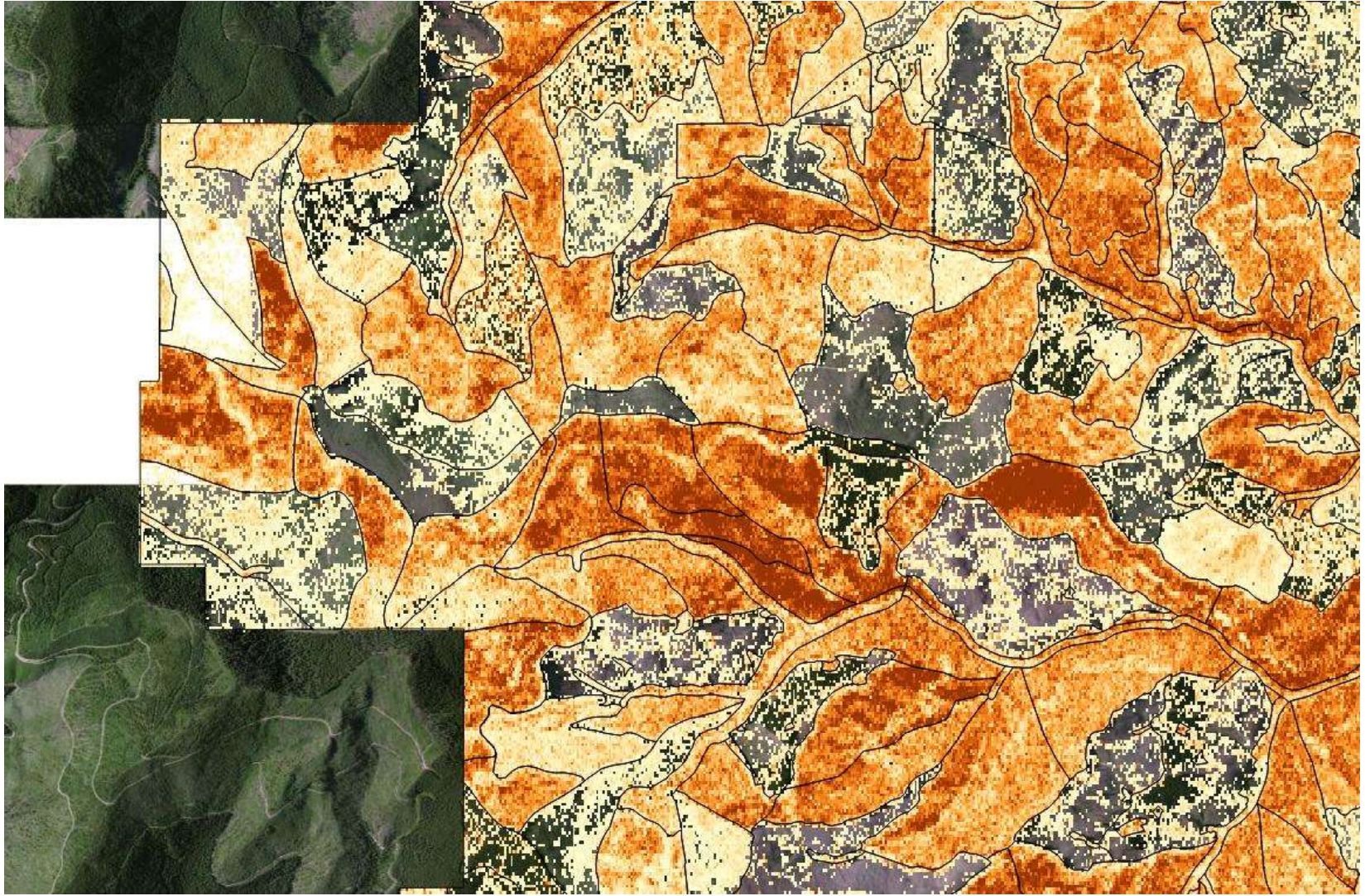
CruiseBoost

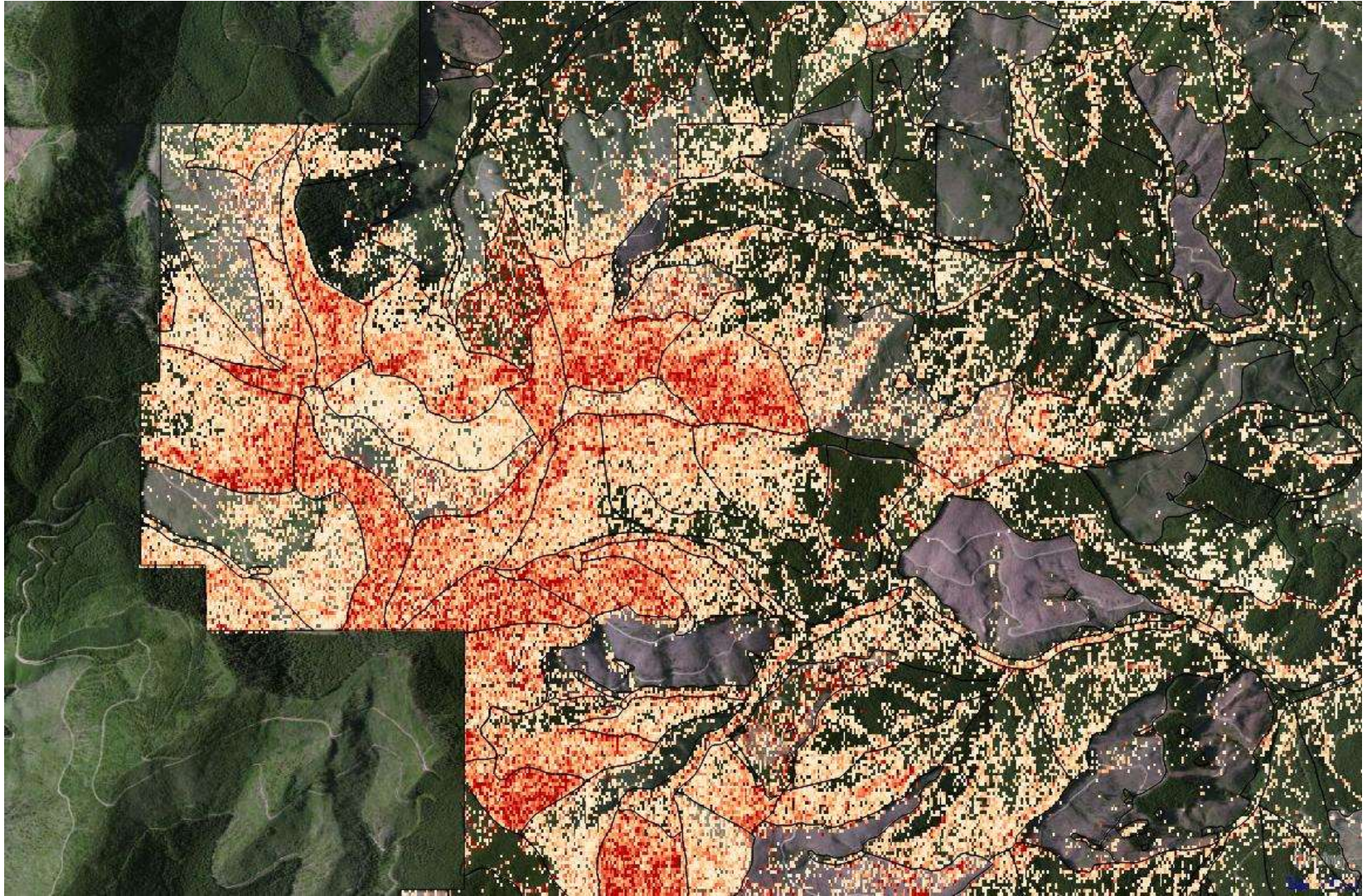
Save up to 50% of your cruising cost













Plot Hound

The timber cruising app.
Easy. Fast. Free.

[< Back](#)

Cruise details

12 plots

Biltmore Estate Tract 001

(Transylvania, NC)

266 acres

12 plots

0% complete



Plot #1

3,231 ft.

Biltmore Estate Tract 001

(Transylvania, NC)

Assigned to **Paul Bunyan** No trees recorded



Plot #2

3,231 ft.

Biltmore Estate Tract 001

(Transylvania, NC)

Assigned to **Paul Bunyan** No trees recorded



Plot #3

3,231 ft.

Biltmore Estate Tract 001

(Transylvania, NC)

Assigned to **Paul Bunyan** No trees recorded



Plot #4

3,231 ft.

Biltmore Estate Tract 001

(Transylvania, NC)

Assigned to **Paul Bunyan** No trees recorded



Plot #5

3,231 ft.



[< Back](#)

Plot #1

[Add trees](#)

Biltmore Estate Tract 001 cruise name

Distance to destination (feet)

716140

Heading

259° (W)

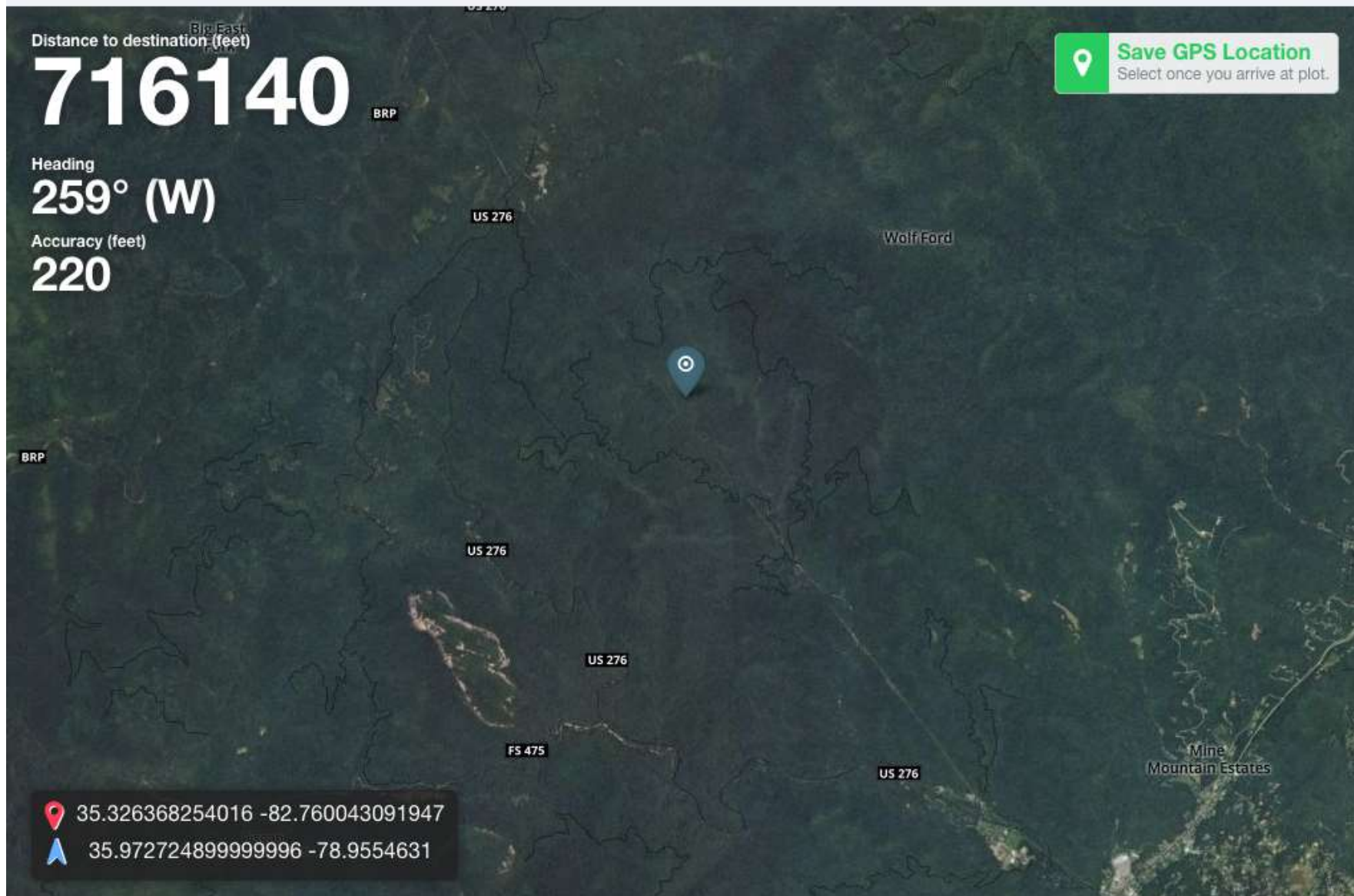
Accuracy (feet)

220



Save GPS Location

Select once you arrive at plot.



35.326368254016 -82.760043091947



35.972724899999996 -78.9554631



Plot #1

Biltmore Estate Tract 001

Limiting Distance Calculator

Sampling method

[BAF 10](#)

Plot notes

1	Species black oak		Diameter (DBH) 11 inches	Total height	Merch. height	Grade	Flag <input type="checkbox"/>	more ▼
2	Species black oak		Diameter (DBH) 12 inches	Total height 44 feet	Merch. height 16 feet	Grade saw	Flag <input type="checkbox"/>	more ▼
3	Species chestnut oak		Diameter (DBH) 7 inches	Total height	Merch. height	Grade	Flag <input checked="" type="checkbox"/>	less ^
		Age 20 years	Crown ratio 30%	Defects 1 defect	Tree notes			
4	Species		Diameter (DBH)	Total height	Merch. height	Grade	Flag <input type="checkbox"/>	more ▼

 Edit trees

 Complete plot

 Drop plot





Canopy

The best way to manage the
cruising process for
individuals or teams.



Demo Stand

created on Aug. 22, 2014
by Paul Bunyan

19 acres

+ add tag

[Create Cruise](#)

[Download stand KML](#)

[Download stand SHP](#)

[Delete Stand](#)

Bullitt, KY

[expand](#)



Cruises

Demo Stand

Bullitt, KY

Started
8/22/14

Finished
8/22/14

Cruised by
Paul...

Acres
19

Plots
34

TPA [?]
42

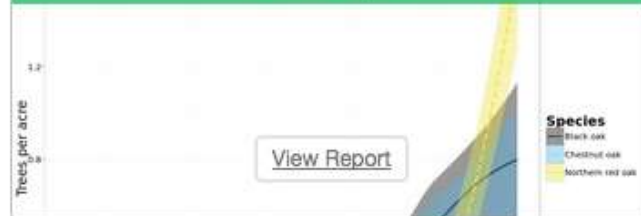
BA [?]
28

QMD [?]
10.8

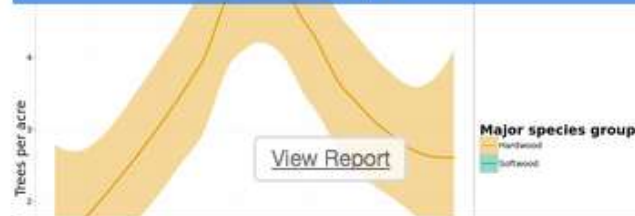
[Create check cruise](#)

[Delete Cruise](#)

Basic Report



Basic Report

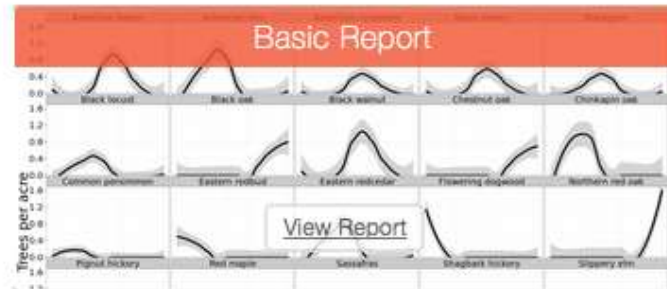


Basic Report



Basic Report





Click to download:

[Basic Report](#)

[Cruise Report](#)

[Cruise KML](#)

[Cruise SHP](#)

[Cruise GPX](#)



Plot	Status	Collected	Cruiser	Sampling Method	Notes	Trees
1	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	4 (details)
2	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	8 (details)
3	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	8 (details)
4	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	8 (details)
5	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	1 (details)
6	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	3 (details)
7	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	7 (details)
8	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	5 (details)
9	completed	8/22/14	Paul... ⊕	1/10 acre	n/a	no trees

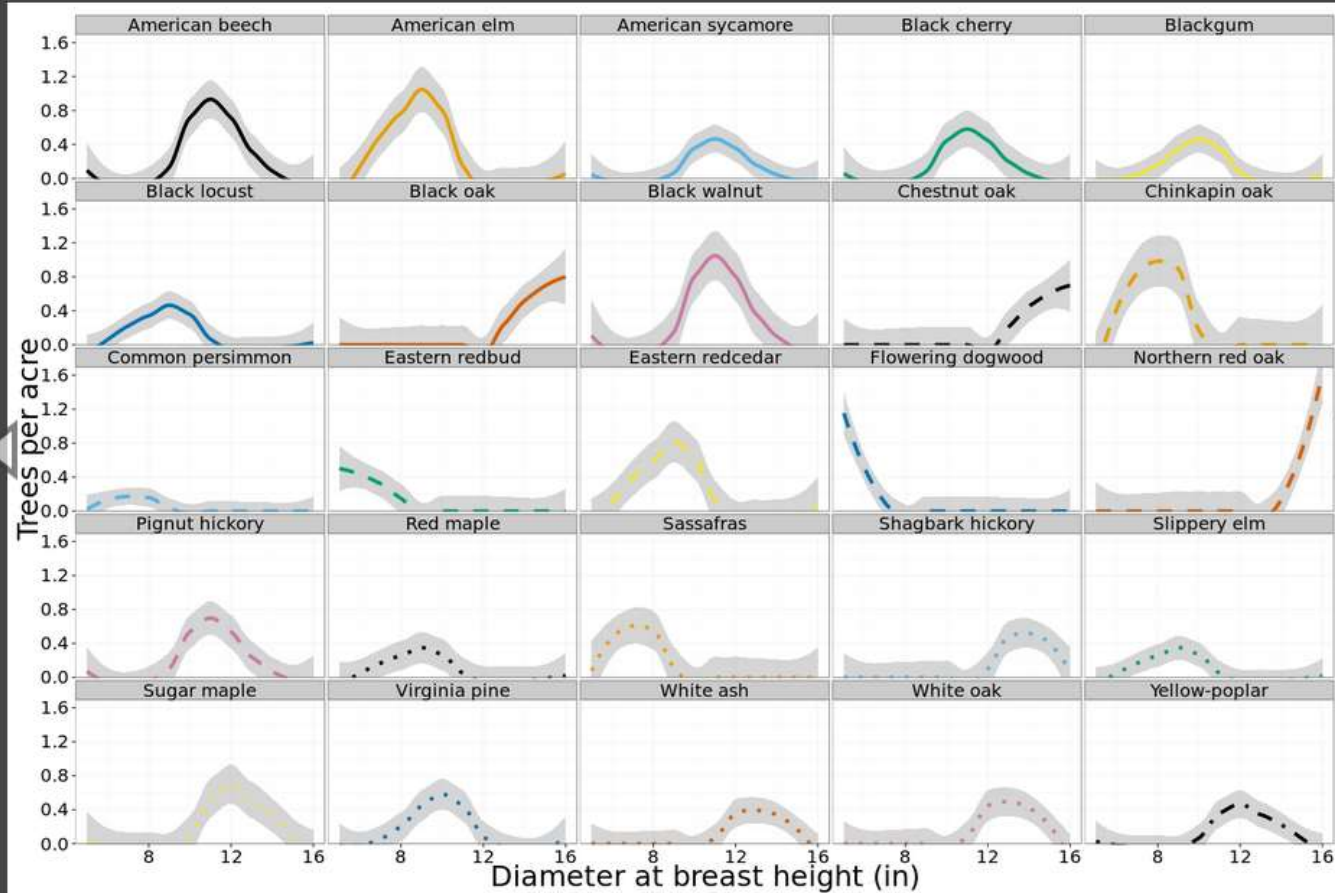




												✕
Plot		Status	Collected	Cruiser	Sampling Method	Notes	Trees					
1		completed	8/22/14	Paul...	1/10 acre	n/a	4 (details)					
Tree	Collected	Flagged	Species	Diameter	Merch. Ht.	Total Ht.	Grade	Age	Crown Ratio	Defects	Notes	
1	8/22/14	no	black locust	9"	n/a	n/a	n/a	n/a	n/a	0	n/a	
2	8/22/14	no	eastern redbud	6"	n/a	n/a	n/a	n/a	n/a	0	n/a	
3	8/22/14	no	shagbark hickory	14"	n/a	n/a	n/a	n/a	n/a	0	n/a	
4	8/22/14	no	black oak	15"	n/a	n/a	n/a	n/a	n/a	0	n/a	

4	completed	8/22/14	Paul...	1/10 acre	n/a	8 (details)
5	completed	8/22/14	Paul...	1/10 acre	n/a	1 (details)
6	completed	8/22/14	Paul...	1/10 acre	n/a	3 (details)
7	completed	8/22/14	Paul...	1/10 acre	n/a	7 (details)
8	completed	8/22/14	Paul...	1/10 acre	n/a	5 (details)
9	completed	8/22/14	Paul...	1/10 acre	n/a	no data
10	completed	8/22/14	Paul...	1/10 acre	n/a	2 (details)





Basic Report

2

completed

8/22/14

Paul...

1/10 acre

n/a

8 (details)

5 of 5



This wasn't the plan.

I got into this by trying to solve my own problem(s).

And ended up focusing on building the things I wished existed.

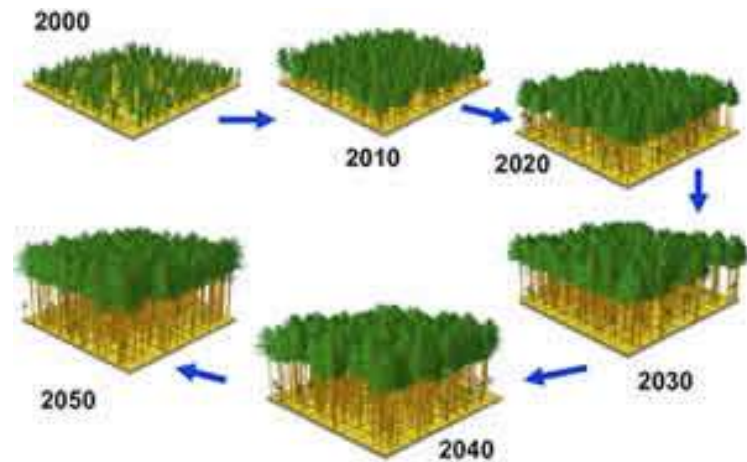
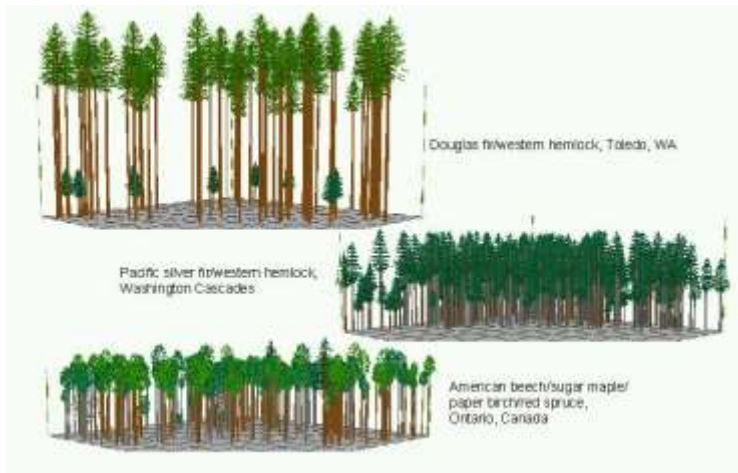


Because these are real problems

rising costs,
landowner changes,
increased competition,
environmental awareness and un-
awareness,
market shifts in forest-derived products



A challenge as foresters is to make forest management **legible** to those who “own” the forest.



minimize the time to understand a forest - maximize your ability to communicate that information

Two questions to ask of technology

1.Does it work? Is it cost-effective?

1.What factors have changed within the total chain? (and what does that mean for how we practice)



Does it work? Is it cost-effective?



1) Does it save me time?
(where time=money)

1) Does it increase the
quality of my product?



Does it work?



Real cost

what do you pay?

what skills do you have to learn?

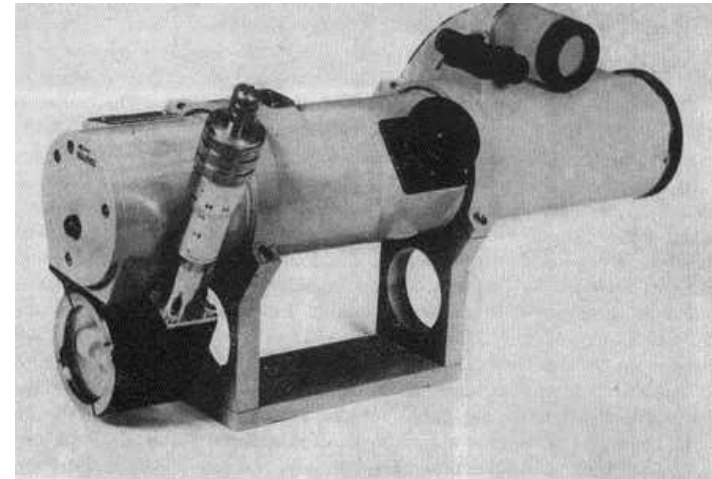
what frustrations do you have to endure?

vs. your next best alternative

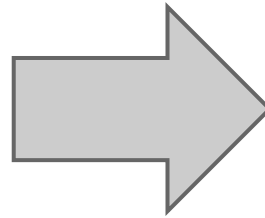
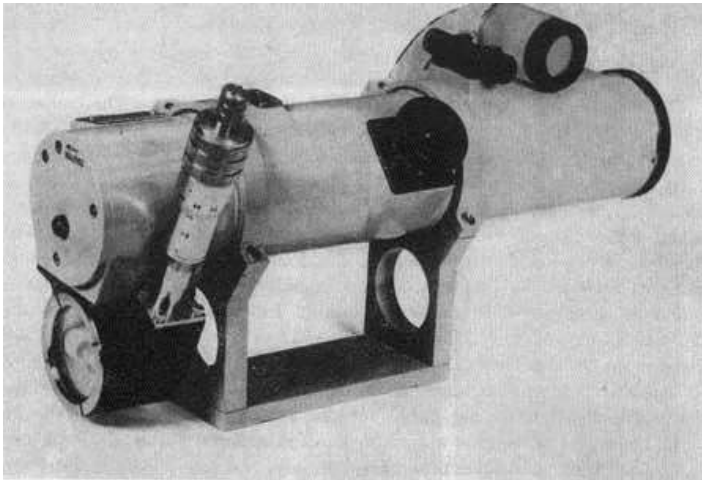
avoiding thinking about sunk costs..



A tale of two technologies



but given a bit of time...



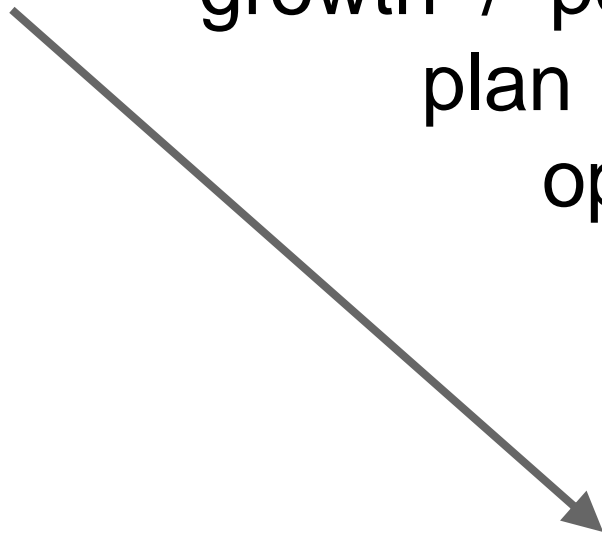
What factors have changed within the total chain?

inventory / state

growth / potential

plan / decision

operate / result



Factors have not changed, the context has.

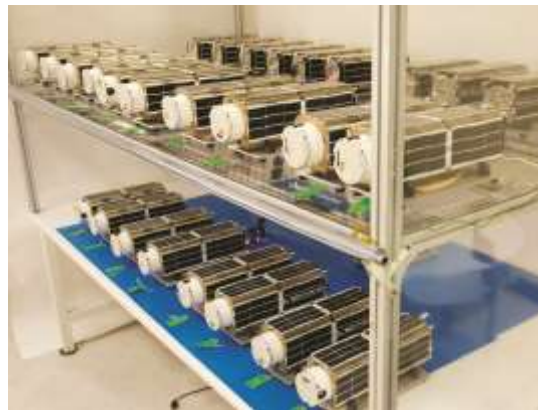


The real trends

measurements cost less

computation is cheaper and better

communication is getting ... better?



The real trends

measurements cost less

computation is cheaper and better

communication is getting ... better?



No picture
necessary



The real trends

measurements cost less

computation is cheaper and better

communication is getting ... better?

because having data and making insights from data are different things.



For us, in practice this means

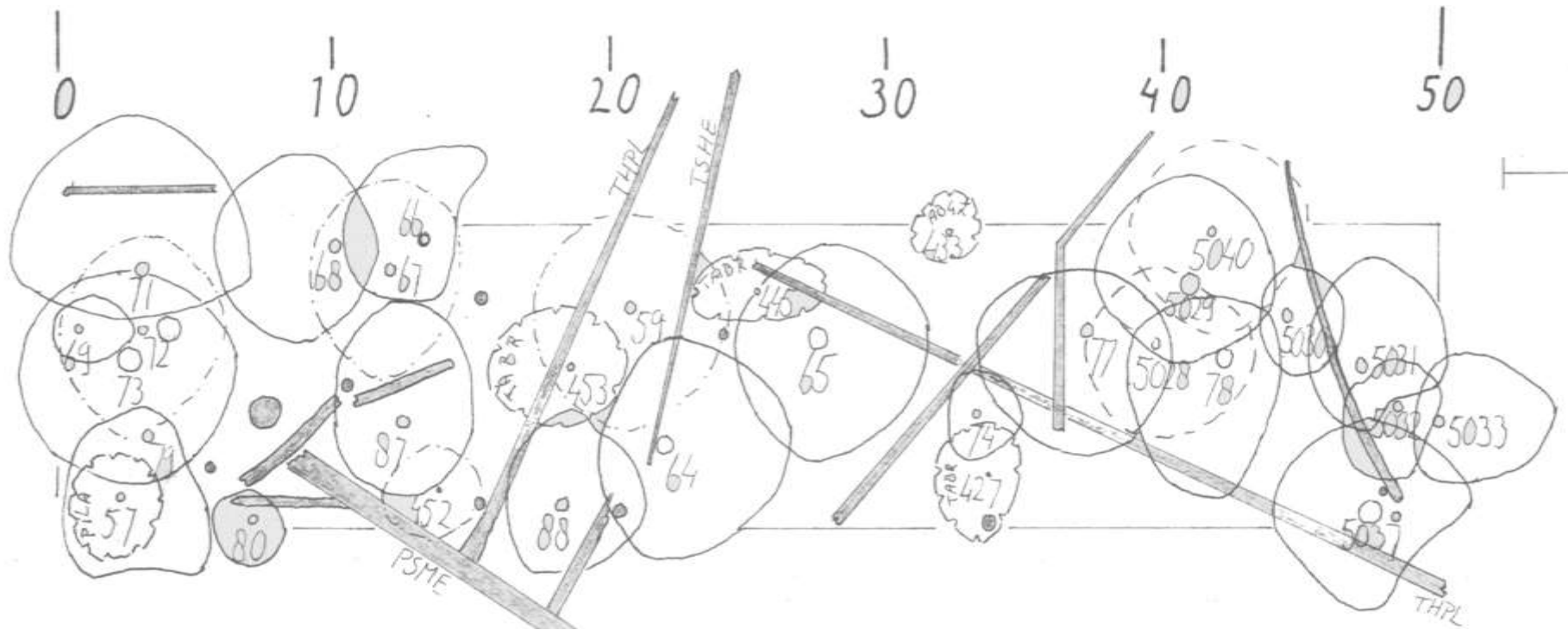
- 1) Simplify cruising = Plot Hound
- 2) Extend the use of plot data = CuiseBoost
- 3) Fluid communication tools = information available anywhere.

And listening.





Questions?



If you think of any later, feel free to email me:
zack@silviaterra.com

