





David Brown, Pivot Bio

My goal is to make agriculture into engineering.

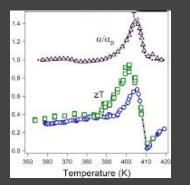
Ph.D. Applied Physics













Google [X]

"Machine Learning, agriculture, & robots" - Astro Teller

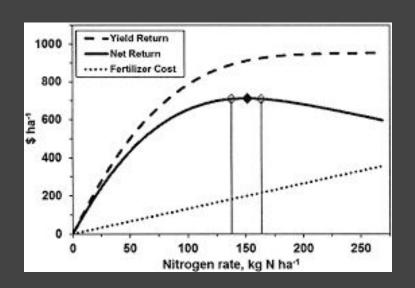
Pivot Bio

Agricultural Experiments at National Scale

Farmers care about yield and profits



Yield is money in farmer's pocket

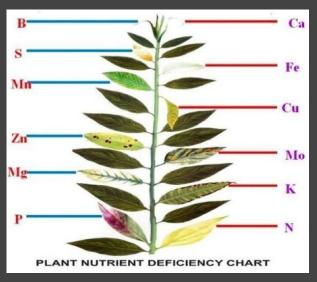


Optimize input to maximize returns and reduce their risk.

Agriculture is prone to disasters.



Drought impact



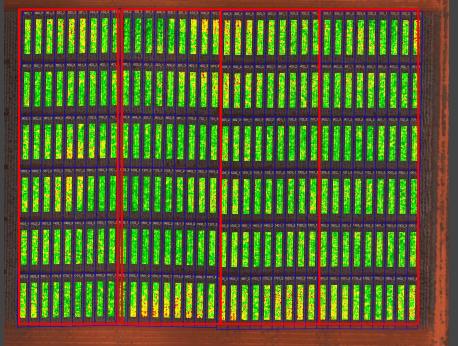
Nutrient shortage



Blight

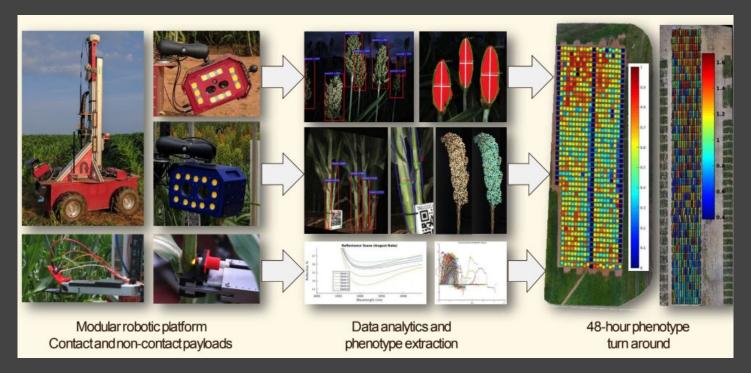
The challenges: variability, scale and cost.



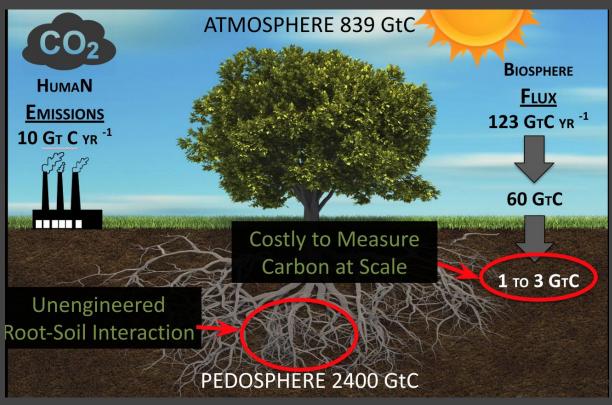


\$1000/acre in revenue limits interventions and advancement of knowledge

1000 acres could be a million experiments



Agriculture matters for climate change



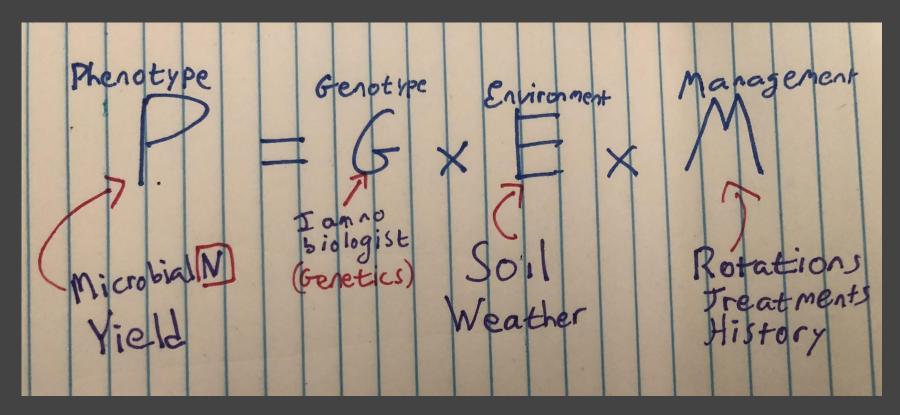


In the next five years,

we will finally have the data...

...how will we make it useful?

Health Soil (E) produces good outcomes (P)



Precision Phenotyping unlocks agriculture



"What if farmers could manage the plant instead of the plot? What if crops could be bred 10X faster, 10X cheaper? What if any farmer could have access to the best advice anywhere, rather than being limited to personal or local know-how?"

- Google X blog.