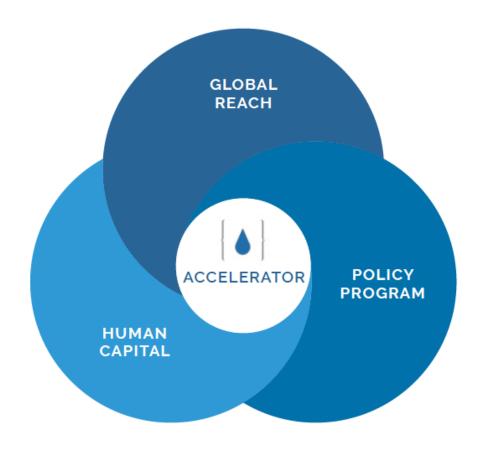
IMAGINE () H₂O SWAMP - Company Presentations

IMAGINE (H₂O

Welcome

Empower people to develop and deploy innovation to solve water challenges



2017 Water Data Accelerator

IMAGINE (H₂O

























Creating an Unfair Advantage

IMAGINE | H₂O



IH2O Policy Program

IMAGINE | | H₂O

45 Applications4 Finalists

















Source Solutions



Enable Deployment

Presenting Today

IMAGINE (H₂O

- 1. Ayyeka
- 2. Ceres Imaging
- 3. FREDsense
- 4. Wellntel



Prepared for:

SWAMP Symposium, June 2017

Prepared by:

Sivan Cohen, P.E., Ayyeka Inc. General Manager

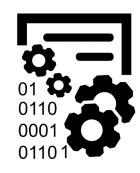
THE CHALLENGE IS OVERCOMING COMPLEX & FRAGMENTED FIELD DATA COLLECTION







POWER SUPPLY



DATA OVERLOAD



APPLICATION SPECIFIC



COMMUNICATION



BUSINESS MODEL

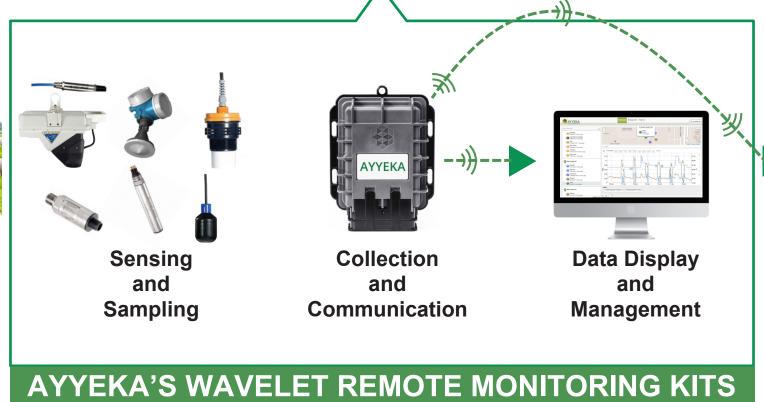


ANY TYPE OF DATA, ANY SENSOR, OVER ANY COMM NETWORK,

USING ANY SERVER, INTEGRATED INTO ANY SOFTWARE PLATFORM



Infrastructure and Environment





SCADA and 3rd Party Software





SIMPLE, STREAMLINED, FLEXIBLE, AND SECURE FIELD-DATA ACQUISITION ACROSS INDUSTRY SEGMENTS

ENVIRONMENTAL



WATERSHED



WATER QUALITY



WASTEWATER





OIL & GAS







QUESTIONS?



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www.ayyeka.com info@ayyeka.com





We use aerial spectral imagery to optimize water and nitrogen

About Ceres Imaging

Next-gen imaging as a service



Proprietary nutrient and water imagery

- Founded in 2013 out of Stanford
- Team of 30+ people, growing to 40
- 300,000+ paying acres of customers
- Validated by California and Australian universities

Developed by the best spectral imaging talent













7 PhDs in spectral imaging, agronomy, data science (Stanford, Berkeley, UC Davis)

Efficient Data Acquisition | Three imaging platform options

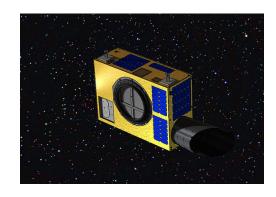
Drone



1 to 200 acres

Legal issues, high resolution

Satellite



50,000+ acres

Low resolution
Suboptimal frequency

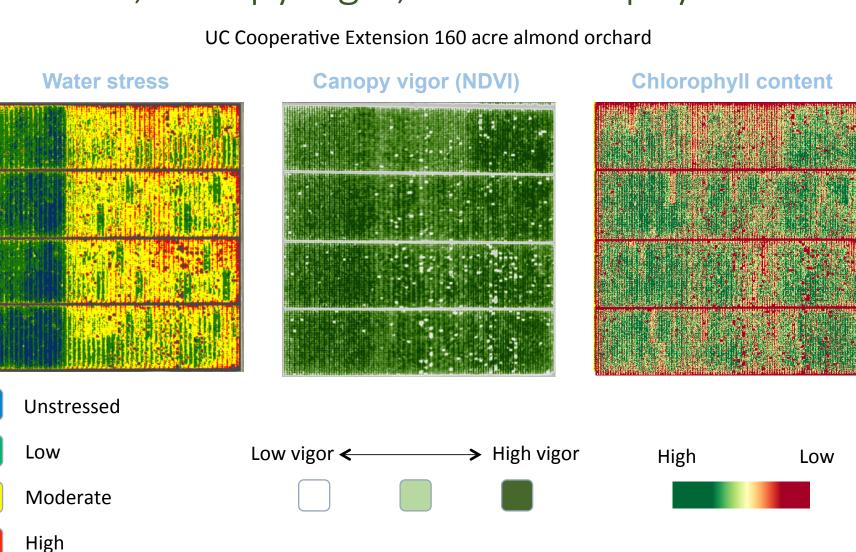
Airplane



200 to 10,000 acres

High resolution

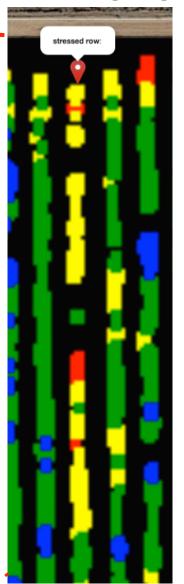
Ceres has full spectrum analysis: water stress, canopy vigor, and chlorophyll



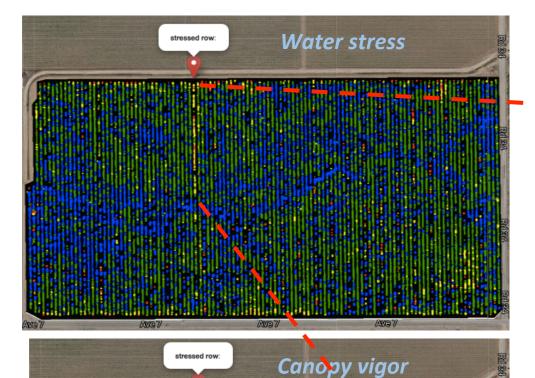
Accurate and high resolution

One row clearly showing water stress.

Stress has occurred long enough to affect foliage/vigor of trees.

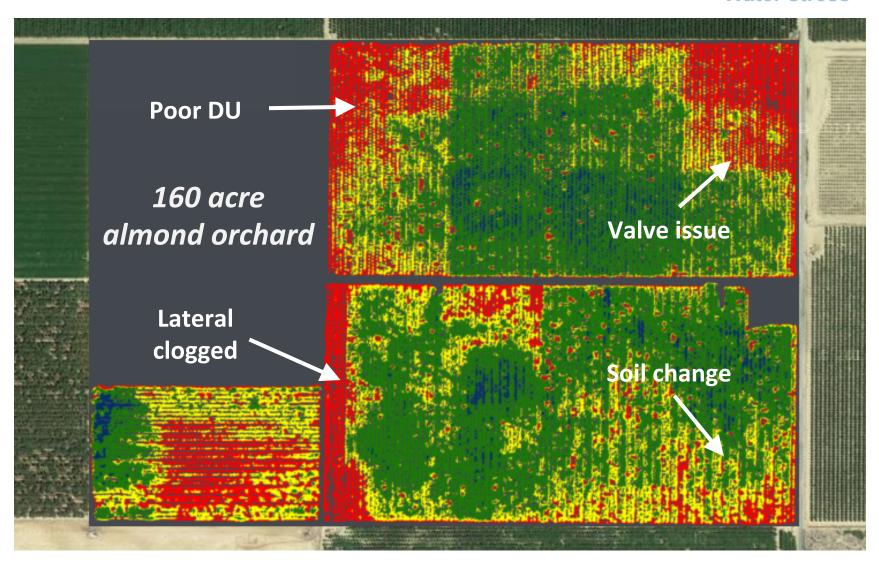






Distribution uniformity

Water stress



Stem water potential (negative bars)









8-12

Applicability|

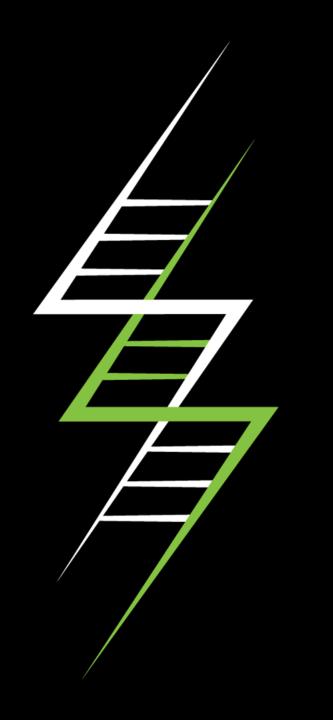
Success among broad commodities, crop sizes, and locations



- **Crop Clientele:** Walnuts, Almonds, Grapes, Pistachios, Peaches, Cherries, Tomatoes, Corn, Cotton, Alfalfa, Sweet Potatoes, Cattle, etc.
- **Crop size Range:** 30 acres 30k+ acres
- **Location:** Aerial imaging enables accessibility of coverage to geographically diverse terrain), expansive fields (500 acres+), and non-contiguous blocks



Mike Guerin
VP, Business Development
mike@ceresimaging.net
347 599 3669

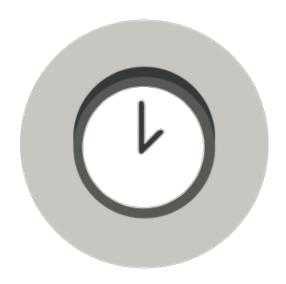


Sense TM Sense TM Technologies

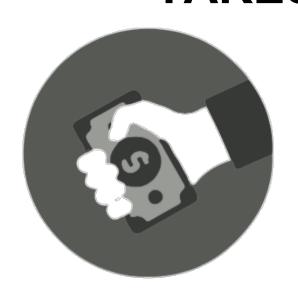
SWAMP Presentation June 29, 2017



MEASURING WHAT'S IN YOUR WATER TAKES...



TIME
Multiple Days



MONEY
Collecting, Shipping,
Analyzing



SENSITIVITY

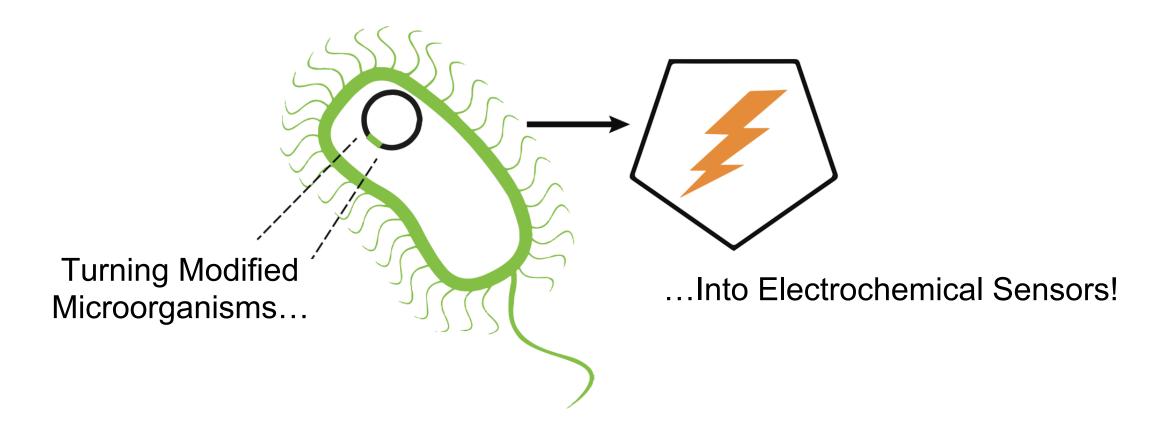
Limited Accuracy



WE HAVE THE SOLUTION: MEET FRED™

Field Ready Electrochemical Detector:

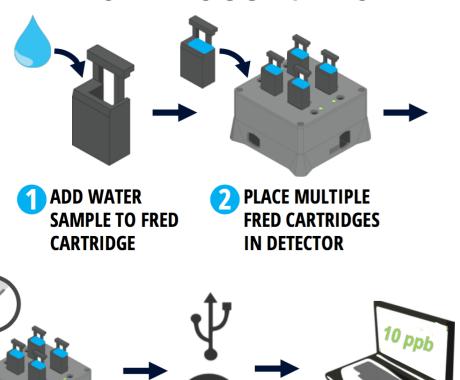
A portable, patent-issued, and sensitive chemical detection platform





WE HAVE THE SOLUTION: MEET FRED™

How Does It Work?





(3) WAIT FOR ~ 1H

S RESULTS DISPLAY CONTAMINANT CONCENTRATION

Prototype Unit





PILOT ROI's and FIRST REVENUES

FRED reduces operational costs

Reduce Rework, Prevent Repeated Visits to Site Decrease Time to Make Decisions.





FRED is a Multi-Parameter Tool

Waste Water Applications – Custom Sensors For Fast Decision Making

Process Decisions and Integration



Custom

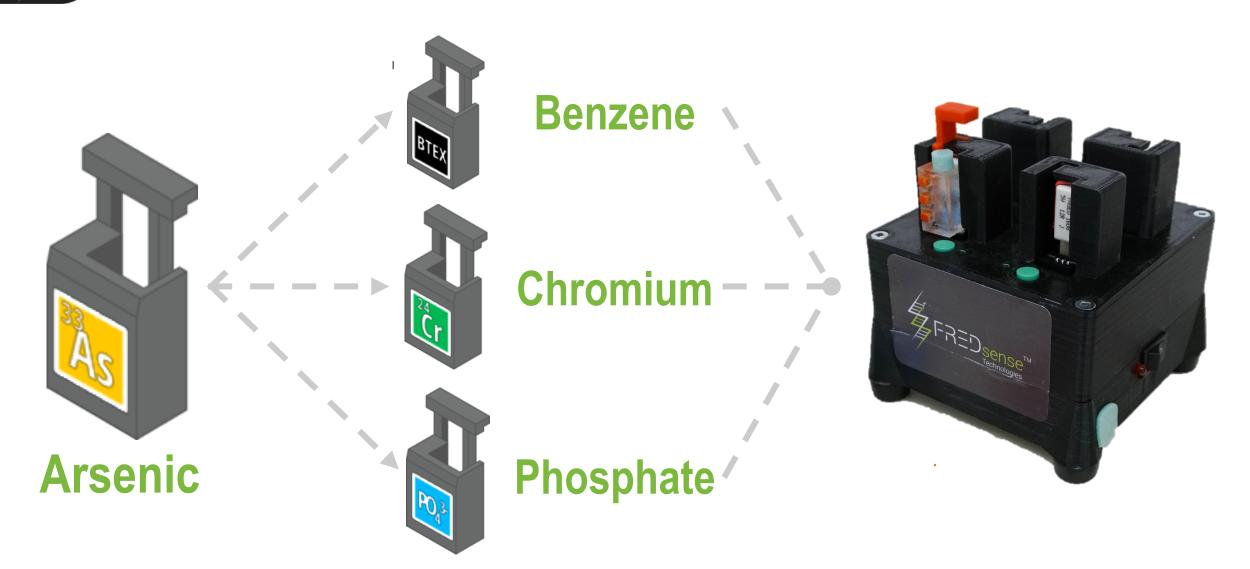








FREDTM IS A PLATFORM NOT A PRODUCT



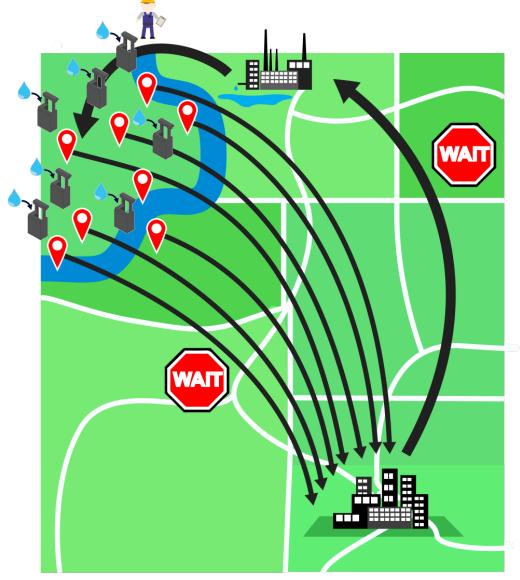


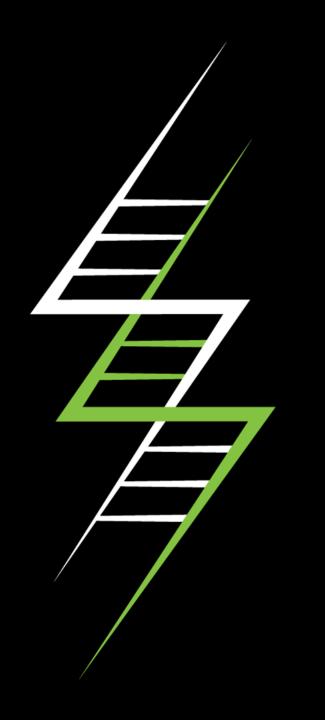
WATERSHED MONITORING

TRAVEL TO SITE

2 SAMPLE VARIOUS SITES

REPORT DATA IN 60 MINUTES





Sense TM Sense TM Technologies

Water Monitoring Is Out of Date

FRED is Fast, Easy and Scalable

questions@fredsense.com





SGMA

A groundwater sustainability plan includes

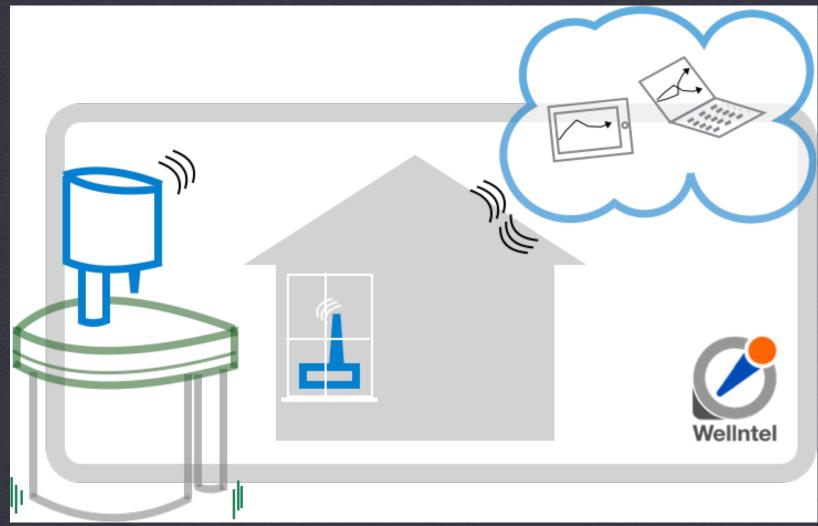
groundwater levels, groundwater quality, subsidence, and groundwater-surface water interaction

... and encourages

the active involvement of diverse social, cultural, and economic elements of the population within the groundwater basin

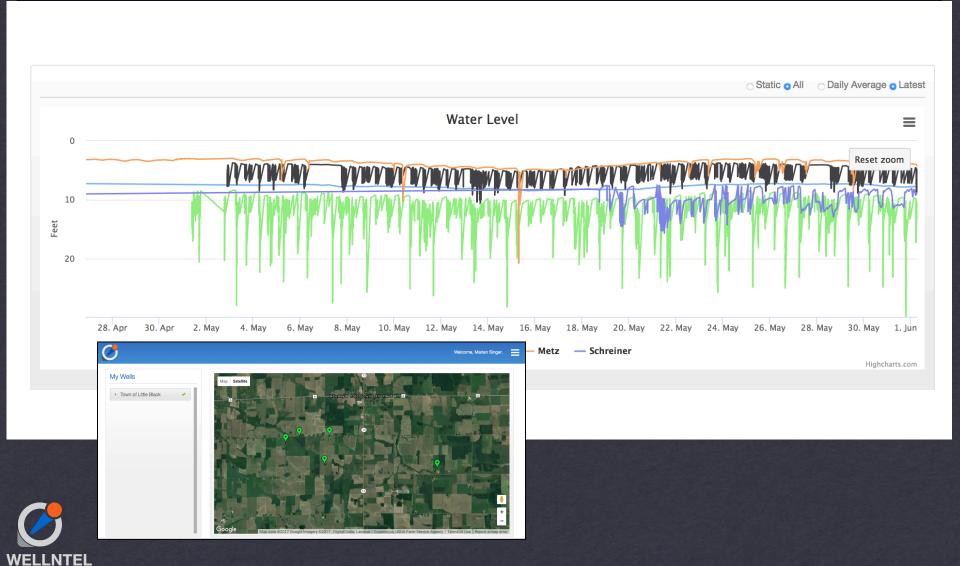


Wellntel groundwater information system

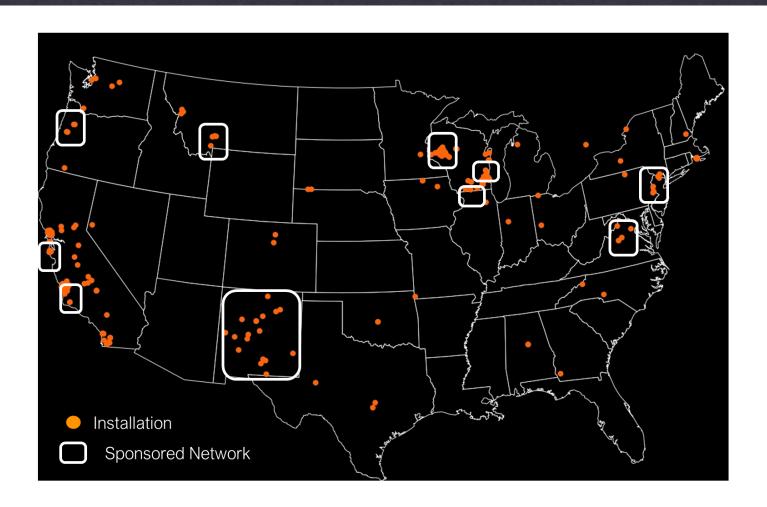




Wellntel dashboard



Wellntel networks





Thank you



IMAGINE (H₂O

Thank You

nashelley@imagineh2o.org