WellIntel is Supporting Research by Transforming Groundwater Data Crowdsourcing

Dr. Joe Fillingham, Science Lead
Marian Singer, CEO
Nick Hayes, CTO

WELLNTEL

IMAGINE H2O
RUNNER-UP

Groundwater …

50% of drinking water

42% of irrigation water

60% of US pop. lives in a stressed area

12M wells = property + production value for

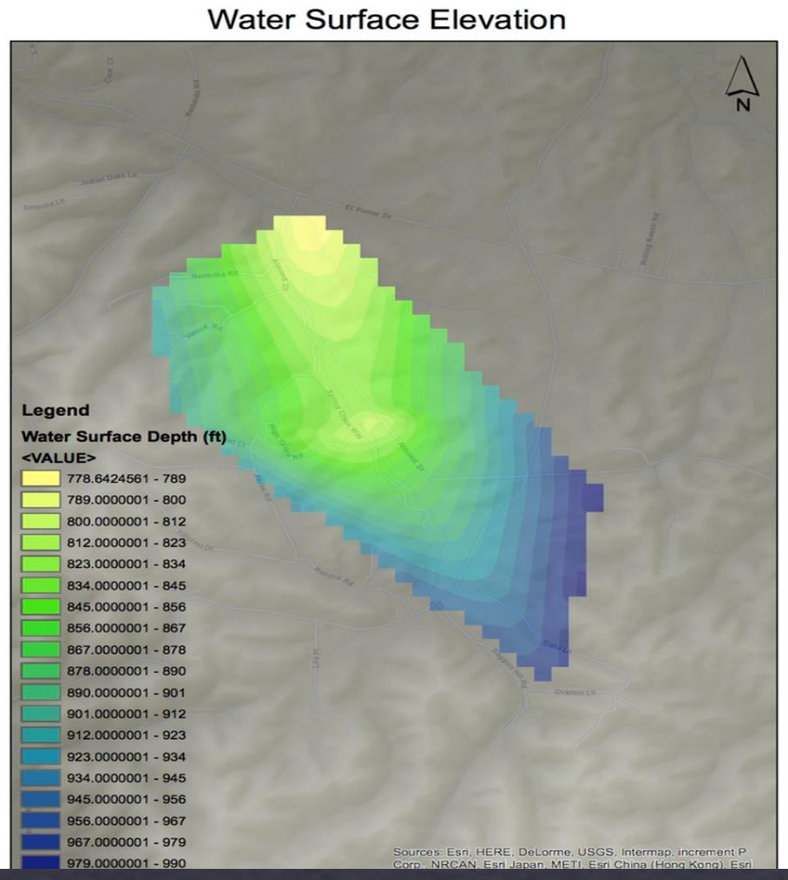
44M homeowners and farmers

Vital, but stressed & unseen…

WELLNTEL

Our goal is to democratize groundwater information…

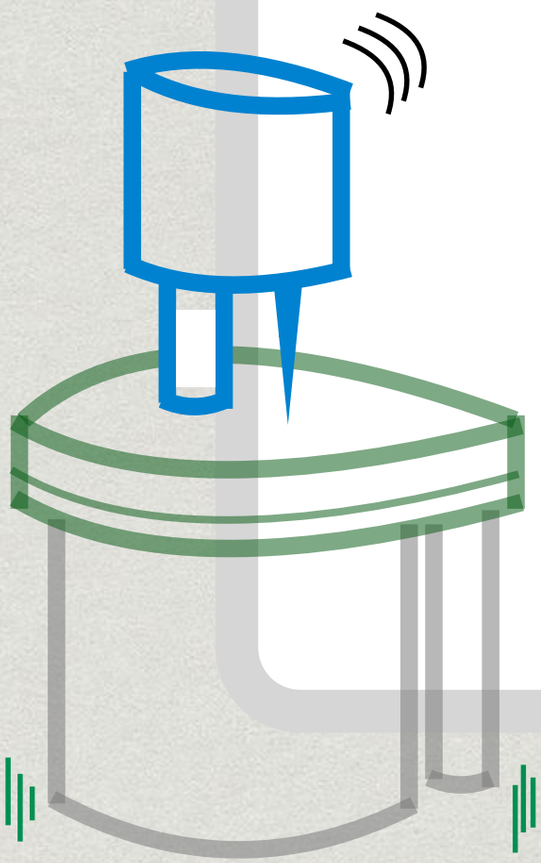
Vast yet **Local**
Useful and **Understandable**
Environmental and **Entrepreneurial**



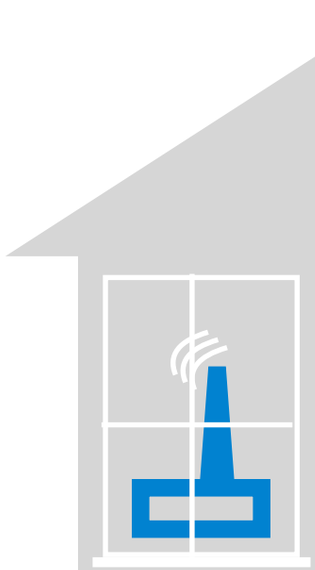
WELLNTEL

VISION

… with a disruptive, simple, and complete system



1.) Sensor



2.) Gateway

3.) Cloud

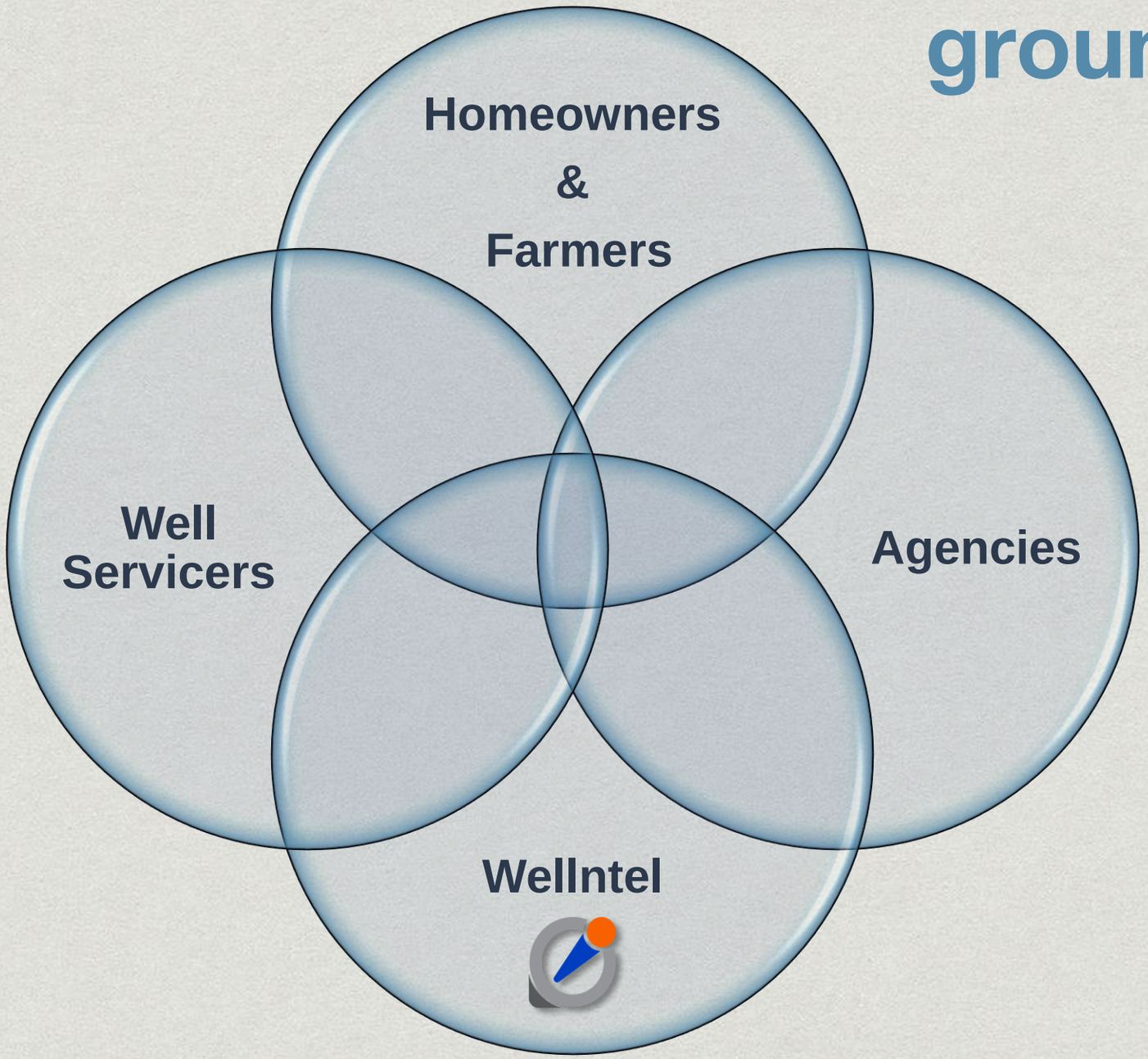
Patents Pending

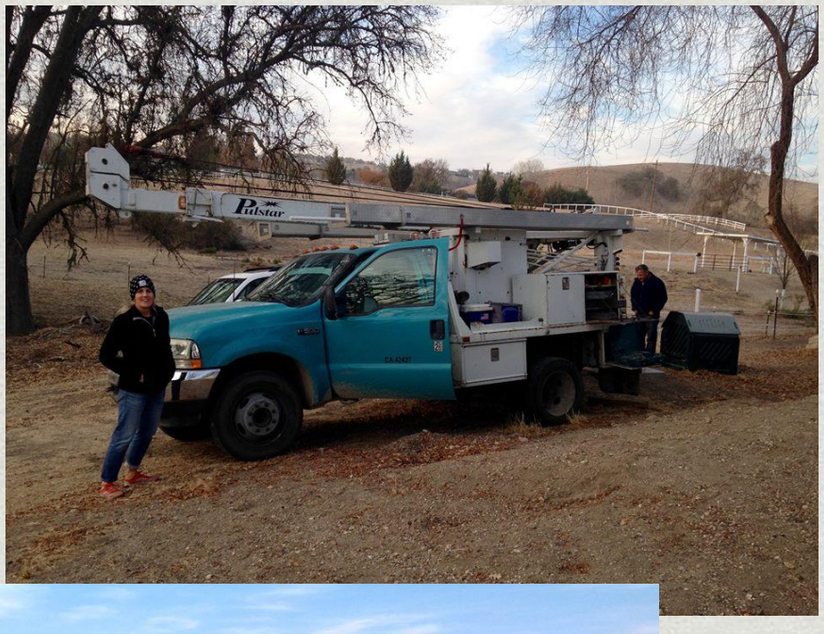
* Provisional and pending patents on device, installations method data algorithms, and new sensors not shown.

WellIntel is…

Useful because it's **Easy**
Scalable because it's **Simple**
Powerful because it's **Adaptive**
Impactful because it's **Democratic**…

...and recommended by well professionals and groundwater experts

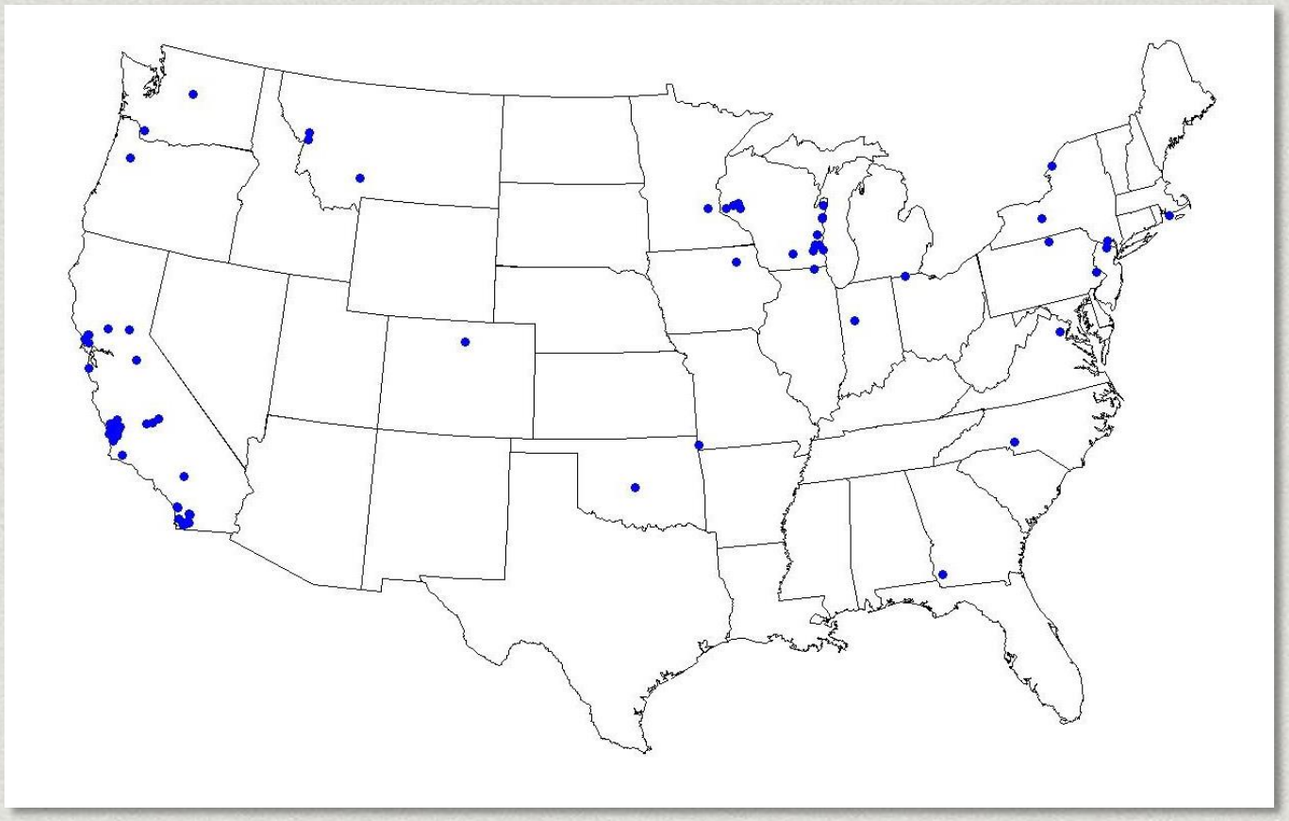




WELLNTEL

MODEL

Expanding spatial and temporal coverage



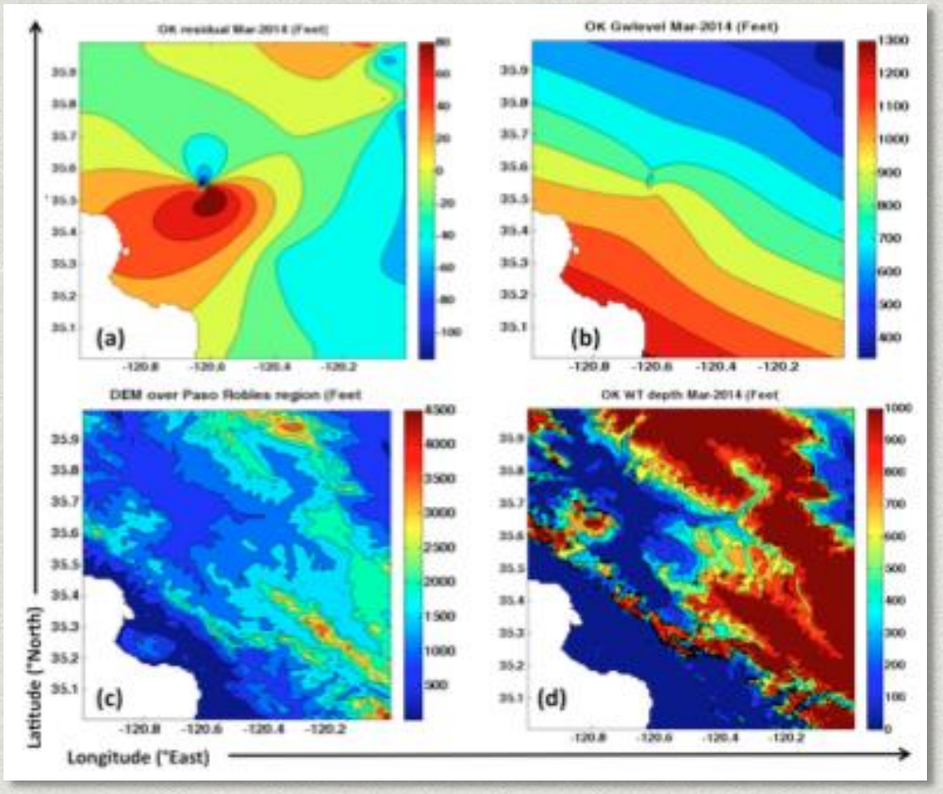
Engaging stakeholders

Informing sustainable actions

WELLNTEL

IMPACT

Along the way we have started to change the conversation



Berkeley report confirms dense data supports modeling efforts, leads to new understanding

Identifying problems, improving efficiency, informing management and policy

WELLNTEL

IMPACT

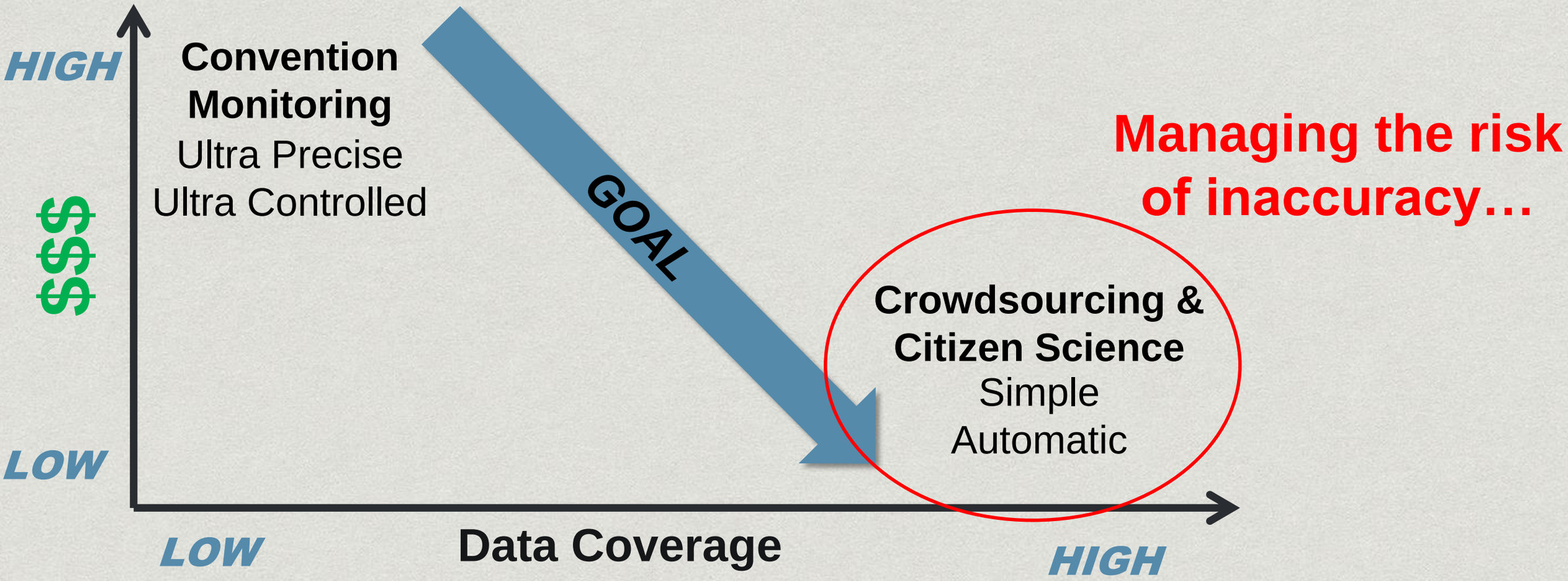
Tackling Crowdsourcing Challenges

- ***Purpose Built***
- ***Automatic***
- ***Adaptable***
- ***Secure***
- ***Open & Sharable***

Accessible
Affordable

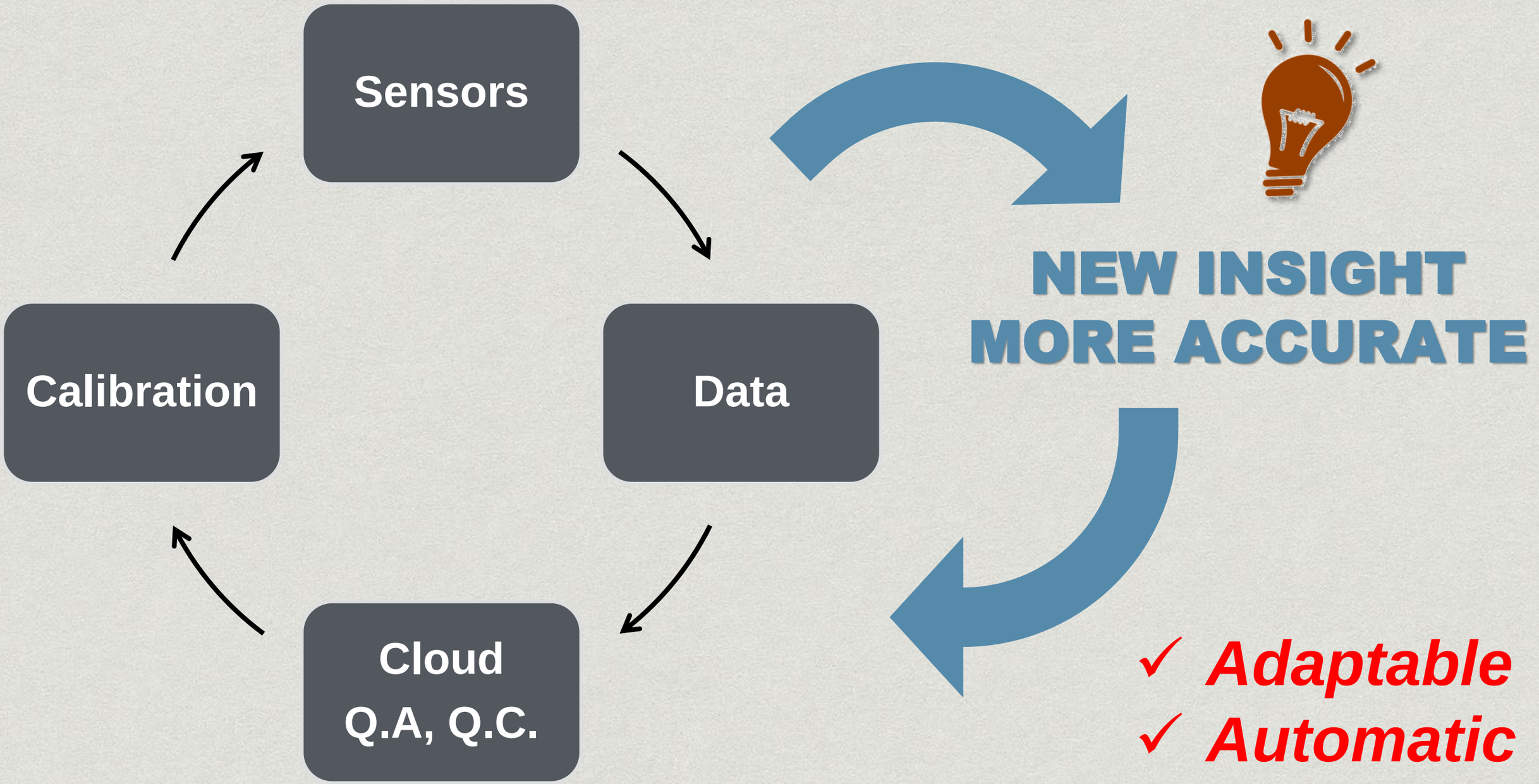
Evaluating Risk in scientific monitoring…

RISK = $$$ x (Chance of Failure)



Crowdsourcing groundwater data is critical!

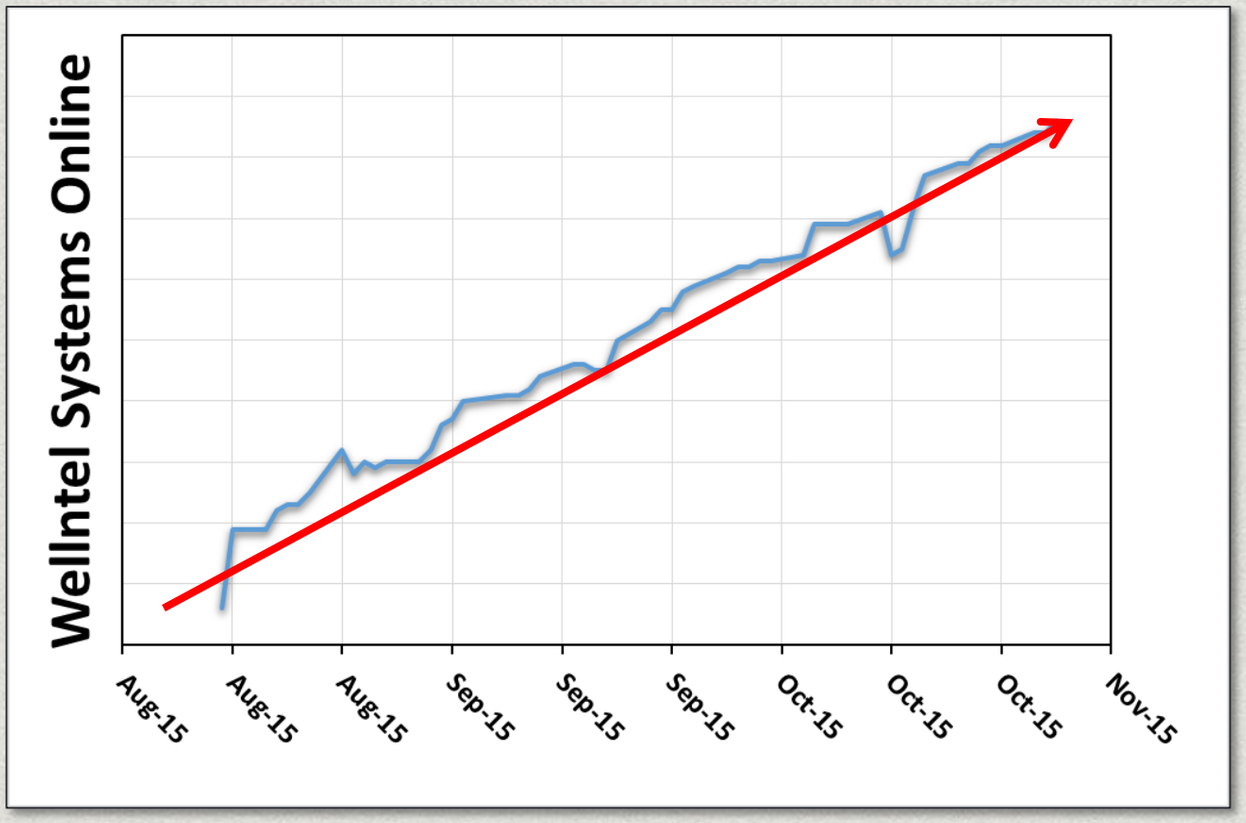
The cloud allows WellIntel to…



…use history and neighbors as guides

WellIntel is growing and customers are sharing with science!

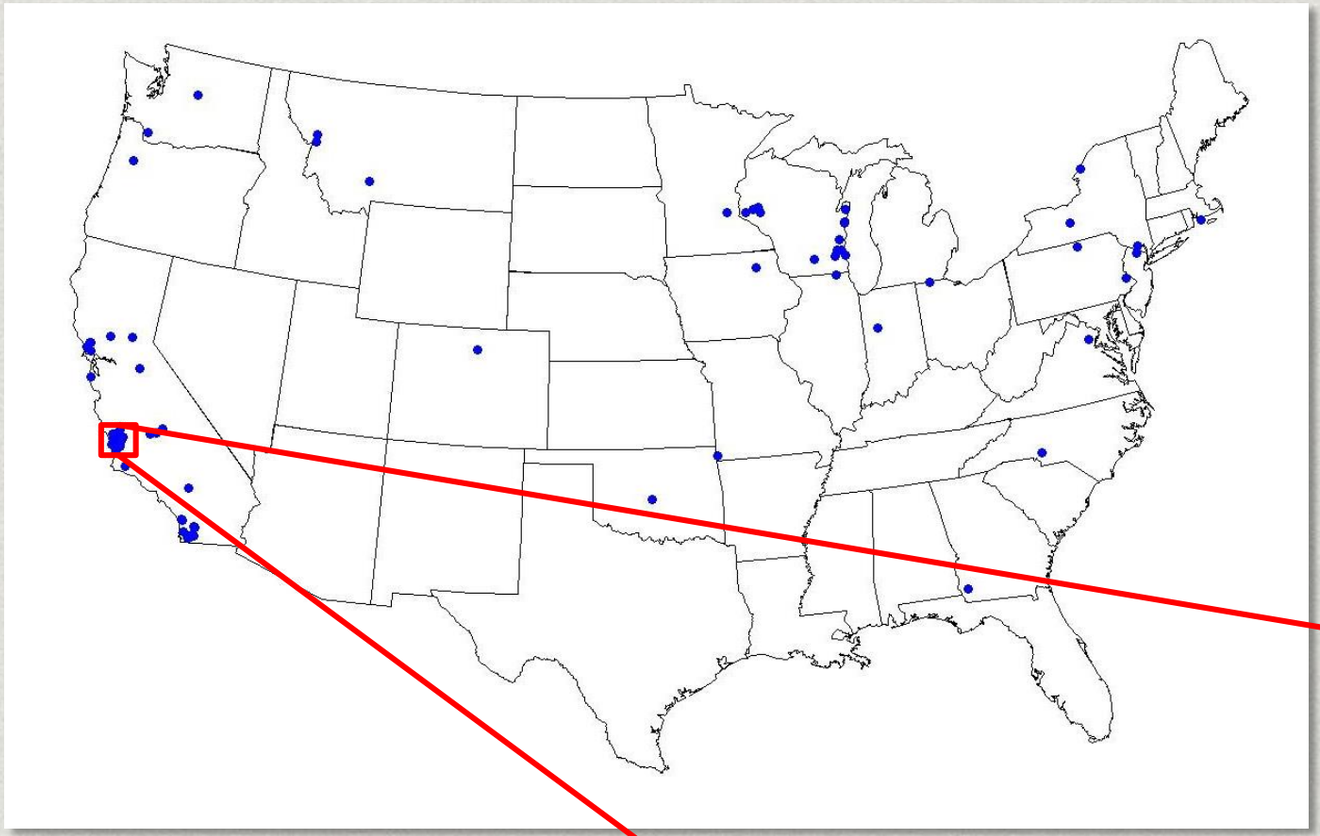
1,500,000
measurements in the first 6 months

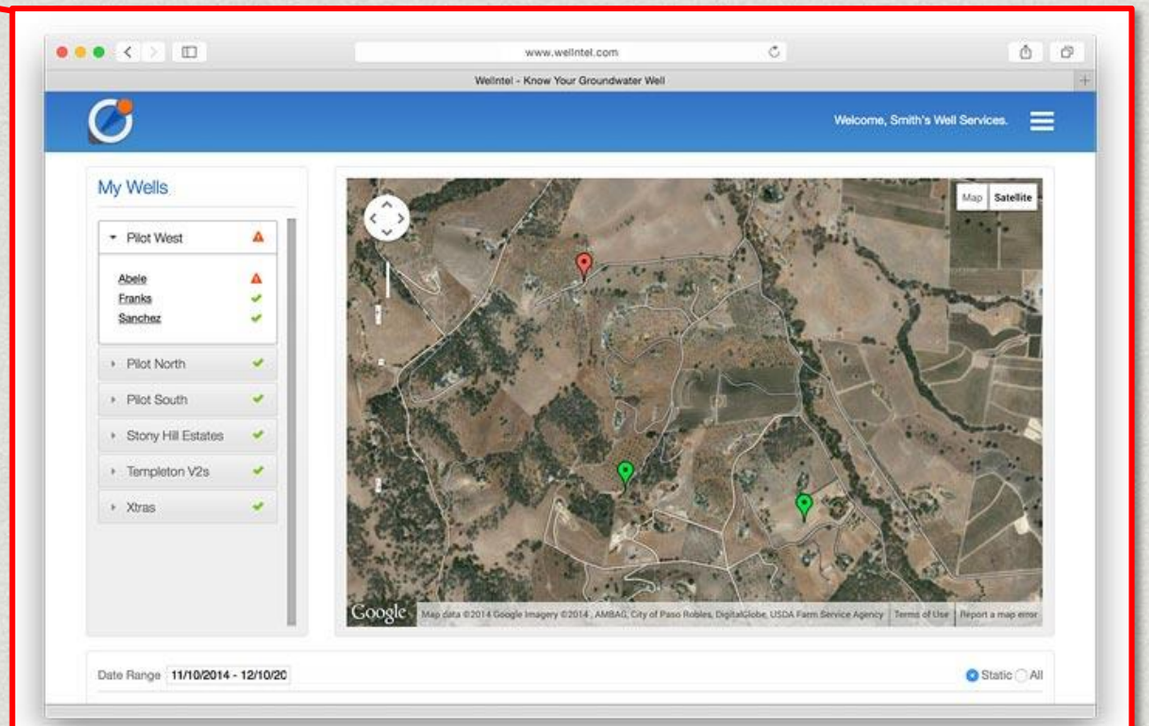


WELLNTEL

GROWTH

Develop partnerships focused on regional networks through stakeholders and…





- Communities
- Agencies
- Sentinel Sites
- Education Centers

WELLNTEL

GOALS

www.wellntel.com

Joe Fillingham, Science Lead
jhfillingham@wellntel.com

Marian Singer, CEO
mjsinger@wellntel.com

Nick Hayes, CTO
ndhayes@wellntel.com

WELLNTEL

IMAGINE | H_2O
RUNNER-UP