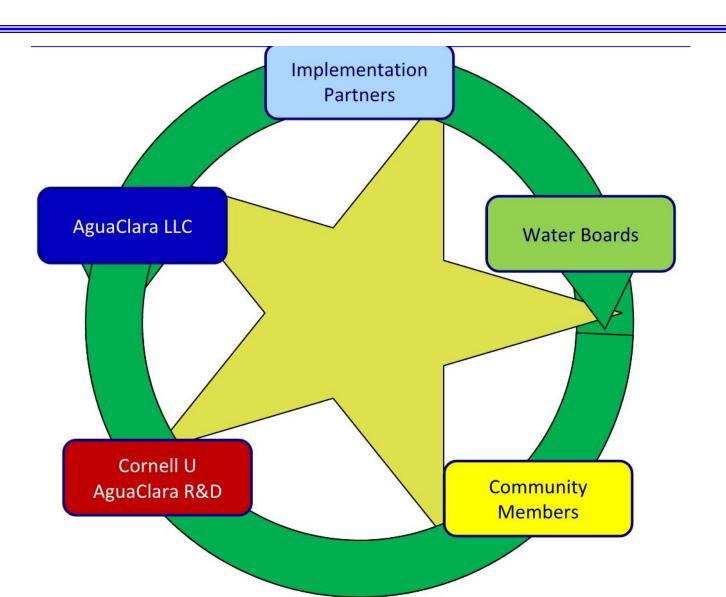




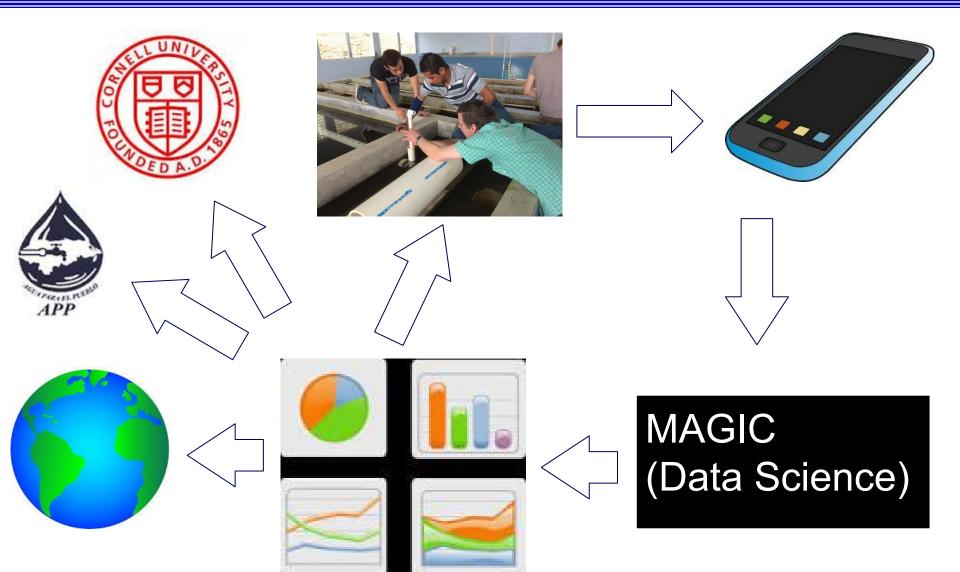


What is POST?





What is POST?



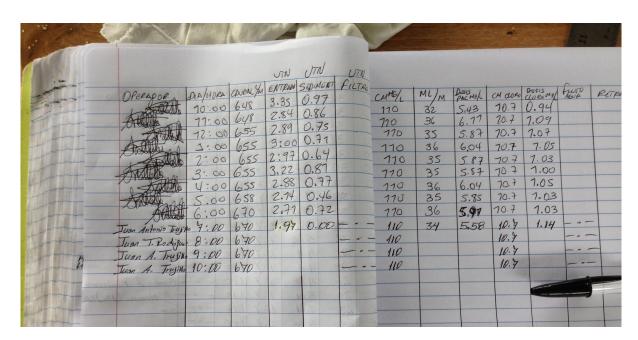


Current Data Collection

> Wash4All SMS entered daily:

"49010";"ati";"2016-01-07 11:20:47";"pctotal";1.3071903043688;"#cod ati #con ac2005 #cau 900 #tac 11.36 #tas 0.56 #coa 3.33 #clo 0.52 #com";" +50495262535";"Atima"

> Paper log



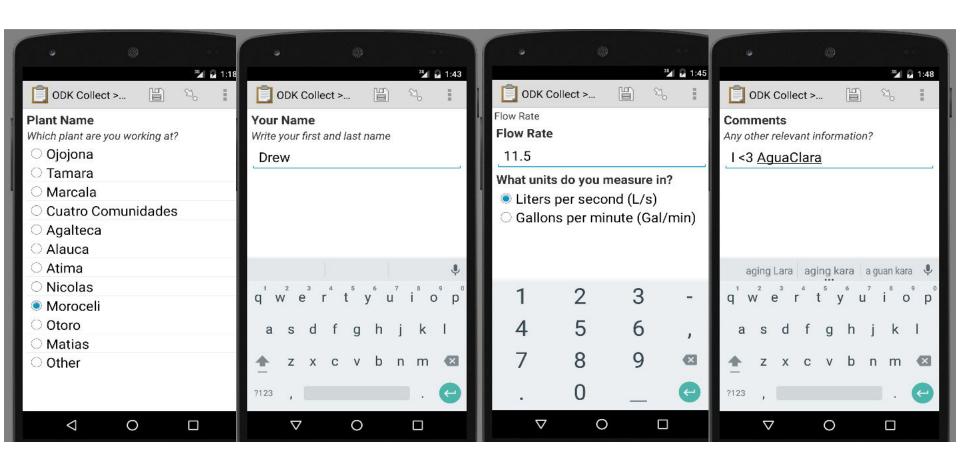


AguaClara Administrative Console

Aggregate Console

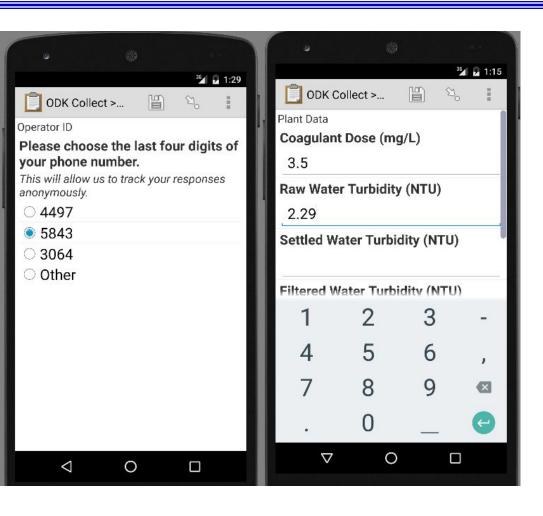


POST v0





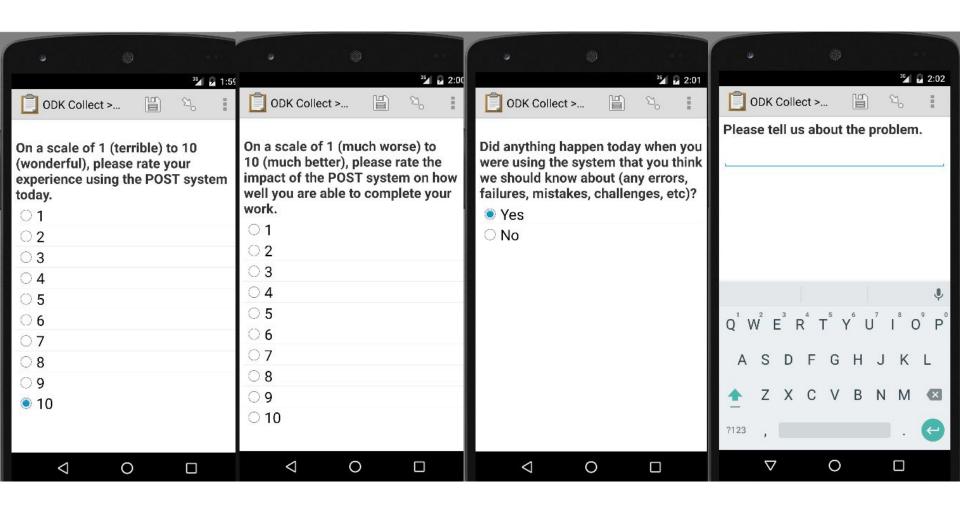
Upcoming: POST v1



- Anonymized
- > Choose to:
 - Report a backwash
 - Enter plant data
 - Report necessary maintenance
 - Report performed maintenance
- All data questions on one screen



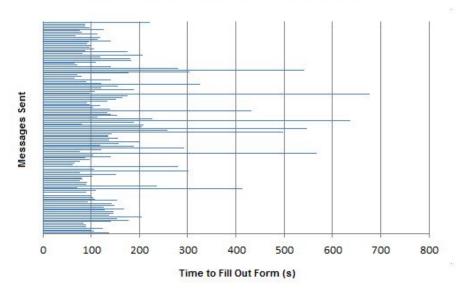
Feedback Collection





Usage Patterns





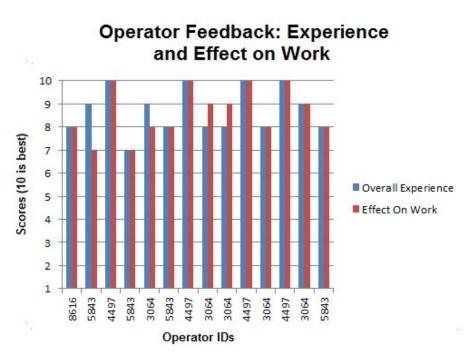
- > First version deployed in Morocelí, Honduras
- > Operators uploading an average of once per hour
- Takes about two minutes to fill out



Feedback Results

Sí, me ha ayudado porque este trabajo no es solamente en el cuaderno, nos ayuda tambien el telefono, debemos de irnos actualizando. Es una forma de ir saliendo o dejar de la rutina, aspirar a otras cosas, ir aprendiendo, actualizando.

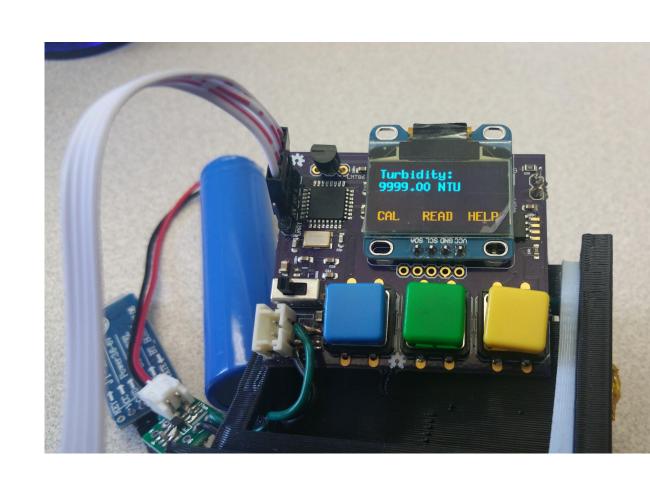
"Yes, it's helped me because this work isn't just in the notebook, the phone helps us too, we should continue updating ourselves. It's a way to leave our routine, to improve and learn and update ourselves."





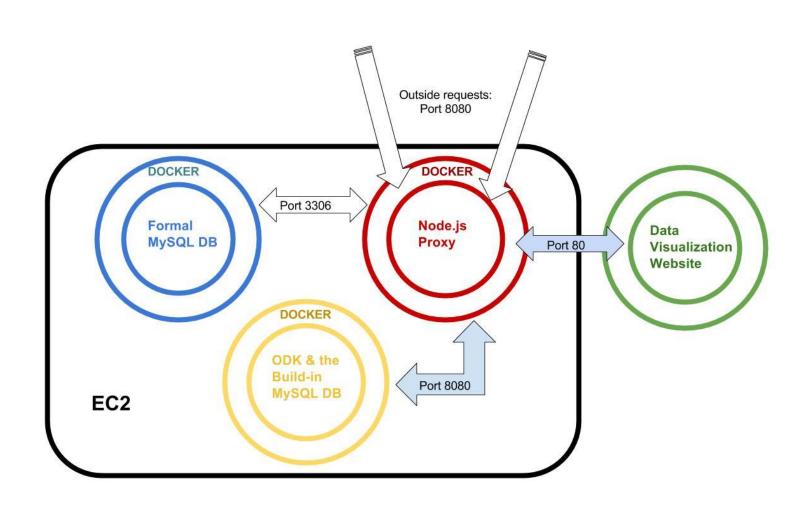
AguaClara Bluetooth Turbidimeter

- Pros
 - > Inexpensive
 - > Inline option
 - Direct connection to POST
- > Challenges
 - > Accuracy
 - > Reliability





AguaClara Backend Infrastructure

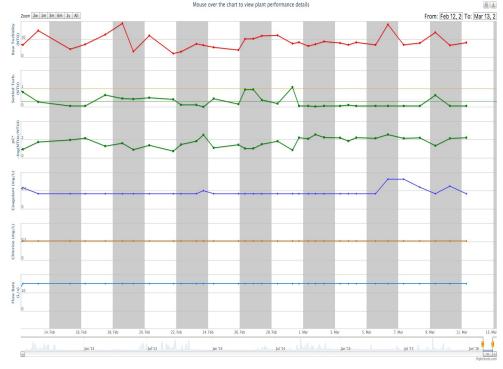




AguaClara Current Data Visualizations

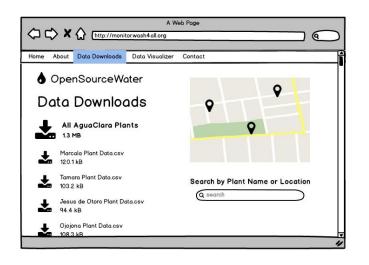
- Data v. Time:
 - Cl dose
 - Coagulant dose
 - Flow rate
 - pC*
 - Turbidities



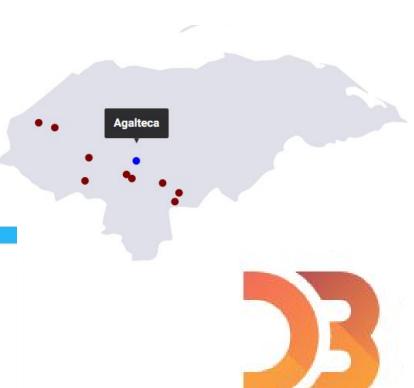




Visualizations

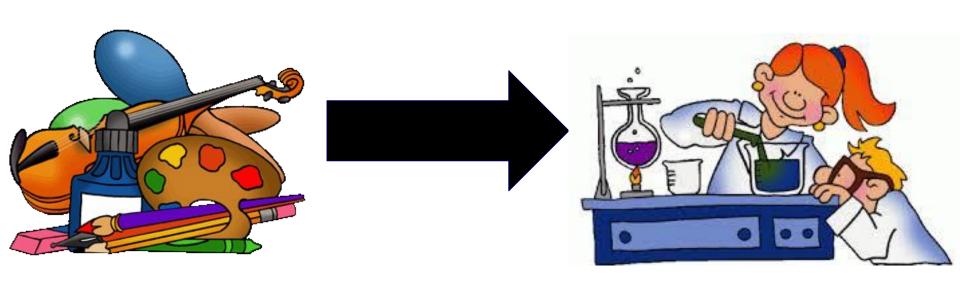








Proposed Visualizations??



IDEAS?



Future Work

- > Finish/launch visualization website
- Continue to collect feedback and iterate
- ➤ Integrate Bluetooth turbidimeter
- Machine learning + trend predictions



Questions?

