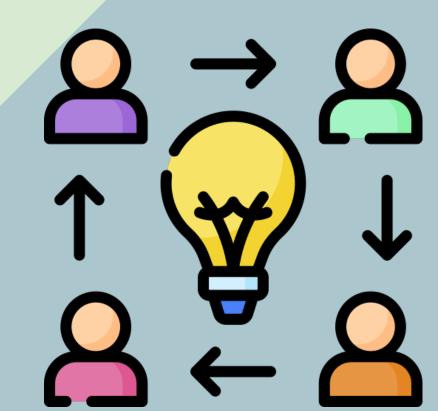
Microreact and Data.flo for more than genomic epidemiology

SPHERES Meeting
May 25th, 2022
Robert A. Petit III, PhD

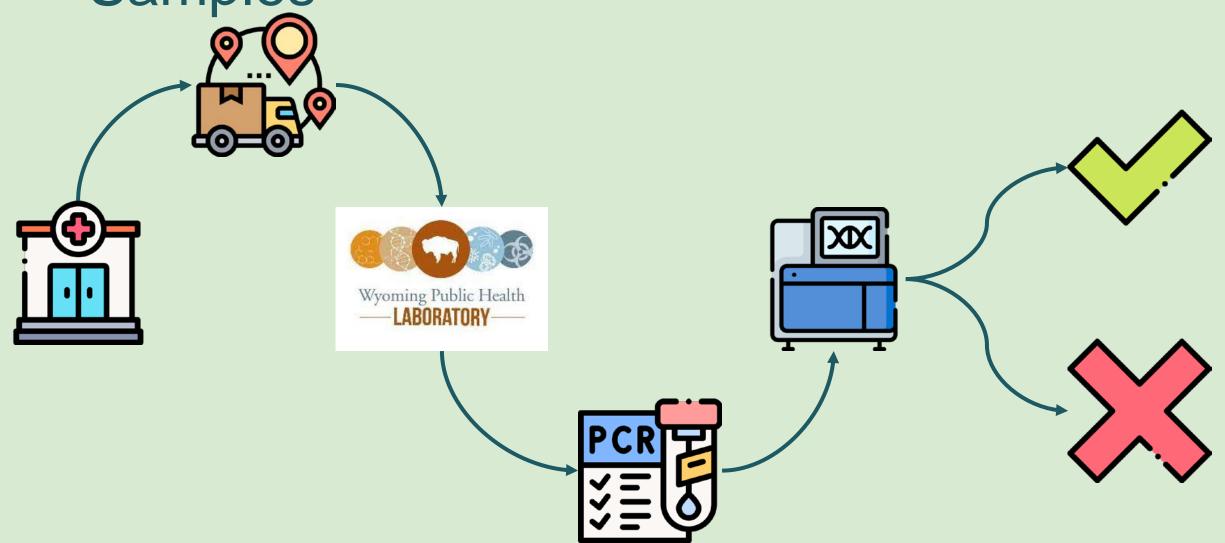


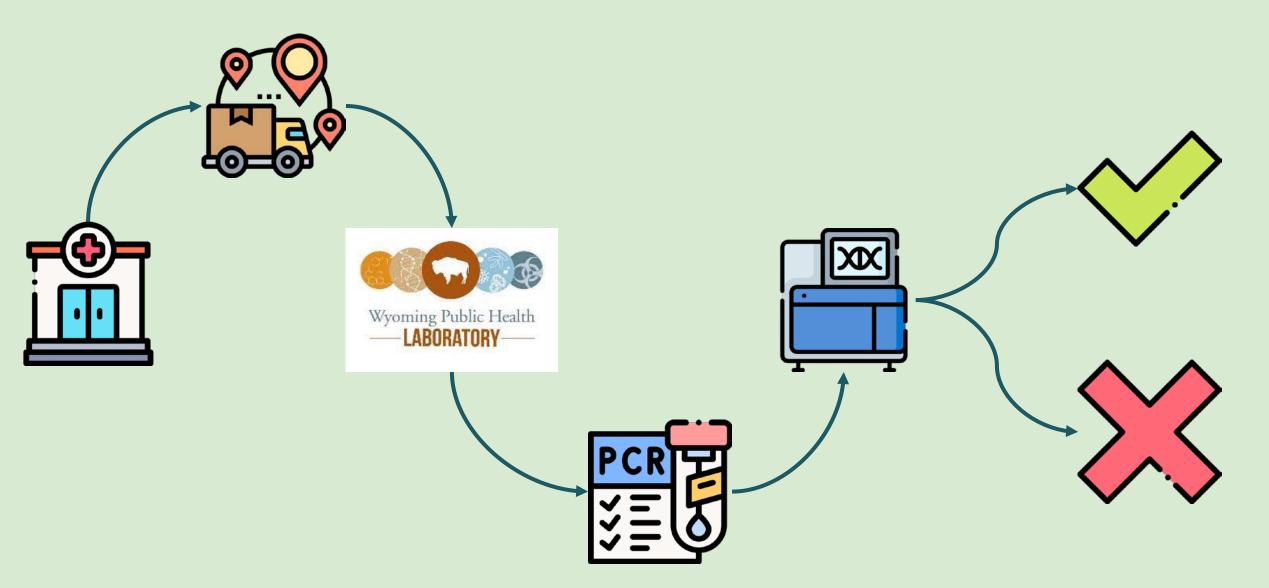
Yes!
Data.flo and Microreact can do way more than genomic epidemiology

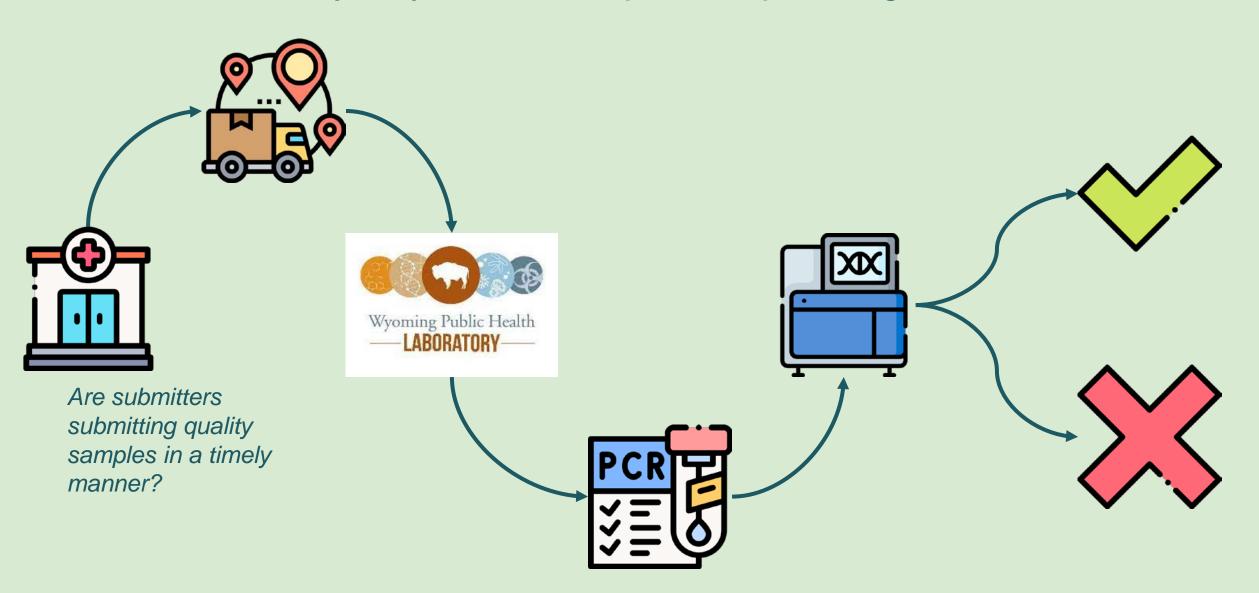


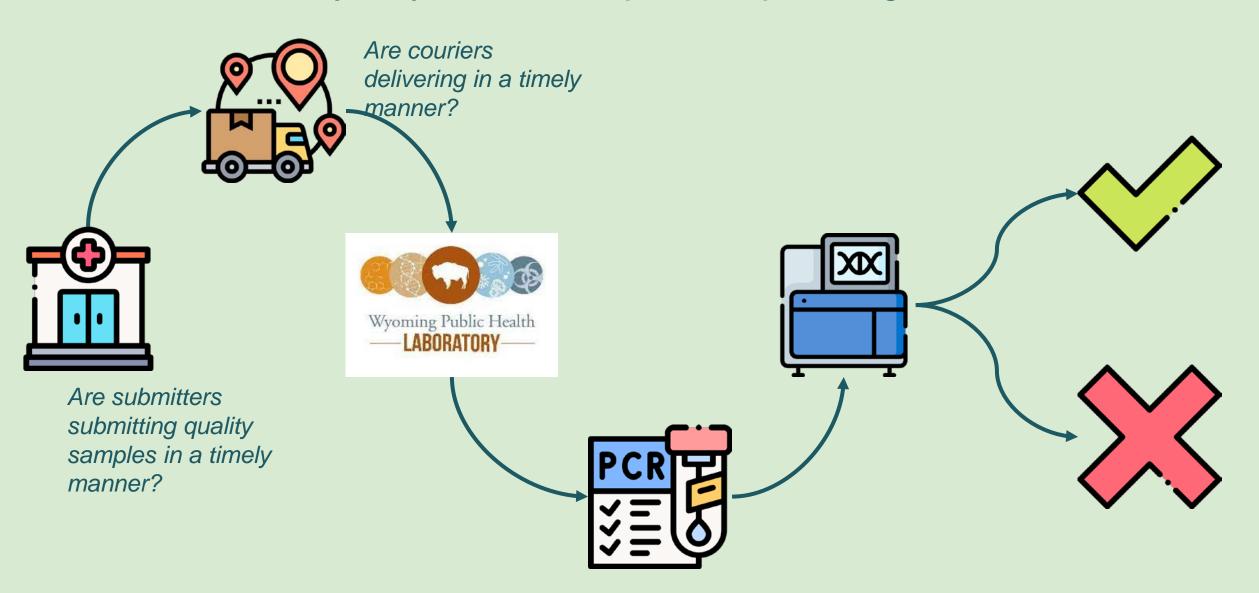
How can we use this at WPHL for day-to-day activities?

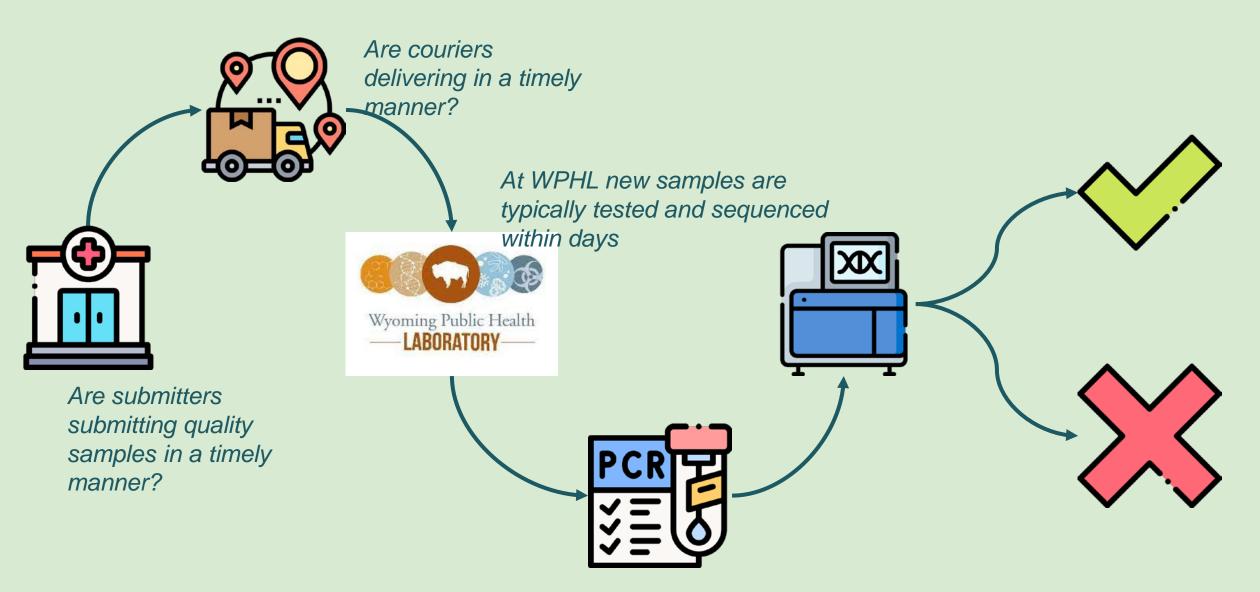
WPHL aims to sequence all PCR+ SC2 Samples







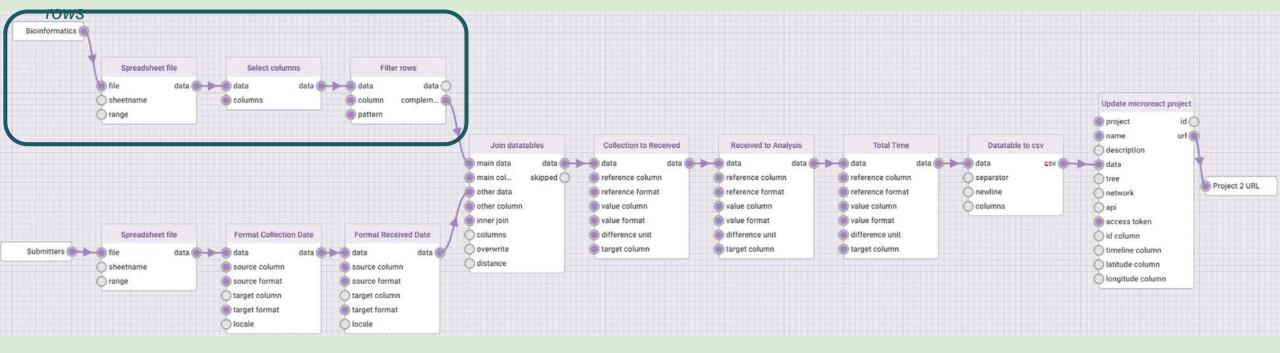




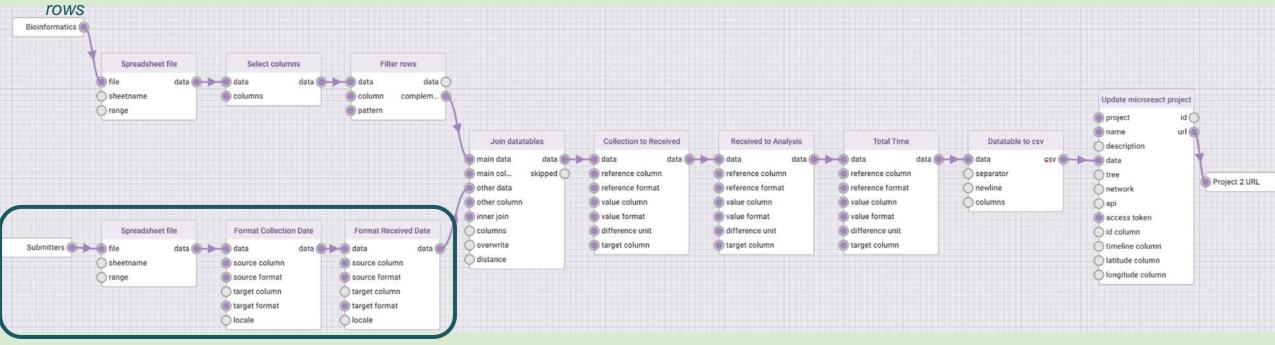
We started using Data.flo and Microreact to answer these questions



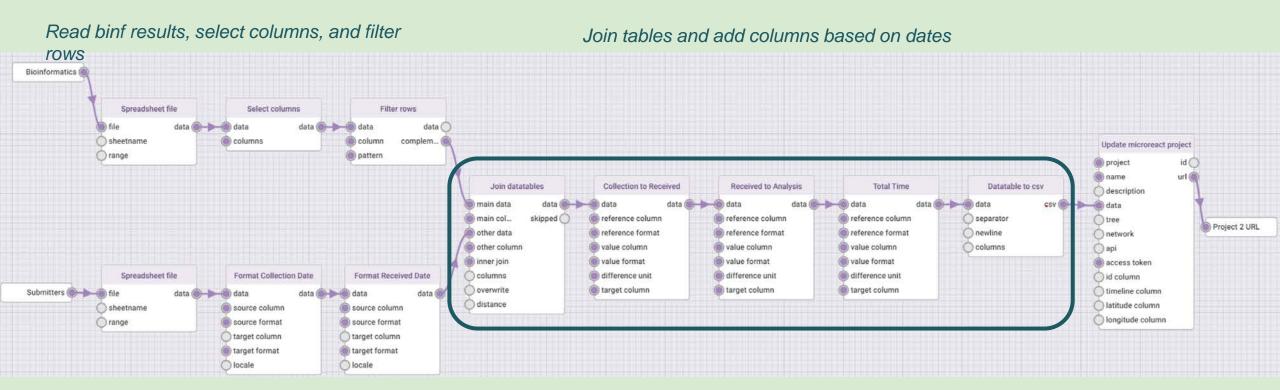
Read binf results, select columns, and filter



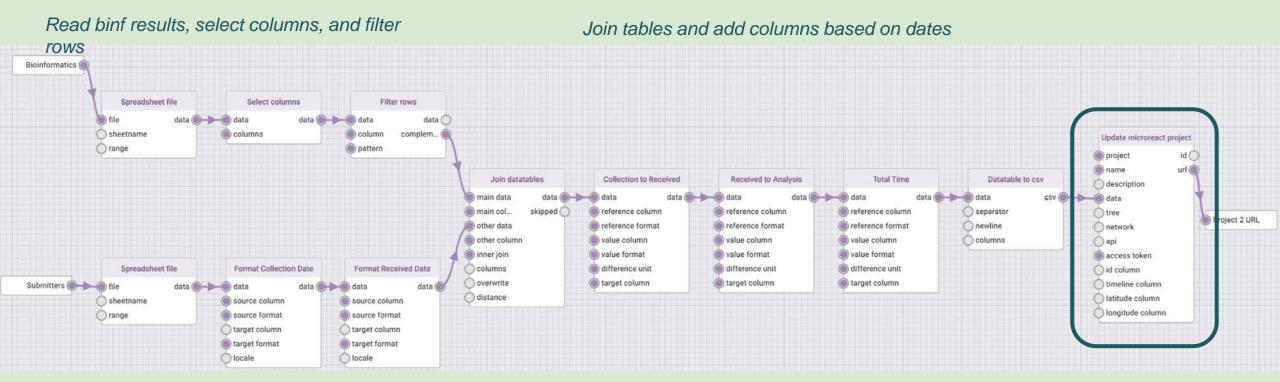
Read binf results, select columns, and filter



Read submitter info and format dates



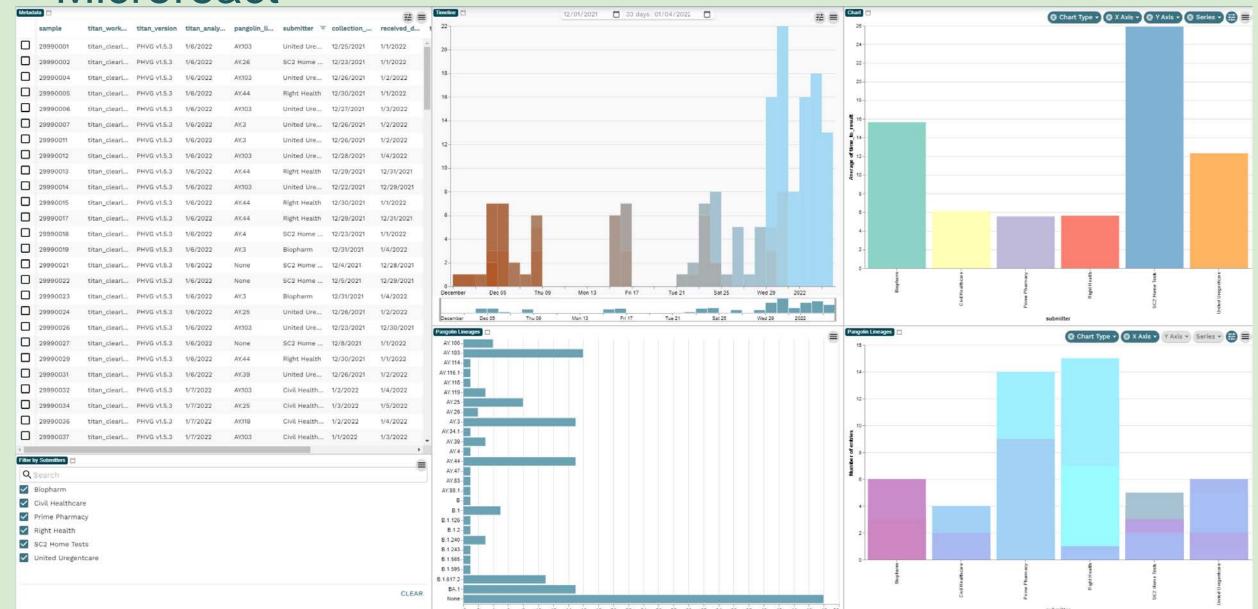
Read submitter info and format dates

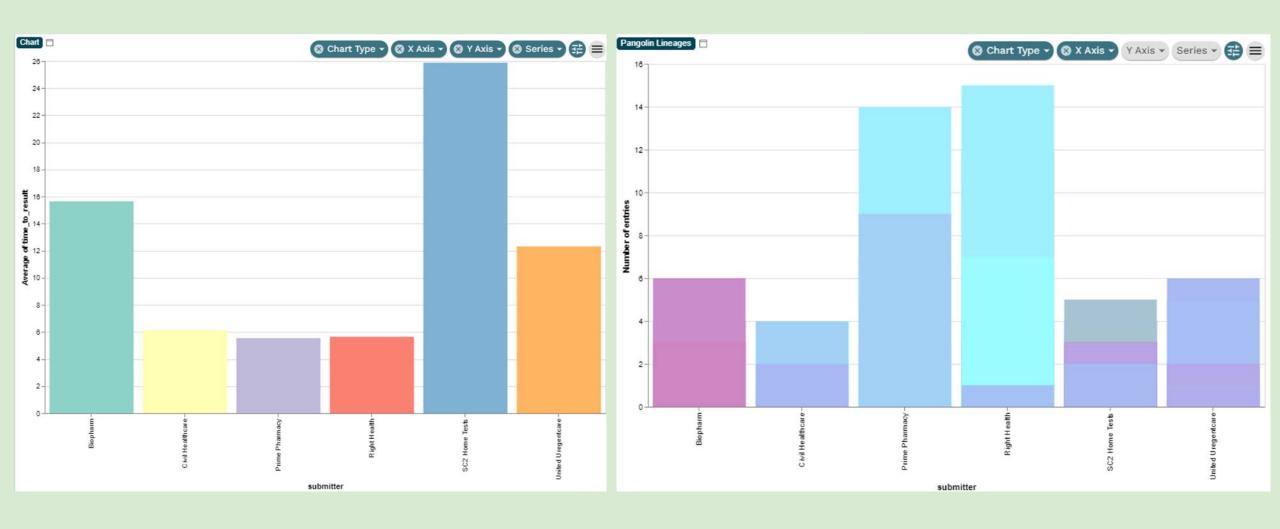


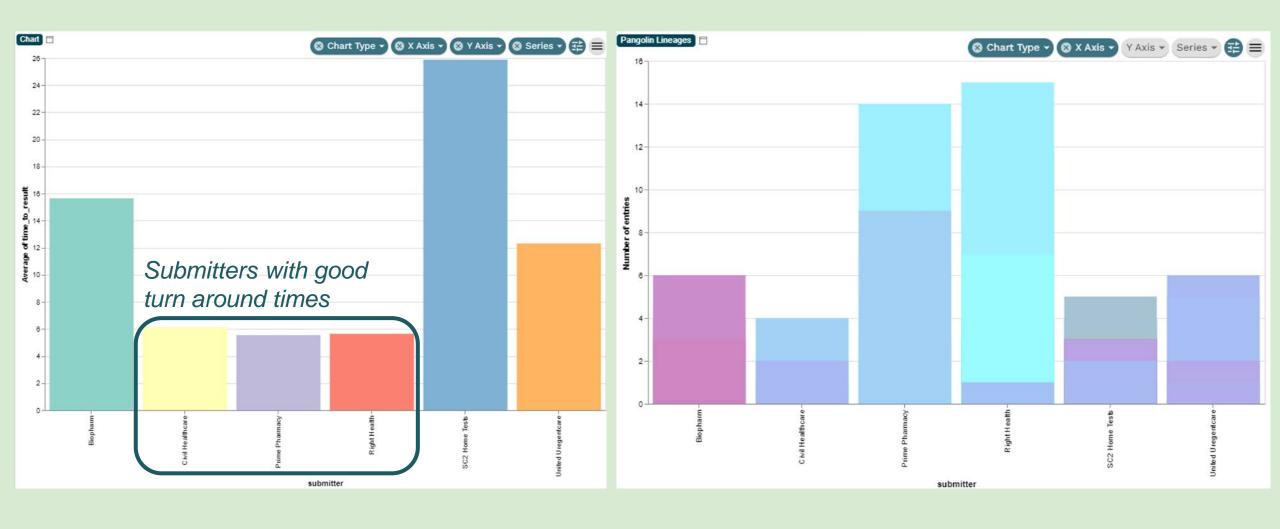
Read submitter info and format dates

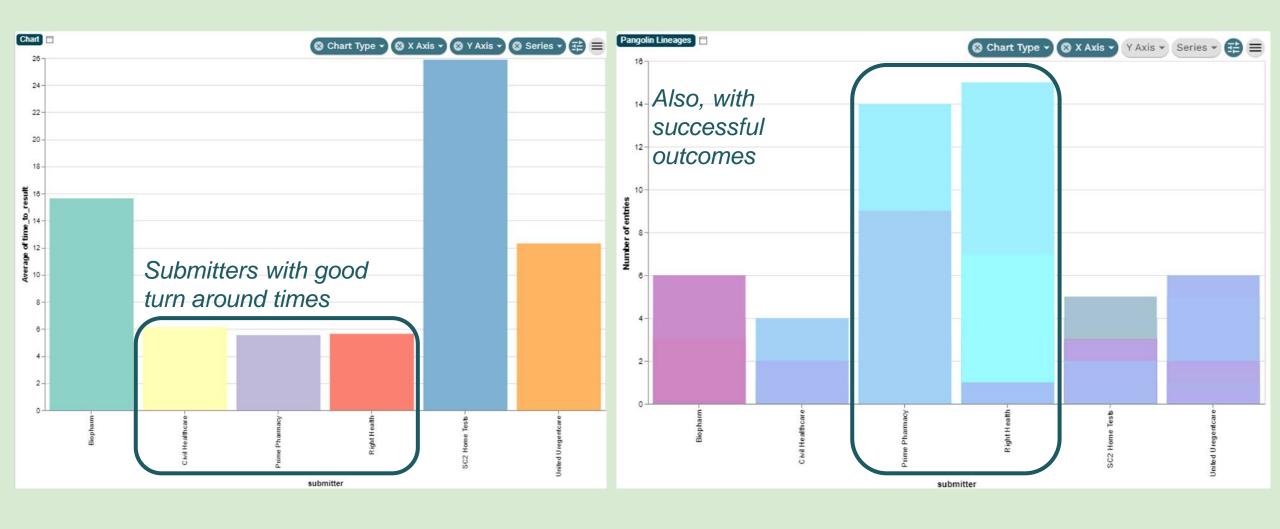
Read it all into Microreact

With a few more clicks, we have a dashboard in Microreact

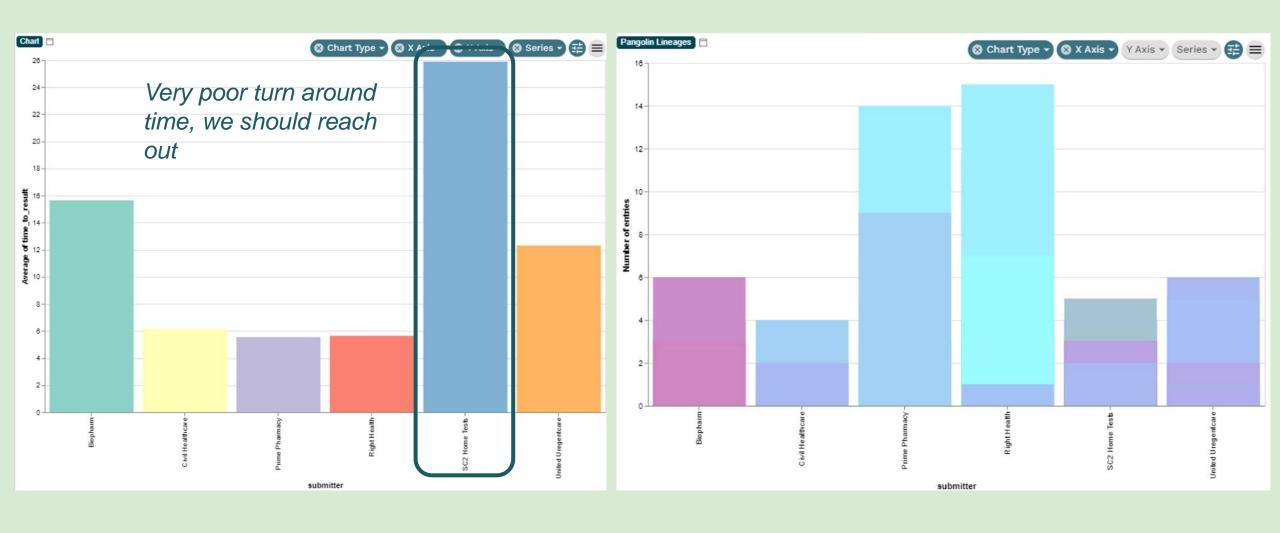












YES V

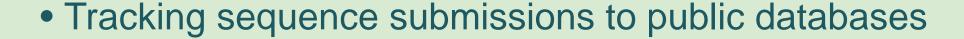
Other WPHL use-cases for Data.flo and Microreact

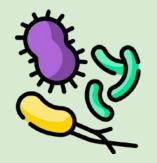






Monitoring primer drop-outs for guidance on switching primers



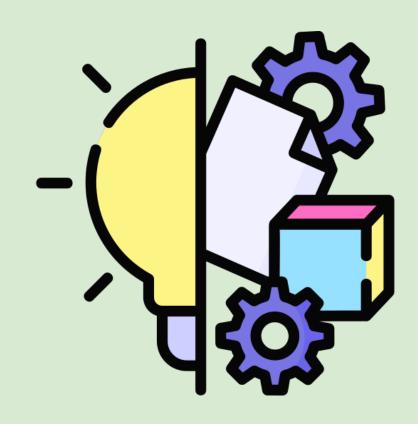


Expanded usage for HAI, AMR, foodborne, wastewater, etc...

Many more!

Summary

- Data.flo allows complex data manipulations
 - Joins, replacements, filters, regex, in a few clicks
- Microreact allows complex visualizations
 - Many charts, tables, trees, in a few clicks
- Very intuitive to get started
- This leads to more science



Acknowledgements



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Elisha Sprong



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Heather Shane

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Kristen Connolly



