

TEAM NEPTUNE

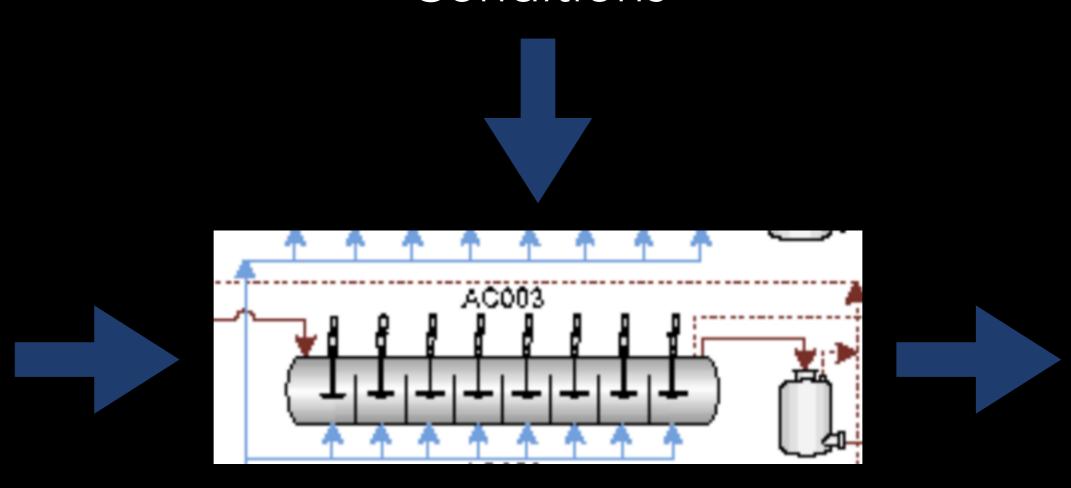
WAEL FARAH, COLIN JACOBS, SRDJAN KOTUS, THEMIYA NANAYAKKARA, VIVEK VENKATRAMAN KRISHNAN

ASTRO = BIG DATA



LIHIR AUTOCLAVE CHALLENGE

Conditions



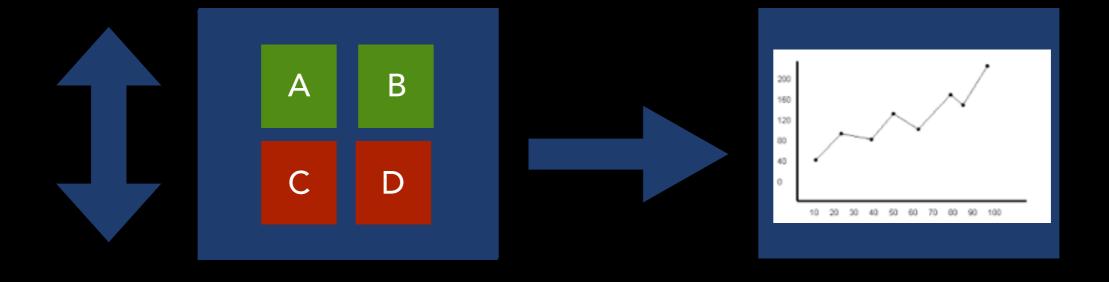
What we have: Data

- Internal sensor
 network, outputs
 every 5 minutes
- 12 months of data
- Metrics to measure performance

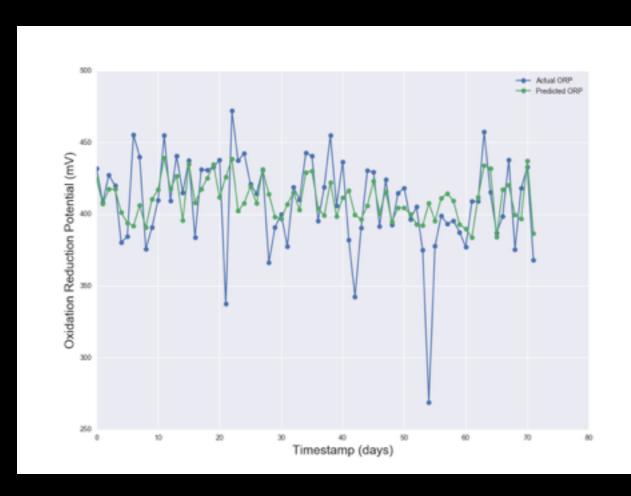
What we want: Change

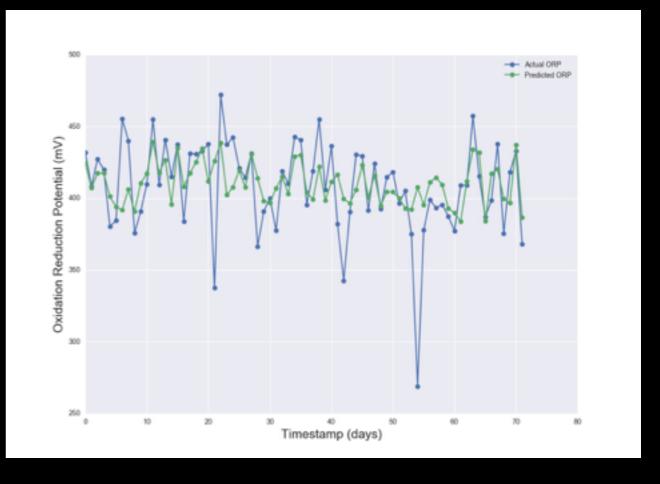
- New insights into the operation of these systems
- A way to action this understanding

WHY



BUILDING MODEL





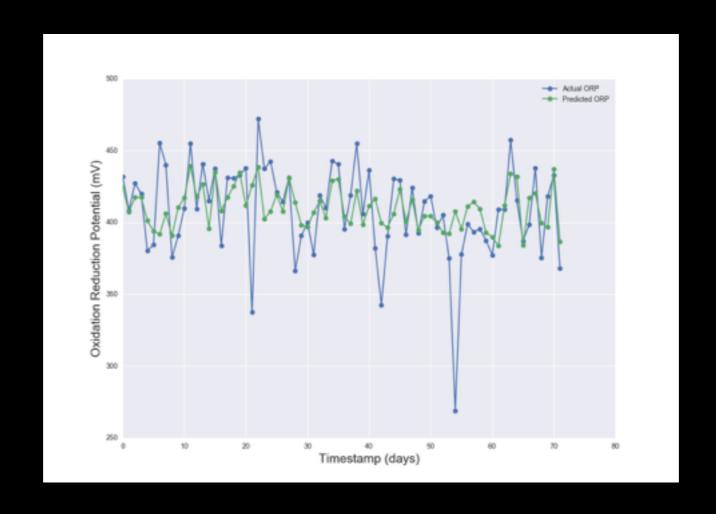
IMPLEMENTATION

- Monitor performance
- Model spots mistakes and suggests changes
- Improve the model by learning from continued operations

DEPLOYMENT

Autoclave: AC1

] 60% PP0:PV028:WI073 02_SUPPLY_MASS_FLOW [XXXXXXXXXX] PP0:PV028:TI073 02_SUPPLY_TEMP [XXXXXXXXXXXXXX 90% PP0:PV001:TIC122-SP AC#1 Exit_Duct. [XXXXX] 38% TK2240 LEVEL CONTROL PPO:TK2240:LIC7501-PV [XXXXXXXX]] 51%



NEXT STEPS

- Explore model in detail
- Find low-hanging fruit
- Build deployable tool

Sparge challenge

