

Utility Asset Management with Machine Learning

Jon Garrity
Founder and CEO



- ① Siemens & GE monitor health of their gas and steam turbine fleets
- ② Advanced prognostic analytics predict failures and reduce downtime
- ③ But, these capabilities accessible only for extremely high value equipment

Tagup enables these proven capabilities for any equipment type.





Our team includes leading experts in Artificial Intelligence and industrial equipment monitoring, with skills developed at GE, MIT, and Harvard.

Leadership



Jon Garrity
Co-founder & CEO

- GE Analytics Software Product Manager
- Harvard MBA; MIT S.B in Physics & Econ



Will Vega-Brown
Co-founder & CTO

- MIT Computer Science PhD Candidate
- Expert in Artificial Intelligence

Advisors



John McDonald
Director, GE Grid Solutions

- IEEE PES President
- Wrote the textbook on substations



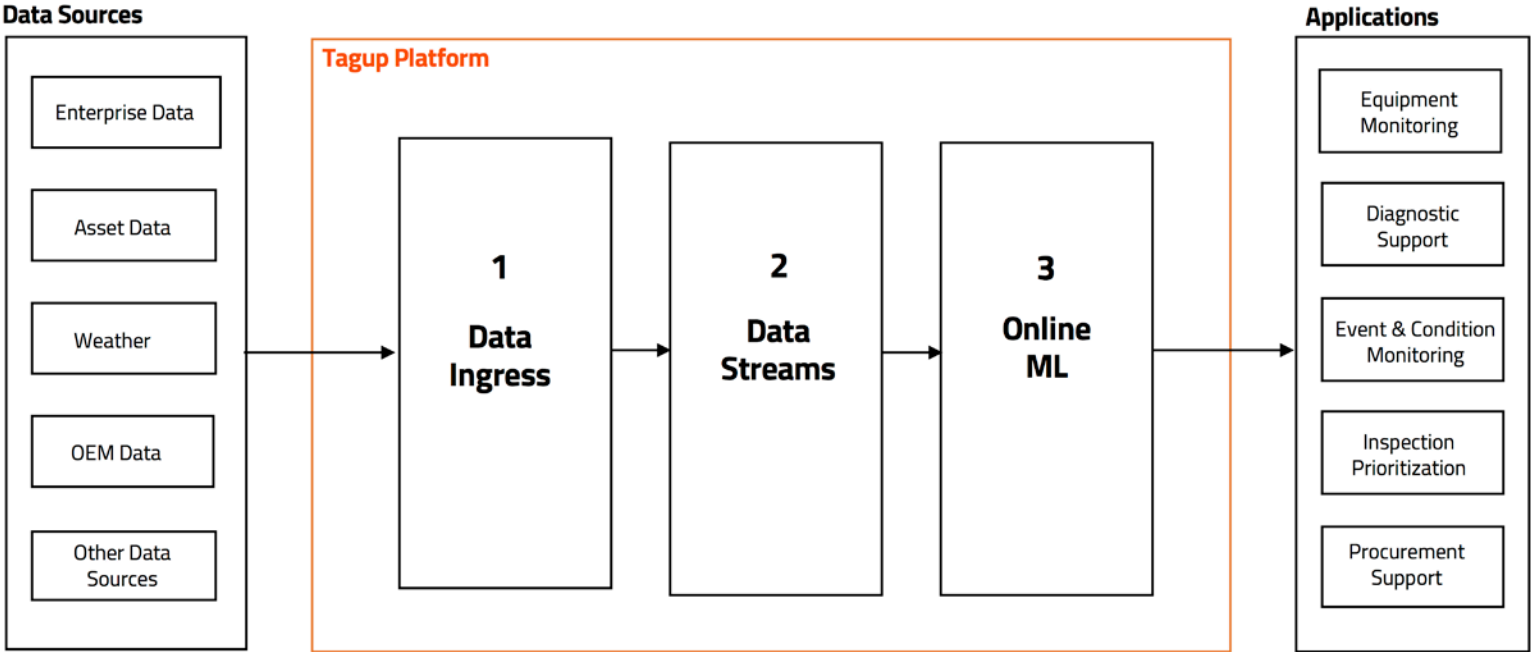
Lou Schick
Partner & CTO, NewWorld Capital Group

- Former GE Gas Turbine engineering executive
- Expert on machine analytics and remote monitoring

Our analytics platform

Enabling machine learning models to run in real-time across utility install base

- Automates ML training/execution
- Standardizes data for common models
- RESTful API provides extensibility
- User application for authorized access to real-time data and analytics





Analytics Capabilities

How we apply machine learning to industrial equipment

1. Anomaly Detection

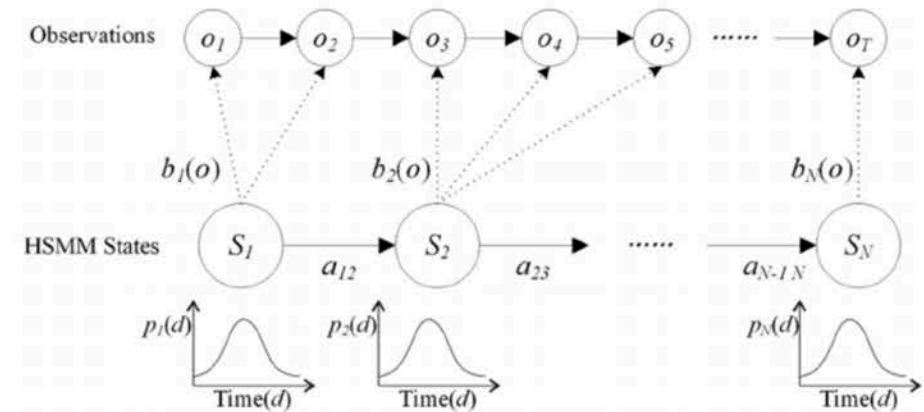
The next-generation “threshold alarm”

2. Operating Mode Classification

Understand equipment operating condition

3. Failure Prediction

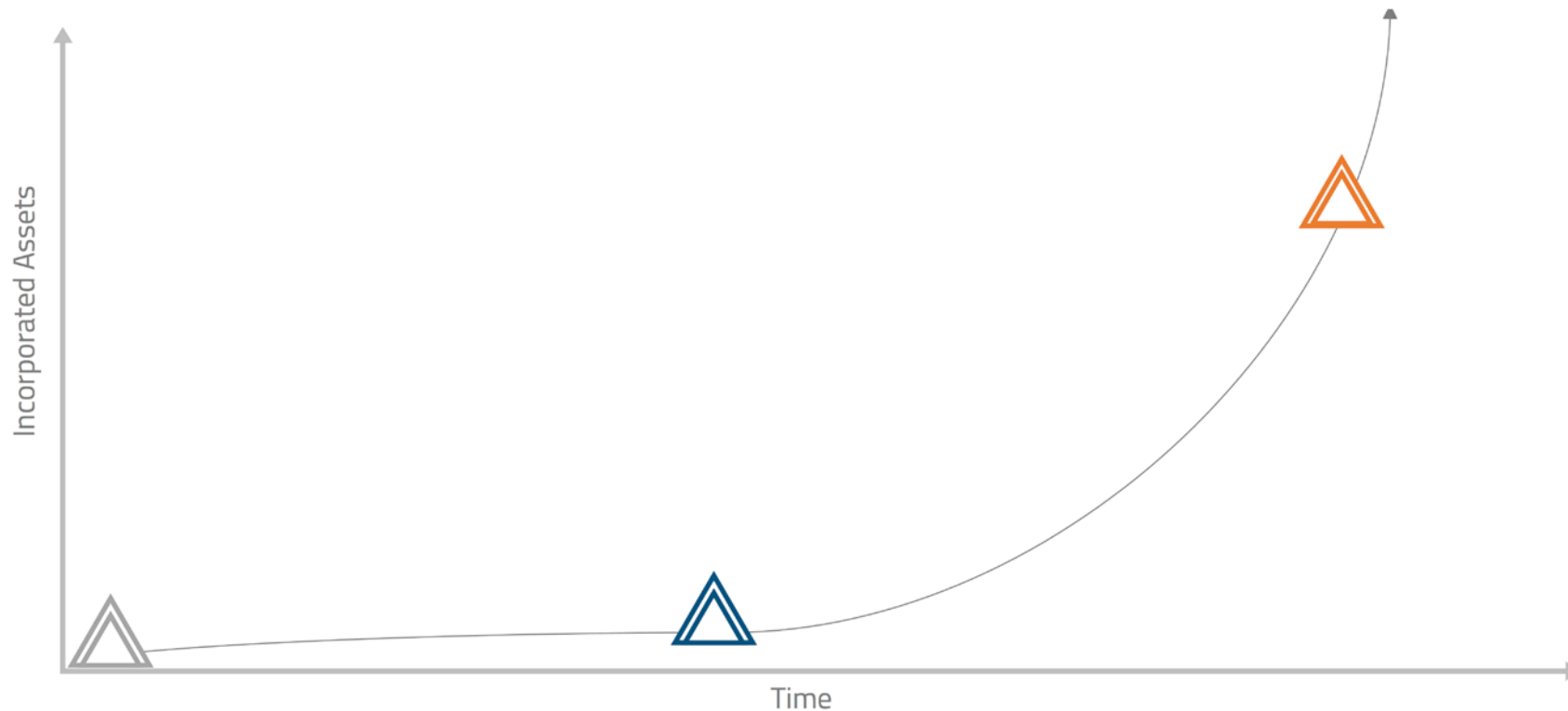
Prioritize equipment for maintenance and replacement





Our Challenges in Launching a Product and Enabling Growth

Building credibility and documenting value creation has been key



Initial Development
2015 – 2016



Pilot Deployments
2016 – 2018



Commercialization
2018 –

Initial Development

- Defining market opportunity
- Prototyping (hardware + software)
- Initial customer discussions

Pilot Deployments

- Ecosystem support
- Lots of customer feedback!
- Leverage early successes

Commercialization

- Decreasing average total cost
- Investing in commercial team
- Sustainable growth trajectory

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