

Technology Developments

- Larry Daignault, SW Sales Manager
- Anaheim, California



XYZ
INTERNATIONAL

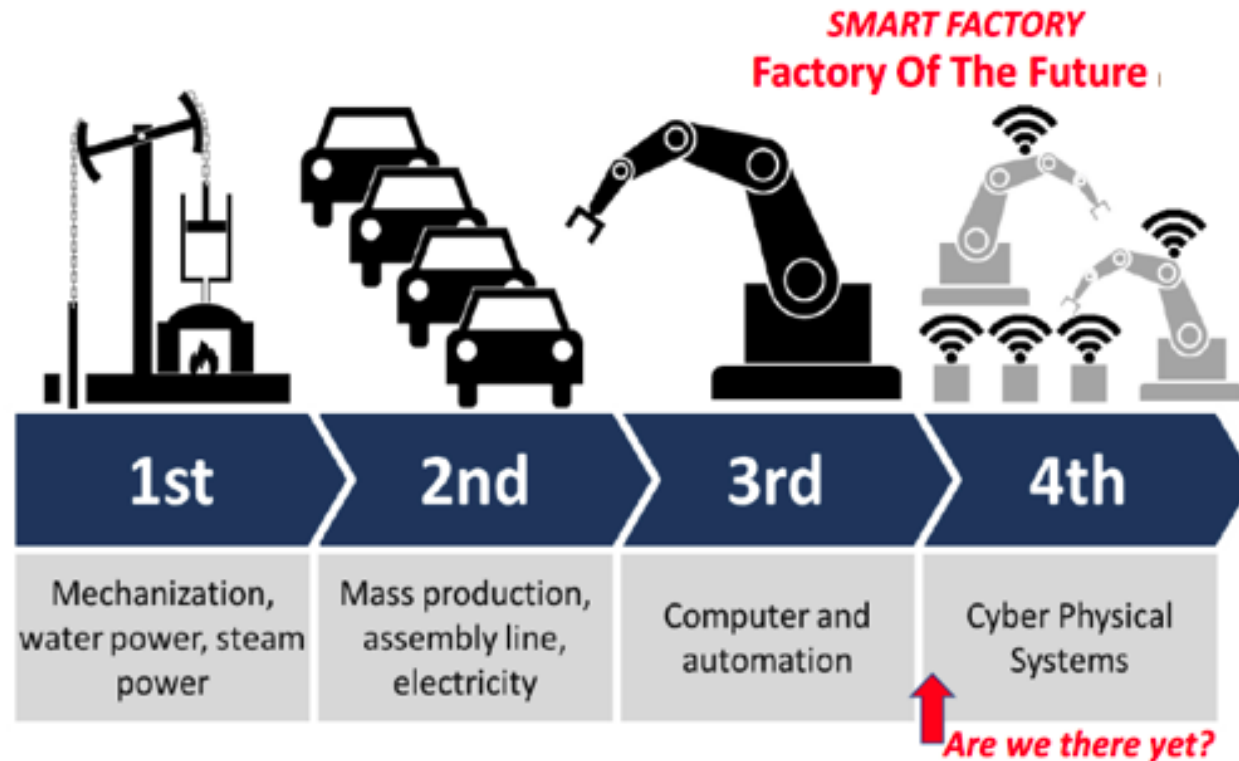


Industry 4.0

What is it?

....and Why Does it Matter?

Industry 4.0...The Next Industrial Revolution/Opportunity



- Industry 4.0 is about the connectivity and inter-connectivity of machinery.
- It is early days for 4.0 but remember when massive assembly lines dominated?
- It is not too early to talk about the future...

An Industry 3.0 automated machine will produce perfect parts very efficiently and repeatedly if:

- The machine is in perfect working order
- The coded instructions provided to the machine are perfect
- The material used is within machine parameters
- Tooling is within specifications
- Proper operating procedures are followed.
- ***Over the past 30 year we have become very good at this***
- ***As a result, automation now dominates the production environment***



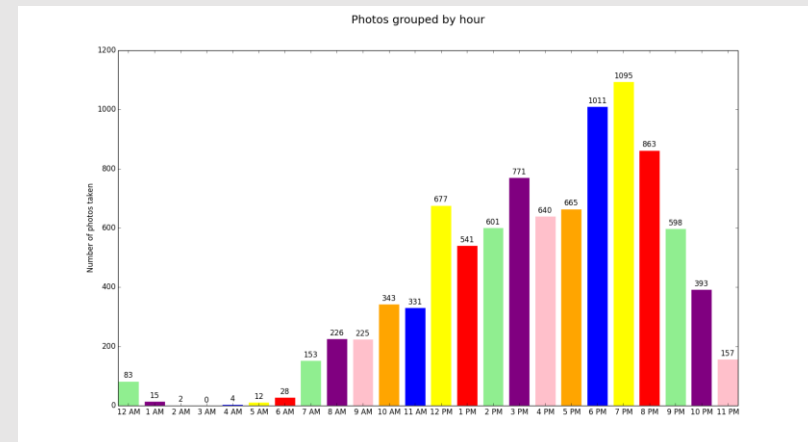
The “Opportunity”

- As machines get more complicated and companies using them get smaller it is hard to maintain the machines.
- Parts get very complex and the programming of the instructions to make them more and more complicated.
- The variety of materials has exploded and it is hard to understand all the specifications every time you need to change material.
- Tooling options are now very exotic (and expensive) so how to figure out the data sheets?
- The skill level required of operators keeps increasing. Training is getting overwhelming.

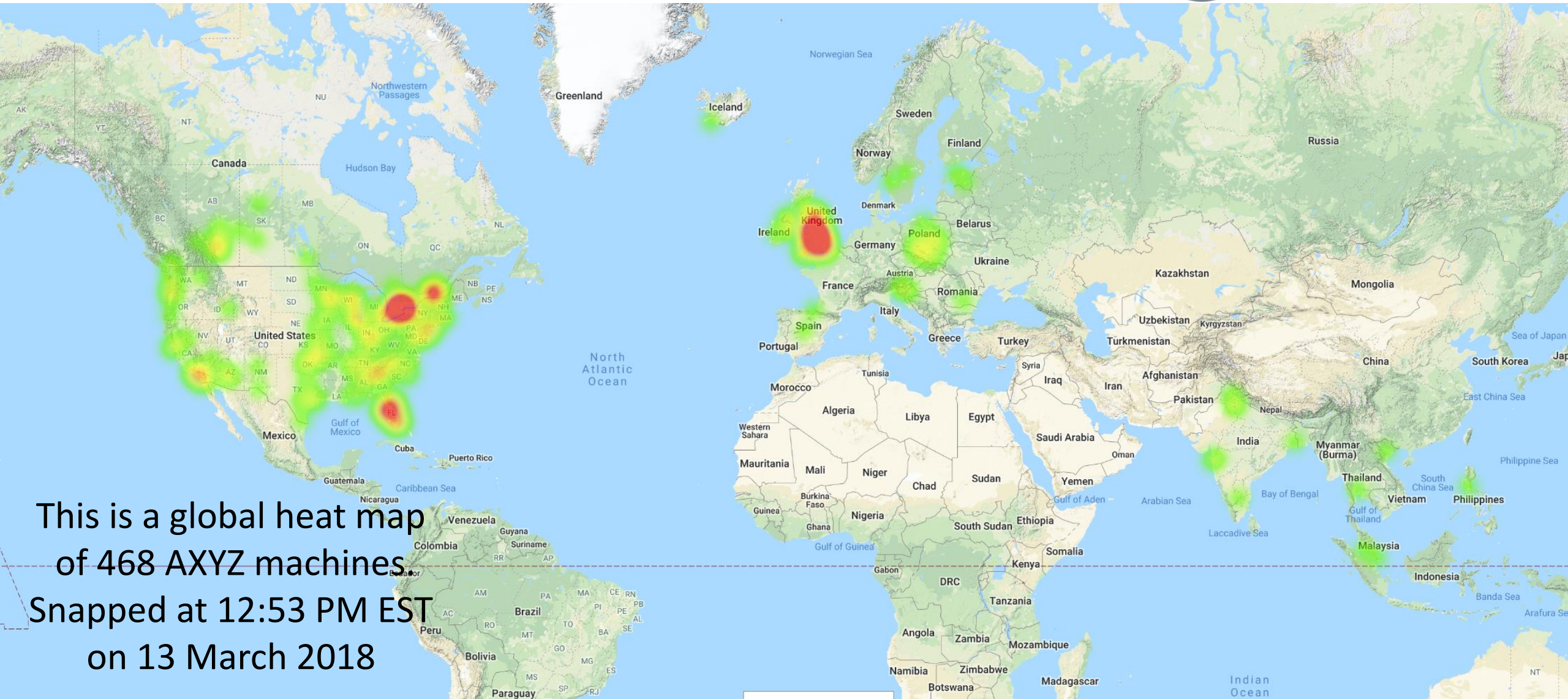


Industry 4.0 is about Analysing Data...

- About customer needs
- About how machines are working
- About what machines are doing
- About the quality issues with machines
- About production efficiencies
- About what market trends



AXYZ and Industry 4.0



This is a global heat map
of 468 AXYZ machines.
Snapped at 12:53 PM EST
on 13 March 2018

AXYZ and Industry 4.0

What does it mean to our customers?

- Transition from *Preventative Maintenance* to *Predictive Maintenance*
- Real time data can forecast potential downtime (e.g. repetitive error codes)
- Dramatically prevent machine downtime
- Advanced scheduling of machine maintenance
- Enhanced machine longevity



AXYZ and your data...

- All data collected from AXYZ customer machines belongs to the owner of the machine.
- The data collected must firstly benefit the customer by sharing useful and specific data.
- The customer has control of what data (if any) is collected by AXYZ.
- AXYZ will protect all customer data with state of the art security on our servers.
- All data that is shared, like in the previous slide, is only general industry knowledge, in this case geographic location.

