Life Sciences Q&A Panel







Melania Martinez





Joseph Hofmann Michael Shackleford

AstraZeneca 2



Jeffrey Owen





Barry Higgins Johnson Johnson



Moderator: Petter Moree





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Closing Remarks

Petter Moree Industry Principal, Life Sciences October 28, 2020





Thank you to our speakers!

14:00 - 14:10 - Welcome

14:10 – 14:35 - Vertical Integration & Manufacturing Cockpits at Novartis

Andre Muller Principle Automation Engineer & Melania Martinez Global Automation Engineer Novartis

14:35 - 15:05 - Creating a PI Enterprise Historian for AstraZeneca

- •Joseph Hofmann Business Analyst R&D IT & Michael Shackleford Senior Automation Engineer AstraZeneca
- Jeffrey Owen Automated Results Computer Consulting LLC

15:05 - 15:30 - How CDMOs like Sartorius can Leverage their Most Important Asset: Data

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15:30 – 16:05 - Conversation on critical operation with Johnson & Johnson

•Barry Higgins Pilot Deployment Lead Johnson & Johnson

16:05 - 16:45 - Demo: PI Vision & RtReports

·Ana Revert Tomas, Bryan Pope & Boeng Sam Tan OSIsoft

16:45 - 17:30 - Life Sciences Q&A Panel

· Presenters from Novartis, Johnson & Johnson, AstraZeneca

17:30 - 17:40 - Closing Session









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User Driven, who are the drivers?



Are we meeting targets and KPIs? What is the correlation and causality between different data?

Are we able to deliver in time. do we have the materials we need?

What is the risk and how are the CPPs influencina CQAs?

Are we meeting quality Targets? When is maintenance best performed?

Building knowledge management on science & risk

Is process performing? Can we optimize process?





Management

Consolidated data in context of other data like KPI (e.g. OEE)



Analytics

Normalized. easily accesible validated data



SUPPLY CHAIN

Combine EBR and **Operations** data



MSAT

Process, material, IPC and Quality data



Aggregated data from the process. Reporting (EBR/RbE)



Maintenance

predicted asset performance with automatic notification

In context of



R&D

pilot and

material

data.

processes

and performance

Engineering

Context of Experiment, overall process



100

010

Low granularity

Very different

Days

Hour to days

Hours to days

Hours to days

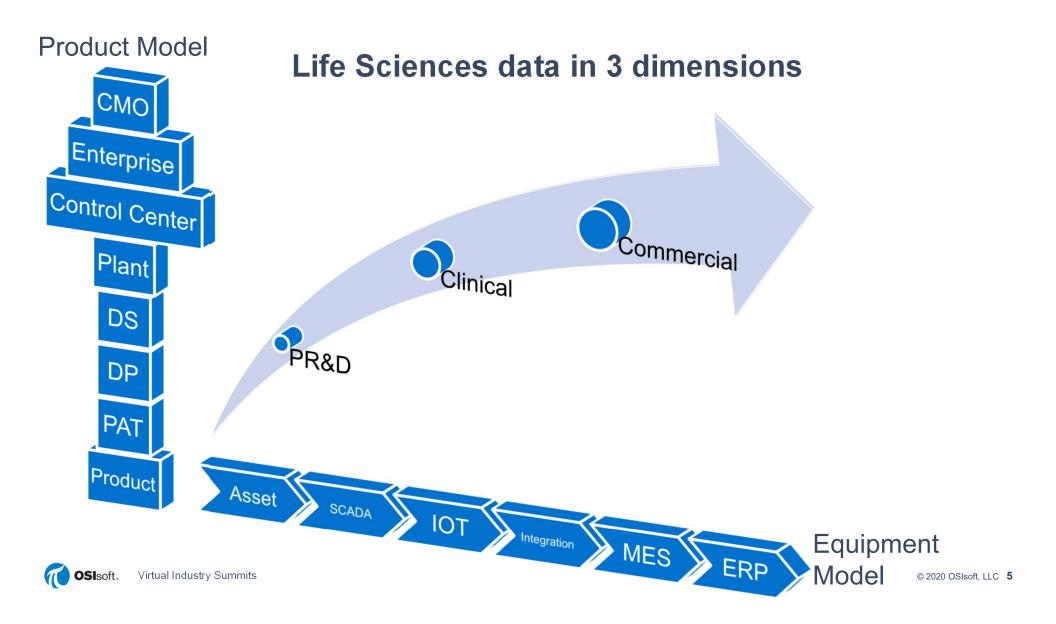
Minutes

Seconds to minutes



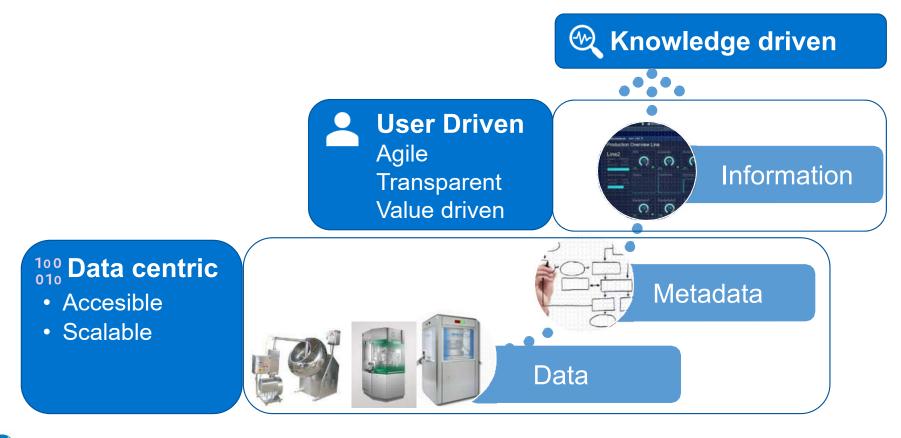
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Digital Fundament

Plug & Store



OSIsoft. Virtu

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Data Integrity – a global snapshot



USA Total responders Ongoing Data Integrity projects Planned Data Integrity projects Jan 2020 82 65 = 79% 16 = 20%

EU Total responders 67
Ongoing Data Integrity projects 55 = 82%
Planned Data Integrity projects 12 = 18%

Jan 2020



China Total responders100Ongoing Data Integrity projects63 = 63%Planned Data Integrity projects26 = 26%Oct 2019



The largest user community for operations data in Life Sciences?

815+ members, 275+ organizations www.pisquare.osisoft.com/groups/life-sciences





Steering Commitee

- Biogen
- Lilly
- Genentech
- Roche
- Regeneron
- BioMarin
- DRL
- Novo Nordisk







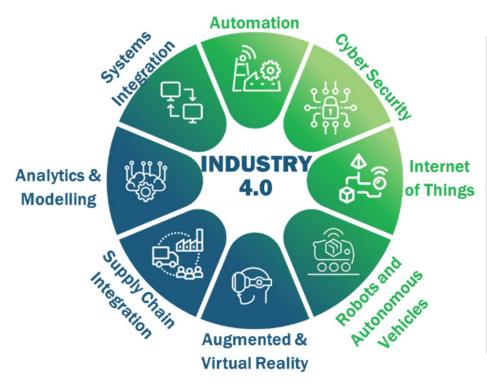


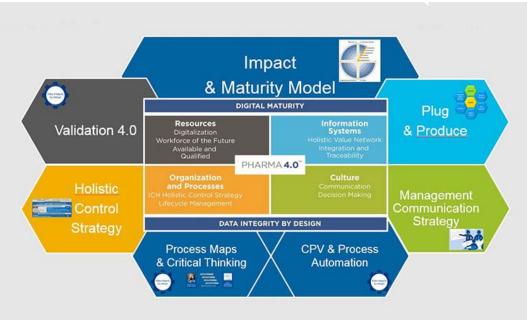
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Industry 4.0 Pharma 4.0





Source: Biogen Source: ISPE



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Thank you





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