

Industry Day Life Sceinces & Specialty Chemicals



Your hosts today



Petter Moree Industry Principal OSIsoft



Paula Baquer Industry Champion OSIsoft



Tim Alosi Head Analytics Biogen



Time	Title	Presenter(s)
9:00 – 9:15	Welcome to the Life Sciences, Specialty Chemicals Industry Track	Petter Moree, Paula Baquer – OSIsoft Tim Alosi – Biogen
9:15 – 10:00	Creating a global PI Solutions Store to Ease Site Deployment and Increase Compliance	Julien Cloots – GSK
10:15 – 11:00	PI System Deployment and Validation end to end in a GxP Environment	Flemming Rask Christensen – NNE Jonas Toftemark – Novo Nordisk
11:15 – 12:00	Deep Dive into Real Business Use Cases and Tangible Benefits with the PI System in Shire	Thomas Filz, Christian Bugl – Shire
12:00 – 13:45	Lunch	
13:45 – 14:30	BTT: Online Process Monitoring using Historical Process Data	Manuel Martin – Lubrizol
14:45 – 15:30	Use of PI System and SIMCA-online to build a Real-Time MSPC System	Anna Persson – Sartorius Phuong Vo – Janssen
15:30 – 16:00	RCIP, Data Analytics and Manufacturing Process Optimization at Lonza	Thomas Hsu – Lonza
16:00 – 16:15	Llife Sciences User Group Introduction with Snacks	Tim Alosi – Biogen
16:15 – 17:15	Round Table Panel Discussion	Gus Green, Erneste Bove, Cassandra Murillo, Thorsten Ulbricht, Tim Alosi, Julio Lopez Ortega, Petter Moree, Paula Baquer
17:15 – 17:45	Workshop Breakout session	John de Koning, Liana Peysakhovich, Stephen Kwan, Ellery Murdoch
17:45 – 18:00	Closing	Tim Alosi, Petter Moree
PIWorld BARCELONA 2018 #PIWorld ©2018 OSIsoft, LLC		

What is going on?

PHARMA 4.0 – Operating Model

The PHARMA 4.0 Operating Model enables and controls the Holistic Control Strategy Lifecycle Management with Data Integrity by Design based on the organizations Digital Maturity within the Industrie 4.0 architectural framework.

Source: ISPE SIG "PHARMA 4.0"



Data Integrity by Design

- Risk-based
- Process maps
- Data flows
- Flexibility
- Robustness

Ref Ian Thrussell, Expert Inspector WHO



Pharmaceutical Knowledge ispe.org | 4

Plug & Produce

Data Centic

- Accesible
- Scalable

User Driven

- Agile
- Transparent
- Value driven

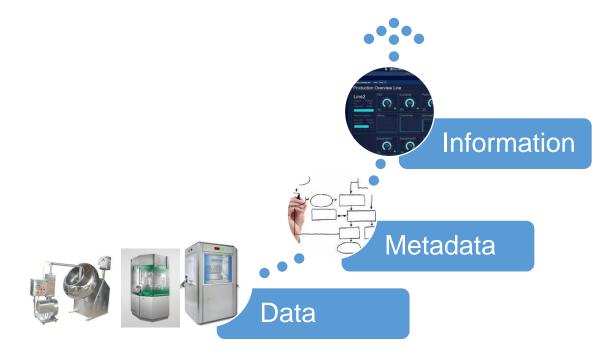
Data Integrity

- Risk-based
- Audit Trail
- Process maps
- Flexibility
- Robustness



Data Centric Approach

Plug & Store





Consumers of Information and Data

Management



- Are we meeting targets and KPI
- Consolidated data in context of other data like KPI e.g. OEE
 - Low granularity

MSAT



- What is the risk and how are the CPP influencing the CQAs
- Process, material, IPC and Quality data
 - Hour to days

Supply Chain



Are we able to deliver in time, do we have the materials we need Combine EBR and Operations data Days

R&D



- Building knowledge management on science & risk
- Experiment, pilot and material data, processes and performance
 - Minutes

Consumers of Information and Data

Qualified Person



Is the batch within specs?

Aggregated data from the process.

Hours to days

Reporting (EBR/RbE)

Engineering



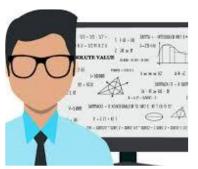
Is process
performing. Can we
optimize process?
Context of overall
process
Seconds to min

Maintenance



When is maintenance best performed?
In context of predicted asset performance with automatic notification
Minutes to hours

Data Scientist



- What is the correlation and causality between different data?
- Normalized, easily accesible validated data
 - Very different

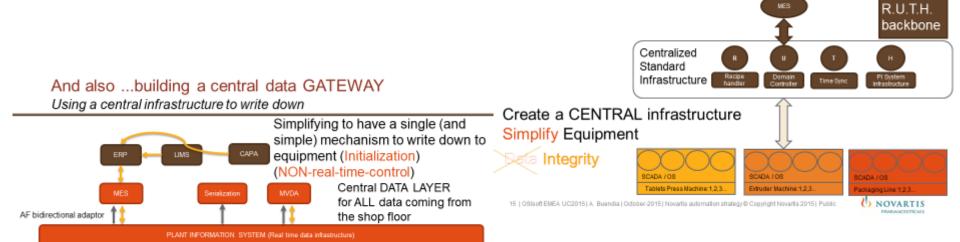


Factory of the Future 2015

Plug & Store

Equipment Connectivity

R U TH backbone

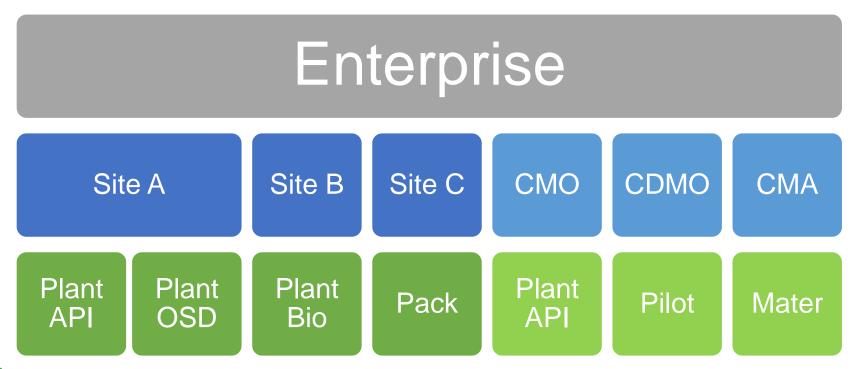


b NOVARTIS



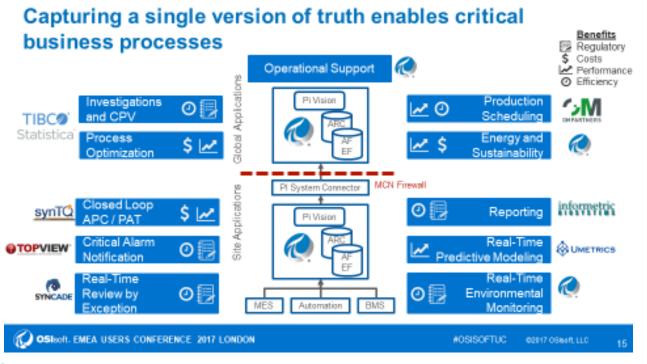
18 | OStsoff EMEA UC2015| A. Buendia | October-2015| Novartis automation strategy © Copyright Novartis 2015| Public

Community of operation





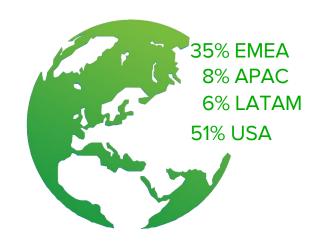
Next Generation Manufacturing





LIFE SCIENCES USERS' GROUP







https://pisquare.osisoft.com/groups/life-sciences





Steering Committee Members

Name	Company	Role
Tim Alosi Cassandra Murillo Kurt Creutzburg Brian Goldinger Myles Sumlin Thorsten Ulbricht Anthony Narag	Biogen Regeneron Novo Nordisk Lilly Genentech Roche Shire	Chair Secretary Member Member Member Member Member Former Chair
Petter Moree Paula Baquer Isabelle Lacaille Jarita Sirois	OSIsoft	Support Staff



Todays Program



Analytics with MATLAB RT Reports update Advanced Event Frames Visualization Selling Ideas to Leaders











Global Deployment
Capturing Context
Cloud Migration
Maximizing Data Value



Today's Program:

- 16.00 16.15 Opening Remarks
- 16.15 -17.15 Round Table Panel Discussion
- 17.15 -17.45 Workshop Breakout Session
 - How to sell your ideas to management John de Koning, Business Transformation Group
 - Discover RtReports 4.1
 - Liana Peysakhovich, Software Developer RtReports Lead
 - Analytics with MATLAB and PI System
 - Stephen Kwan, Product Manager, Pl Server
 - Advanced Event Frames
 - Ellery Murdok, Event Frames Initiative Lead
 - A walk through PI Vision



Today's Panelists

Founder & CEO e-matica Ernesto Bove



Gus Green Manager, Automation

Systems Team



Cassandra Murillo Associate Manager,

PMPD Data

Management

Julio Lopez Ortega Abbott Laboratories, S.A.



Technical Project Manager



Abbott

Thorsten Ulbricht



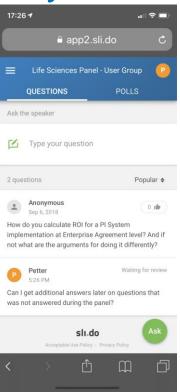
Ask Your Questions to the Panelists Today



Global Deployment
Capturing Context
Cloud Migration
Maximizing Data Value

https://www.sli.do/

Event code: #LSPUG





Feedback walls



- Product Feedback
- Community Feedback
- PUG Feedback
- Share your ideas

https://feedback.osisoft.com



Your voice is heard!

- "As an Event Frame consumer, I need write access to event frames, so that I can manually enter data into an EF attribute, such as the event reason code."
 - You can now add a reason code since PI AF 2017 R2 and PI Vision 2017 R2
- "As an Event Frame template author, I want to have access to more substitution parameters when naming my Event Frames"
 - Now possible to use attribute values, such as like the Batch ID and Product Name when naming your event frames. This was added in PI AF 2017 R2
- "As a user of Event Frames in PI Coresight/Vision, I would like to identify a golden batch so that I can overlay data from other events and compare."
 - Available as of PI Vision 2017 R2
- User engagement driving PI System Connector, Asset Analytics and Event Frames, and data integrity features

