

The Future State - Knowledge Management and Sharing to Reduce Regulatory Burden

Ursula Busse PhD MBA
Head Quality Intelligence, External Relations
Novartis



2017 PDA Annual Meeting | April 3-5, 2017 | Anaheim Marriott | Anaheim, California

Breakfast II: Knowledge Management - Q12 Update

Disclaimer

The information contained in this document belongs to Novartis and/or its affiliates. Novartis does not make and expressly disclaims: (a) any representation or warranty (express or implied) with respect to the information shown in this presentation; and (b) any liability relating to the accuracy or completeness of the information.

The views and opinions expressed in this presentation are those of the author and do not necessarily reflect the official policy or position of Novartis or any of its officers.

© Novartis 2017



Knowledge is important



The basic economic resource – the means of production – is no longer capital, nor natural resources, nor labor.

It is and will be knowledge."

- Peter Drucker

(November 2005) (November 2005) 12

ICH Q9

ICH Q8

20

(June 2008)

35

(May 2012)

progress)

ICH Q12 (in

Number of times the term «knowledge» is mentioned in ICH guidelines



2017 PDA Annual Meeting | April 3-5, 2017 | Anaheim Marriott | Anaheim, California

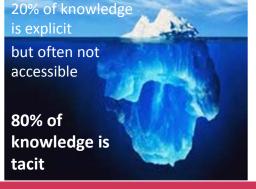
Breakfast II: Knowledge Management - Q12 Update

Knowledge

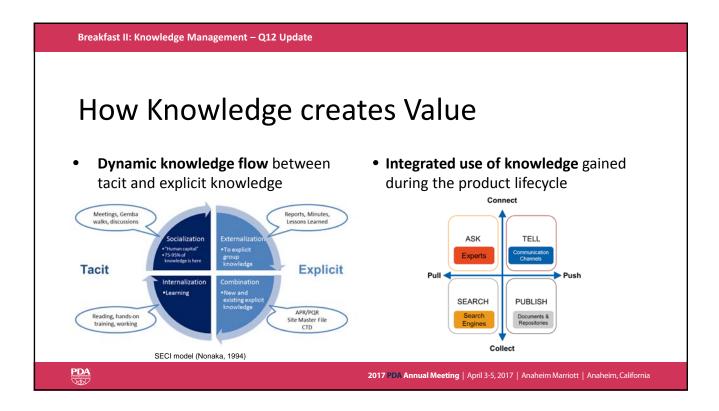
- Knowledge develops from data, information
 - Knowledge is information in action
 - Knowledge needs to flow

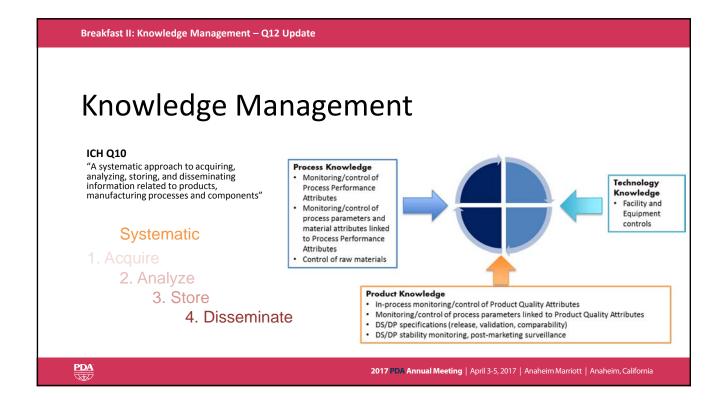
"Connectivity above hierarchies"

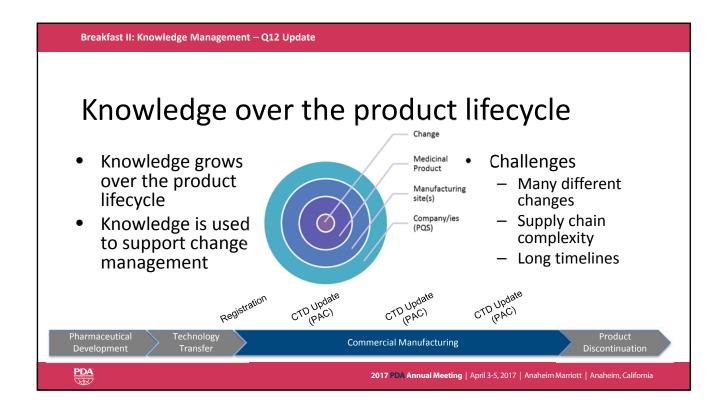
Knowledge is sticky

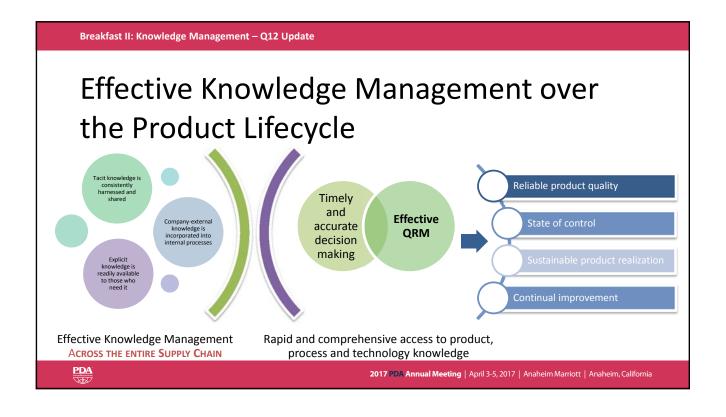


PDA











Effective QRM supports PAC

- Risk reduction
 - Identify changes that reduce risk of quality failures /manufacturing problems; improve process capability
- Change categorization
 - Distinguish changes of regulatory relevance from changes that can be managed solely in the PQS
- Effective change control
 - Assess risk level before and after PAC implementation to ensure no increase in risks to product quality or patient safety





2017 PDA Annual Meeting | April 3-5, 2017 | Anaheim Marriott | Anaheim, California

Breakfast II: Knowledge Management - Q12 Update

Opportunities for regulatory flexibility

TATA TO THE PARTY OF THE PARTY

ICH Q10, Annex 1



Manage PAC with reduced regulatory oversight

Effectiveness Checks (Industry)

- PAC verification
 - Monitor deviations, process trends, analytical trends
 - Trend stability, deviations, OOS, technical / medical complaints, inspection/audit outcomes
- PQS effectiveness KPIs
- Internal audits
- Management review

Effectiveness Checks (Regulator)

- Inspections
 - Verify that processes are in place and followed

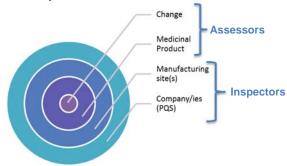


Established reporting channels result in fragmented access to company knowledge

Knowledge shared with regulators is mostly explicit



Assessors see part of it, inspectors other parts



PDA

2017 PDA Annual Meeting | April 3-5, 2017 | Anaheim Marriott | Anaheim, California

Breakfast II: Knowledge Management - Q12 Update

Enhanced knowledge sharing between industry and regulators



Convert tacit knowledge into explicit knowledge, make it available

- Post-Approval Change Management Protocols (PACMPs)
- Documented Lifecycle Management Strategy

Leverage opportunities for tacit knowledge exchange

- Meetings between MAH and Assessors
- During Inspections



Documented Lifecycle Management Strategy

- Facilitates communication between Company and Regulator; provides opportunity to discuss risks and plan proactively
- · Elements of a product's LCM strategy
 - Product Established Conditions and Control Strategy Summary
 - Planned changes and regulatory approaches
 - Summary of product lifecycle management in the PQS
 - Managing Product Knowledge During the Commercial
 - Control System Management
 - Managing Post-Approval Changes





Knowledge sharing promotes better decision making

Industry - Regulators

Enhanced communication above established reporting channels

Access to tacit knowledge

PAC evaluation based on increased knowledge

Breakfast II: Knowledge Management - Q12 Update

Inspector - Assessor

Communication between inspectors and assessors



PAC evaluation in its context

Between Regulators

Communication between regulators



Mutual reliance / recognition

Enhanced regulatory decision making

PD/

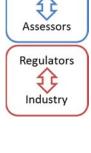
2017 PDA Annual Meeting | April 3-5, 2017 | Anaheim Marriott | Anaheim, California

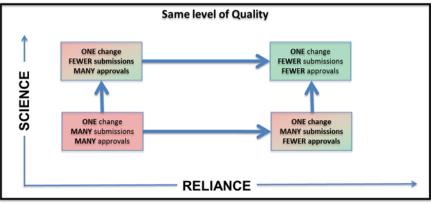
Knowledge sharing reduces regulatory burden

Inspectors

Same level of Quality

Assessors





Regulatory Agency Regulatory Agency

PDA

Regulatory flexibility means less control..

- Trust is a key success factor for regulatory flexibility
- Trust needs to be earned
- Knowledge sharing (transparency) with regulators increases trust



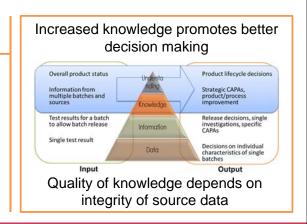


2017 PDA Annual Meeting | April 3-5, 2017 | Anaheim Marriott | Anaheim, California

Breakfast II: Knowledge Management - Q12 Update

Key take home messages

- Knowledge is needed to make the right decision
- Knowledge sharing enhances trust
- Trust promotes regulatory flexibility



PDA

Acknowledgement

PDA PAC iAM Core Team

- Anders Vinther, Sanofi Pasteur
- Emma Ramnarine, Roche/Genentech
- Marcello Colao, GSK Vaccines
- Julia Edwards, Biogen
- Kara Follman, Pfizer
- Karolyn Gale, Emergent BioSolutions
- Kassidy Good, Mylan Laboratories
- Barbara Jengtes, PhACT GmBH



- Maik Jornitz, G-CON LLC
- Morten Munk, NNE Pharmplan
- Kevin O'Donnell, HPRA
- Melissa Seymour, Biogen
- Mihaela Simianu, Pharmatech Associates
- Lisa Skeens, Pfizer
- Denyse Baker, PDA
- Rich Levy, PDA

