

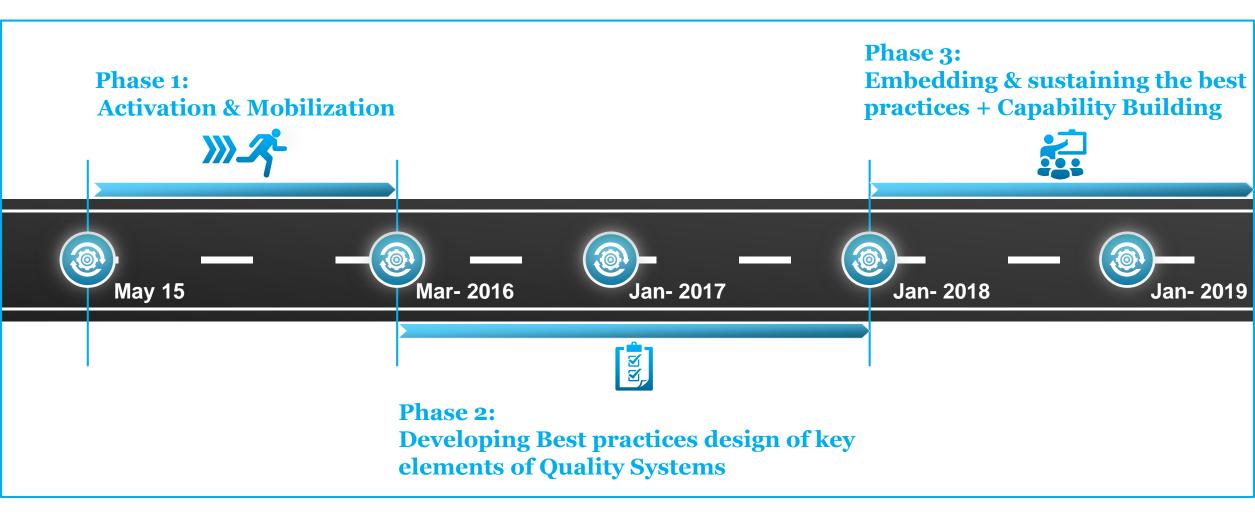
HEALTH CARE

IPA Quality Forum – Reflections on the journey so far

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IPA CONFERENCE | FEBRUARY 2019

IPA Quality Forum is in the 3rd phase of its journey to help the Indian pharma industry achieve excellence in quality



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Performance snapshot on compliance outcomes

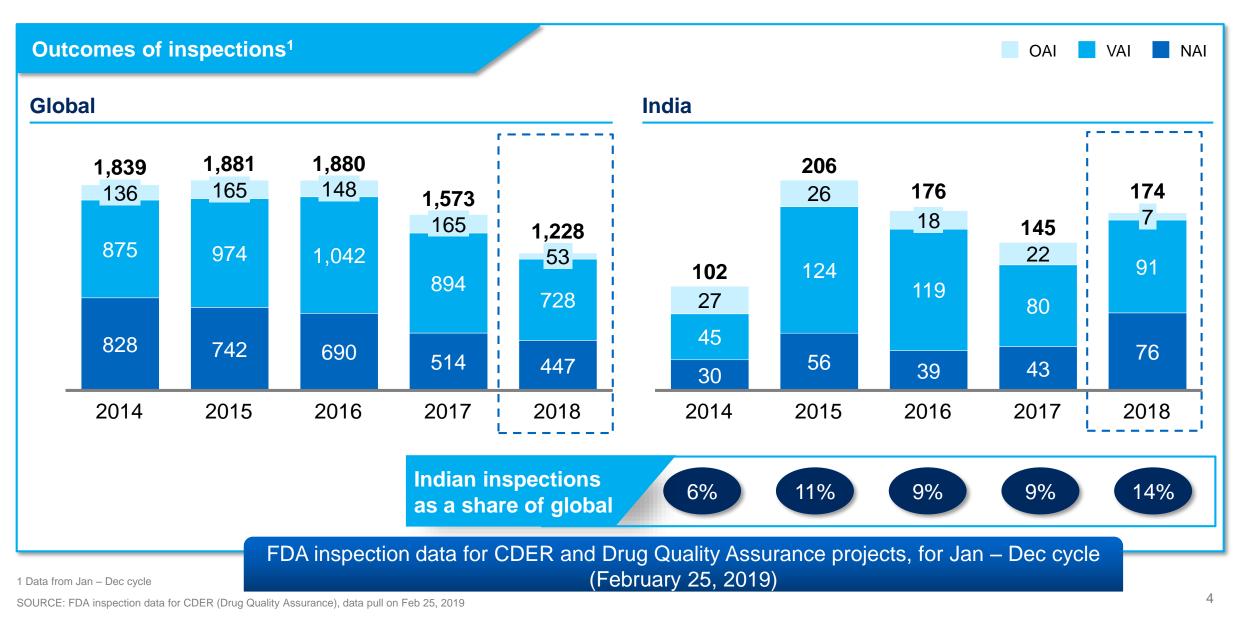


Brief update on initiatives taken by IPA QF in 2018

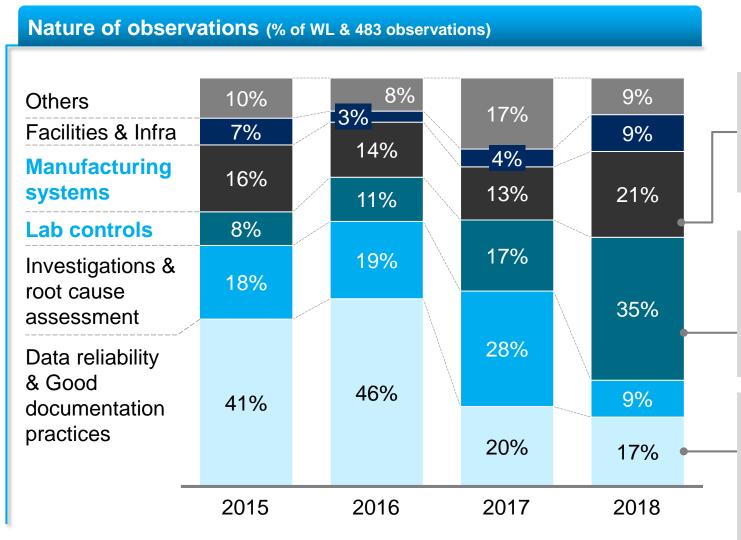


Priorities going forward

The Industry has continued to show progress- Inspection outcomes in India have improved and are now more in line with global outcomes

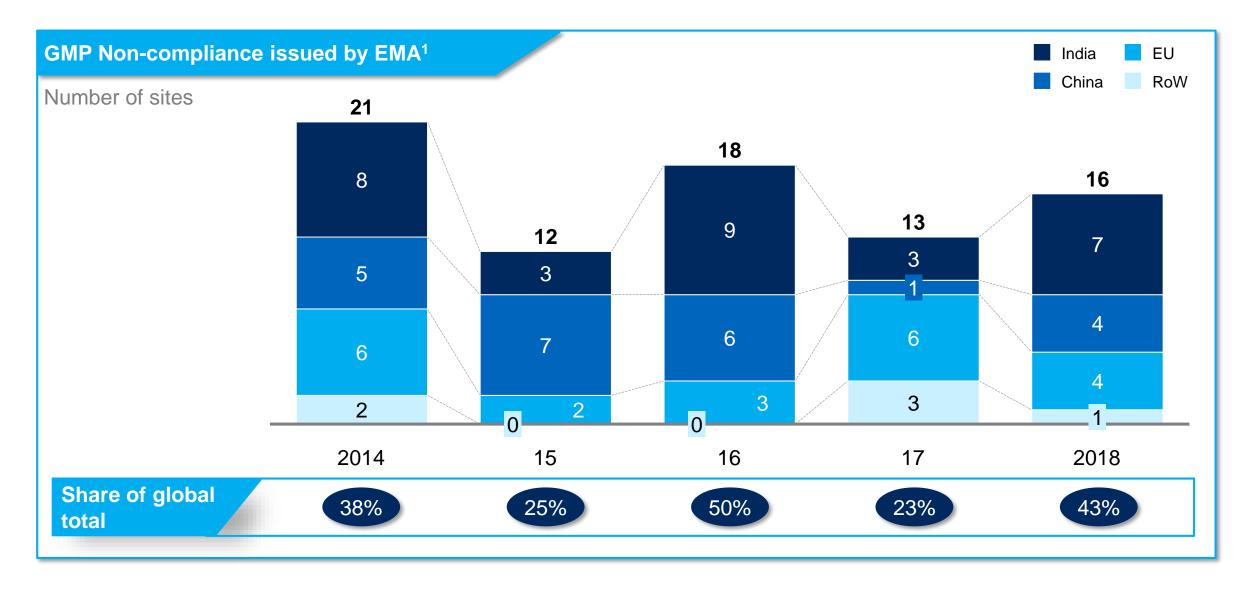


There has been a reduction in data reliability, and investigation & root cause assessment related errors; Gap in manufacturing systems and lab controls are now a leading source of non-compliance



- Gaps in adherence to good shopfloor practices or SOPs
- Gaps in manufacturing / packaging / process equipment reliability
- Failure to establish laboratory controls that include scientifically sound and appropriate specifications, standards, sampling plans
 Failure to ensure that test procedures are scientifically sound
- Inadequate controls of computer & other data systems
- Gap in prevention of unauthorized access
- Incomplete data in lab records
- Incomplete data in batch production records

India's GMP compliance for EMA sites continues to be a concern





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Priorities going forward

IPA Quality Forum undertook various activities in 2018 to build capability across the industry while continuing to drive best practice design and wider industry outreach (1/2)

1 Capability building

Capability building sessions on Day 1 of IPA conference 2018

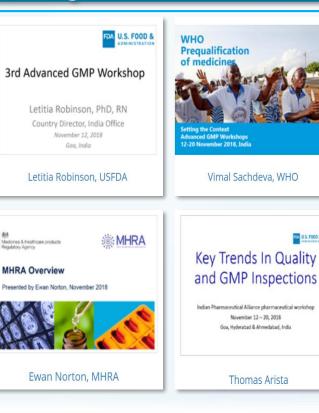
Topics covered

- Batch Failure Investigation
- Complaints Investigation and review
- Data Integrity
- Good documentation practices

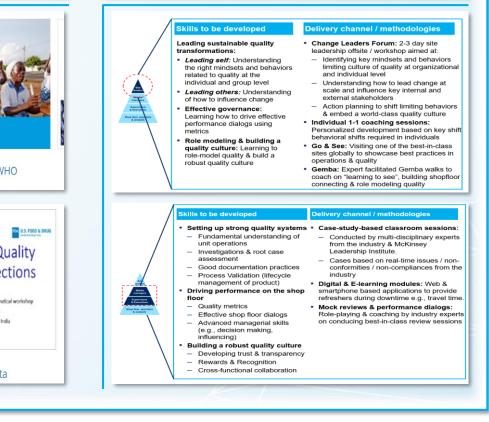




Advanced GMP workshops for middle-management capability building



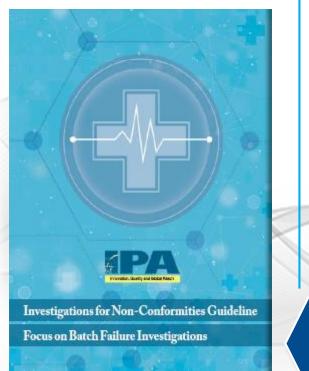
Blue print for capability building of middle managers finalised



IPA Quality Forum undertook various activities in 2018 to build capability across the industry while continuing to drive best practice design and wider industry outreach (2/2)

2 Best practice design

Guidelines on key quality topics





3 Broader industry outreach

IPA conference 2018

- Bringing manufacturers and regulators together to facilitate discussions resulting in meaningful and actionable outcomes
 - Focus on quality the most vital element of the pharmaceutical industry



Going forward, IPA aims to further drive the capability building agenda and drive quality best practices in R&D – Phase 5

3 focus areas for IPA Quality Forum in 2019-20



Capability building with continued focus on dissemination and adoption within individual companies



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Integrating quality to R&D with focus on

- Analytical method development
- Product robustness



Continued engagement with regulatory agencies & industry (IPA conference, Advanced GMP workshop etc.)

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Priorities going forward



While Indian pharmacos are at different stages in their Quality journey, many are now striving to achieve sustained excellence in Quality

STEP 1
Achieve 100%
compliance across
key sites

- Ensure key sites

 achieve full
 compliance vis-à-vis
 regulatory guidelines /
 expectations
- Complete ongoing remediation efforts in timely and effective manner

Characteristics

 Achieving 24X7 Audit Readiness STEP 2 Put in place a robust Quality systems

- Set-up the right quality system & processes
- Introduce quality metrics & benchmark with best-in-class
- Designing the right quality organization & governance model

STEP 3

Achieve sustained excellence in Quality

- Scale up single-site quality improvement initiatives to the full network
- Building quality culture & capabilities across levels within the organization (incld. middle managers, supervisors & shop floor operators)
- Drive quality, delivery & productivity in an integrated manner
- Adopt next-generation (Ops 4.0) technologies to drive continuous improvement in operations

We believe there are 5 key priorities for Indian pharmacos

Proactive Approach to Quality vs. Reactive: Put in place risk-based approached to improve product & process quality, and achieve 24x7 compliance

Drive Quality, Delivery & Productivity in an integrated manner: Deploying Production Systems to drive integrated operations excellence across the networks

Leverage Digital & Advanced Analytics (Industry 4.0) tools to drive next-gen operations excellence: Deploying several use cases across Manufacturing, Quality, Supply Chain & Cost excellence to drive significant performance improvement

At scale capability building across the organization: Leveraging experts, interactive breakout exercises on real life case examples and gamified learning to build capability

Holistic site transformation: Setting up a digital plant of the future through interventions across functions and processes, leveraging IoT, augmented reality and advanced and predictive analytics

Digital lighthouse transformation at Bayer

Situation	What did we do	Impact	
Volume increase of 30% requiring a 24/7 production cycle	 Driving impact through selected Digital & Advanced Analytics applications 	QC lab productivity	+50% increase of lab productivity by applying advanced schedule optimization
	 Extracting data from different sources (SAP, LIMS, ERP, Data warehouse, PLC, Excel) Creating a standardized "Plant Data Lake" Digital performance (2 Augmented reality (3) Reduce breakdowns (4) Optimize QC 	Changeover	-30% reduction in time on tablet press using smart glasses
Increased portfolio complexity – leading to an increase in c/o	 Digital performance management and deterioration warning Augmented reality and assistant to reduce change over duration Reduce breakdowns by using Advanced analytics to detect causes Control of the second seco	OEE	+40-50% OEE increase on packaging line supported by AA insights and Digital performance management
50% additional workforce with limited previous experience	Supply chainProductionMaintenanceQualityImage: Constraint of the supervisional settingsImage: Constraint of the supervisional settingImage: Constraint o	Deviations	-80% reduction in deviations since applying advanced analytics (0% reoccurrent)
		Deviation handling/ closure time	-90% reduction of deviation closure time by AA based deviation advisor tool

THANK YOU

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