PDA Regulatory Conference 2025

Achieving CGMP Excellence: Sustainable Compliance Across the Lifecycle

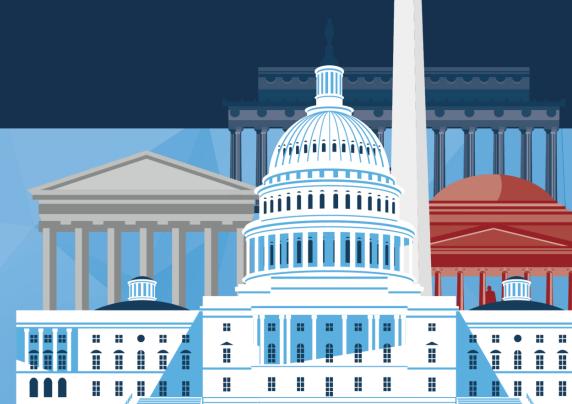
08-10 September | Washington, DC



Parenteral Drug Association[®]

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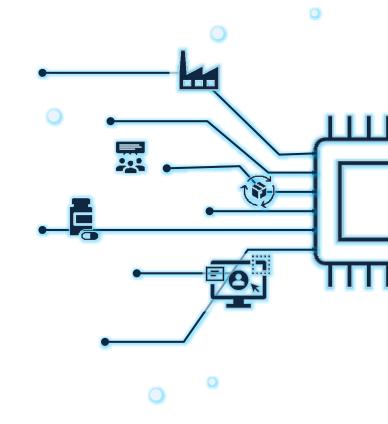
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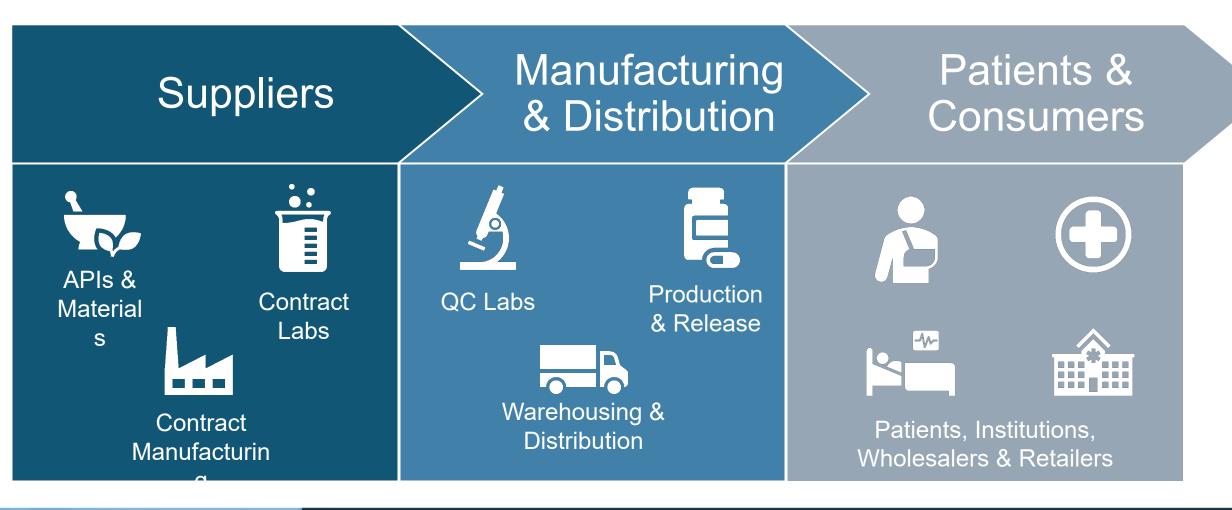
- Approach to Transformative Tools and Al
- Contextualizing the Pharmaceutical Supply Chain
- Use Cases and Examples



Practical Approach to Transformative Tools and Al **Technology Process** Data People Data ke **Internal + External Data Elements** NCR / ERs **RA Lifecycle Mgmt** P&PC **Change Mgmt Complaints Safety Signals Inspections Quality Events** Complaint System Pt Safety System Deviation System Lab Info Mgmt Service Platform Reg Info Mgmt

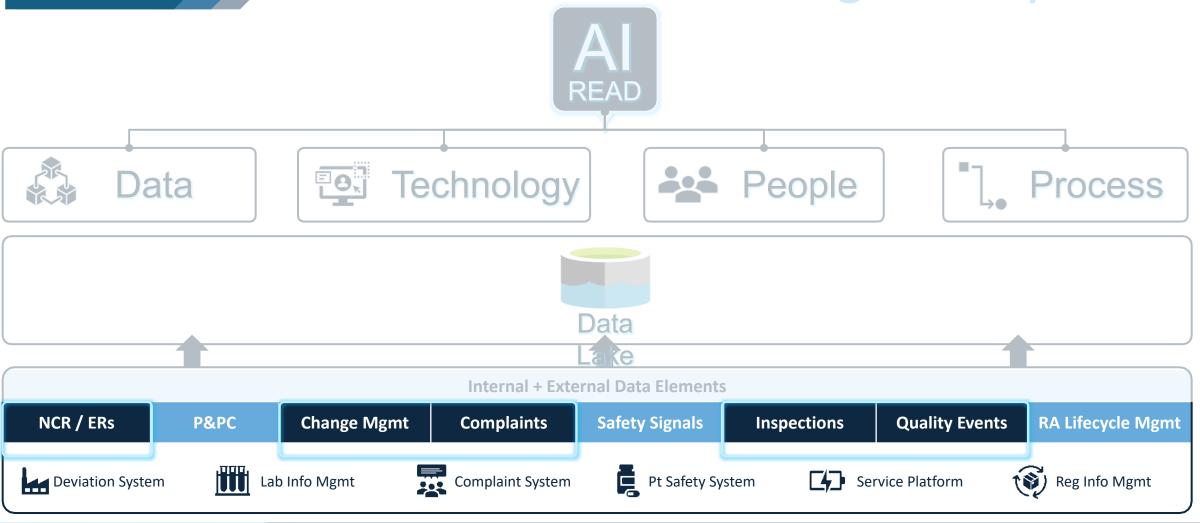


Pharmaceutical Supply Chain



Suppliers

Contract Manufacturing Quality





Suppliers

Contract Manufacturing Quality



Objective

Automate Contract Manufacturing
Organization (CMO) performance
monitoring to drive quality improvements

- Risk-based
- Define critical elements
- Assign scoring and weighting
- Establish thresholds
- Consider relationship factors



Deliverables

- Automated dashboard leveraged globally by external product QA Elimination of manual data processing
- Operationalized for internal and external business reviews

Contract Manufacturing Quality

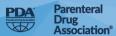
Performance Management Automation

Metric	CMO 1	CMO 2	CMO 3	CMO 4
Total	92	100	70	85
Product	0	0	-10	-10
Compliance	0	0	-10	-5
Timeliness	-8	0	-10	0

- Scoring starts at 100
- Deductions based on each subgroup
- Subgroup is a compilation of elements (e.g., Product = Initiated NCRs, Effectiveness, etc.)
- Subgroups assigned maximum deduction

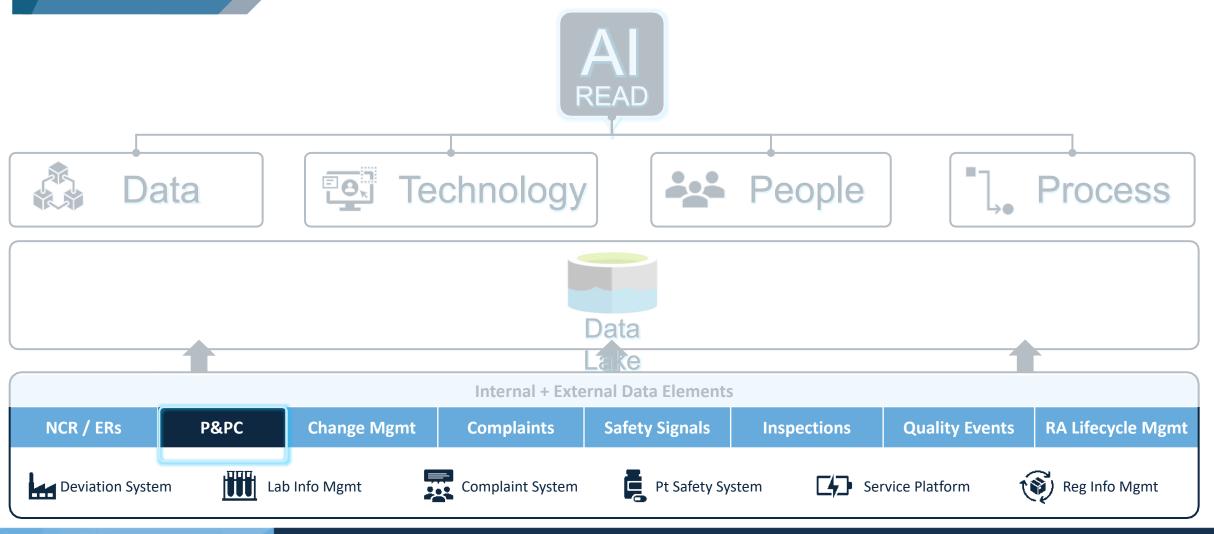


- ✓ Automation leading to accelerated decision making and escalation
- ✓ Objective approach aligned cross-functionally
- ✓ Transparency with CMOs for relationship management



Manufacturing & Distribution

Process & Product Performance





Process & Product Performance



Objective

Digitize Supplier Certificates of Analysis (CoAs) for automated trending

- Enable access to data, accelerate ingestion, and standardize product data across CMOs
- Feed data to common data model in lake
- Keep Human In The Loop (HITL)
 Verification

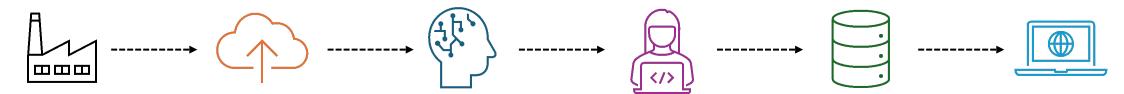


Deliverables

- Scalable solution for adoption across
 Operations
- Cross-functional collaboration to define the data model and critical datapoints for downstream teams
- Standardization of datapoints across internal and external manufacturing

Process & Product Performance

Digitized CoA



Supplier /
CMO
batch
production

Release CoA form uploaded Al extracts and digitizes values HITL verification

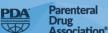
Data feeds common model in lake

Output available in downstream BI tools



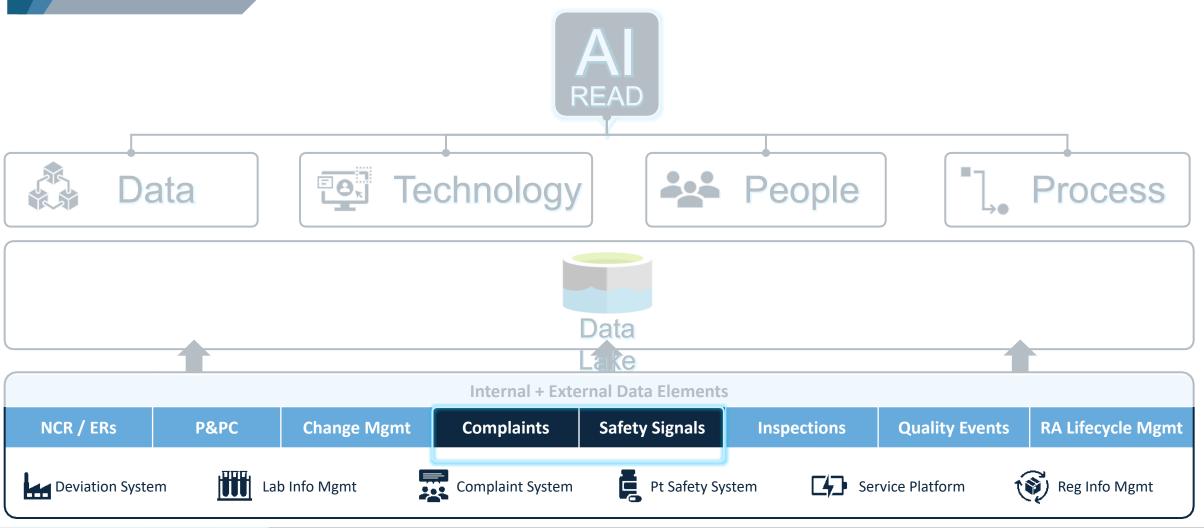
- ✓ Seamless and automated process and product performance monitoring
- ✓ Common datapoints for manufacturing data, regardless of internal or external site
- ✓ Accelerate CMO onboarding through standardized cross-functional datapoints





Patients & Consumers

Post Market Surveillance





Post Market Surveillance



Objective

GenAl powered process with customer complaint coding

- Automated coding upon intake
- Identification and risk-ranking of priority complaints
- Use to assist with investigation
- Keep Human In The Loop (HITL) for verification and next actions



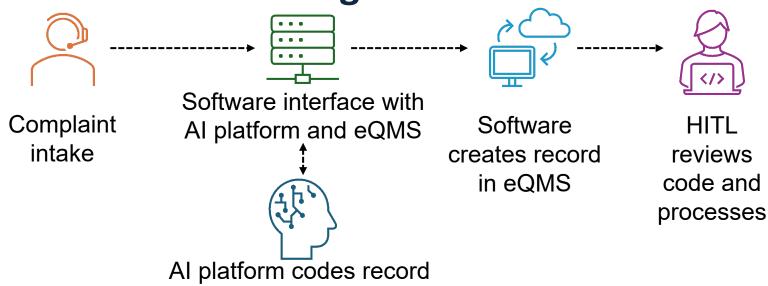
Deliverables

- Compliant and responsible AI with HITL and conformance to internal guidance
- Monitoring plan to measure defined business value metrics with coding and performance
- Scalable solution for strategic adoption of AI within complaint management processes



Post Market Surveillance

Coding Automation





- ✓ Improved "right first time" coding
- ✓ Move from minutes to seconds in coding at intake.
- ✓ High-priority complaints identified at receipt for accelerated investigation with CMO.

