Apperture SOLUTIONS

OpsTrakker

Transform Paper Processes into AI-Ready Data

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MES Software Engineer

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- MES Software Engineer
- Bachelors in Chemical Engineering NCSU
- 10 Years in Additive Manufacturing



Overview

1. Introductions
2. Common Manufacturing Pain Points
3. Features, Functionality and Use Case Examples
4. eBR and Review Demonstration
5. Questions

Why Apperture?

- We provide consulting and implementation services for manufacturing-related systems
  - Includes DCS, PLC/SCADA, IT/OT services, Data Analytics w. A), Building Automation, Process Optimization, Final control – sales and service, and much more!
- We are a collection of hundreds of professionals supporting process industries
- Based in Durham, NC – with an extensive customer base in the southeast and a growing global presence.
- We strive to support our customers on any platforms that they select, and help them make selections if needed



Key Practice Areas

Apperture SOLUTIONS



DATA ENABLEMENT

- Analytics and AI-driven insights
- Data readiness and data engineering



MANUFACTURING OPERATIONS (MES/MOM)

- MES, electronic batch records, LIMS
- Digital logbooks, materials management



PRODUCTION OPTIMIZATION

- Advanced process control
- Simulation and operator training
- Alarm management



IT/OT & CYBERSECURITY

- Architecture, networking and integration
- Cybersecurity and risk assessments



PLC & SCADA SERVICES

- Engineering, programming, and startup
- Lifecycle support and modernizations



FACILITY AUTOMATION

- Architecture and design
- Delivery and commissioning



CONSULTING SERVICES

- Architecture design and capital planning
- Cross discipline collaboration
- CQV

Experts In Manufacturing Computer Systems

30+ Years in Business

2.2K+ Executed Projects

35+ Countries Serviced



11.5 average years of experience

250+ Employees & Contractors

OpsTrakker | The Leading Digital Enablement Platform (DEP)

EIS Locations and OpsTrakker Projects



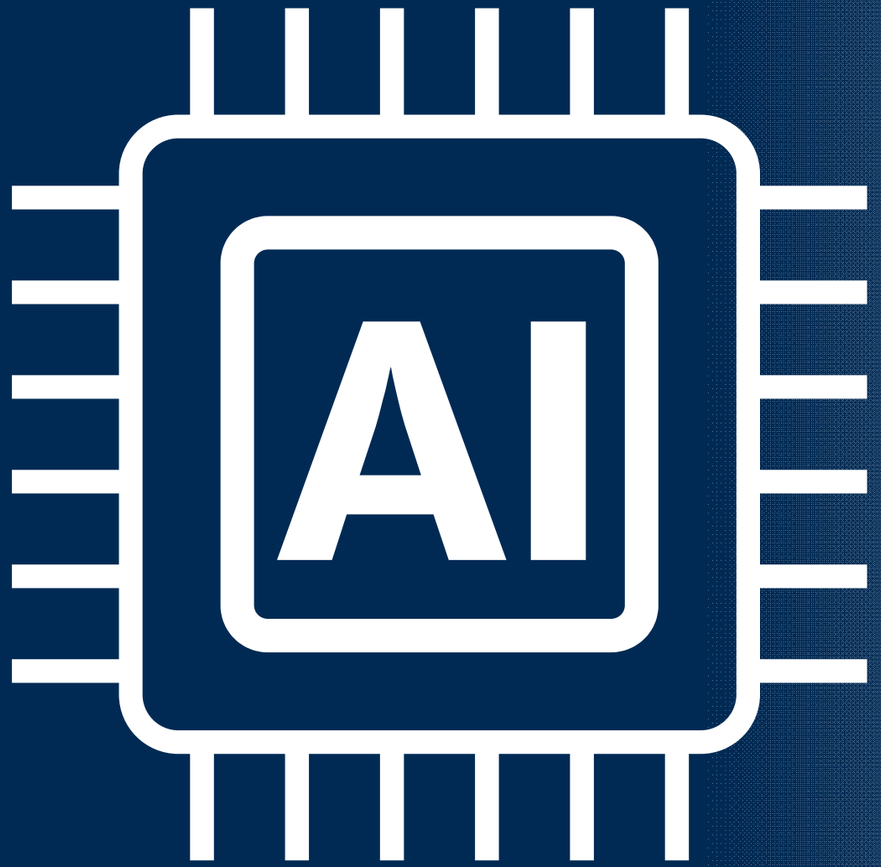
Example OpsTrakker Clients

sanofi · Pfizer · Takeda · Johnson&Johnson

REGENERON · BAYER · NOVARTIS · IPSEN Innovation for patient care

6 of the top **20** largest life science companies use OpsTrakker

What is on everyone's mind



How AI/ML Adds Value in MES Systems

AI will power smart analytics that predict and prevent issues, and autonomous agents that execute and optimize while keeping humans in control.



Analysis & Intelligence

Execution Data Capture
Generated during execution and workflows

Analyze Patterns & Trends
Patterns across steps, users, and time

Surface Insights
Predictive Risk Identification and Insight for Review



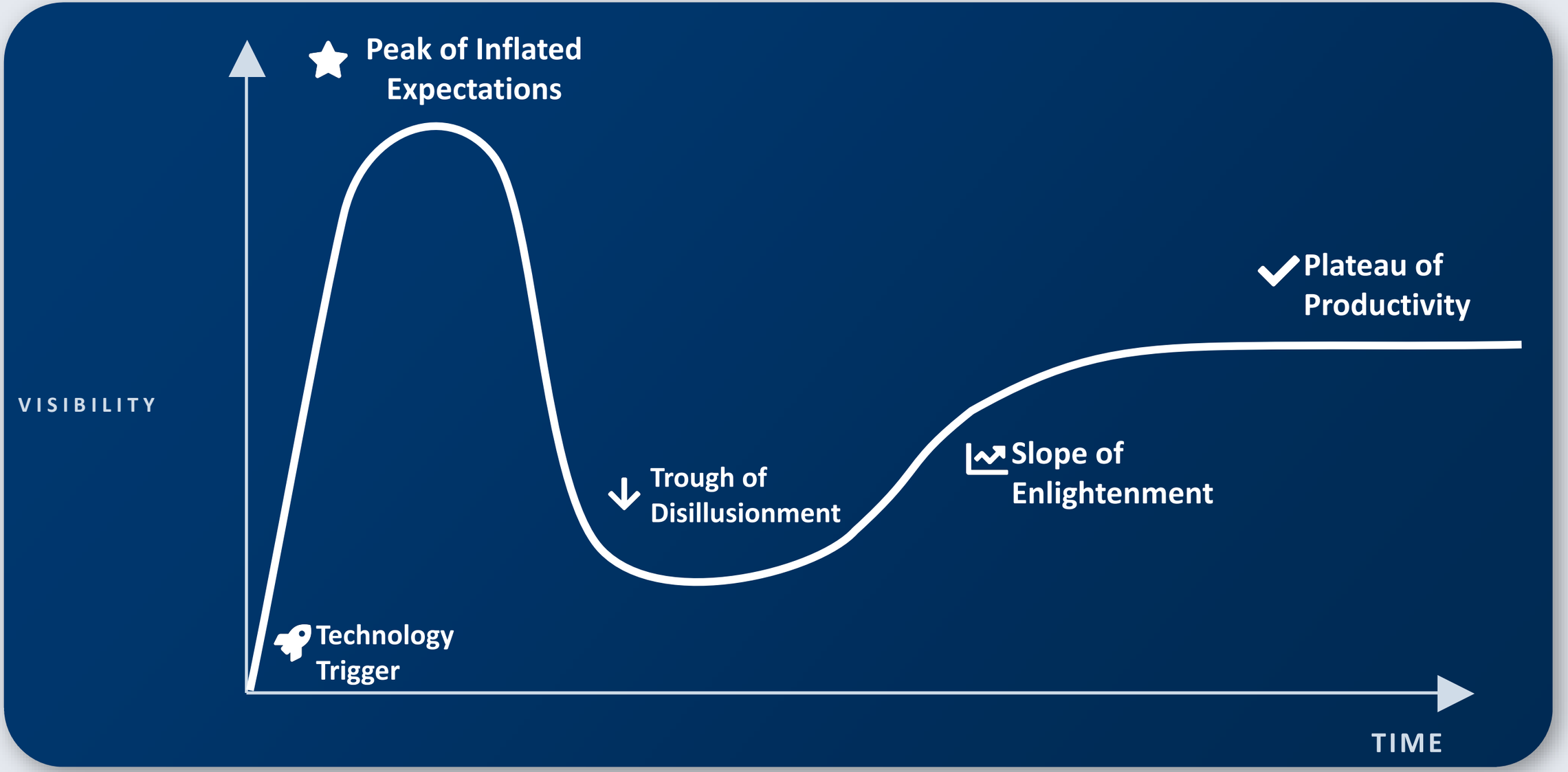
Agentic AI

Assist User Actions
Supports Authoring, Review Cycles, Scheduling, and Process Improvement

Content-Aware Automation
Operates within Existing System Logic and Context

Human-In-The-Loop Controls
Human Users retain Control and Accountability

The Hype Cycle



1995 - Gartner, Inc. analyst Jackie Fenn

Your First Step: Focus on the Data Foundation

Transform paper records into AI Ready Data

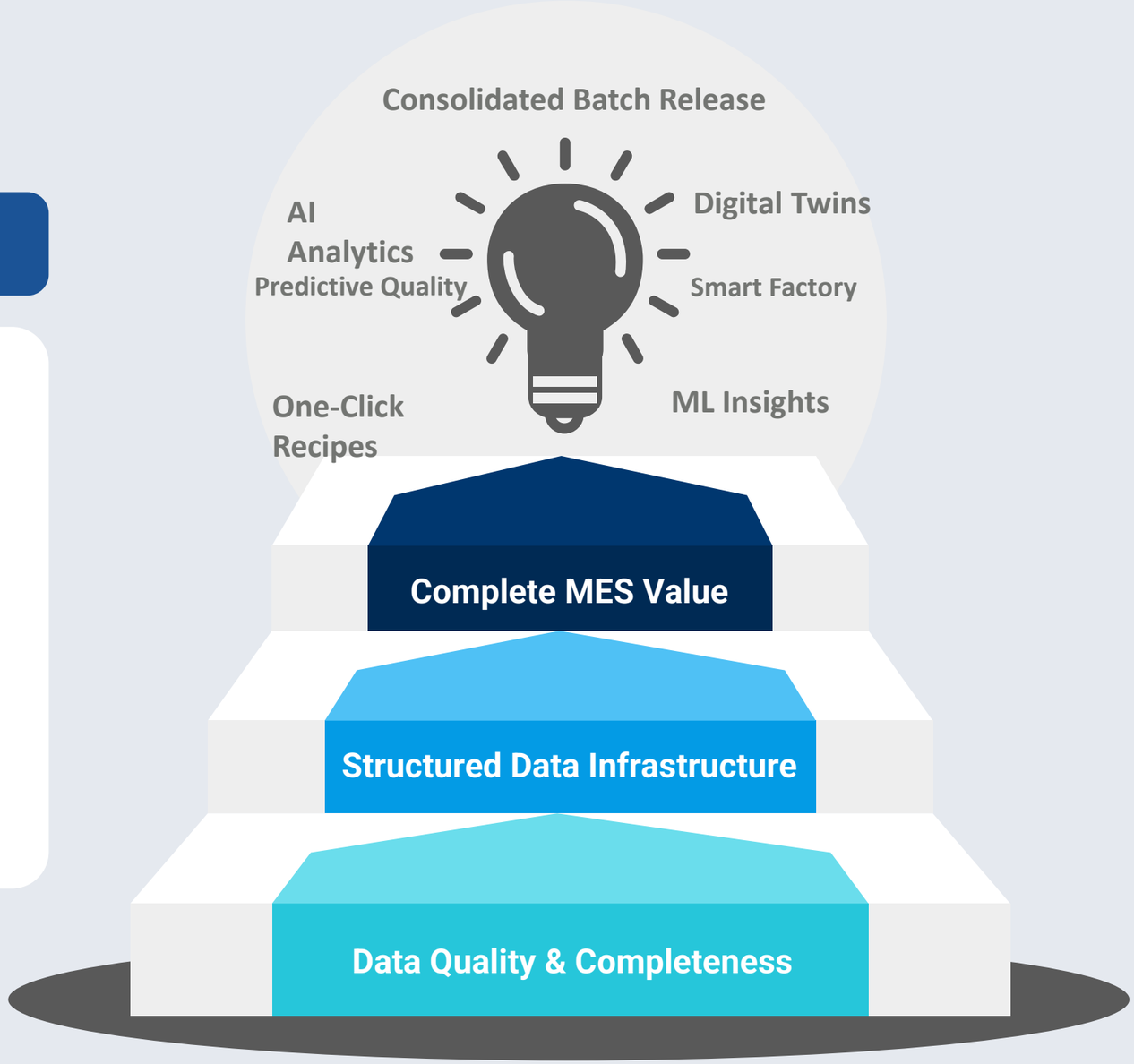
Success Depends on the Data Foundation

Garbage In, Garbage Out

Even the best AI models are not going to be able to produce meaningful results if the underlying data is incomplete or poorly structured.

Your AI/ML Model is only as valuable as the **quality** of the data behind it.

BUT this does not just apply to AI.



OpsTrakker: Transforming Paper Records into AI-Ready Data.

10m+
executed workflows

30k+
users

125+
deployments

OpsTrakker: The leading Digital Enablement Platform

OpsTrakker: The Leading Digital Enablement Platform

Transform paper records into AI Ready Data



OpsTrakker fills in the white spaces of your digital transformation



Manufacturing
- Batch Records
- Packaging Records
- Sample Request



Training
- On-The-Job Training
- Training Requests
- Learning Assessments



Shipping
- Material Shipping
- Labeling Forms



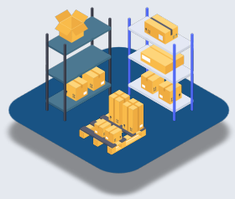
EHS
- Environmental Health
- Periodic Assessments



Security
- Access Request Forms
- Access Removal



Quality
- LIMS Authorization
- MBR Testing

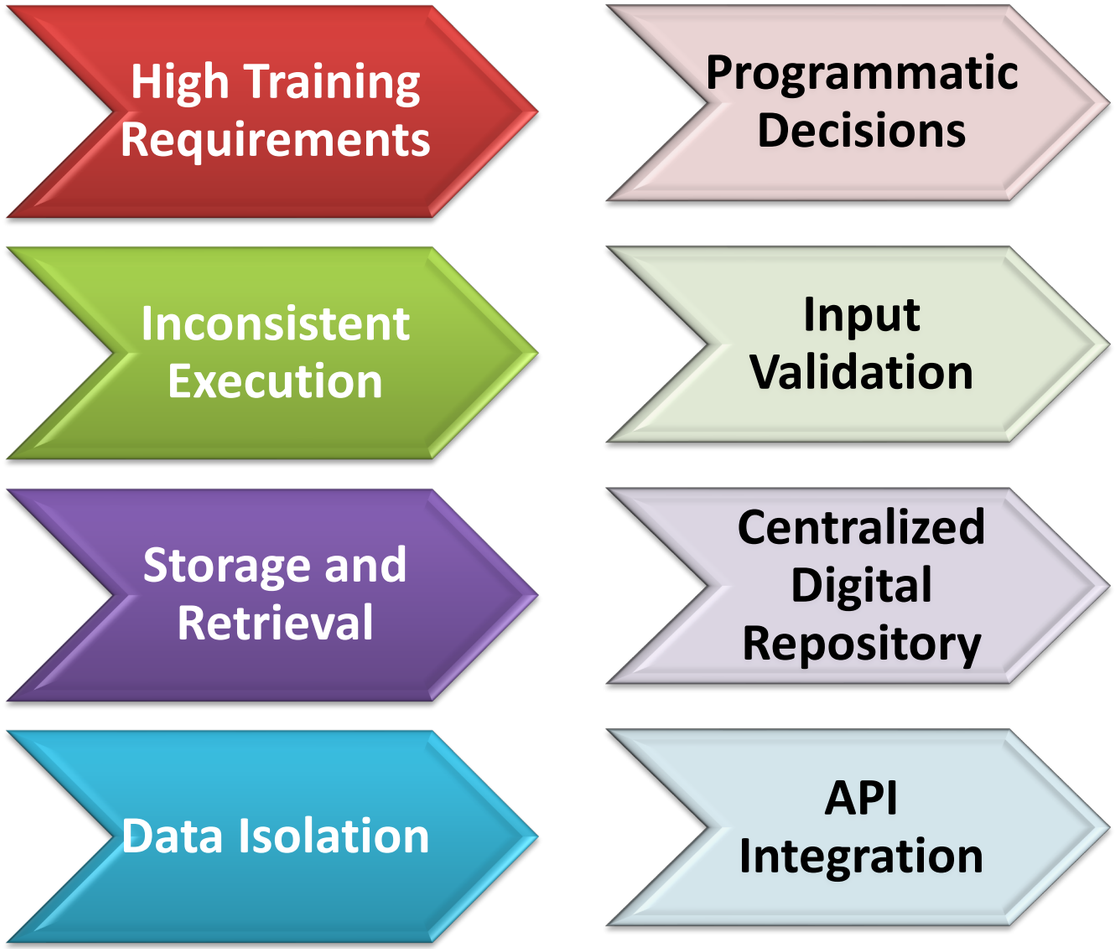


Material
- Material Quarantine
- Material Shipment
- Material Inspection

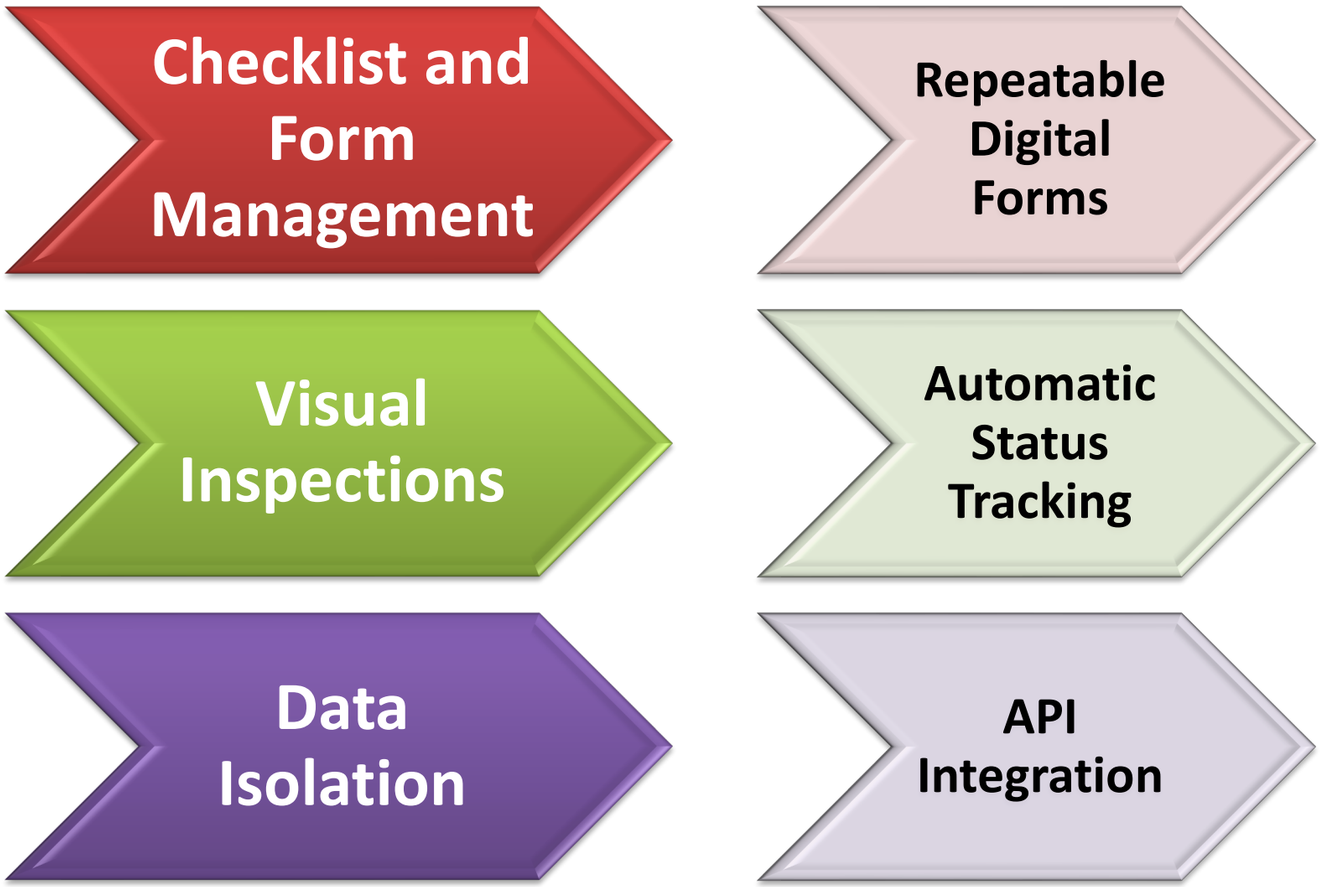


Admin
- Visitor Sign-In
- Partner Notification Forms

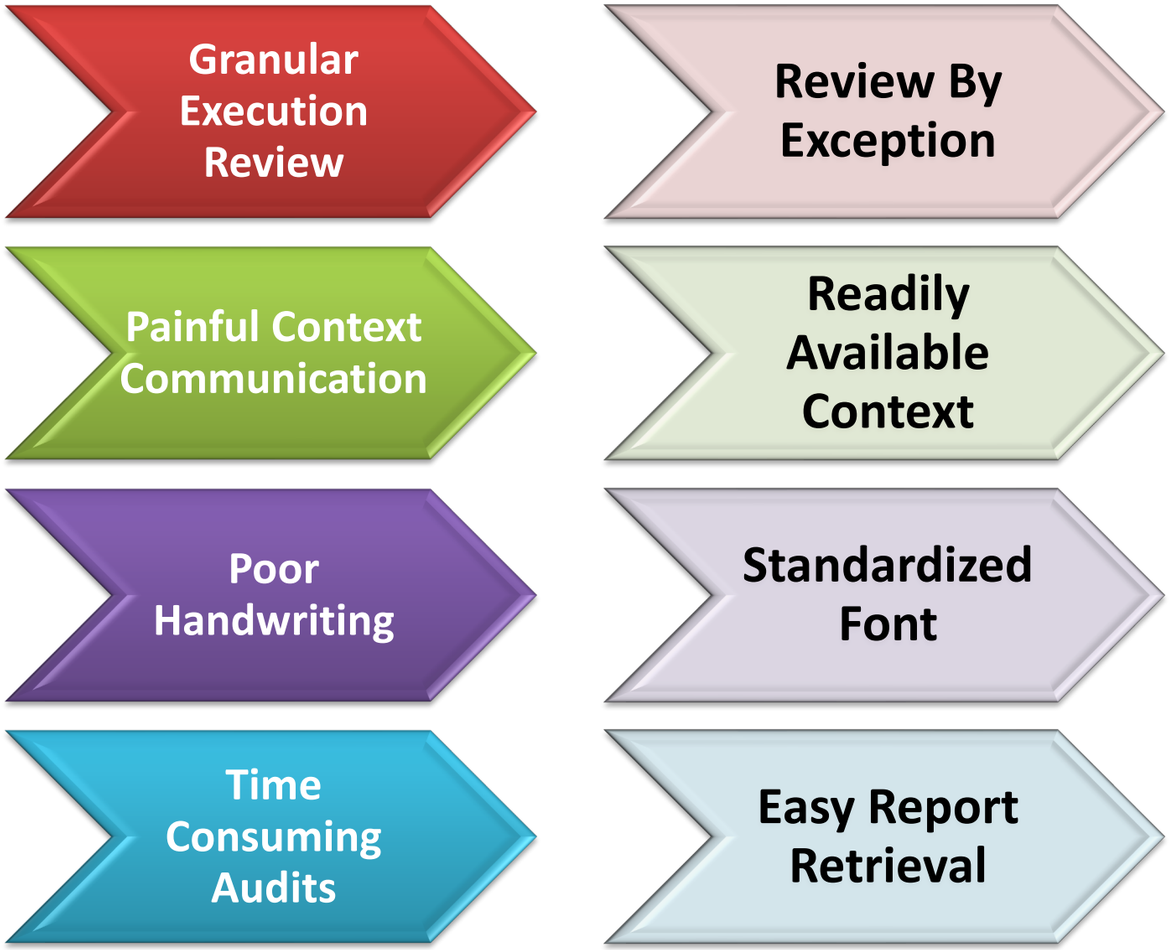
Workflow Execution



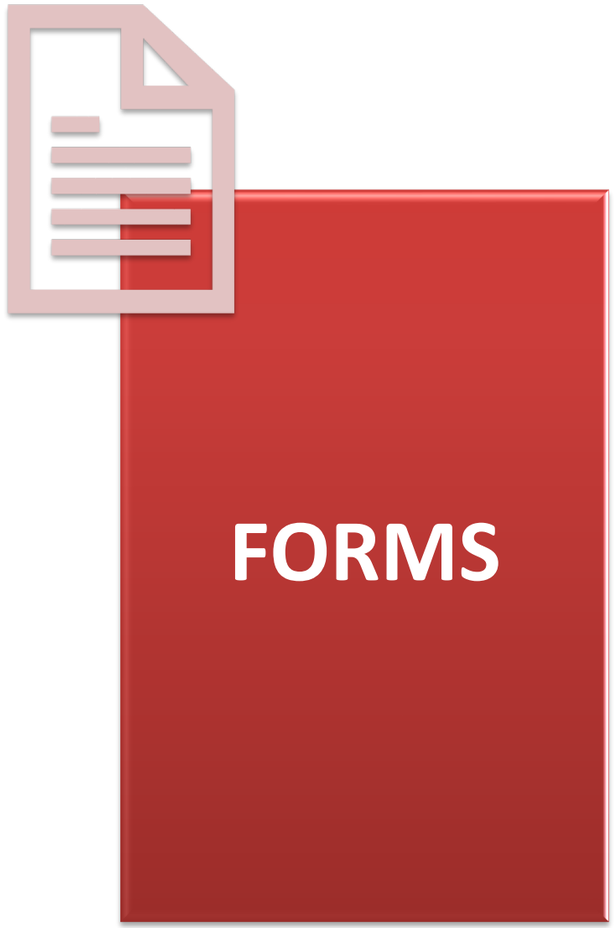
Equipment Management



Reports and Review



Feature Overview







Forms

- Suitable for:
  - Electronic Batch Records
  - Equipment Maintenance Forms
  - Miscellaneous Other Procedures
- Drag and Drop Workflow Authoring
- Robust Approval Workflow Configuration
- Automatic Exception Generation
- JavaScript Availability for Uncommon Integrations



Equipment Management

- Equipment Classes
  - Easily integrate new pieces of equipment
- Equipment Attributes
  - Store and track information during execution
- Equipment Statuses
  - Verify Equipment Status
- Equipment Reports
  - Historical Data in an easily digestible way



Reports

- Structured, automatically generated form execution reports
- Equipment reports provide insight into critical equipment attributes and how they change over time
- Convenient report dashboards reduce review time and allow for targeted examinations
- Downloadable pdf reports support secondary, offline backups of critical process information





Questions?