



## Technological challenges in Quality Assurance

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Prediction

Checking  
Auditing



QA Person



# Technology enables --- Knowledge Management and Quality Risk Management

Technology can be used for all stages of  
Product Life Cycle:

- Pharmaceutical Development
- Technology Transfer
- Commercial Manufacturing
- Product Discontinuation

# Technology in various stages..

- Audit trail present but turned off
- SCADA –But not being used fully
- Alarms but not being heeded to
- Visual Inspection
- Leak Test
- Laboratory Tests...numerous examples

# Benefits

- Better--Root cause analysis
- Proactive vs. Reactive
- Predictive vs. Guessing/unsure/  
taking a chance
- Efficient Operations
- Better use of resources
- Better life cycle management

**THANK YOU  
FOR ANY  
QUESTIONS—**

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