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Perspectives on best practices in Quality Metrics

Group exercise

Regulatory agencies and industry players are increasingly highlighting the importance of governance and management review

"Management review should provide assurance that process performance and product quality are managed over the lifecycle. ...management review can be a series of reviews at various levels of management and should include a timely and effective communication and escalation process..."

- ICH Q10 Pharmaceutical Quality System



"Management with executive responsibility shall review the suitability and effectiveness of the quality system at defined intervals and with sufficient frequency according to established procedures to ensure that the quality system satisfies the requirements of this part and the manufacturer's established quality policy and objectives"

- 21 CFR, Part 820.20(c)

Robust management review & governance system has 3 key elements

 Putting in the place the right systems that help identify other gaps and raise 'red flags' to bring them to management's attention for immediate action on an ongoing basis

Quality Metrics (2)**Effective** management review & governance Ongoing escalation **Structured Review** mechanism **Processes**

 Identifying, baselining & benchmarking the right quality metrics to provide robust assessment of performance & health of an organization's quality

- Setting up review forums that enable effective cascading of quality metrics to the shop floor level
- Driving effective reviews that enable effective problem solving & identifying root cause of issues

Governance system must be aligned to the quality management system & overall quality vision of any organization

1 2 types of KPIs are key to ensure all required information is available to prevent quality issues

Lagging indicators



Leading indicators

Value

- Show final outcome of an action
- Confirm that a pattern is occurring
- Provide broad area where improvement need to be focused

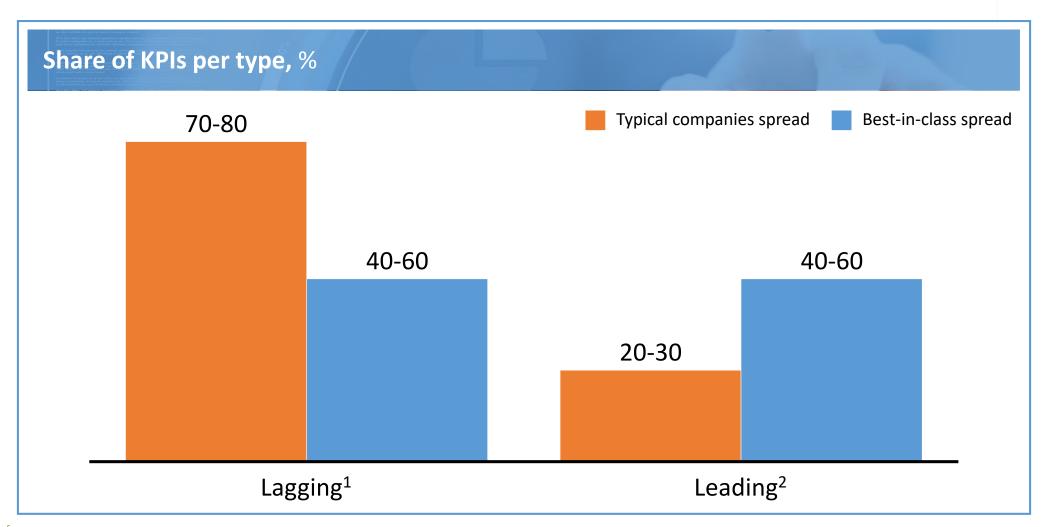
- Provide an early indication about impact of strategy/process
- Give indication of future outcomes
- Anticipate failure and avoid potential costs

Pitfalls

- Data arrives too late to take action
- Time lag between improvement and effect
- "Managing to the metric" can lead to short term/sub-optimal decisions

- Input metrics are often more subjective and open to ambiguity
- Some are difficult to measure
- Delivered results usually result in long term improvement

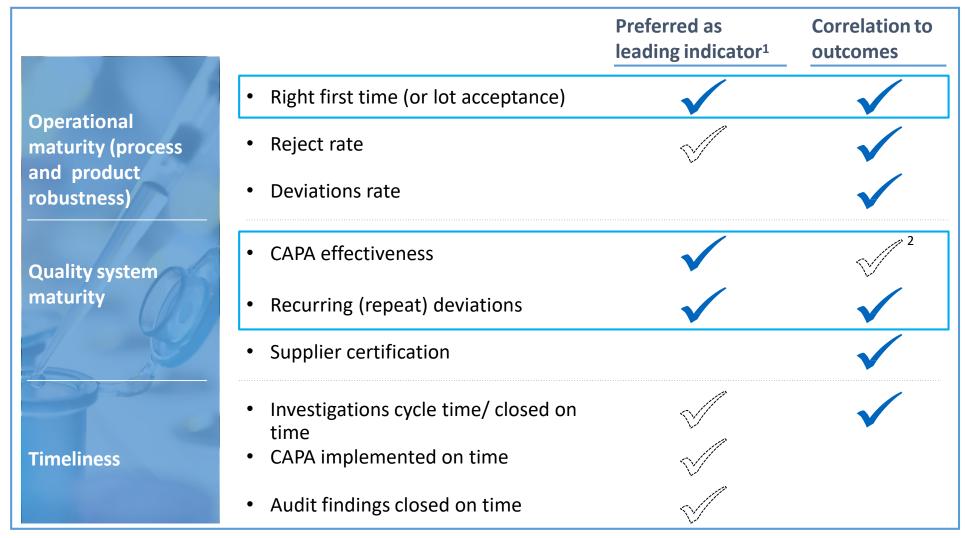
1 Typically, we observe an unbalance in Quality KPIs towards lagging metrics, limiting prediction and prevention



¹ KPIs that show past performance

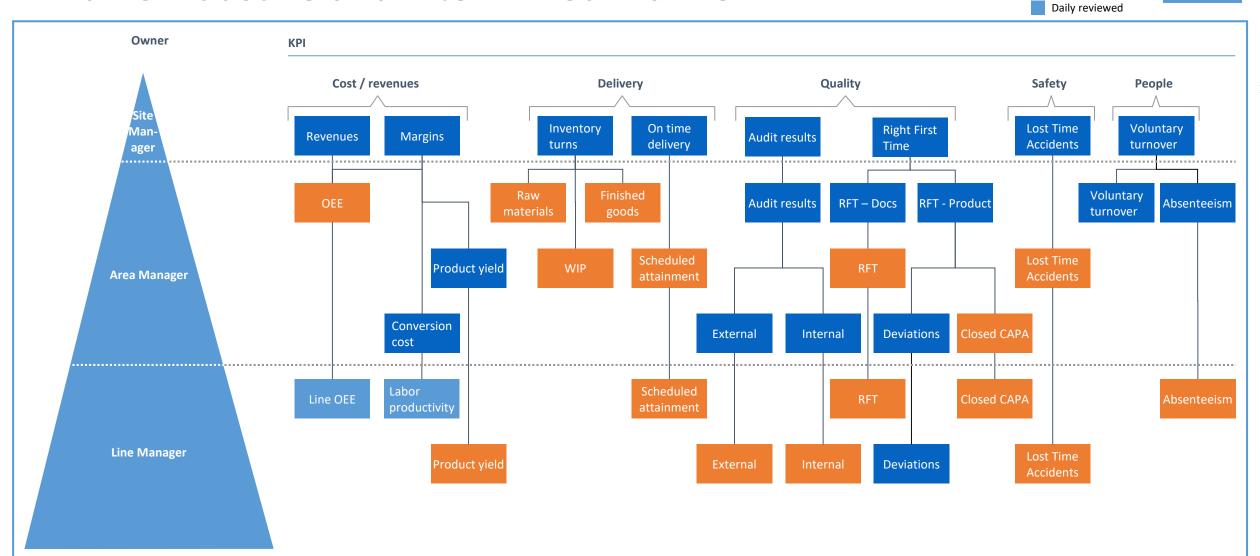
² Indicators that give an indication of future outcome

1 Three metrics are gathering wide consensus with regard to their value as leading indicators ✓ Consistent use¹ ✓ Limited or inconsistent use



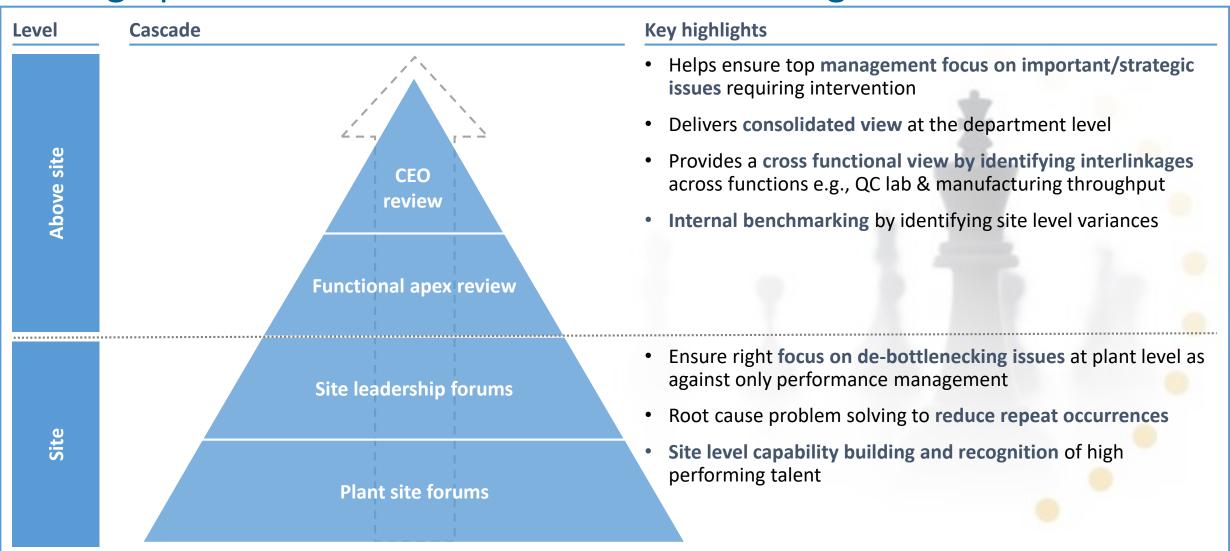
Metrics should be cascaded to the shop floor level in an exhaustive and inter-linked manner





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2 Streamlined and interconnected review forums are critical to align priorities and focus areas across the organization



2 Effective reviews result in identification and follow through of concrete action steps for quality improvement

What does a good review look like?

This ...



- Productive team working session
- Joint issue identification and problemsolving
- Value-adding spirit focus on what can be achieved
- Challenging the accepted norms "How can we do it better?"
- Delegating responsibility for achievement to the appropriate people

Not this ...



- Only reporting of facts
- Judgmental, apportionment of blame for things gone wrong
- Critical or defensive attitudes
- Compliance or acceptance of the norm
- Micro-management

Key questions for effective discussions • What are the gaps to target? What is • Are any trends causing concern? happening? What happened to cause the performance gap? 5 Whys? Do we really understand the root causes? Do we need to investigate further? What can we do to correct the problem and prevent this from happening again? What needs to Will these actions completely resolve the problem? be done? Do we need to do anything else to close the gap? Do we need to take any short-term containment action? 1/02 2/02 3/02 4/02 5/02 5/02 Who will take responsibility for completing Who is going the action? to do it? Does the owner need support from any of the other team members? Is it a priority action? When is it going to • What is the deadline for completion? be done? • When are the intermediate milestones?

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Group exercise

Breakout



- Identify the top 10 most important Quality KPIs / metrics
 - Define the metrics
 - Assign ownership across management levels
 - Assign review frequency

Instructions



- Participants would work in groups of 10
- List priority KPIs in the assigned template sheet

Time



- 20 minutes for activity
- 10 minutes for discussion

Data Provided



- Each group would receive a list of KPIs/Metrics
- A template sheet to fill in their responses

Total time given



30 minutes



Guiding principles for the case study

Not more than 8-10 metrics should be selected for review Metrics selected should include a combination of leading and lagging KPIs Metrics should be effectively cascaded from the top management 3 to the shop floor Metrics should be harmonized across levels

Group activity Template

Top 10 Metrics	Cascade level (Above site / Site leadership / Middle management / Shop floor)	Frequency of evaluation (Daily/weekly/monthly/quarterly)
1		
2		
3		
4		
5		
6		
9		
10		