

Cranfield University (FMM 73)
Interim Presentation

Lonza

Engineering CI World Class Initiative

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Lonza Biologics plc, Slough

Lonza Biologics Engineering

- Lonza Engineering
- AMIS Audit & Journey to World Class Status
- Current Projects
- My Learning
- Conclusion

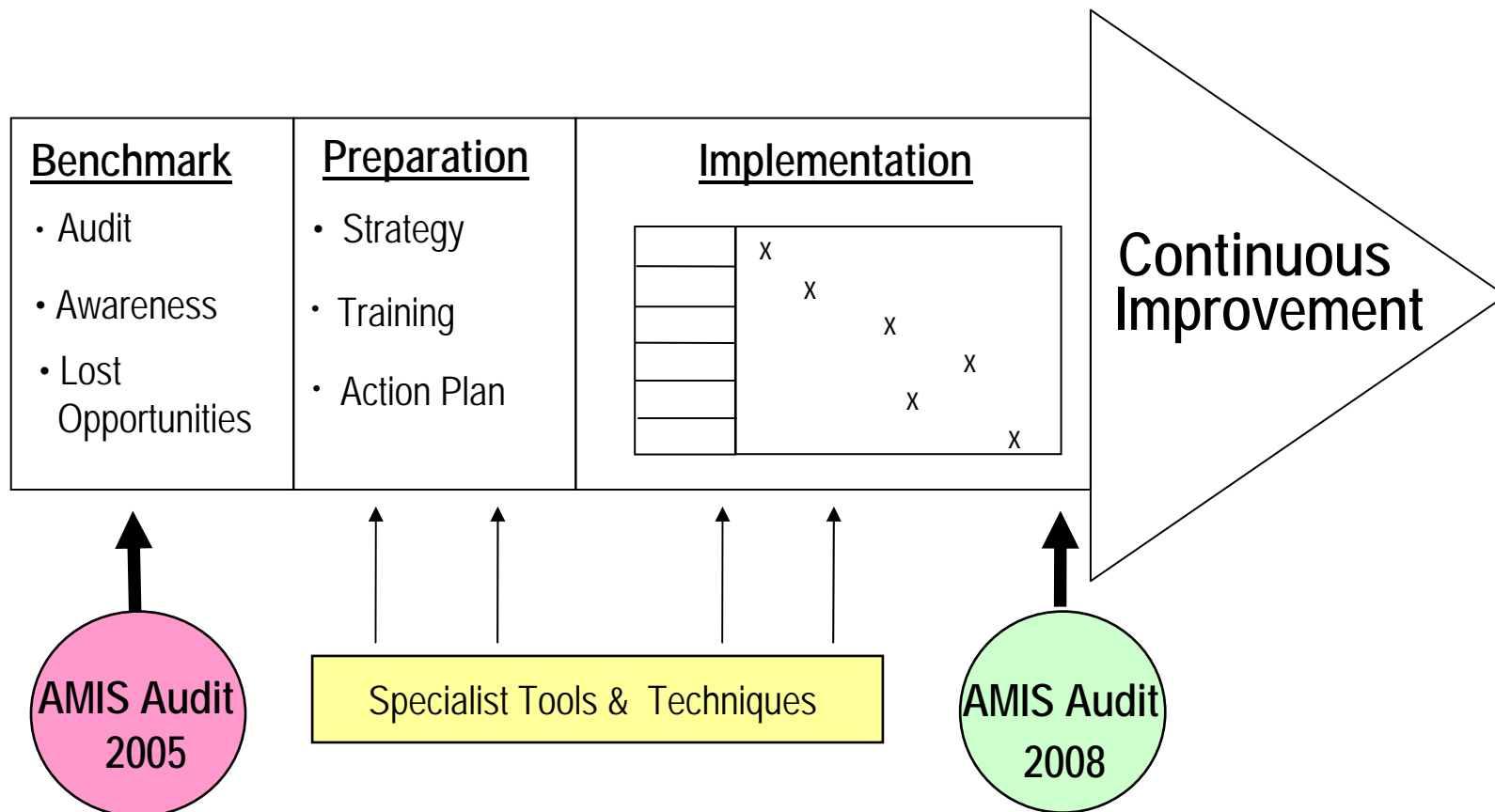
Audit, May 2005

- **Asset Management Information Service (AMIS)**

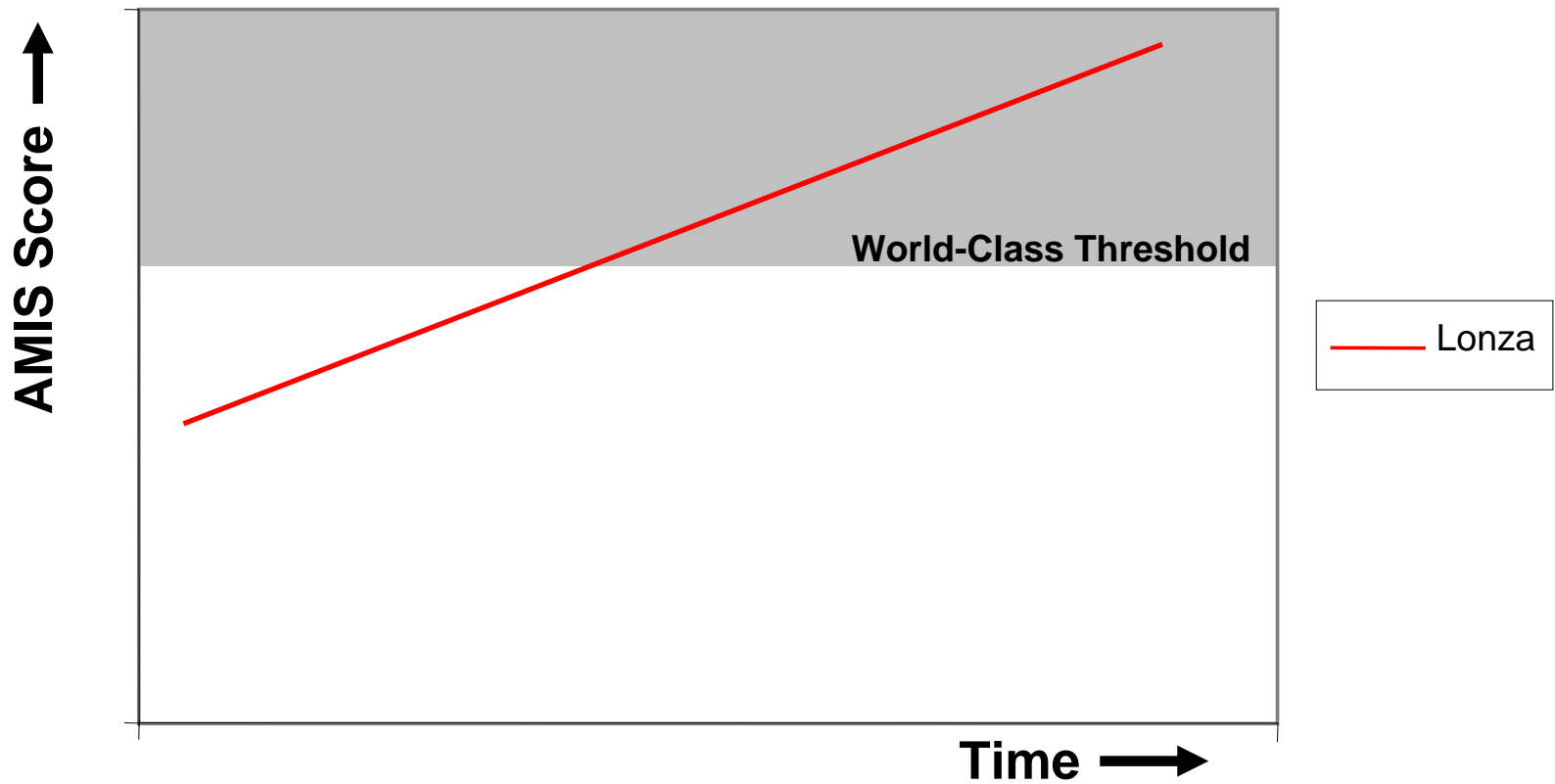
- Benchmark Lonza Asset Care
 - General Level of Maintenance
 - Organisation & People Management
 - Work Planning and Control
 - Cost Management
 - Productivity and Effectiveness
 - Materials Management
 - Failure Analysis and Betterment
 - Training and Safety

- Overall Score of 100%

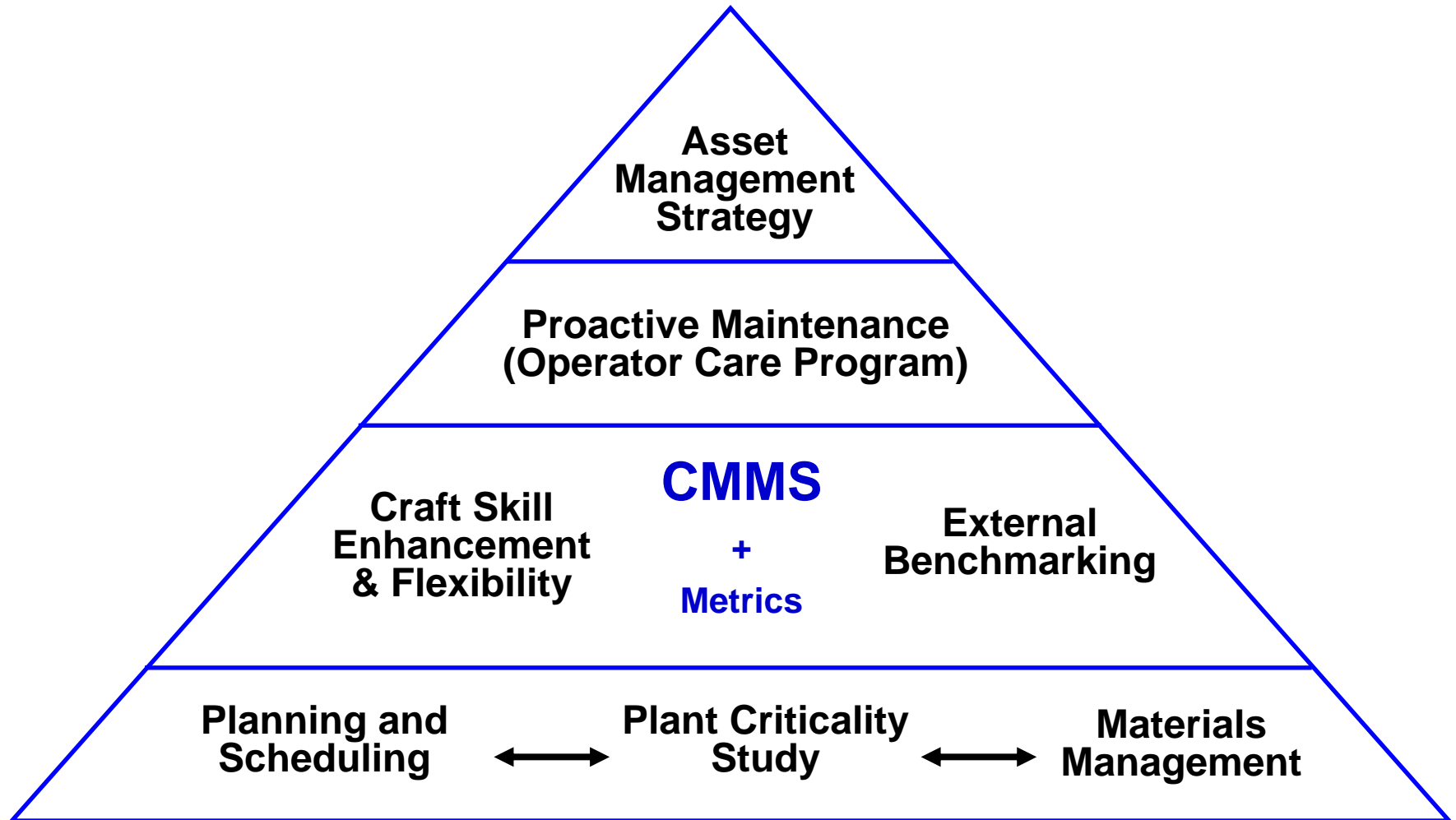
Journey to World-Class



Lonza Projection



The Maintenance Excellence Pyramid



Current Projects

- Maintenance Planning, Scheduling and Control + KPIs
 - 95% Maintenance Schedule Compliance
 - 5% Reactive work
 - OEE of 75%

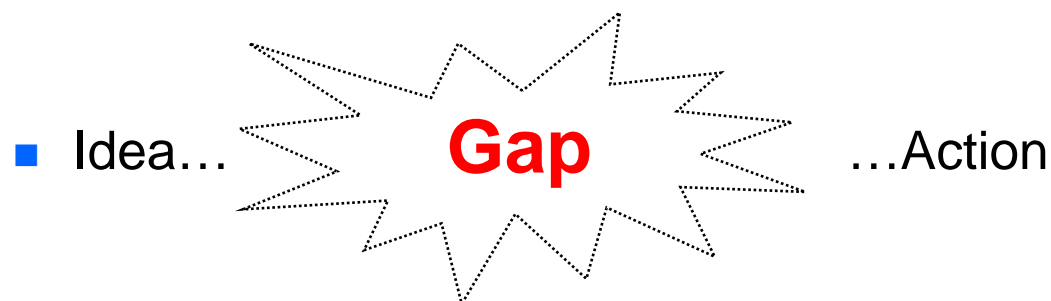
- Engineering Stores
 - Integrated PM/MM system
 - Compliant to cGMP Requirements
 - Material Stock turnover of 0.8

- Monitoring of Criticality Study for alignment with Stores Function

- Equates to approximately 30% reduction in Maintenance Costs

My Learning

- The Learning Curve
 - Reflector / Theorist▶ Activist / Pragmatist
- Transitions
- Johari Window
 - Always room for Improvement



Conclusion

- Implementation of KPIs with stretch targets
- SAP PM & MM
- Cost Alignment
- Audit for June 2006