

Leveraging Technology to Improve Laboratory Quality

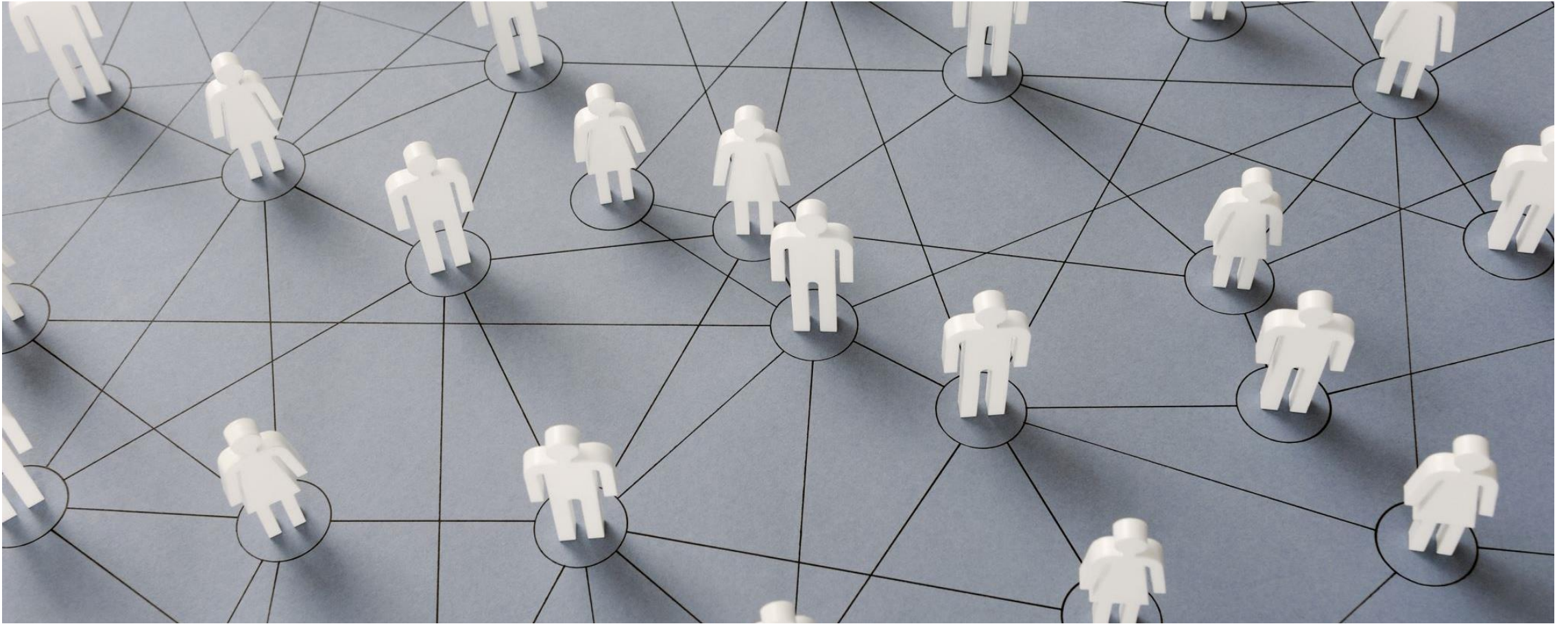
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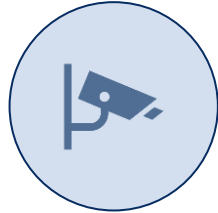
Cloud Computing



Cloud Computing Considerations



SCALABILITY



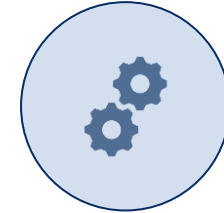
SECURITY



COMPLIANCE



DATA BACK-UP
AND RECOVERY



INTEGRATION
CAPABILITIES

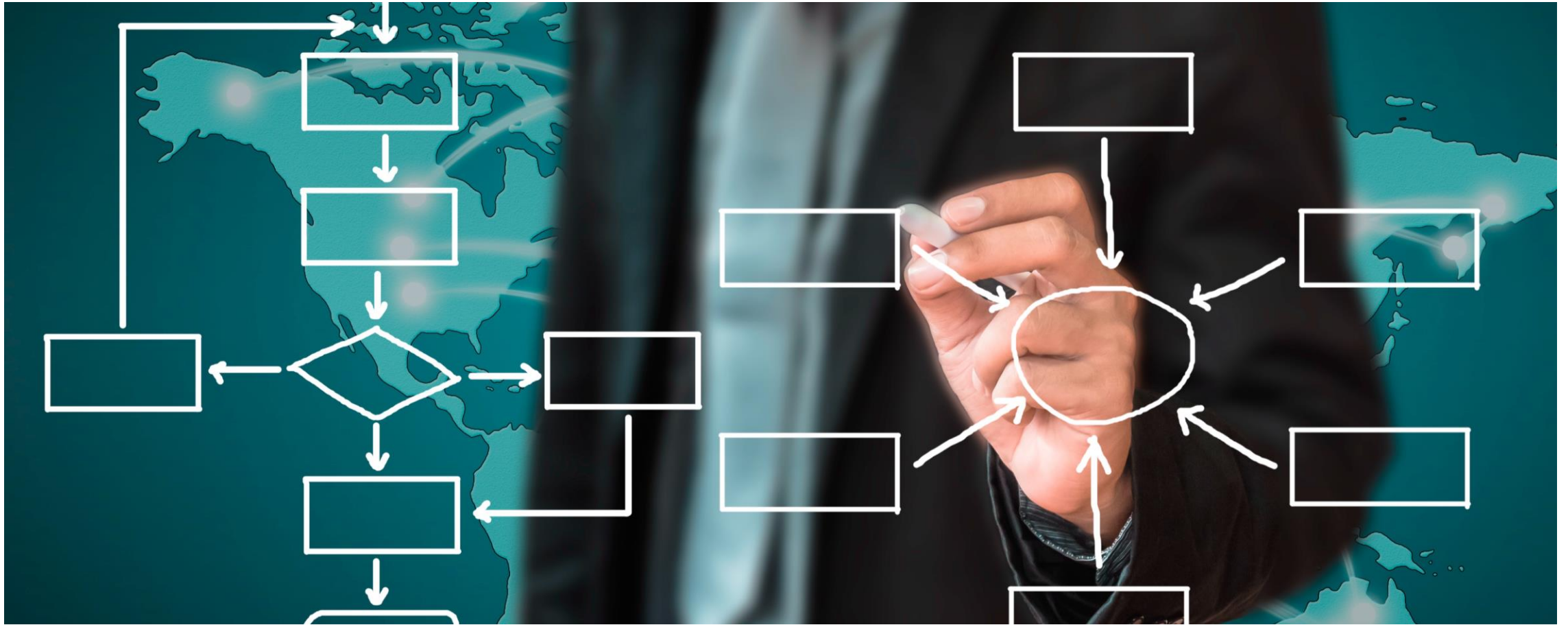


REDUNDANCY
OF SYSTEM

Artificial Intelligence and Machine Learning



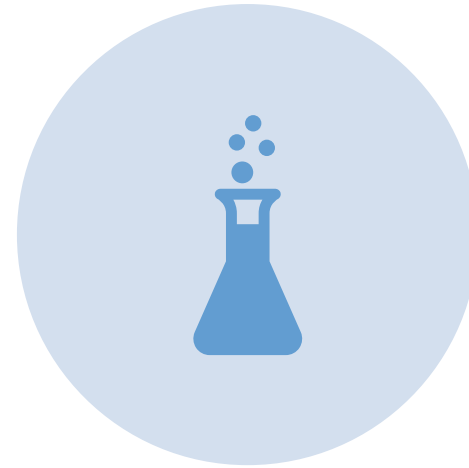
Automating Workflows



Workflow Management



LABORATORY INFORMATION
MANAGEMENT SYSTEMS



LABORATORY AUTOMATION
SOFTWARE

Workflow Process

- Identify workflow
- Define objective
- Map current workflow
- Choose automation tools
- Design automated workflow
- Develop automation solution
- Test
- Implement and monitor
- Document and train



Understanding Complexity

Lack of clarity

Historical accumulation

Siloed approach

Resistance to change

Reliant on paperwork approach

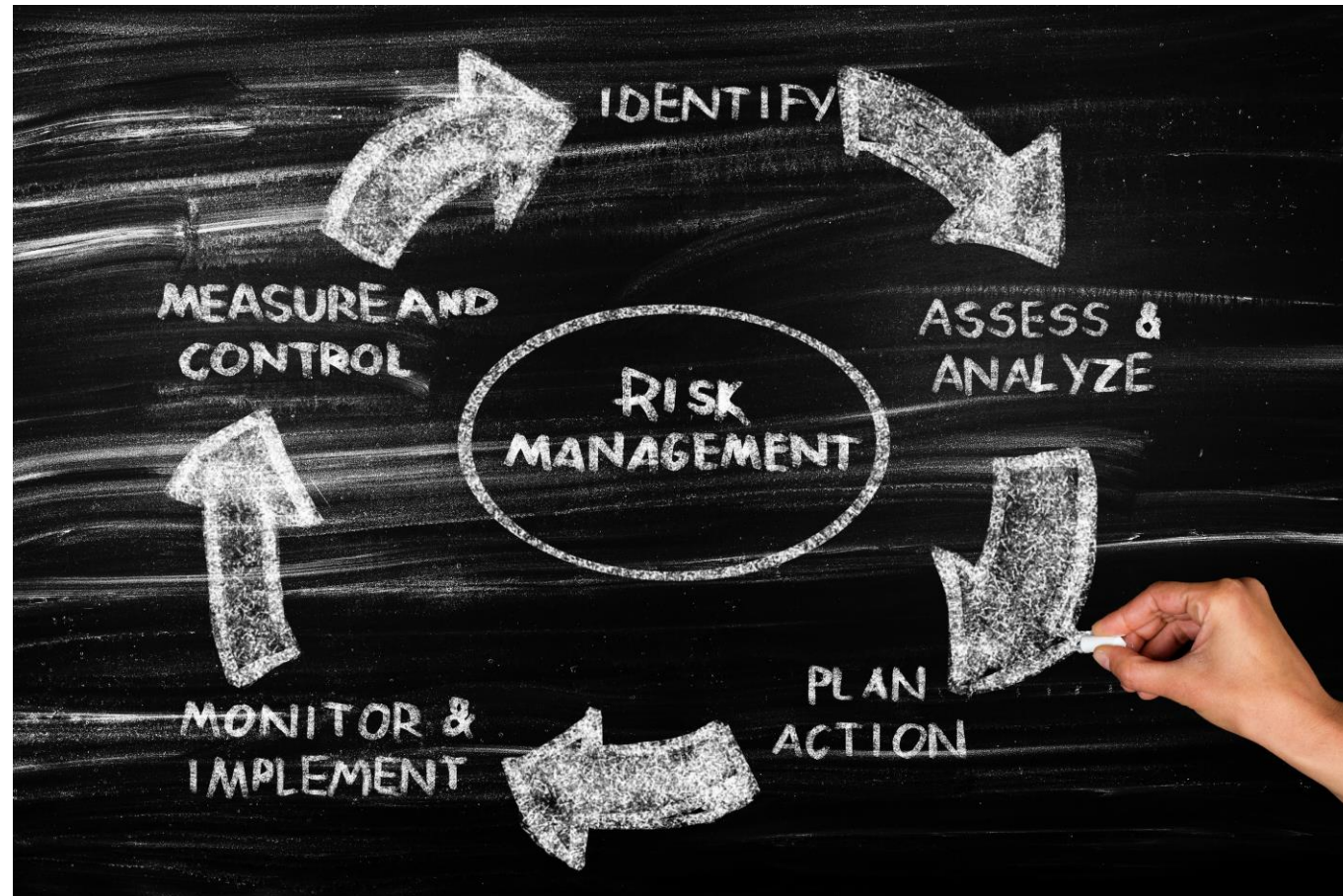


Process Analysis

- Document existing process
- Visual representation
- Interview key stakeholders
- Collect data
- Conduct cause analysis
- Benchmark to best practices
- Collaborate w/stakeholders
- Prioritize
- Implement, monitor, refine



Risk Reduction



In Conclusion



Thank you!



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