

# Mastering Systems Integration; Integration Strategy

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## Abstract

This presentation discusses the strategy for integration. The strategy is transformed into the systems integration cookbook that provides a step by step approach.

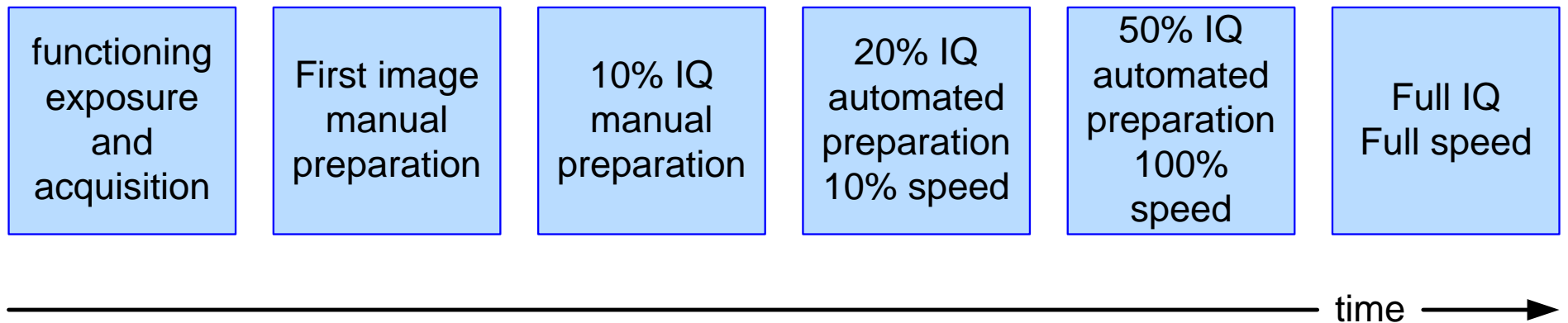
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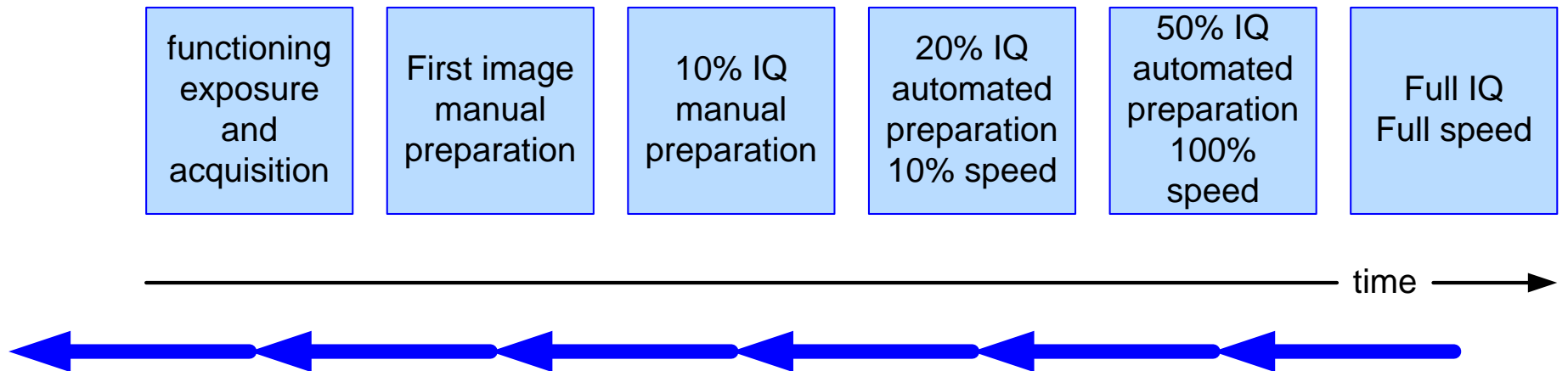
# Pacing Milestones



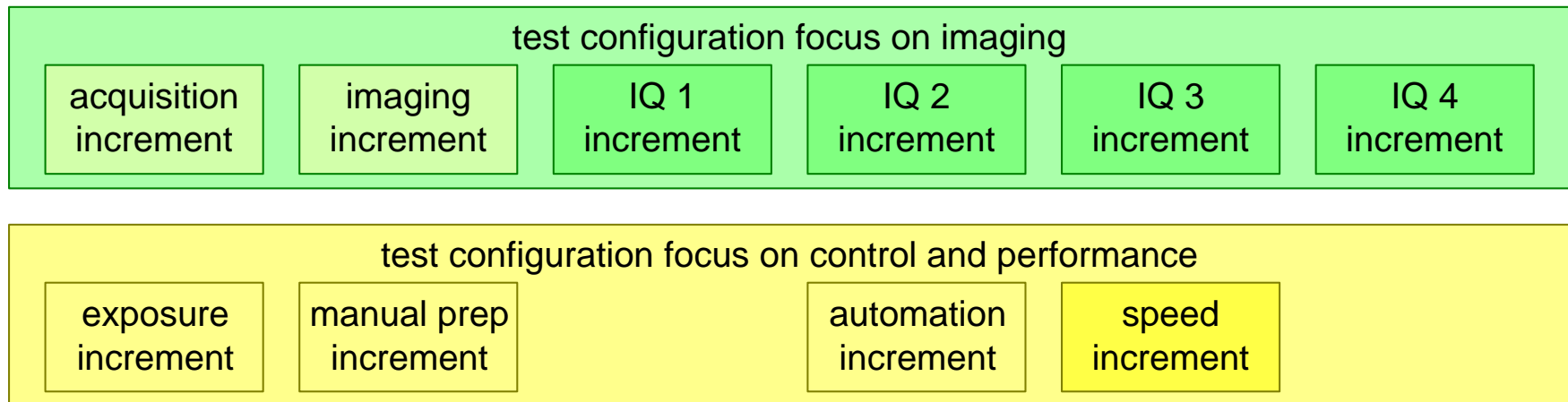
pacing:

maximum 6 month between milestones  
depending on technology and domain

# Defining an Integration Sequence in Increments



definition of integration increments working backwards in time (demand driven)



# Stepwise Integration Approach

1	Determine most critical system performance parameters.
2	Identify subsystems and functions involved in these parameters.
3	Work towards integration configurations along these chains of subsystems and functions.
4	Show system performance parameter as early as possible; start with showing "typical" system performance.
5	Show "worst-case" and "boundary" system performance.
6	Rework manual integration tests in steps into automated regression tests.
7	Monitor regression results with human-driven analysis.
8	Integrate the chains: show system performance of different parameters simultaneously on the same system.

# Systems Integration Cookbook

1. Determine integration views

2. Determine integration risks

3. Determine integration sequence

4. Determine increments

5. Determine test environment

6. Match development-, integration- & test planning

7. Provide planning per increment

8. Capture all details, results, decisions

9. Iterate and check assumptions