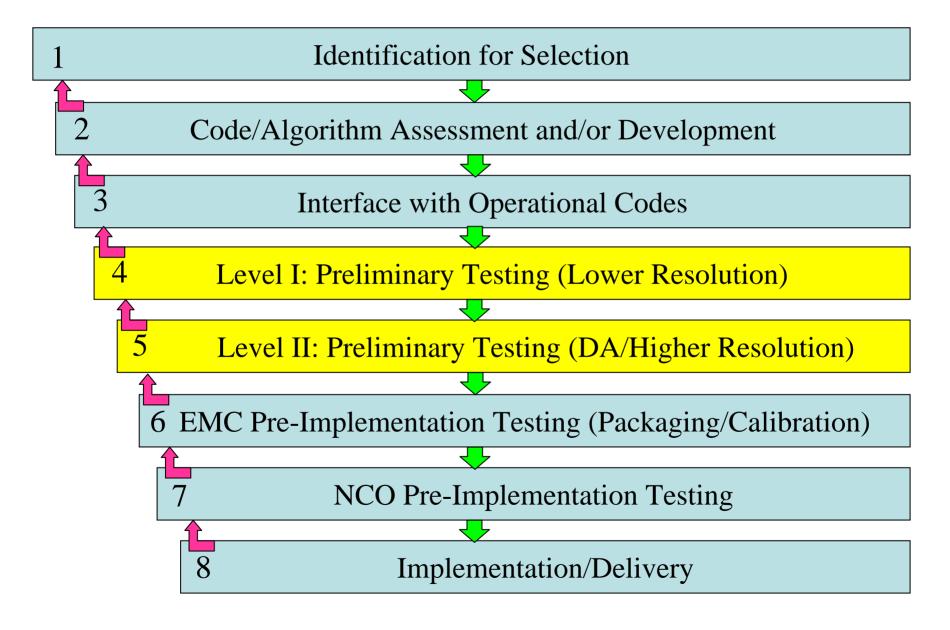
Transition Steps (Modeling)



The Path to Operational Implementation

1 Code or Algorithm Development & Refinement Repeated case studies, proof of concept, eliminate bugs

2 Interface with Operational Codes & Data Structures

Connect input/output to BUFR/GRIB, develop backup version, Make code robust & efficient to fit time/cpu/memory window

3 Preliminary Runs (Research Quality)

Low resolution case studies, static initialization, relevant diagnostics, warm & cool cases, assess short-term model climate (30 days)

4 Low Resolution Parallel Runs (Experimental)

Connect to fully cycled data assimilation, run for all seasons, accumulate verification statistics, identify&solve problems:e.g. biases, amplification through cycling, spin-up/down etc.

5 Pre-Implementation Runs

Operational resolution fully cycled real-time parallel, more comprehensive verification, documentation and user notification, real-time forecaster exposure/evaluation