

Recent Activities of the CDR Program Office

Jeffrey L. Privette

CDR Program Scientist

NOAA's National Climatic Data Center

Our Goal (Shorthand Version)

Provide scientifically-defensible CDRs to the public on time, in perpetuity, using robust and cost-effective practices.

Our Goal (Shorthand Version)

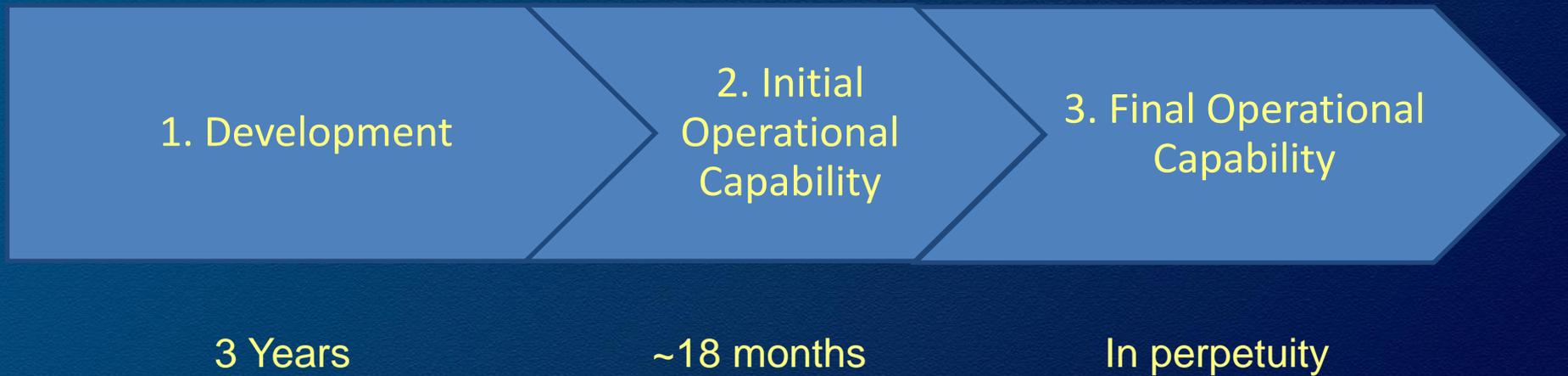
Provide scientifically-defensible CDRs to the public on time, in perpetuity, using robust and cost-effective practices.

“Robust” & “in perpetuity” means developing systems and processes that continue uninterrupted through reasonable perturbations (e.g., PI retirement)

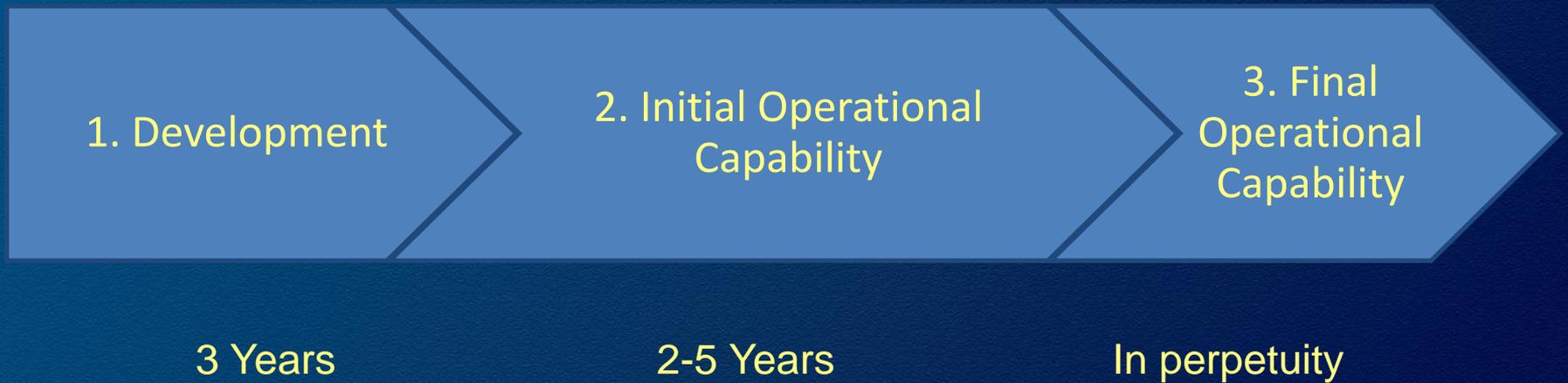
2010: Transition to Operations Requires 2 Phases

- Initial Operational Capability (IOC) is a CDR development state achieved when a CDR -- including the data set, source code and documentation -- is scientifically defensible and is archived, maintained, and made publicly available at NOAA's National Climatic Data Center. NOAA commits to extending the data set in time as possible.
 - Meets needs of operational decision-support systems and users
 - Code condition may vary; Generation responsibility may vary
 - Commitment and longevity of data producers provides risk
- Full Operational Capability (FOC) is a CDR development state achieved when a CDR meets IOC requirements and is being systematically and routinely generated by NOAA using codes and systems that conform to the CDR Program's standards.
 - Meets government goal of acquiring capabilities for providing data "on time, all the time."

The Planned Phases of Our Evolving Relationship



2012: The Reality



The Shaping of Initial Operating Capability (IOC)

- Issue: NCDC not yet ready for full operations
 - Still gearing up for high volume data processing
 - Best approach to source code reconfiguration under study
 - Costs of reconfiguration vs. maintenance over product lifecycle (decades?)
- Solution: Keep products at IOC for longer periods
 - Willingness of developer
 - Statement of Work
 - Time increment and latency for CDR extensions
 - Intellectual Property (IP) Rights
 - Contract (Sole Source, Interagency or Cooperative Institute)
 - Broad Area Announcement for contract proposals under review

6 Keys to Successful CDR Transition & Operations

1. Form persisting Integrated Product Teams (IPTs) – Ken Knapp
2. Adopt consistent procedures for Research-to-Operations step – Dan Wunder
3. Implement Configuration Management (CM) and Control – Cheryl Preston
4. Focus on users – DeWayne Cecil
5. Develop viable process for maintaining operational codes – Bryant Cramer
6. Keep the PIs happy during operations (\$) – Jeff Privette