

Raytheon

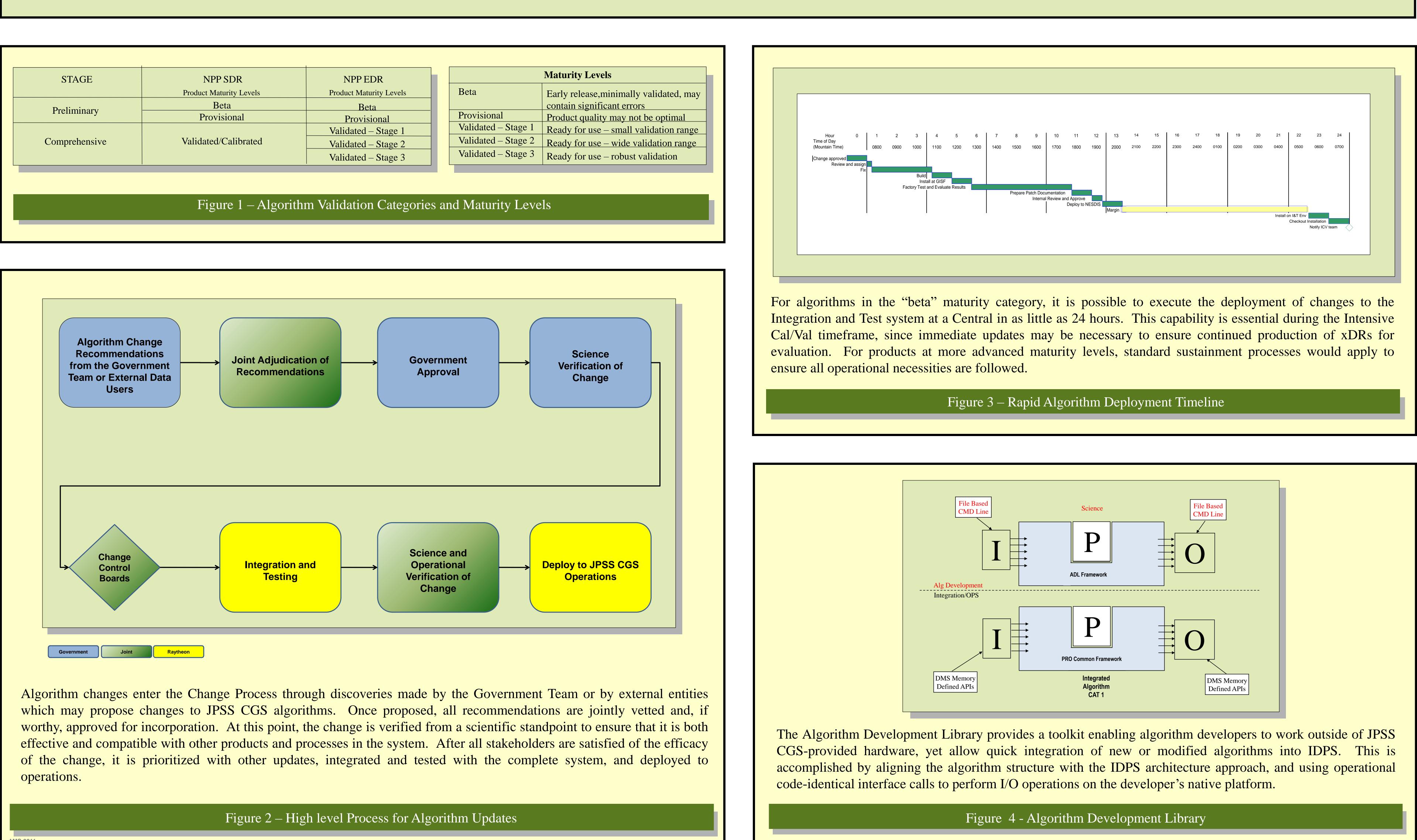
JPSS

CGS



Updates of operational IDPS algorithms need to be rapid, accurate, and compatible with the exigencies of 24/7 operations. As algorithms progress through the Calibration/Validation program, they mature and become more suitable for end users' needs, as defined by the product maturity levels in Figure 1. The program's approach to incorporate changes must handle algorithms in each stage of the validation regime appropriately, with processes and controls that balance the speed of updates against operational system considerations (Figures 2 and 3). In addition, to help ensure a rapid transition of the algorithm code into the operational baseline, JPSS CGS has developed tools and methods to reduce the cycle time from science algorithm to operational code. These tools (Figure 4) are being made available to any science algorithm developer who feels they may be beneficial, and will be required for use by GFE algorithm developers.

STAGE	NPP SDR	NPP EDR
	Product Maturity Levels	Product Maturity Levels
Preliminary	Beta	Beta
	Provisional	Provisional
Comprehensive	Validated/Calibrated	Validated – Stage 1
		Validated – Stage 2
		Validated – Stage 3
	Figure 1 – Algorith	m Validation Catego



Joint Polar Satellite System Common Ground System (JPSS CGS) **NPOESS Preparatory Project (NPP) Rapid Algorithm Updates**

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