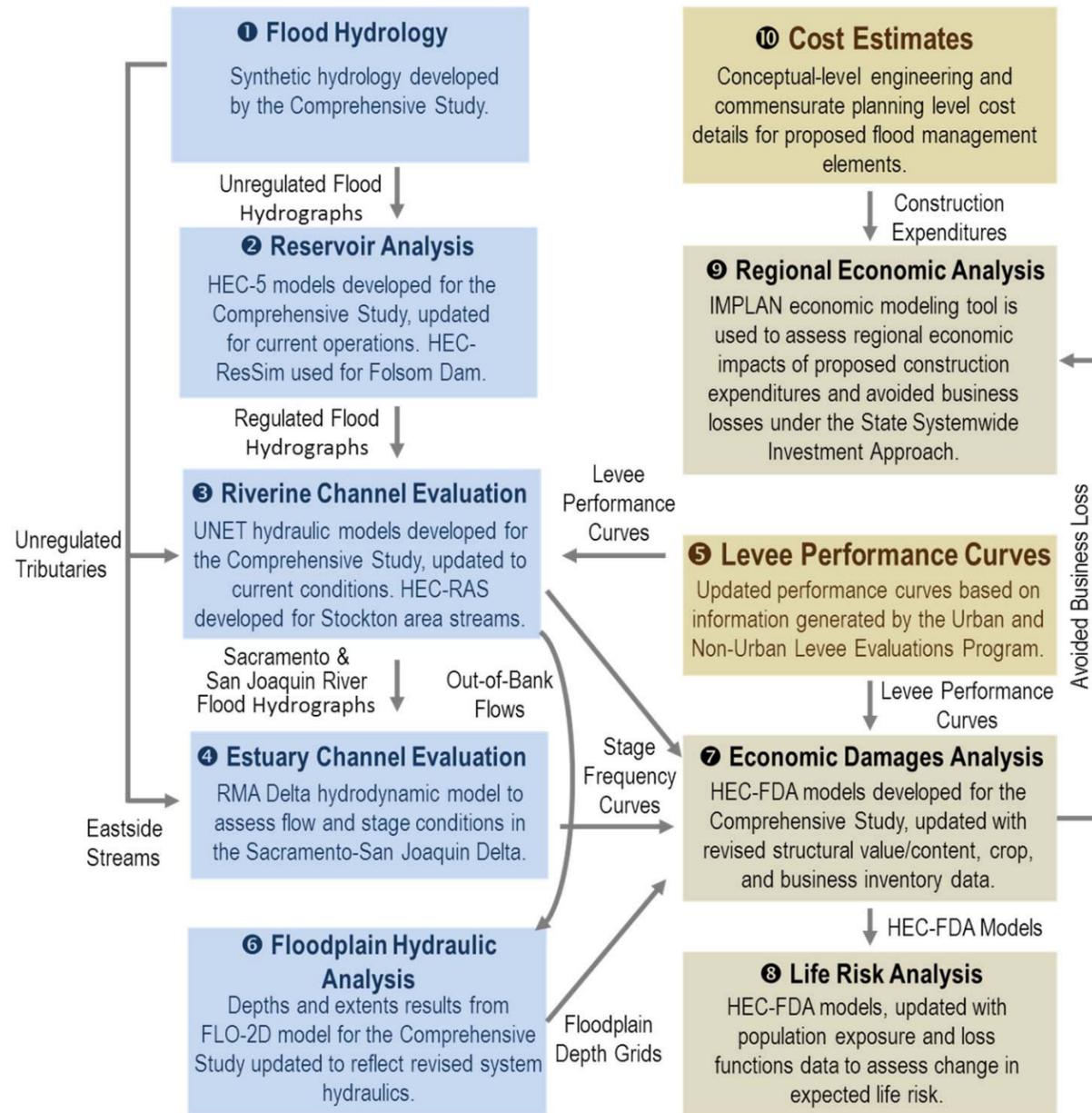


2012 Central Valley Flood Protection Plan Technical Data, Tools, and Analyses Supporting Approach Formulation and Comparison

2012 CVFPP:

Systemwide evaluations to support the 2012 CVFPP are based on existing available data and tools, with critical updates (see figure below). These data and tools are used primarily for evaluation of existing (No Project) conditions within the Central Valley flood management system, and the potential effects of preliminary approaches and the proposed State Systemwide Investment Approach.

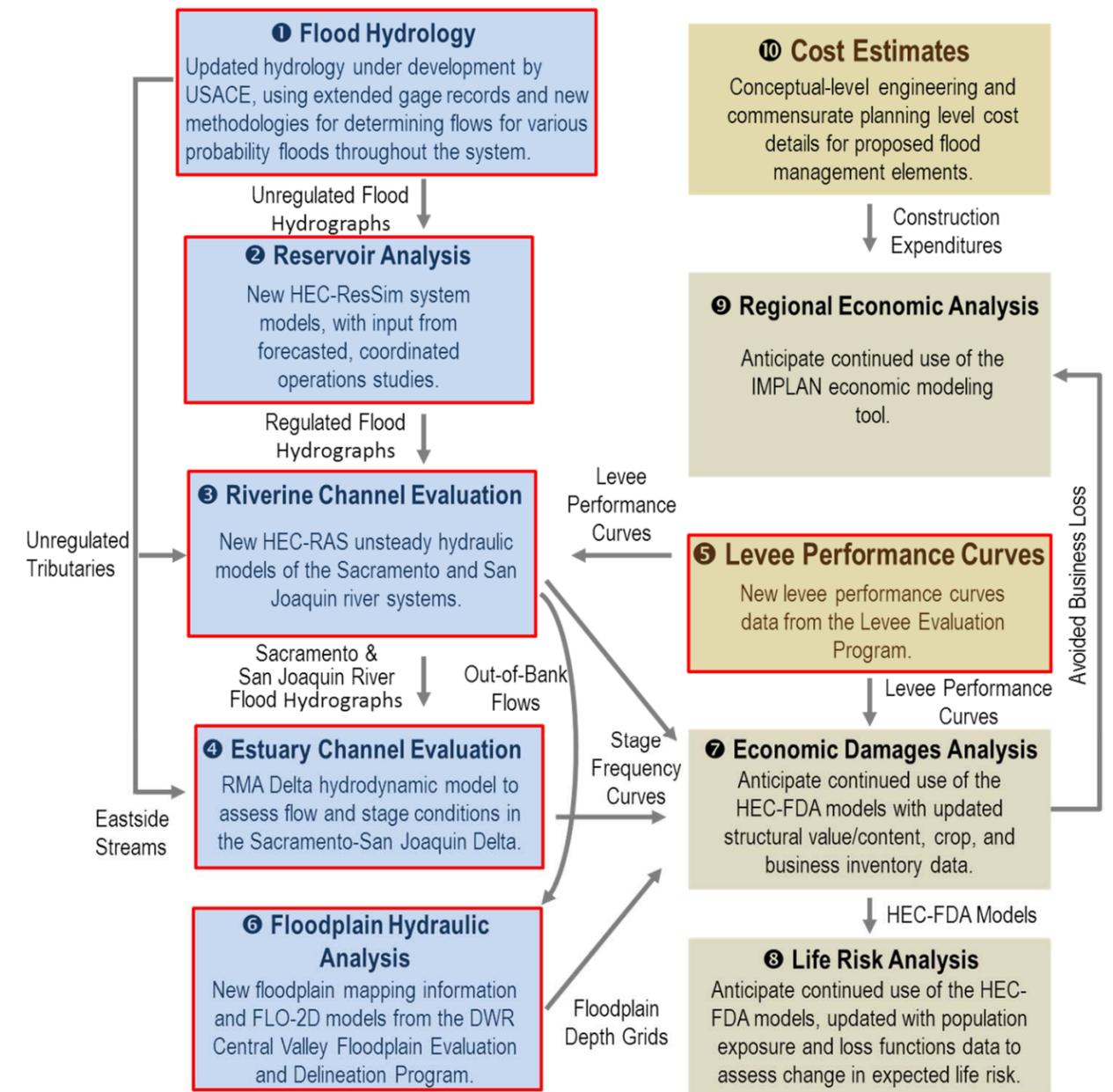


Key:

Comprehensive Study	Sacramento and San Joaquin River Basins Study Comprehensive Study (USACE, 2002)
DWR	California Department of Water Resources
HEC	USACE Hydrologic Engineering Center
HEC-FDA	HEC Flood Damage Analysis model
FLO-2D	Fullerton, Lenzotti, and O'Brien – Two Dimensional model
HEC-RAS	HEC River Analysis System model

2017 CVFPP and Beyond:

Ongoing multidisciplinary efforts are developing new data and tools for use in the 2017 CVFPP and future updates, as depicted in the figure below.

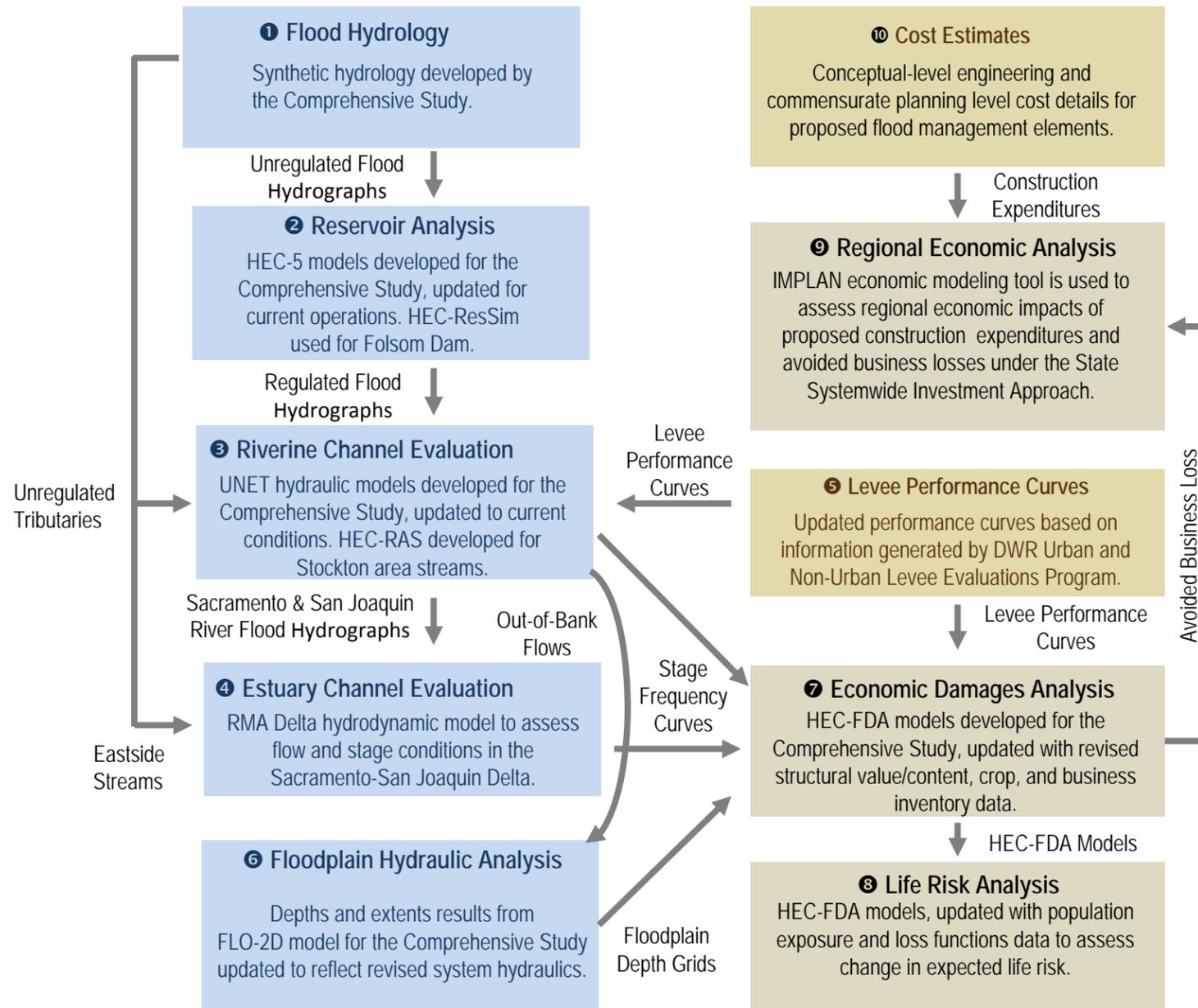


HEC-ResSim	HEC Reservoir Operations Simulation model
HEC-5	HEC Reservoir Operations Simulation model (predecessor to HEC-ResSim)
RMA	RMA Finite Element Model of Sacramento-San Joaquin Delta hydrodynamics
UNET	One-Dimensional Unsteady Network Flow model (predecessor to HEC-RAS)
USACE	U.S. Army Corps of Engineers
	Indicates use of new technical tool or data to support the 2017 CVFPP update

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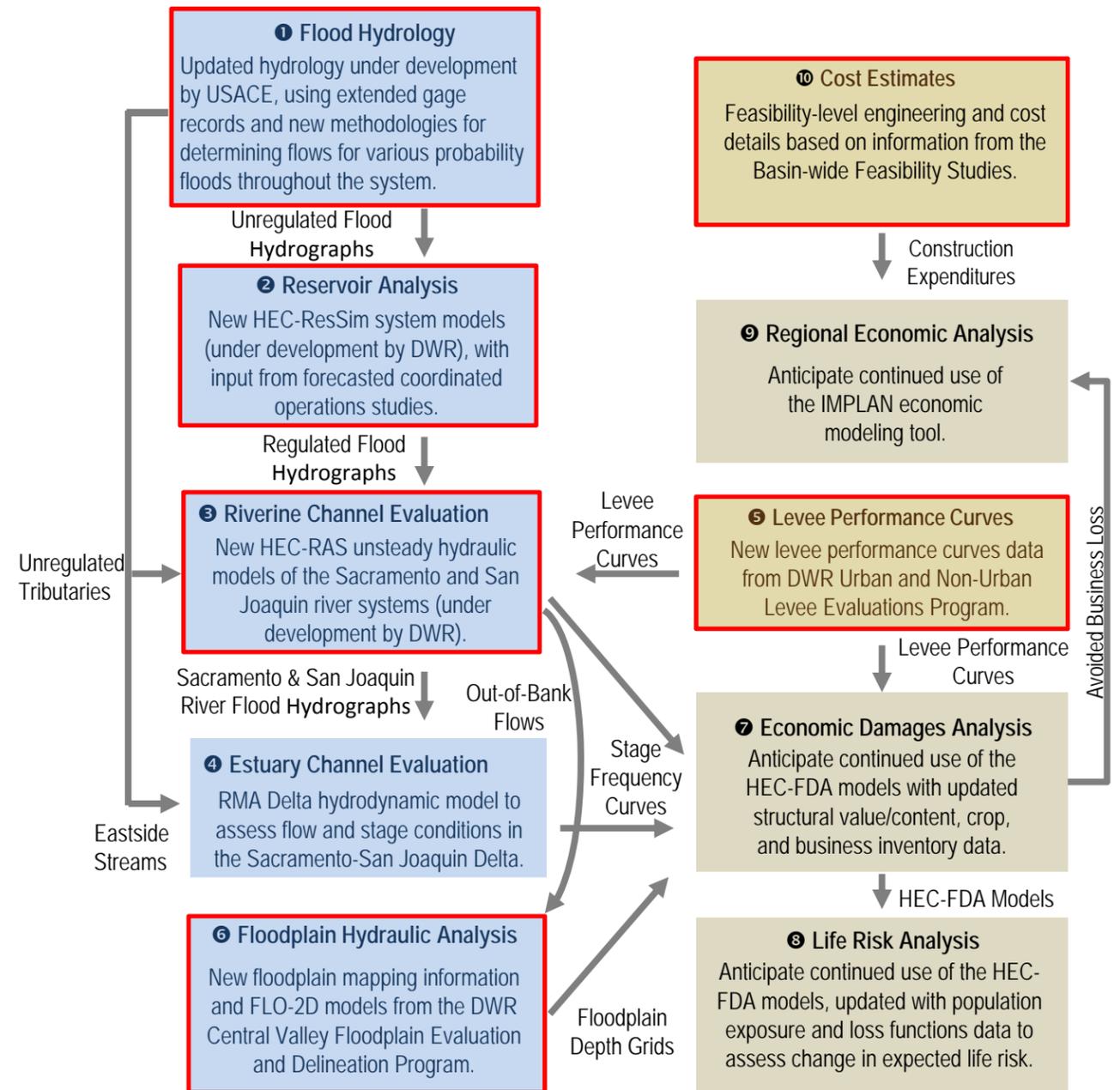


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