

the journey to restore
America's
Everglades



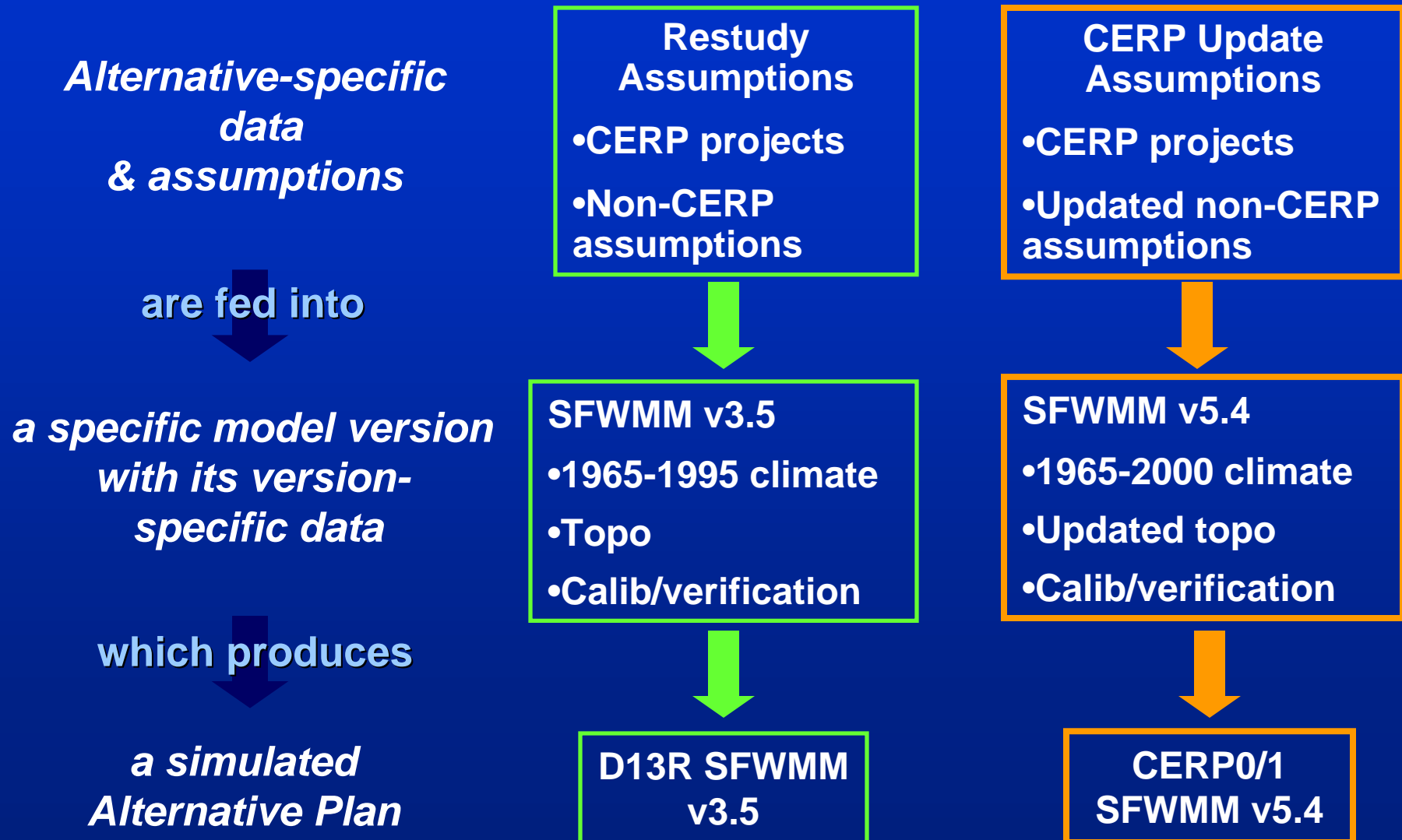
Initial CERP Update



Why the Initial CERP Update?

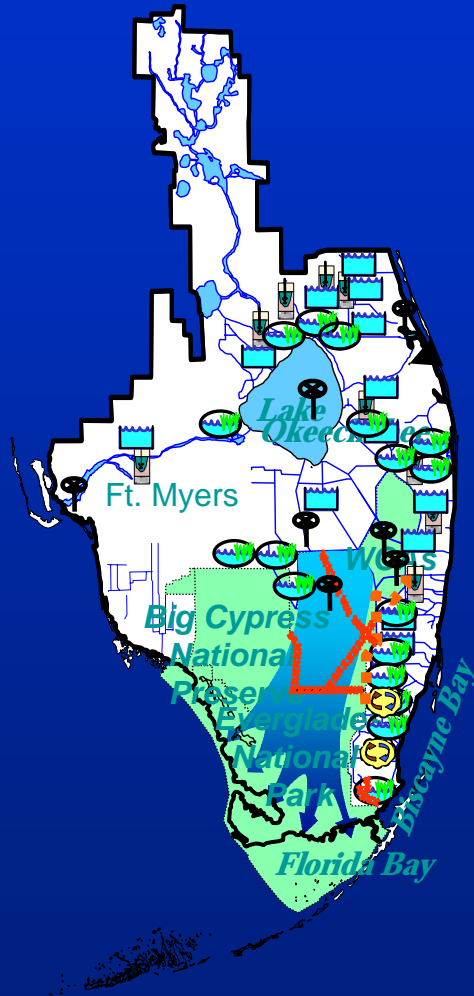
- **Implementation of CERP must be based on best science and information as envisioned in the Programmatic Regulations.**
- **New and/or updated information forms the basis for updating predictive models used for CERP implementation**
- **We use models, as representations of reality, to help us reduce uncertainty**
- **CERP was formulated using the SFWMM v3.5; this model has been updated with new information (topography, land use, public water supply and irrigation demands) and is now version 5.4**

About Modeling



Strategy for the Initial CERP Update

Yellow Book Components



Data and Model Updates

Updated 2050 “without project” assumptions:

- Revised demands and runoff in Caloosahatchee basin through improved local basin modeling
- Updated topography in EAA and remnant Everglades
- Some operational changes (eg. WSE Schedule vs. Run25)
- Updated Public Water Supply (PWS) pumpages in Lower East Coast

Improved 2x2 model:

- Simulation period extended from 31 years to 36 years
- Re-calibration of model with new data

What we have completed...

Starting Point: The Comprehensive Plan

(D13R / SFWMM v 3.5 with NSM v 4.5 and a 31 yr POR)

Restudy 1995 / 2050 Conditions and CERP 2000 / 2050 Conditions

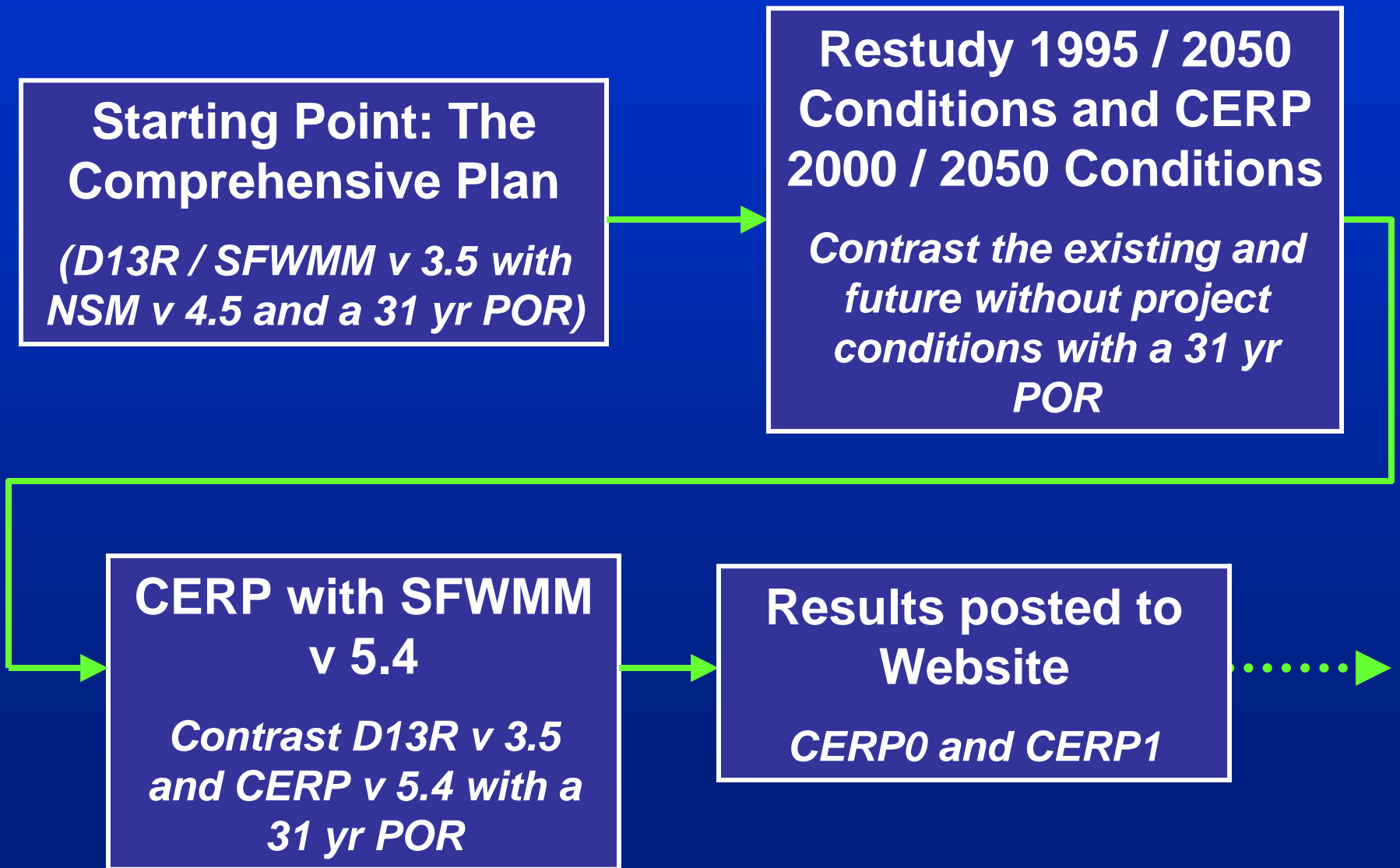
Contrast the existing and future without project conditions with a 31 yr POR

CERP with SFWMM v 5.4

Contrast D13R v 3.5 and CERP v 5.4 with a 31 yr POR

Results posted to Website

CERP0 and CERP1



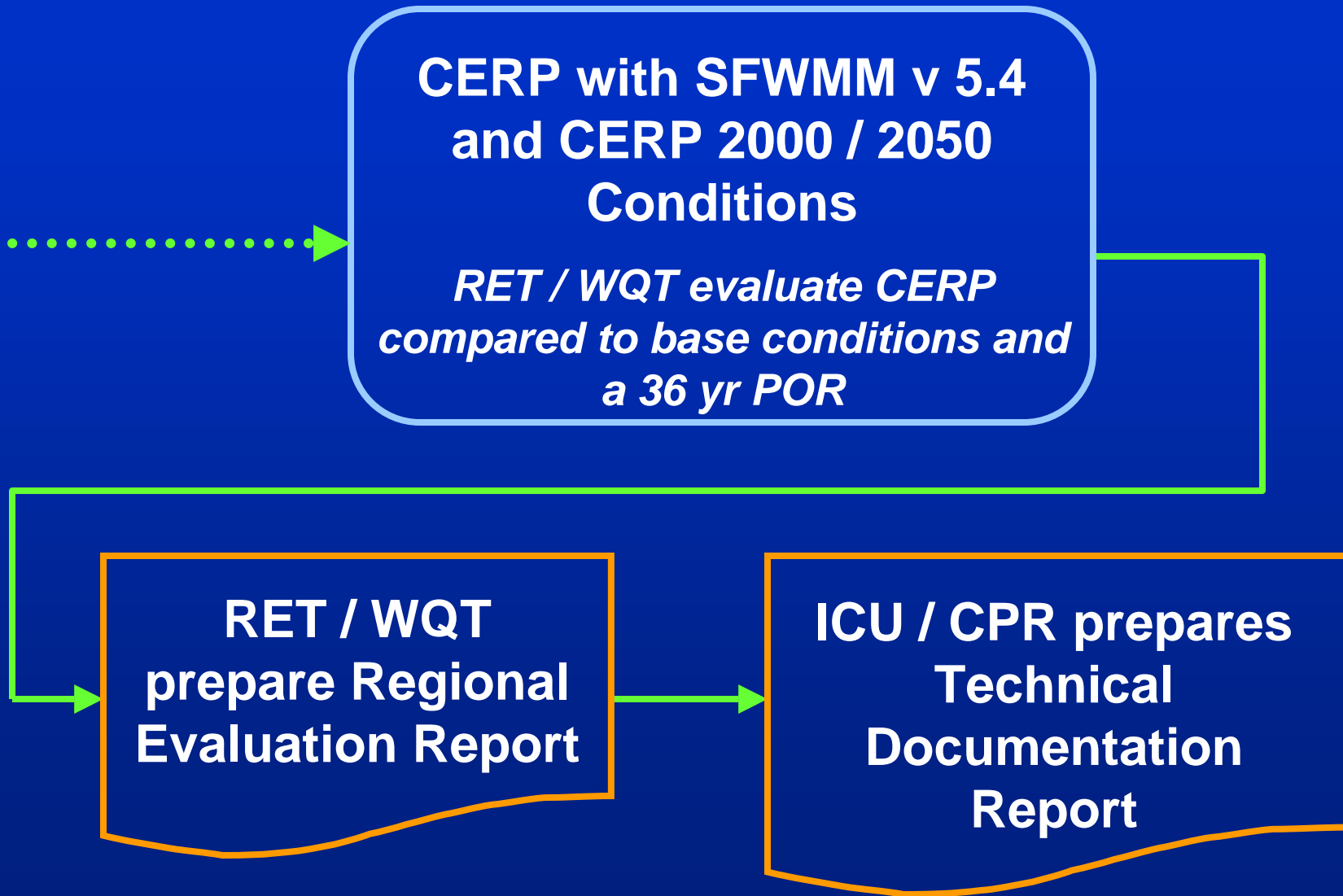
What we are working on now...

**CERP with SFWMM v 5.4
and CERP 2000 / 2050
Conditions**

*RET / WQT evaluate CERP
compared to base conditions and
a 36 yr POR*

**RET / WQT
prepare Regional
Evaluation Report**

**ICU / CPR prepares
Technical
Documentation
Report**



What we have found...

- The RET / WQT evaluation of the CERP simulation found areas of concern
- Need to refine CERP simulation to better adjust operations for new performance measures and targets
- Need to create a “CERP Special Analysis Team” based on Restudy concept of AET/ADT and “power modeling”
- This is NOT a reformulation of the CERP

Proposed next steps...

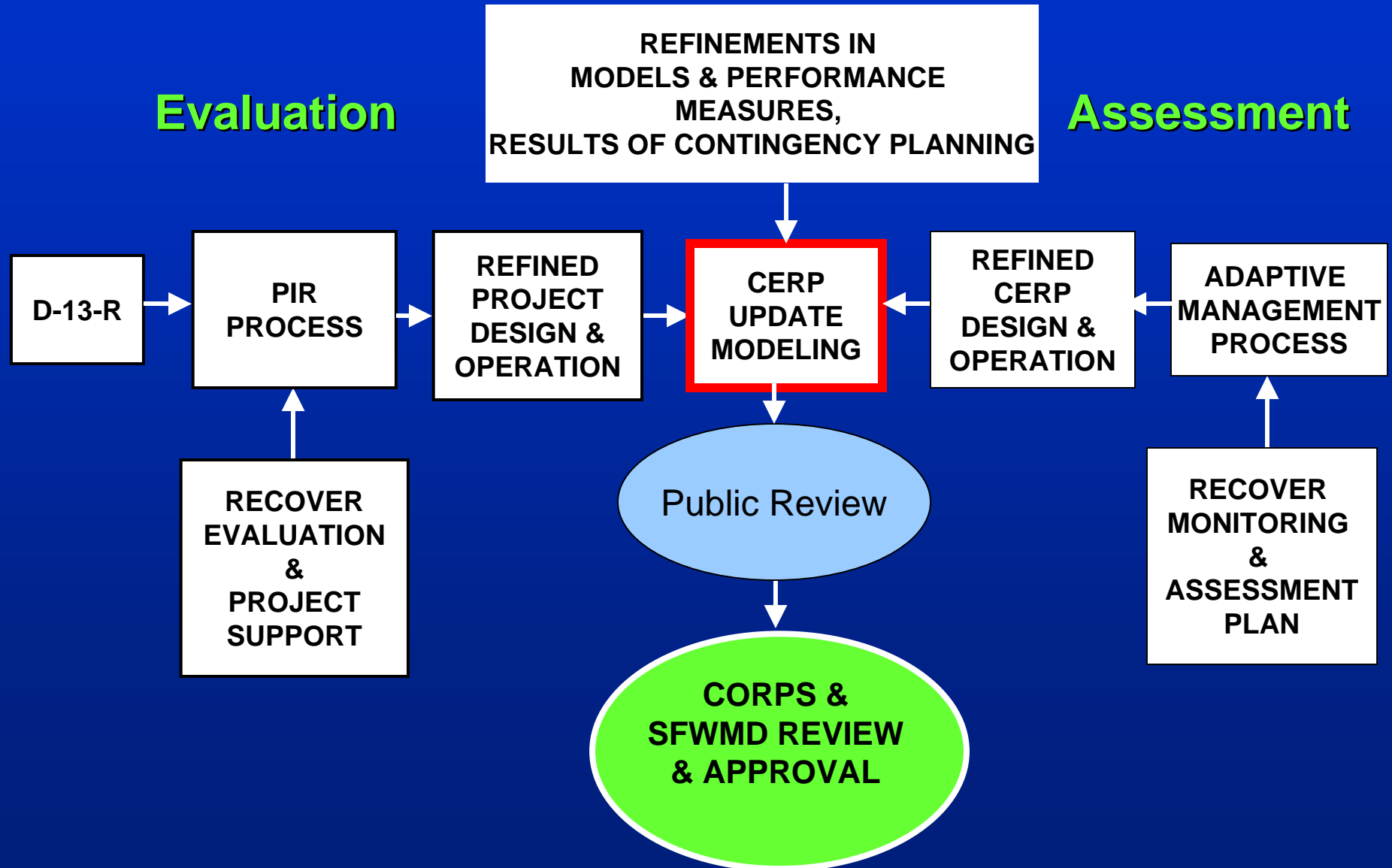
- 1. Establish Special Analysis Team, made up of RET / WQT tri-chairs, Restudy designers and IMC modelers**
 - Define boundaries of refinement effort
 - Identify specific areas for refinement team
 - CERP simulation is refined by designers and modelers
- 2. IMC remodels CERP simulation**
 - Model run is reviewed by team
 - CERP simulation is refined and rerun (if needed)
 - Model review is performed by team (if needed)
- 3. CERP simulation is provided to stakeholders / public for review**
- 4. RET/WQT complete regional evaluation report**
- 5. ICU / CPR completes Technical Documentation Report**

Model Update Process

Planning & Integration

Evaluation

Assessment



Questions?

