

WMDT Charge

- 1 Evaluate a range of water Management tools
- 2 Develop a framework for the EWA and for a Stage 1 Water Management Strategy as part of the broader WMP.



Framework Definition

- An investment strategy for assets to be applied in Stage 1
- The sharing and operating principles that govern these assets.
- The assurances needed to allow reasonable support of the assets.



Early Stage 1 Assets

Games 4 & 5

- **South Delta Program - 8,500 cfs, Temporary barriers in.**
- **JPOD**
- **E/I, In-Delta AFRP Variances**
- **Ground Water (400 TAF; 40 TAF/Mo. in-out)**
- **Shasta Enlargement (50 TAF)**
- **Water Purchase (NOD, SOD, spot market) -- \$40m/yr.**
- **San Luis Storage Borrowing**
- **Unused System Capacities**
- **Demand Shifting (100 TAF/yr)**



Late Stage 1 Assets

Game 2

- **Expanded Banks - 10,300 cfs**
- **JPOD**
- **E/I, In-Delta AFRP Variances**
- **Ground Water (600 TAF; 60 TAF/Mo. in-out)**
- **Shasta Enlargement (50 TAF)**
- **Webb Tract Storage (120 TAF, 2,000 cfs. in-out)**
- **Bacon+ Storage/Connected (200 TAF, 4,000 cfs in; 2,000 cfs. out)**
- **ET Reductions on Delta Islands (60TAF / year)**
- **Water Purchase (NOD, SOD, spot market) -- \$30m/yr.**
- **San Luis Storage Borrowing**
- **Unused System Capacities**
- **Demand Shifting (100 TAF/yr)**



Essential EWA Assets

- A monetary account for water purchases
 - \$40M to \$50M at start of Stage 1- \$20M to \$30M at end of Stage 1
- Ability to purchase and transfer water at a reasonable cost and at needed times
 - Up to 100 TAF Sacramento River System
 - Up to 150 TAF San Joaquin River System
 - Up to 250 TAF in Export Areas
- Ability to Vary Standards
- Adequately screened project water diversion intakes in south Delta
- JPOD with no State and federal sublimits



Essential EWA Assets

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- Access to storage upstream and south of Delta and Delta Islands
 - Utilize available storage in existing reservoirs; **San Luis is key** with other SWP and CVP storage.
 - Late in Stage 1 need storage closer to export pumps for flexibility. Wedd Tract and Bacon/others Islands with a direct connection to bacon and CCF
- Increased permitted export capacity
 - Increased Banks 8,500 cfs pumping window In early Stage 1.
 - Expand Banks permitted capacity to 10,300 cfs by end of Stage 1
- Access groundwater
 - At least 600 TAF in SOD area.
 - Facilities to increase recharge and extraction rates



What Decisions are Needed?

A partial list:

1. Default operational rules
2. Sharing future export/storage capacity increases
3. Sharing of pumping above default rules
4. Environmental priorities for existing facilities
5. Decision making authority
6. Regulatory certainty
7. Who pays
8. Carryover of EWA from year to year
9. Other uses of ecosystem water
10. Initial funding and amount and type of EWA

