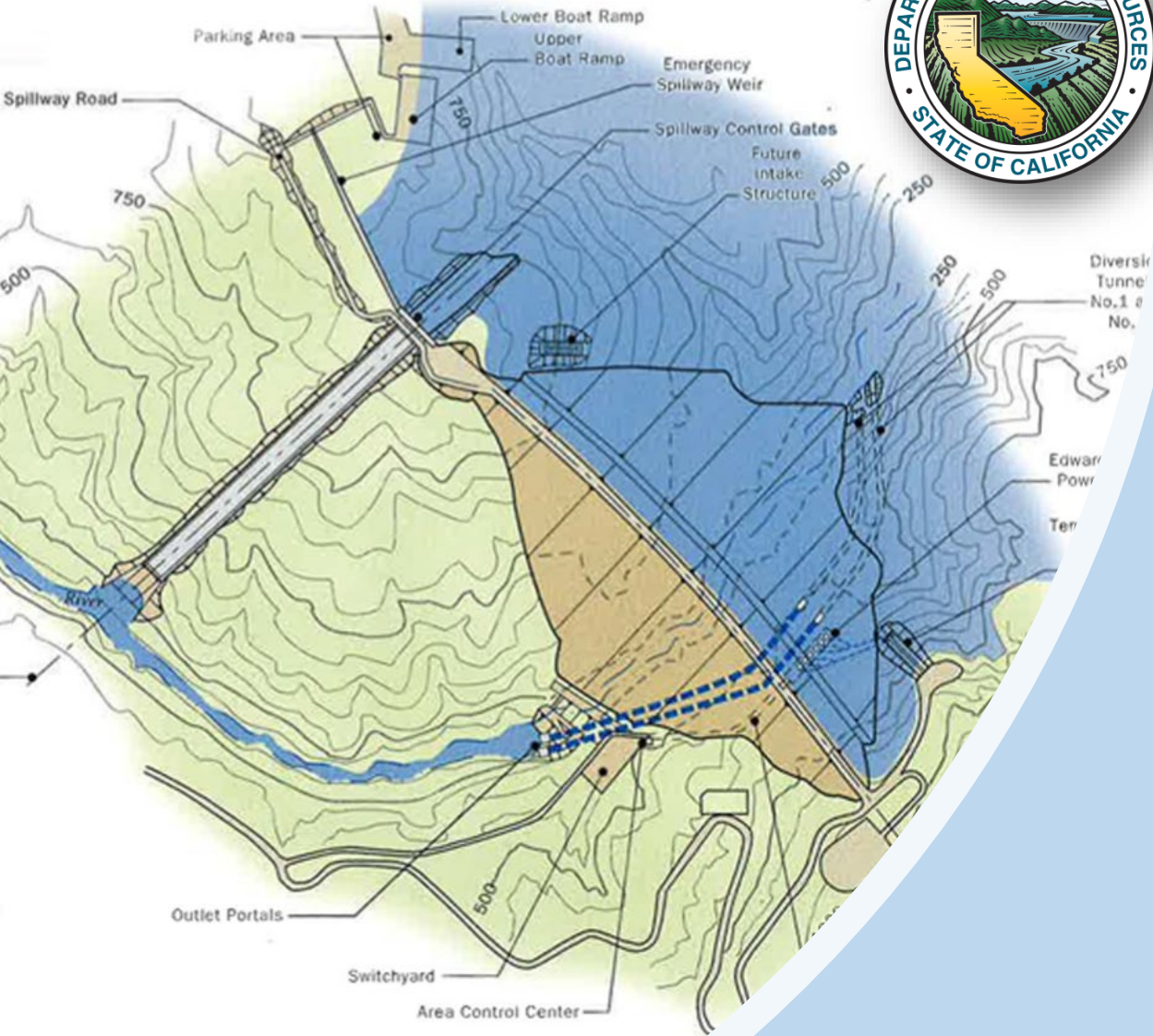




STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
**OROVILLE DAM SAFETY
COMPREHENSIVE NEEDS ASSESSMENT**



Measure Development & Screening

Oroville CNA Ad Hoc Committee
August 9, 2019



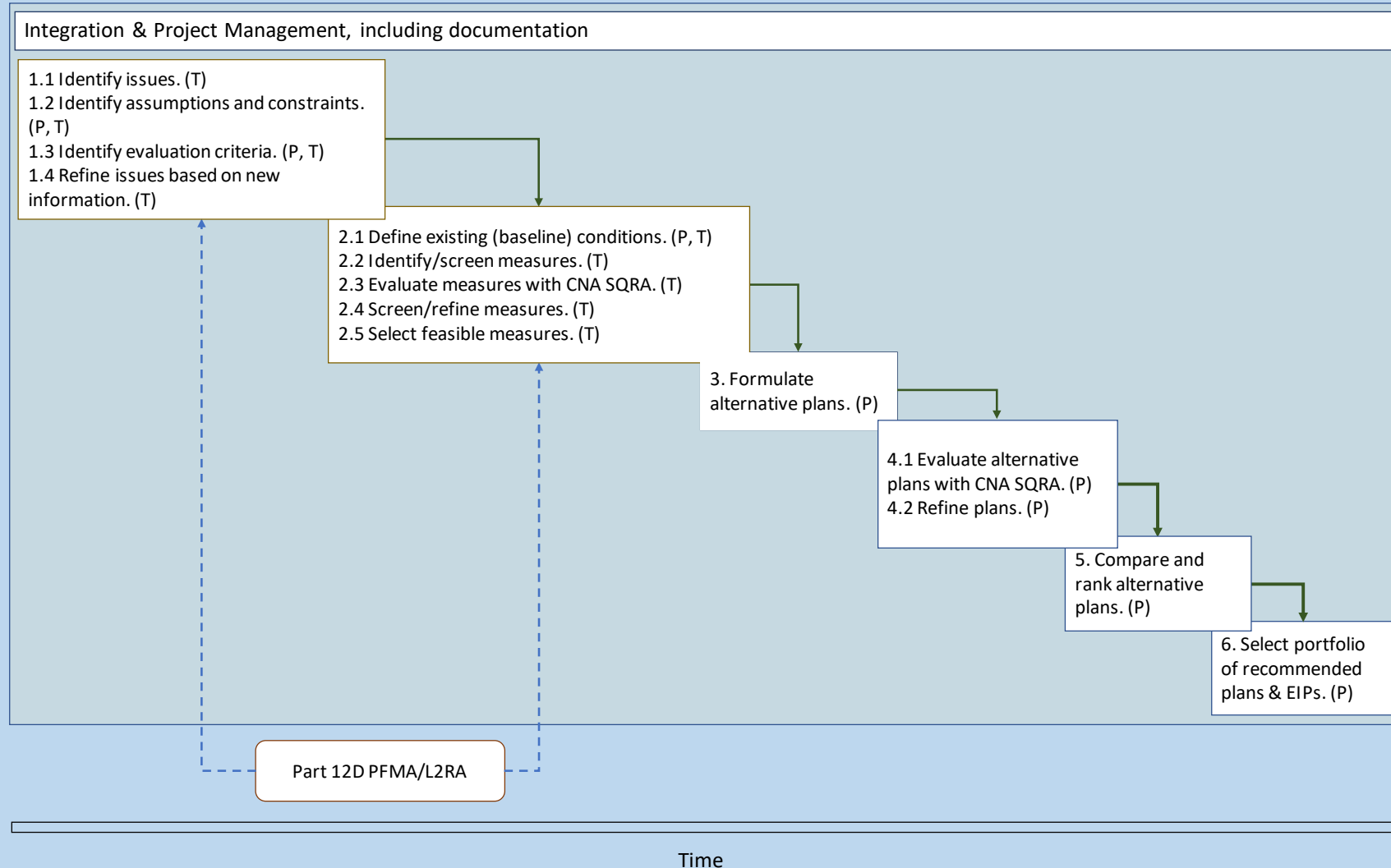


CNA Planning Study Steps

1. Identify objectives, constraints, opportunities, and needs.
2. Identify measures to address those needs.
3. Combine measures to formulate alternative plans.
4. Evaluate alternative plans with agreed-upon metrics.
5. Compare and rank alternative plans.
6. Recommend alternative plans for consideration.

Where We Are in the 6 Steps

DWR Oroville Comprehensive Needs Assessment





Identify PFM with risk management opportunities.

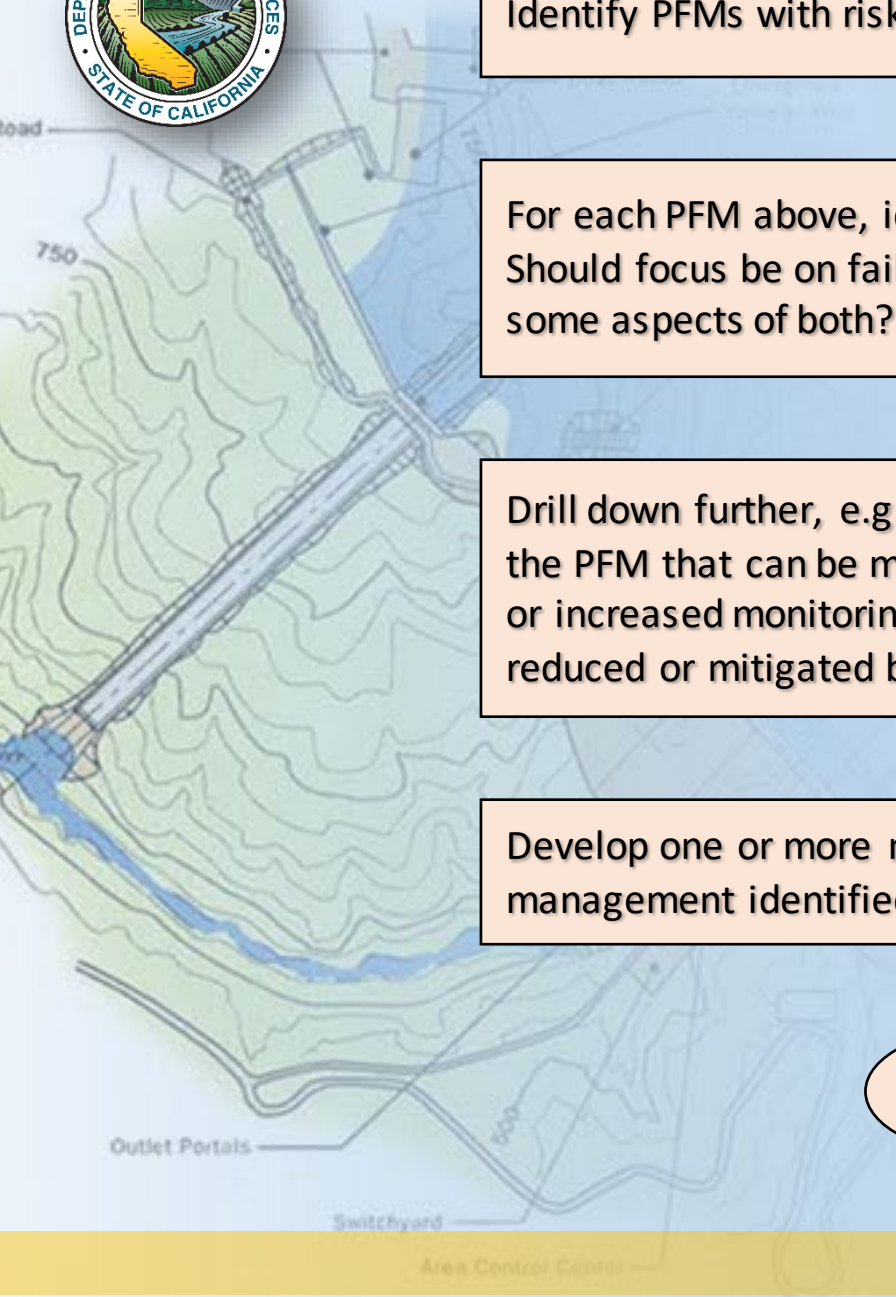
For each PFM above, identify how risk can be managed. Should focus be on failure likelihood, consequence, or some aspects of both?

Drill down further, e.g., identify components (nodes) of the PFM that can be managed by a structural measure or increased monitoring; or consequences that can be reduced or mitigated by a nonstructural measure.

Develop one or more measures that achieve risk management identified above.

(next)

Measure Development and Screening Process





Measure Development and Screening Process

(previous)

Screen the measure(s) with design considerations and review with respect to other fatal flaws.

Assess risk reduction attributable to each measure.

Enhance the measure(s) as appropriate, e.g., to take advantage of other risk reduction opportunities, and assess further incremental risk reduction.

Carry measures forward to plan formulation.



Questions?