

Agenda Item 6
Progress Report
Staff Proposal for
Implementing Water Use
Measurement

Progress Report

Water Use Measurement

- Overview
- Rationale for Each Action
- Cost Estimate
- Outstanding Issues
- Next Steps

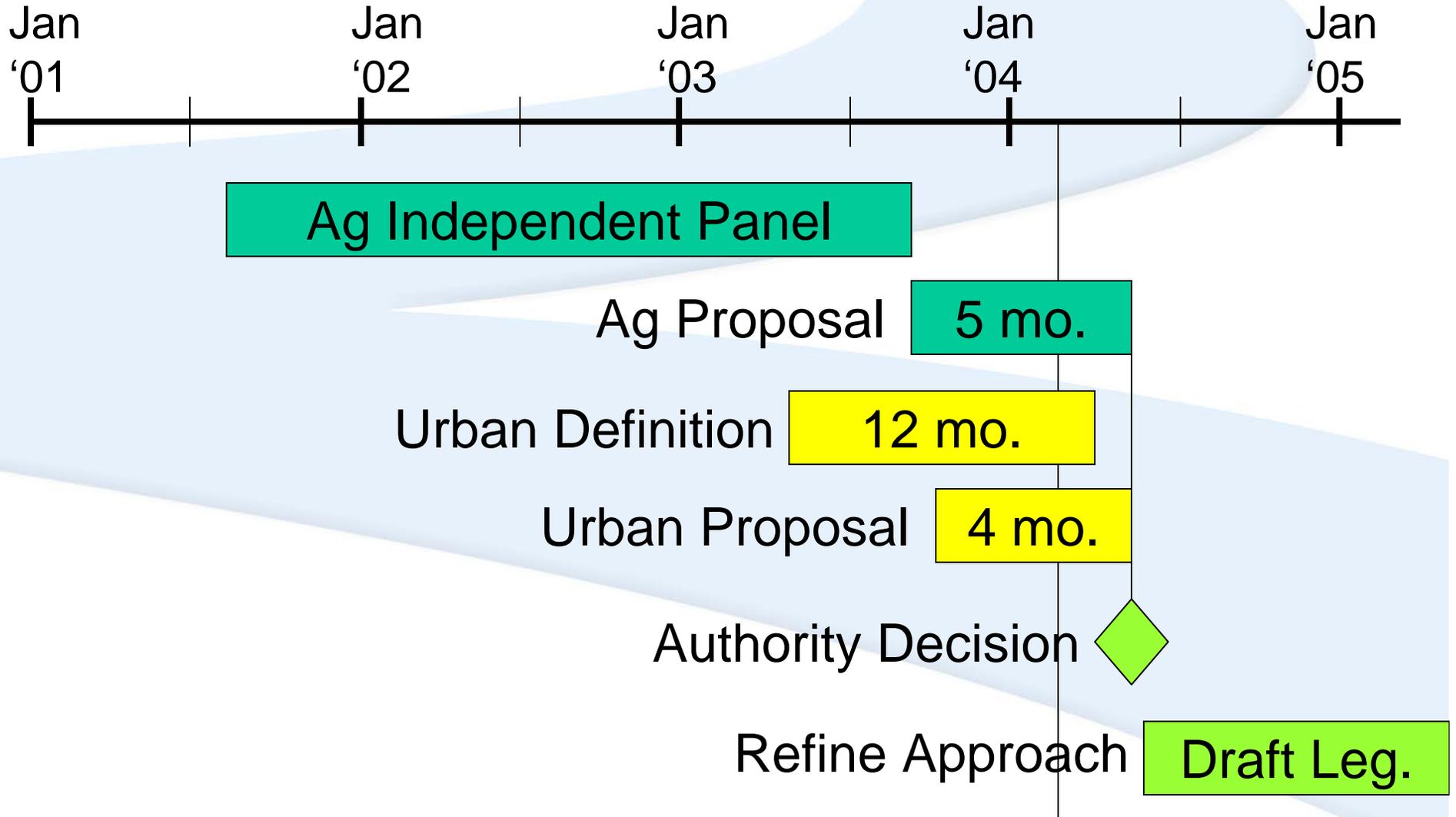
Overview - CALFED ROD

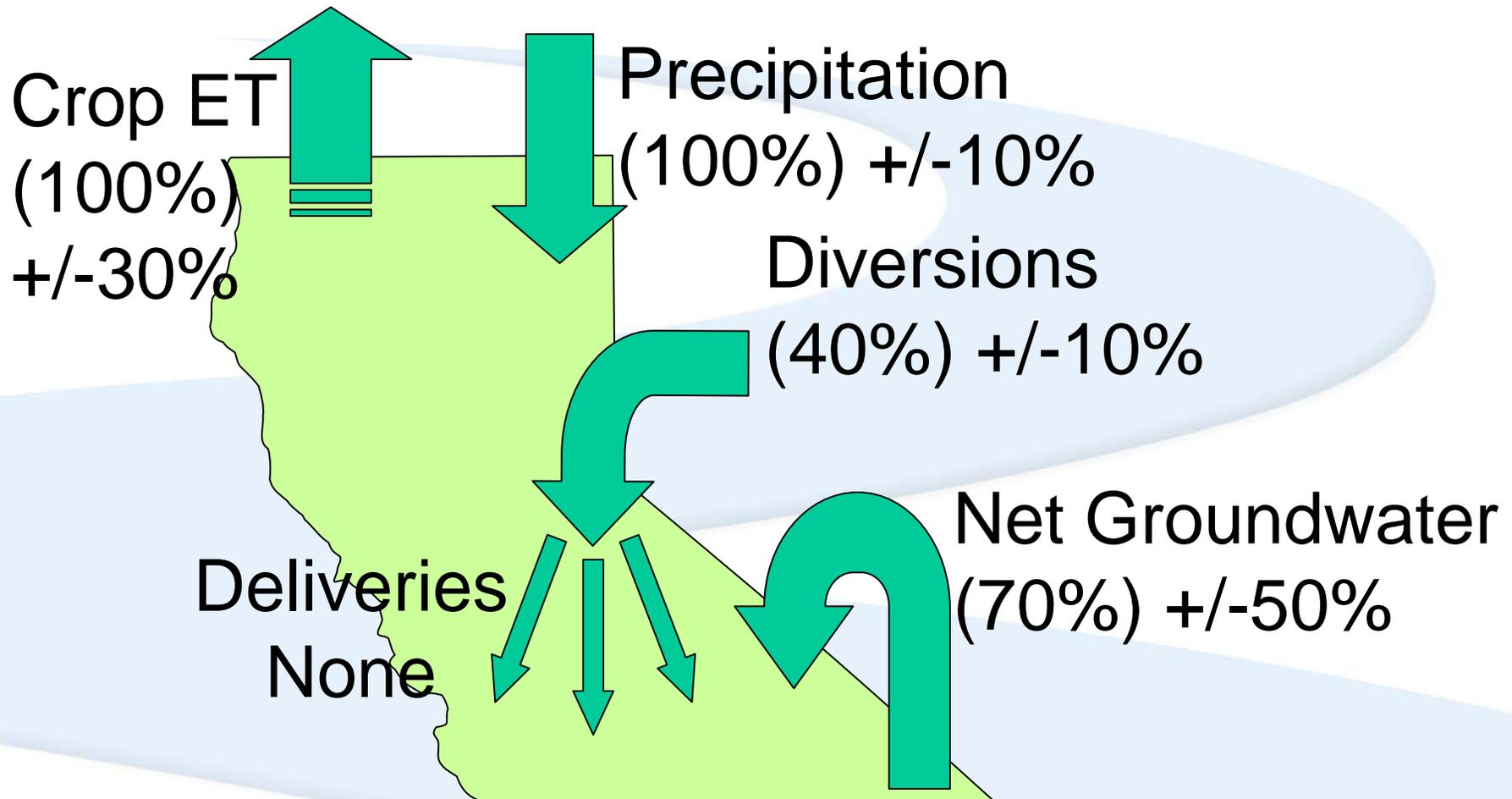
CALFED Record of
Decision:

- 1) Define appropriate measurement for Ag and Urban (completed)
- 2) Work with legislature to implement

- 1.5) Staff Draft (to Authority in April):
- Admin. actions
 - Budget actions
 - Legislation

Overview - Timeline





**Need Better
Demand Data**

Implications

- Slows storage decisions
- Investment uncertainty



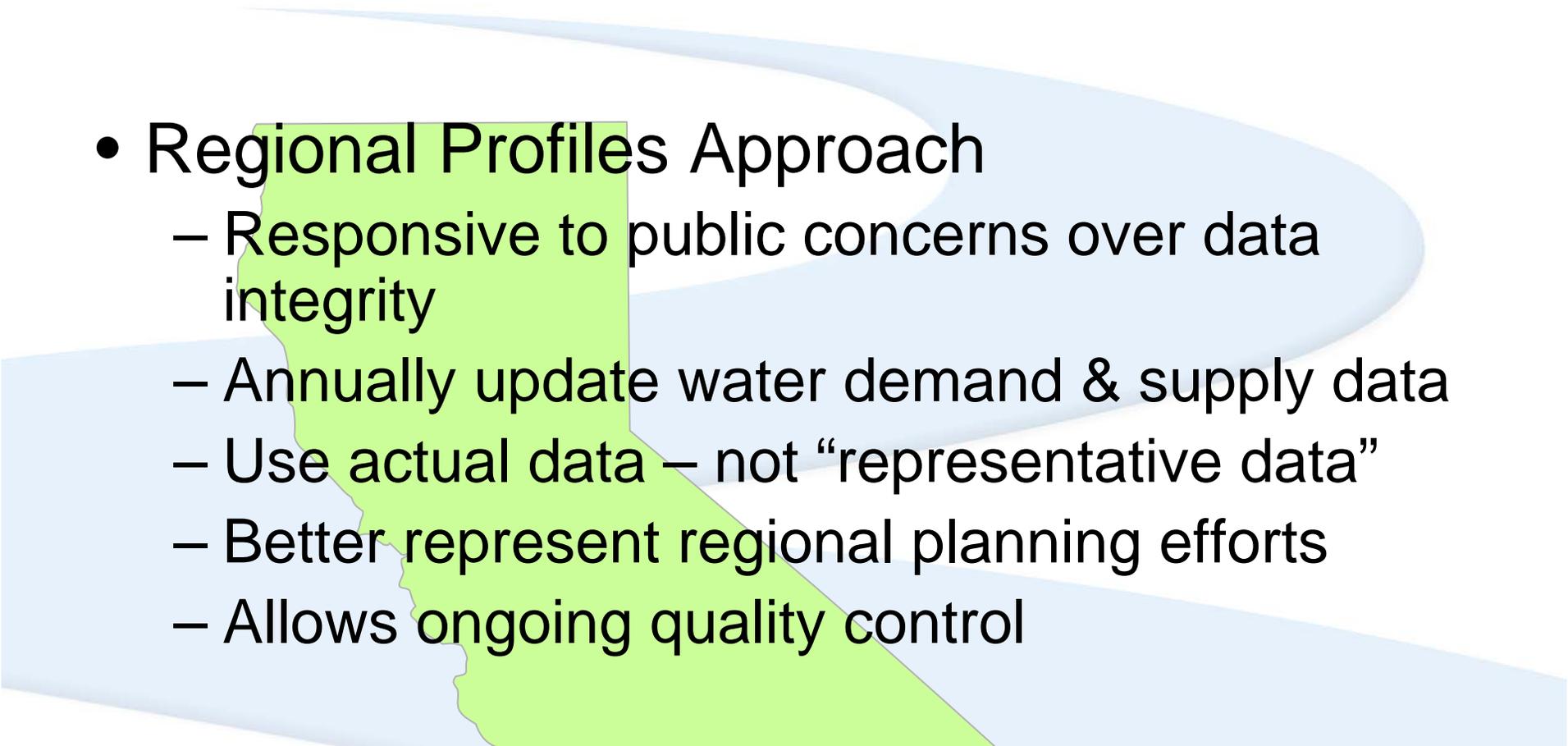
Are losses on farm
or in district's
distribution system?



**Water
Conservation
Incentives**

Implications

-Can't prioritize incentives



- **Regional Profiles Approach**

- Responsive to public concerns over data integrity
- Annually update water demand & supply data
- Use actual data – not “representative data”
- Better represent regional planning efforts
- Allows ongoing quality control

Support B-160
Regional
Profiles

Implications

- Reduce disputes
- Use “real data”
- Avoid “batch analysis”

Administer Water Rights



Data on Compliance
(20%) +/-20%

Data on Basin Allocation
(20%) +/-20%

Implications

- Leads to disputes
- Slows new permitting

Recipe for Implementable Package

- **Balanced**
 - Significant changes in Ag & Urban
- **Fiscally realistic**
 - Approach attempts to keep costs down
- **Informed by Stakeholders**
 - Extensive process
 - Ag, Urban, Environmental viewpoints

Overview - Proposed Actions

Action	New for Ag	New for Urban
1) New reporting system	Data protocols, database, fewer reports	
2) Measure/report Sources	Meas. for 20% reporting for all L	Nothing new
3) Measure/report Deliveries	No new meas reporting for all L	Meters for 7%, no new reports L
4) Crop ET & Groundwater	ET: satellites	N/A
	Net Groundwater Use	
5) Science	Focused research & adaptive management	

Draft Cost Estimate

Action	Ag (\$M/yr)		Urban (\$M/yr)	
	Local	State	Local	State
1) Report system	0	0.6	0	0.6
2) Meas/report Sources	0.4	0	0	0
3) Meas/report Deliveries	0.7	0	42.7 (C. Valley)	0
4) ET & GW	0	3.0	0	0.5
5) Science	0	1.8	0	1.8
Total	1.1	5.3	42.7	2.8

Draft Cost Estimate

Action	Ag (\$M/yr)		Urban (\$M/yr)	
	Local	State	Local	State
1) Report system	0	0.6	0	0.6
2) Meas/report Sources	0.4	0	\$62/yr per home	
3) Meas/report Deliveries	0.7	0	42.7 (C. Valley)	0
4) ET & GW	0	\$7/yr per field		0.5
5) Science	0	\$47/yr per farm		1.8
Total	1.1	5.3	42.7	2.8

Public Involvement Themes

- ***Sounds like big brother*** – Modest local changes; State “getting own house in order”
- ***Moving too fast*** – More refinements after Authority decision in April
- ***Not moving ag far enough*** – Reporting represents significant change; Consistent with USBR requirements
- ***Not strong enough*** – Urban cost effectiveness is consistent with “Beneficiary Pays”

Estimated Costs & Benefits

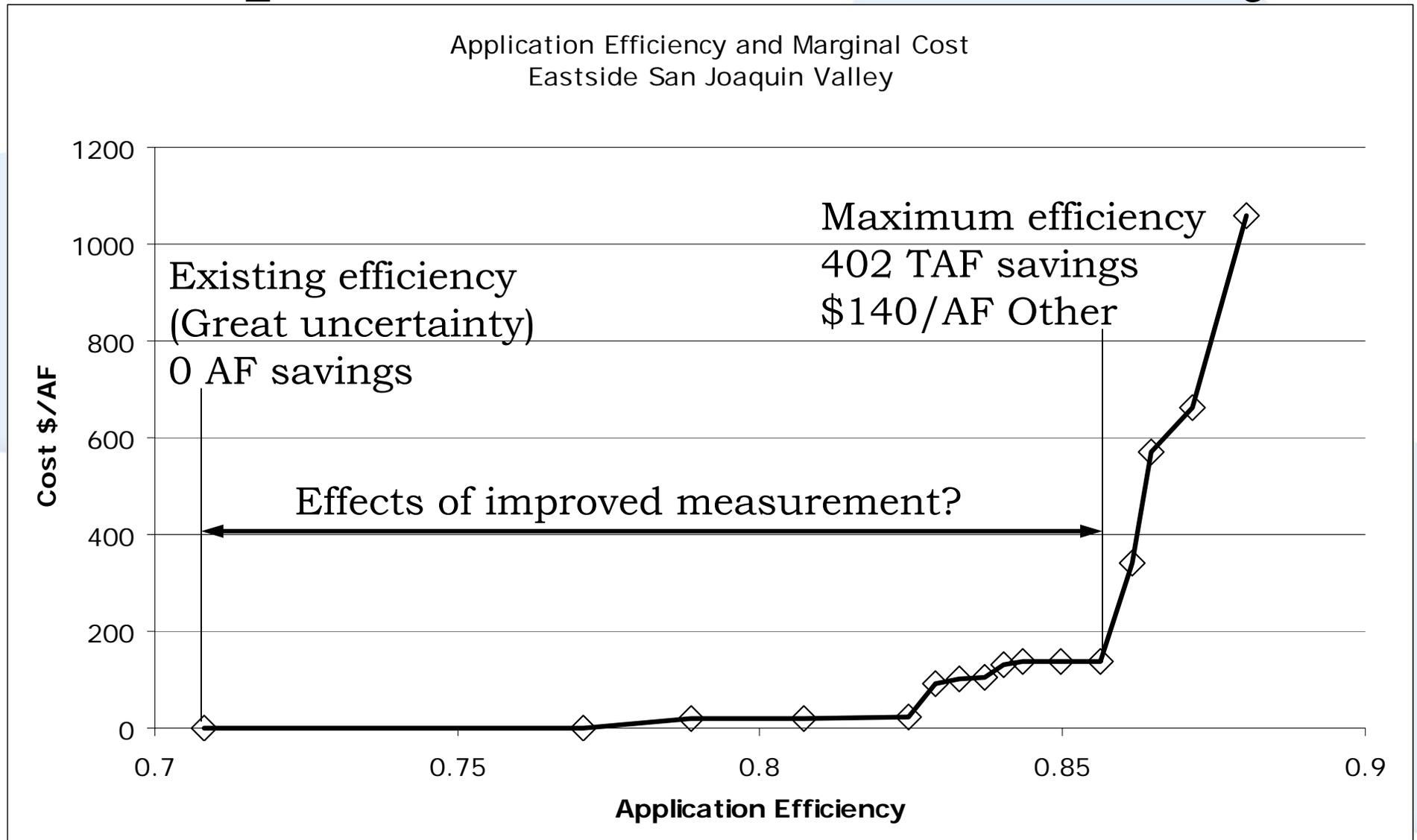
Urban Meter Retrofit

Urban Measurement – Central Valley

- Application Reduction: 20-30%
- Benefits:
 - 120 to 180 TAF reduced application (Avg 150 TAF)
 - Minor “real water” savings
- Costs: \$22 to \$64M/yr (Avg \$43M)
- Unit Cost: \$175 to 525/AF (Avg \$350/AF)

At the tap

Estimated Costs & Benefits Improved Turnout Accuracy

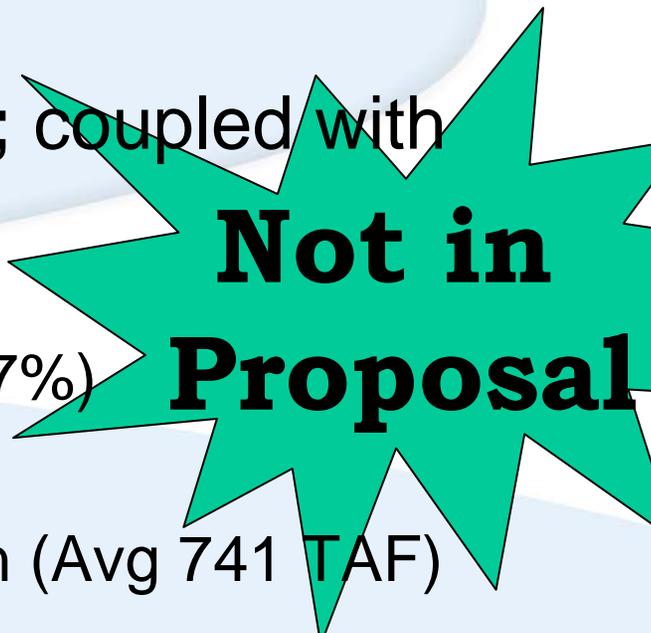


Estimated Costs & Benefits

Improved Turnout Accuracy

Agricultural Measurement

- Application Reduction (at **FARM**; coupled with other programs)
 - Sac Valley: 0-9% (Avg 5%)
 - E. Side San Joaquin: 0-14% (Avg 7%)
- Benefits:
 - 0 to 1,482 TAF reduced application (Avg 741 TAF)
 - Minor “real water” savings
- Costs: \$22 to \$84 M/yr (Avg \$53M/yr)
 - (\$22M is measurement; \$0 to \$62M is other)
- Unit Cost: \$29/AF to \$56/AF (Avg \$43/AF)



**Not in
Proposal**

At the river

Next Steps

Public Review of Staff Proposal

- Public Workshops in February
- WUE Subcommittee in February
- BDPAC in March
- Authority in April: Is the staff proposal ready for executive & legislative refinement?

Refine Approach (after Authority in April)

- Work with Executive & Legislative staff

Final Points

Most of this package is broadly supported

Proposed actions need to remain as a package

BDPAC Action

- Package represents appropriate level of staff work (more technical or ad hoc stakeholder work is unnecessary)
- Look to WUE Subcommittee to review & comment on refined costs & benefits
- Recommend that Authority deliberate on this topic at April meeting
 - Staff work is complete: begin working with Administration and Legislature to refine and implement
 - Periodic status reports to BDPAC and Authority