Conceptual Project Prioritization Framework
for the
Greater Los Angeles County IRWMP

March 14, 2007

Key Issues

- Identify the Best Projects, or the
    Best Projects for a Grant Application?
- Review Every Project or a Subset?
- Project Data Limitations
    - Short vs. Long Form, Excel Spreadsheet
    - Reliability?
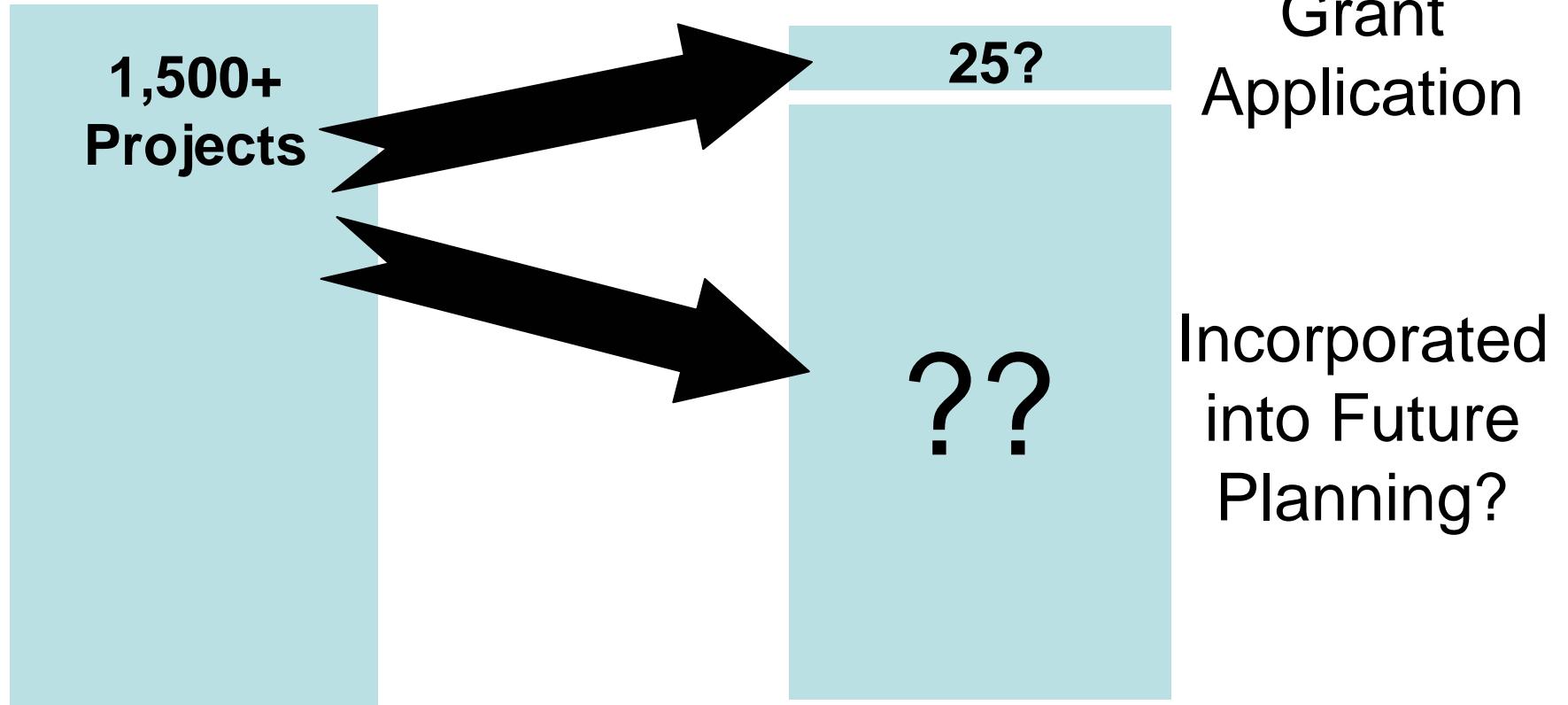- Respond to Local Priorities?
- *Others?*

IRWMP Objectives and Targets

Table 3-1. Greater Los Angeles County Region Objectives and Planning Targets for Year 2026 - To Promote an Integrated, Multi-Benefit, Inter-Regional Approach to Regional Water Management and Planning

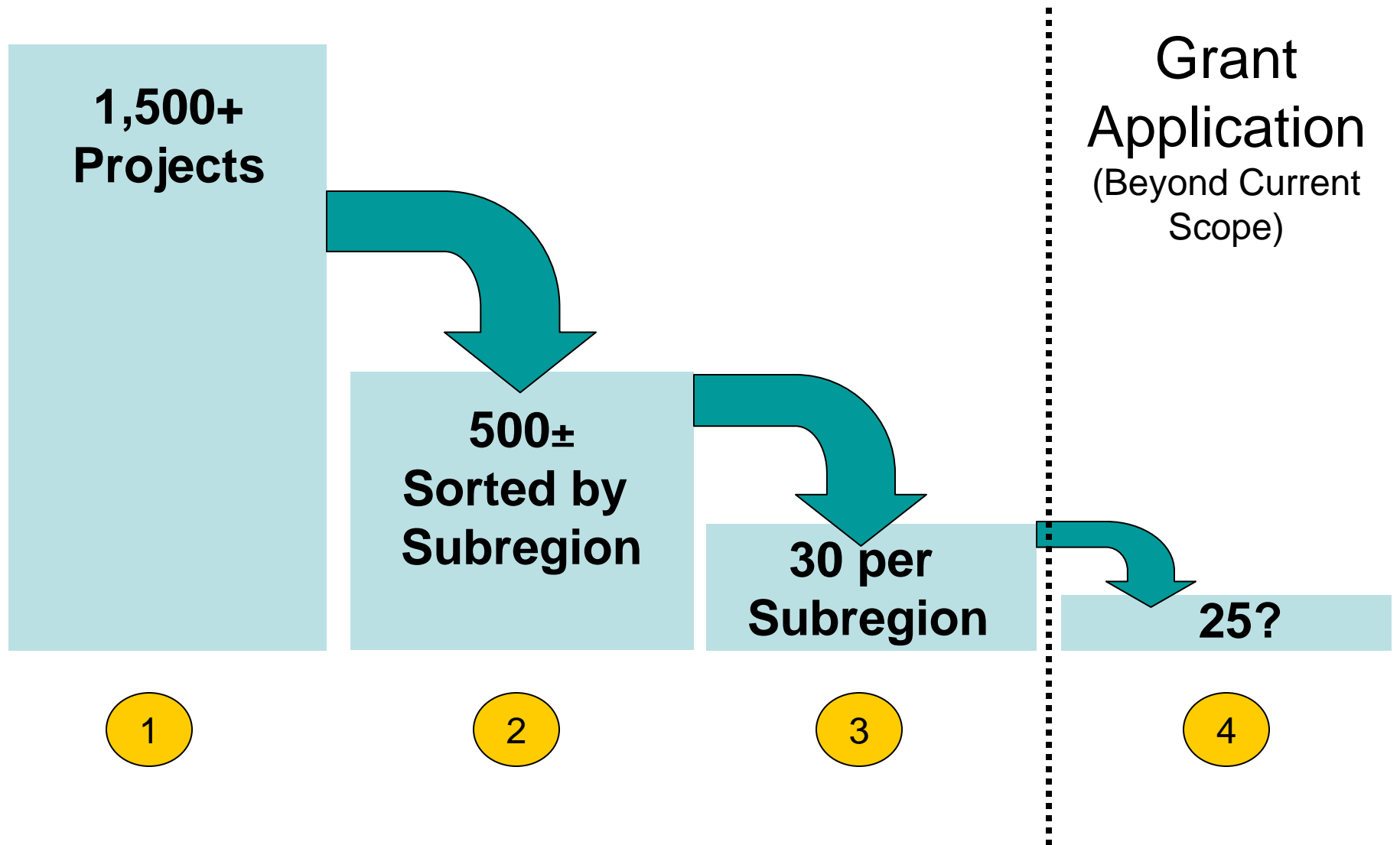| Objectives	Planning Targets
Improve Water Supply	
Optimize local water resources to reduce the Region's reliance on imported water.	Increase water supply reliability and quality by providing 800,000 acre-feet/year of additional water supply and demand reduction through conservation.
	Included within the 800,000 acre-feet/year noted above, reuse or infiltrate 130,000 acre-feet/year of reclaimed water (110 percent increase over existing reclaimed water use).
Improve Water Quality	
Comply with water quality regulations (including TMDLs) by improving the quality of urban runoff, stormwater, and wastewater.	Dry Weather: Reduce and reuse 150,000 acre-feet/year (~40 percent), and capture and treat, an additional 170,000 acre-feet/year (~50 percent); (~90 percent of estimated total dry weather flow).
	Wet Weather: Reduce and reuse 220,000 acre-feet/year of stormwater runoff from developed areas (~40 percent), and capture and treat an additional 270,000 acre-feet/year (~50 percent); (~90 percent of estimated total wet weather flow).
Protect and improve groundwater and drinking water quality.	Treat 91,000 acre-feet/year of contaminated groundwater (1.82M acre-feet in 20 years)
Enhance Habitat	
Protect, restore, and enhance natural processes and habitats.	Restore 100+ linear miles of functional riparian habitat and associated buffer habitat.
	Restore 1,400 acres of functional wetland habitat.
Enhance Open Space and Recreation	
Increase watershed friendly recreational space for all communities.	Develop 30,000 acres of recreational open space, focused on under-served communities.
Sustain Infrastructure for Local Communities	
Maintain and enhance public infrastructure related to flood protection, water resources and water quality.	Repair and/or replace 40 percent of the aging infrastructure.

Possible Prioritization Factors

- Offer Multiple Benefits
- Consistent with Objectives
- Contribute to Planning Targets
- Respond to Local Priorities
- Competitive for Implementation Funding
  - Meet unidentified DWR "Standards"

Task and Dilemma

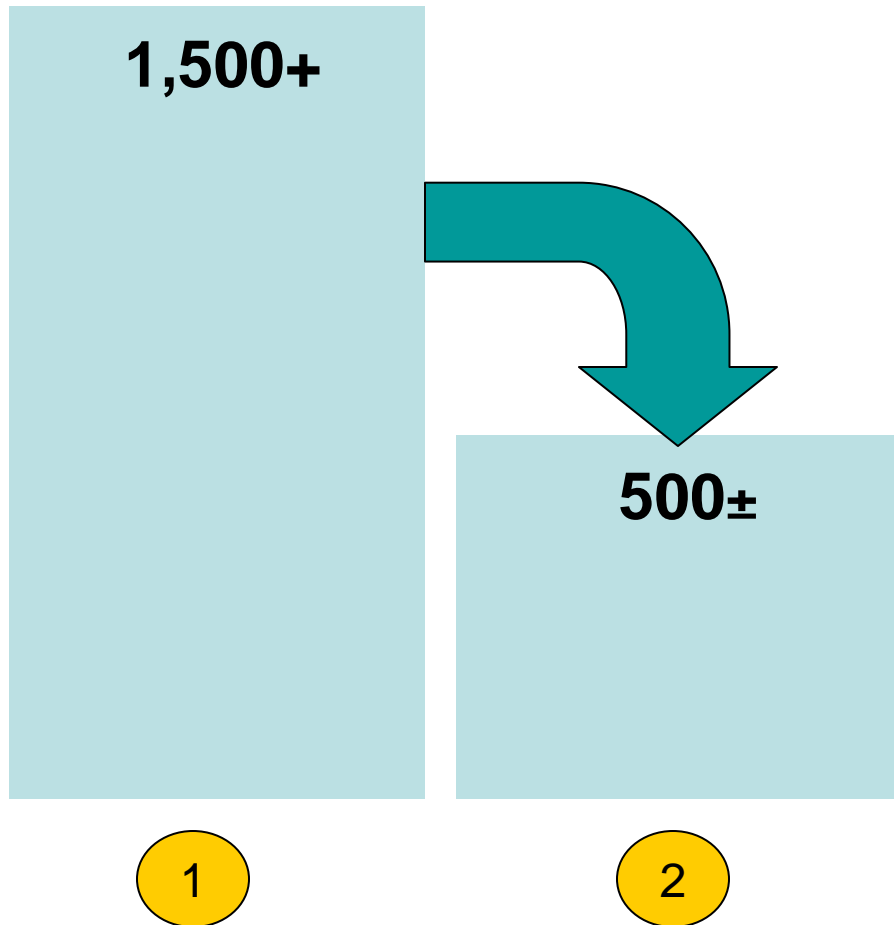**1,500+ Projects**

25?

Grant Application

??

Incorporated into Future Planning?

Conceptual Process

1,500+ Projects

500± Sorted by Subregion

30 per Subregion

Grant Application
(Beyond Current Scope)

25?

1

2

3

4

Initial Screening

1,500+

500±

1

2

• Sort by Benefits: Quantified or Not?

• Assumes Projects with Quantified Benefits are more likely to meet Documentation Requirements for a Grant Application

Apply Prioritization Framework

- Consultant Team generates List of 30 top-ranked projects for each Subregion

- Steering Committee selects 10 projects for Integration Exercise

- After Integration, Consultant Team Re-Ranks Projects

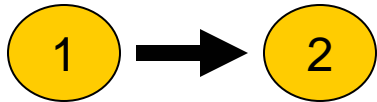- Steering Committee Adopts Ranked Project List

500±

30 per Subregion
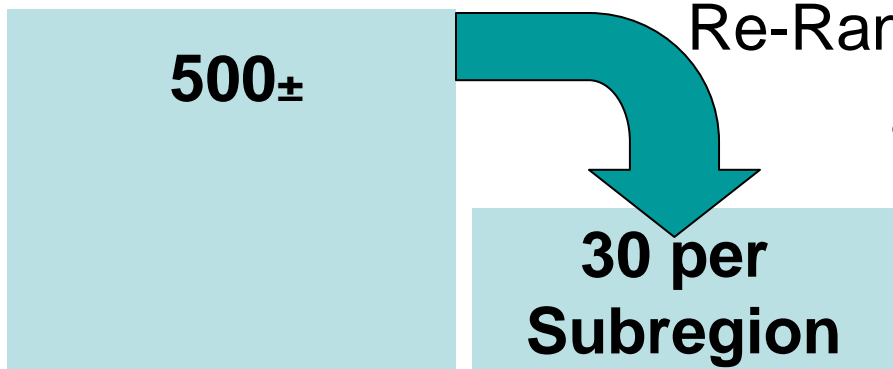
2

3

Select Projects for Grant Application*

- Generate List of High-Priority Projects

- Adopted by Leadership Committee

30 per Subregion

25?

3

4

* Beyond current scope

Initial Screening Tool

1 → **2**

- Quantified Benefits?
- Other Factors?

Prioritization Framework

2 → 3
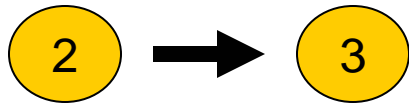
- Multiple Benefits
- Quantified Benefits
  - Degree of Benefit – Bias for Large Projects?
  - Relative Contribution?
  - "Minimum" Benefit Level?
- Subregional Weighting Criteria?

Subregional Weighting Factors?

- Improve Water Supply

- Improve Water Quality

- Enhance Habitat

- Enhance Open Space and Recreation

- Sustain Infrastructure for Local Communities

Potential Weighting Methodology

- ## Use Statistical Measure to Generate Weighting Factors
  - Limit Subjective Assignment of Values
  - Consistency between Subregions
  - Low-Ranked Factors are not Excessively Penalized

Conceptual Objective Weighting

Hypothetical
Ranking

Weighting
Factor

1   Improve Water Supply   28

2   Improve Water Quality   23

3   Enhance Habitat   19

4   Enhance Open Space and Recreation   16

5   Sustain Infrastructure for Local Communities   14

Additional Project Selection Factors

3 ➔ **4** (for Grant Application)

- Readiness to Proceed
- Local Support / Visibility
- Integration Across Org. / Subregions
- Feasibility
- Availability of Local Match
- Others?

Example: Multi-Purpose Ranking

ID	Objective	Project 1	Project 2	Project 3	Project 4	Project 5	Project 6	Project 7	Project 8	Project 9	Project 10
G1	Improve Water Supply	✓			✓	✓	✓			✓	
G2	Improve Water Quality (TMDLs)	✓	✓		✓	✓	✓				
G3	Enhance Habitat	✓		✓				✓			✓
G4	Enhance Open Space, Recreation	✓		✓		✓				✓	
G5	Sustain Communities	✓				✓	✓				
	TOTAL (out of 10):	5	1	2	2	4	3	1	0	2	1
	RANK:	1	7	4	4	2	3	7	10	4	7

Projects that address multiple objectives would rank highest

Example: Weighted Ranking

ID	Objective	Rank	Weighted Score	Project 1	Project 2	Project 3	Project 4	Project 5	Project 6	Project 7	Project 8	Project 9	Project 10
A	Improve Water Supply	1	28	28	0	0	28	28	28	0	0	28	0
B	Improve Water Quality (TMDLs)	2	23	23	23	0	23	23	23	0	0	0	0
C	Enhance Habitat	3	19	19	0	19	0	0	0	19	0	0	19
D	Enhance Open Space, Recreation	4	16	16	0	16	0	16	0	0	0	16	0
E	Sustain Communities	5	14	14	0	0	0	14	14	0	0	0	0
	TOTAL:		100	100	23	35	51	81	65	19	0	44	19
	RANK:			1	7	6	4	2	3	8	10	5	8

Projects that address multiple and/or higher priority objectives would score high

Example: Combined Scoring

ID	Priorities	Project 1	Project 2	Project 3	Project 4	Project 5	Project 6	Project 7	Project 8	Project 9	Project 10
P1	Readiness to Proceed	5	4	3	2	1		5		3	
P2	Local Support/Visibility				5	4	3	2			5
P3	Integration Across Organizations / Sub-Regions		4	3		5	4	3		1	
P4	Feasibility	5	4	3	2	1		5		3	2
P5	Local Match			5	4	3	2	1		5	4
	TOTAL:	10	12	14	13	14	9	16	0	12	11
	RANK:	8	5	2	4	2	9	1	10	5	7

Weighted Score + Priorities											
Weighted Objectives Total (out of 50):		50	12	18	26	41	33	10	0	22	10
Priority Total (out of 50):		20	24	28	26	28	18	32	0	24	22
TOTAL (out of 100):		70	36	46	52	69	51	42	0	46	32
RANK:		1	8	6	3	2	4	7	10	5	9

Projects that address multiple and higher priority objectives and would ***be highly competitive*** for the next round of funding would score high

Next Steps

- Review by Other Steering Committees
- Draft Technical Memo
  - Specific Recommendations *based on Steering Committee input*
- Consideration by Leadership Committee
- Update Project Information
  - Update / Add Quantified Benefits & Location Information
  - Deadline: 5pm on April 30th
- Begin Prioritization May 1