

Support Services for the
WATER FUNDING TASK FORCE

10 October, 2013

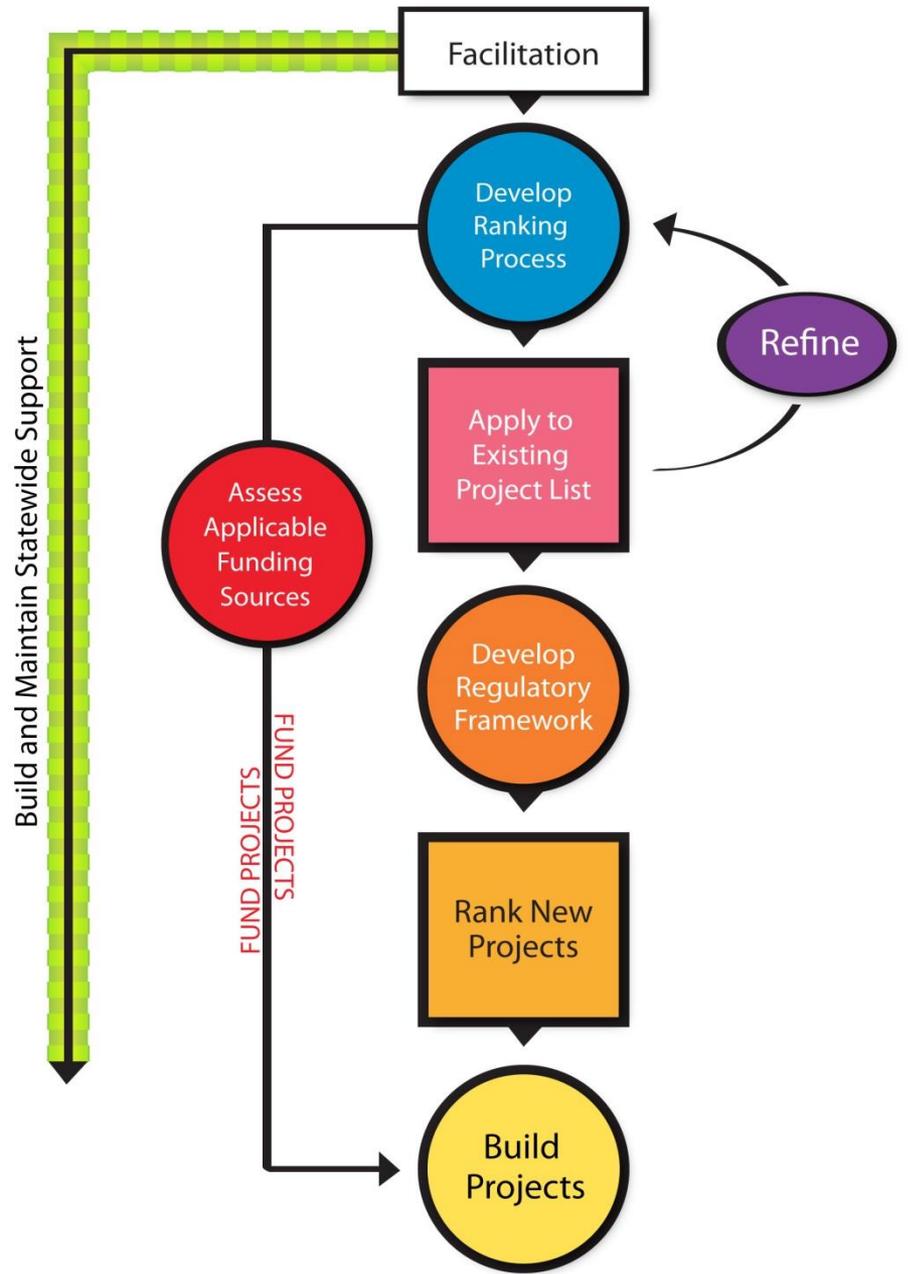
 **OLSSON**[®]
ASSOCIATES

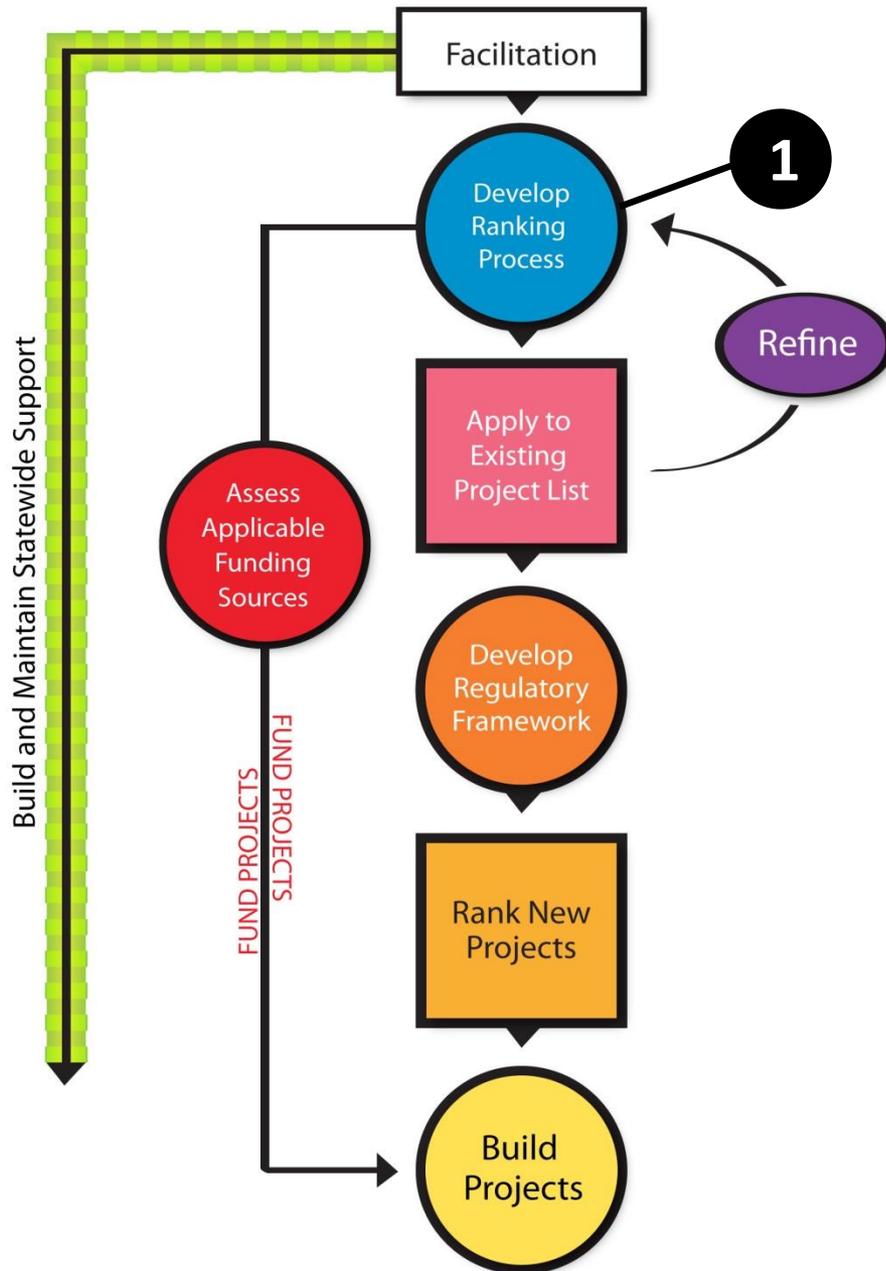
FYRA
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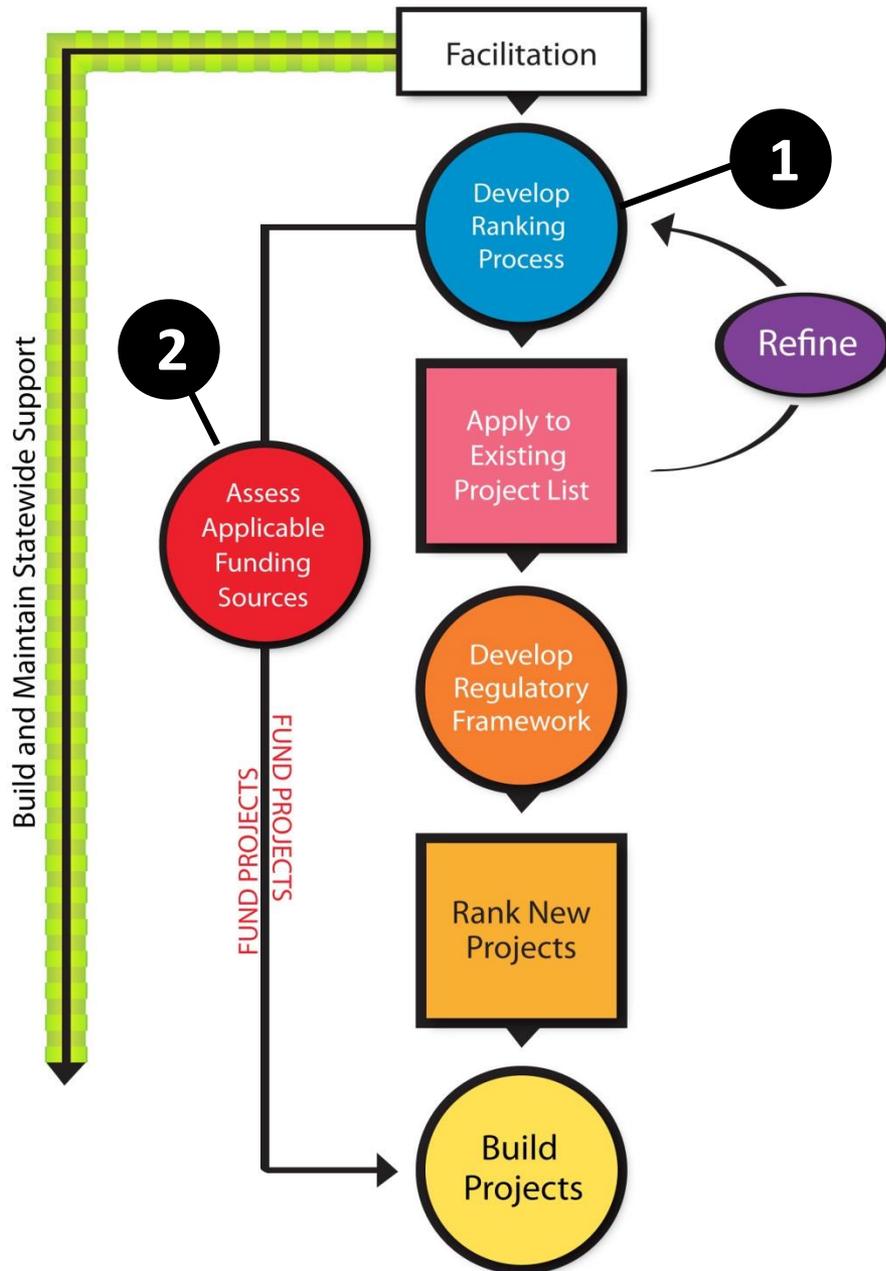
LAKE  TECH

Project Flow Chart



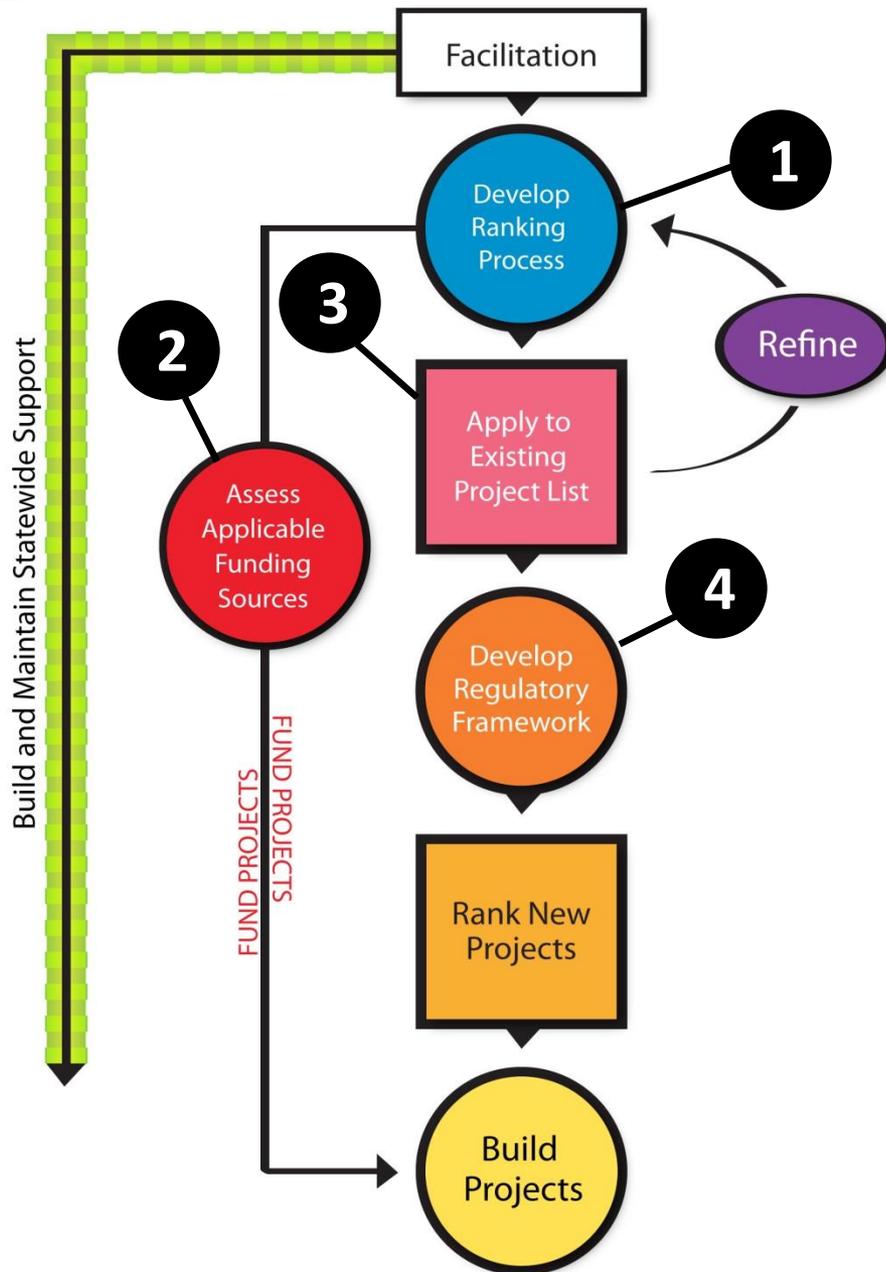


LR314 Group 1 – Water Basics
Background information from which we discern how to apply the different needs across the State to different PPAs and PPA types.



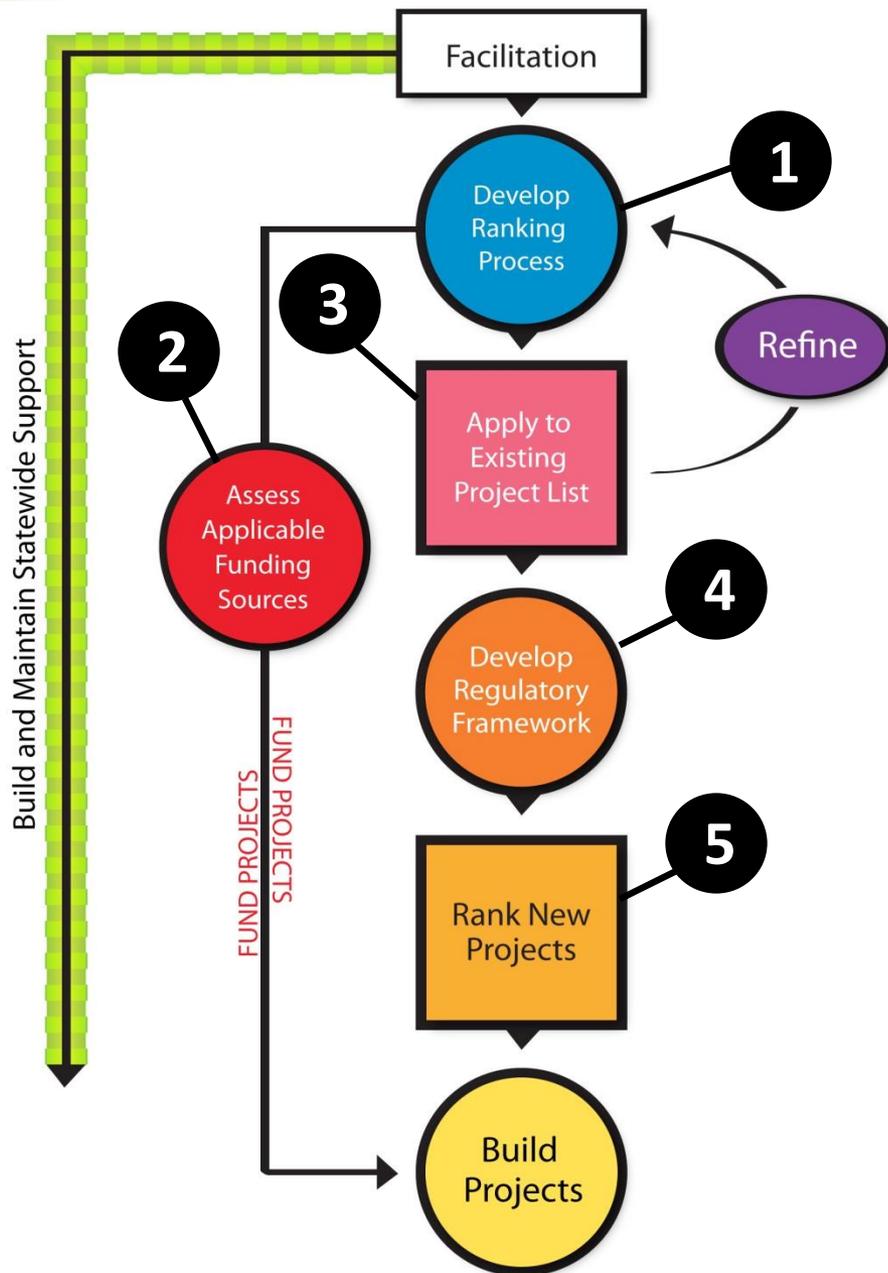
LR314 Group 2 – Existing Funding Resources

Allows the TF to look at what already exists and therefore, determine any shortcomings in the designed program.



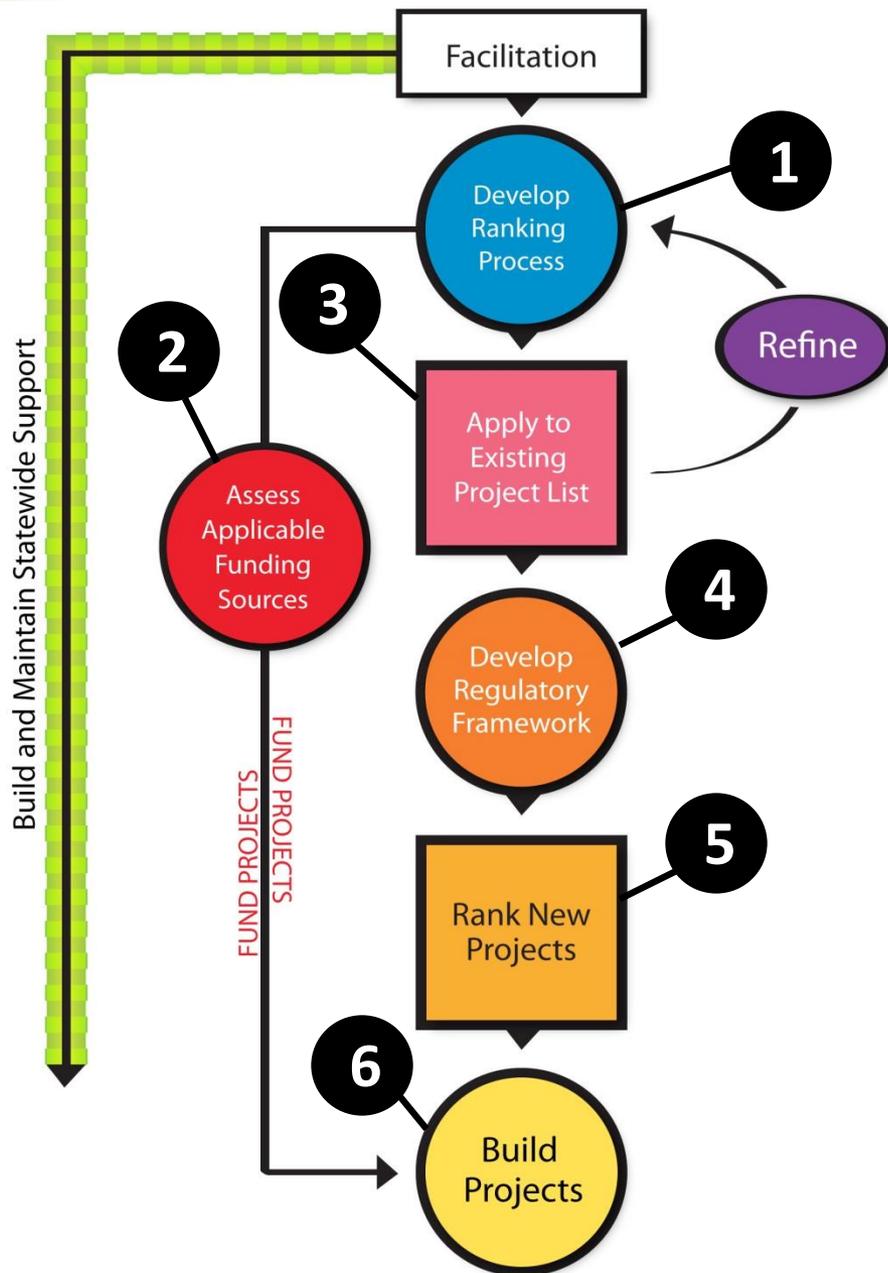
LR314 Group 4 – Predicting Future Needs

With an understanding of current needs, the ability to predict future needs allows the program to be shaped correctly.



LR314 Group 5 – Available Information

A detailed list of work that has been compiled within the industry will allow the program to understand better and therefore effectively assess the viability of new projects.



LR314 Group 6 – DNR and the NRDs

Understanding of the capabilities and limitations of these entities will allow the TF to assess the framework in which new projects are administered.

Ranking Criteria Developed by Task Force

STRAIGHT COMPARISON BETWEEN LB517 AND NRDF PROJECT EVALUATION CRITERIA

PROPOSED LB517 CRITERIA - AS YET UNTESTED	CURRENT NRDF PROJECT PROPOSAL CRITERIA
High Priority	High Priority
H1 The extent to which the PPA contributes to multiple water supply management goals, including but not limited to flood control, agricultural use, municipal uses , recreational benefits, wildlife habitat, conservation of water resources, and preservation of water resources.	1 Is the primary purpose of the project flood damage reduction?
H2 The extent to which the PPA protects the ability of future generations to meet their needs including: <ul style="list-style-type: none"> • Increasing aquifer recharge • Eliminating aquifer depletion • Remediating or mitigating threats to drinking water • Meeting the goals and objectives of an approved IMP 	2 Does the project provide and/or preserve the waters of the state for beneficial uses and to what extent?
H3 The extent to which the PPA provides increased water productivity and otherwise maximizes the beneficial use of Nebraska's water resources for the benefit of its residents.	
H4 The cost effectiveness of the PPA relative to achieving the state's water management goals.	
Medium Priority	Medium Priority
M1 The extent to which the PPA maintains water quality.	3 Does the project improve conjunctive management of hydrologically connected waters?
M2 The extent to which the PPA assists the state in meeting its obligations under interstate compacts or decrees or other formal state contracts or agreements.	4 Does the project address a current statewide need or benefit (e.g. compliance with an interstate compact or agreement)?
M3 The extent to which the PPA contributes to the state's ability to leverage state dollars with local or federal government partners or other partners to maximize the use of its resources.	5 Is the project multipurpose in nature?
M4 The extent to which the PPA has been approved for, but has not received funding through an established state program.	
M5 The extent to which the local jurisdiction has utilized all available funding resources to support PPA.	
M6 The extent to which a PPA addresses a statewide problem or issue.	
Lower Priority	Lower Priority
L1 The extent to which the PPA reduces threat to property damage.	6 Extent to which other non-federal sources of funding are being used.
L2 The extent to which the PPA contributes to watershed health and function.	7 Does the project leverage federal funds?
L3 The extent to which the PPA utilizes objectives described in the Annual Report and Plan of work for the Nebraska State Water Planning and review Process issued by DNR.	8 Extent to which the sponsor NRD other sponsoring public entity is already using its taxing authority and other potential revenue sources.
	9 Other aspects of the project that warrant NRDF funding: a) Extent to which the project would conserve land resources; b) Extent to which the project would provide public outdoor recreation lands and/or facilities; c) Extent to which the project would preserve and/or develop fish and wildlife resources; d) Extent to which project would result in abatement of pollution; e) Extent to which project would have incidental benefits for which there is no accepted method for monetary quantification; f) Extent to which project would protect and/or improve public lands

Ranking Criteria Developed by Task Force

- Instructions to Graders
- 18 Project Descriptions
- Description of Criteria Outputs/List of Ranking Criteria
- Ranking Sheet

Suggested Refinement of Criteria

- Clarification of What is Intended
- Lack of Detail Available for PPA as Described
- Applying Scale to the Criteria

Clarification of What is Intended

- Better Define the Terminology
- Task Force Education Process to Date
- Define the Value in PPA Types Such as Integrated Management or Research

Lack of Detail for PPAs

H2: The extent to which the PPA protects the ability of future generations to meet their needs including; Increasing aquifer recharge, eliminating aquifer depletion, remediating or mitigating threats to drinking water, meeting the goals and objectives of an approved IMP

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H3: *The extent to which the PPA provides increased water productivity and otherwise maximizes the beneficial use of Nebraska's water resources for the benefit of its residents.*

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H3: The **extent** to which the PPA provides increased water productivity and otherwise maximizes the beneficial use of Nebraska's water resources for the benefit of its residents.

Applying Scale to the Criteria

- Detail the Magnitude of Scoring Criteria Outputs
 - e.g. Flood Control, Aquifer Recharge, Flow Augmentation
- Provide Detail in PPA

Criteria Weighting

- Graders Asked to Ignore Criteria Weighting Done to Date
- Three Weighting Scenarios Analyzed;
 - Original Criteria
 - Weighting Scenario A
 - Weighting Scenario B

Grading Results

Project Name	Low/High		Total Scores			Average Scores		
	Rankings		O	A	B	O	A	B
	O	A						
Ashland Dam	42	88	446	892	1335	64	127	191
Box Butte Dam - Water Diversion	35	52	303	700	1094	43	100	156
Conestoga Lake	42	74	395	732	1068	56	105	153
Conjunctive Water Management Using Existing Canals	46	87	451	959	1462	64	137	209
Cozad Canal Rehabilitation Project (to replace Phelps canal)	54	87	474	987	1497	68	141	214
Dam 15-A	46	77	407	760	1121	58	109	160
Eastern Nebraska Water Resources Assessment (ENWRA) Research	44	86	449	929	1406	64	133	201
Elkhorn-Loup Model (ELM) Groundwater Model	51	91	472	968	1462	67	138	209
Elm Creek Reservoir	59	97	573	1140	1705	82	163	244
Farming/Range Conservation Practices Effects on GW Recharge	70	94	590	1122	1652	84	160	236
Hastings Municipal Water Supply	26	90	340	717	1092	49	102	156
Invasive Species Management Project	50	88	458	929	1399	65	133	200
Lake Wanahoo	66	98	577	1077	1574	82	154	225
Linwood Reservoir	44	87	438	876	1310	63	125	187
Lower Platte System Study - Drought Prediction?	39	71	395	811	1223	56	116	175
Nebraska Cooperative Republican Platte Enhancement (N-Corpe) Project	59	99	503	1040	1575	72	149	225
Platte Basin Habitat Enhancement Project (PBHEP)	57	96	549	1094	1636	78	156	234
Platte River Cooperative Hydrology Study (COHYST)	52	84	507	980	1449	72	140	207

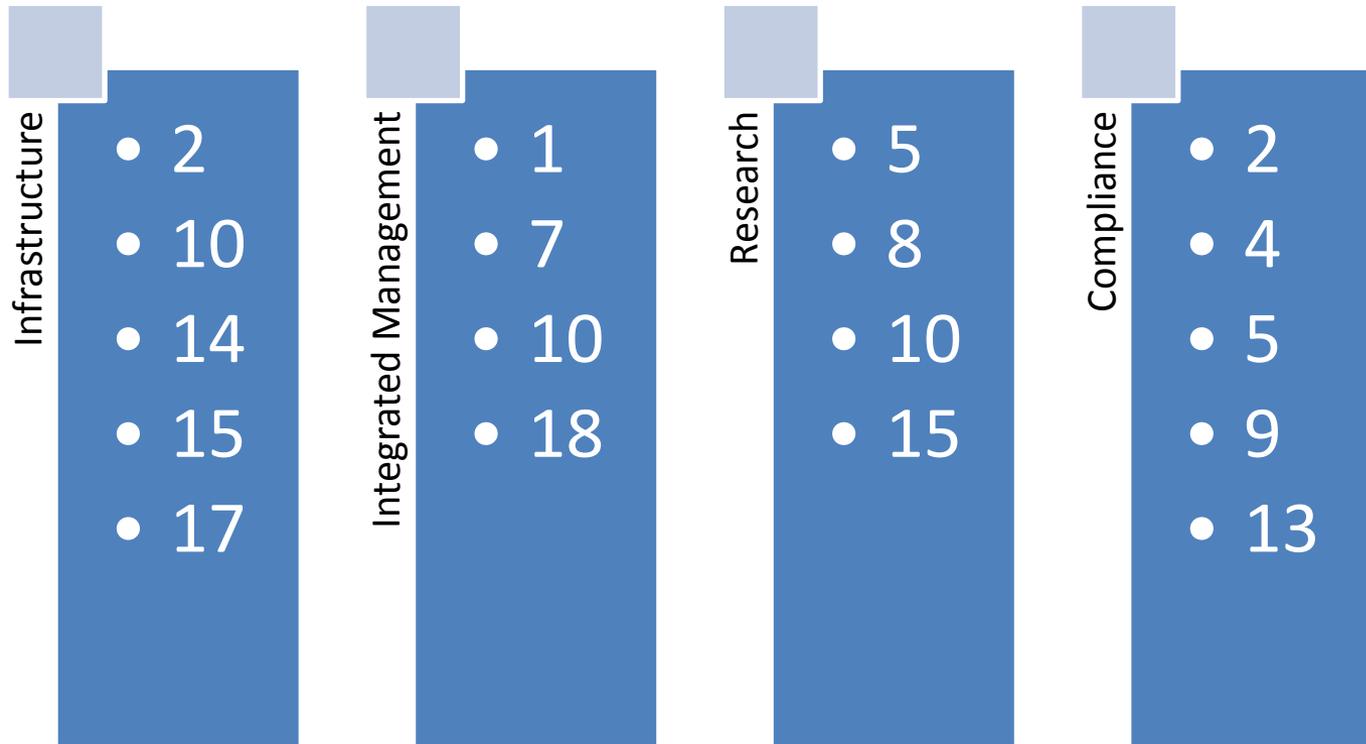
Weighting Results

Project Rankings - Round 2						
Project Name	Overall Ranking			Project Type Grouping		
	O	A	B	1	2	
Ashland Dam	10	12	7	I	N	
Box Butte Dam - Water Diversion	18	18	16	IM	T&D	
Conestoga Lake	15	16	14	I	L	
Conjunctive Water Management Using Existing Canals	10	9	4	IM	T&D	
Cozad Canal Rehabilitation Project (to replace Phelps canal)	7	6	8	IM	T&D	
Dam 15-A	14	15	17	I	N	
Eastern Nebraska Water Resources Assessment (ENWRA) Research	10	11	11	R	N	
Elkhorn-Loup Model (ELM) Groundwater Model	8	8	10	R	N	
Elm Creek Reservoir	2	1	1	C	T&D	
Farming/Range Conservation Practices Effects on GW Recharge	1	2	2	IM	N	
Hastings Municipal Water Supply	17	17	18	I	L	
Invasive Species Management Project	9	10	11	C	A	
Lake Wanahoo	2	4	5	I	N	
Linwood Reservoir	13	13	13	C	T&D	
Lower Platte System Study - Drought Prediction?	15	14	15	R	N	
Nebraska Cooperative Republican Platte Enhancement (N-Corpe) Project	5	5	6	C	T&D	
Platte Basin Habitat Enhancement Project (PBHEP)	4	3	3	C	A	
Platte River Cooperative Hydrology Study (COHYST)	5	7	9	R	N	

Weighting Results

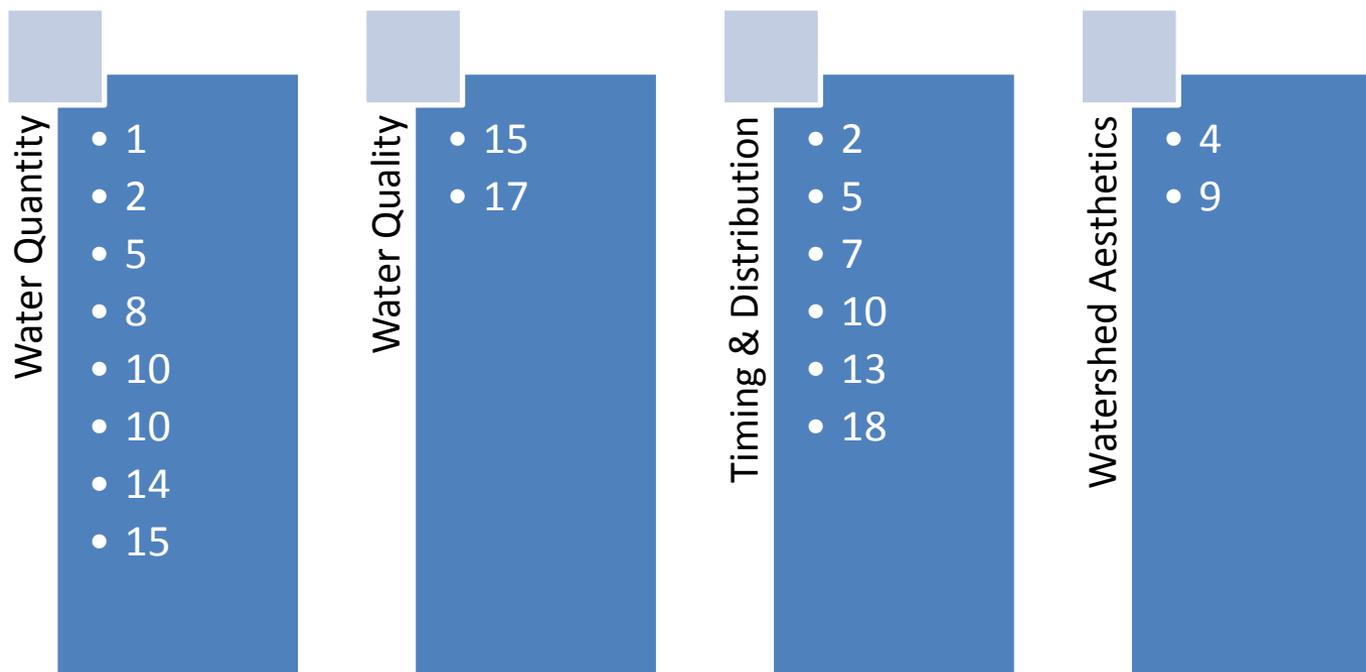
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Dam 15-A	14	15	17	I	N
Eastern Nebraska Water Resources Assessment (ENWRA) Research	10	11	11	R	N
Elkhorn-Loup Model (ELM) Groundwater Model	8	8	10	R	N
Elm Creek Reservoir	2	1	1	C	T&D
Farming/Range Conservation Practices Effects on GW Recharge	1	2	2	IM	N
Hastings Municipal Water Supply	17	17	18	I	L
Invasive Species Management Project	9	10	11	C	A
Lake Wanahoo	2	4	5	I	N
Linwood Reservoir	13	13	13	C	T&D
Lower Platte System Study - Drought Prediction?	15	14	15	R	N
Nebraska Cooperative Republican Platte Enhancement (N-Corpe) Project	5	5	6	C	T&D
Platte Basin Habitat Enhancement Project (PBHEP)	4	3	3	C	A
Platte River Cooperative Hydrology Study (COHYST)	5	7	9	R	N

“Siloing” Results



LB517 PPA Categories

“Siloing” Results



Proposed Silos

Recommendations

- Incorporate Subjectivity Where Appropriate
- Use Two-Step Application Process
- Use Existing LB517 Criteria for Initial Screening
- Develop More Detailed Application Requirements for Final Approval