



Water Plan 2020

The Process..

Water Plan 2020 Evaluates System-Wide Needs



**Identify Needed
Improvements**

**Prioritize
Improvements
by System**

**Develop Island-Wide
Improvement Program**

Identify Needed Improvements



Frequent Failures or Leaks



Wainiha



Waimea

**“Cross Country” Mains
Increase
System Vulnerability**

Eleele



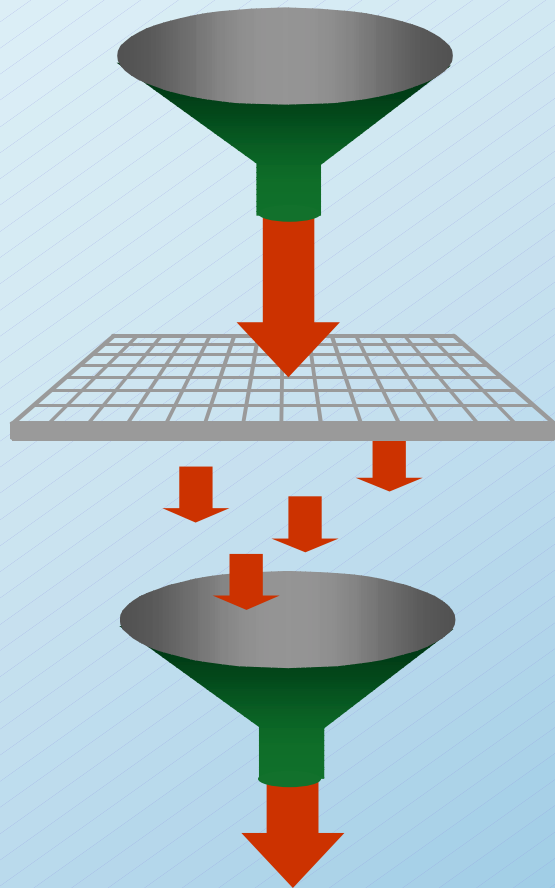
**Poor Access Impedes
Maintenance**



Kokolau Tunnel

Project Prioritization Criteria

Potential Projects



Project Prioritization Criteria

- Condition Assessment
- Level of Service
- Public Health & Safety

Prioritized Project Listing

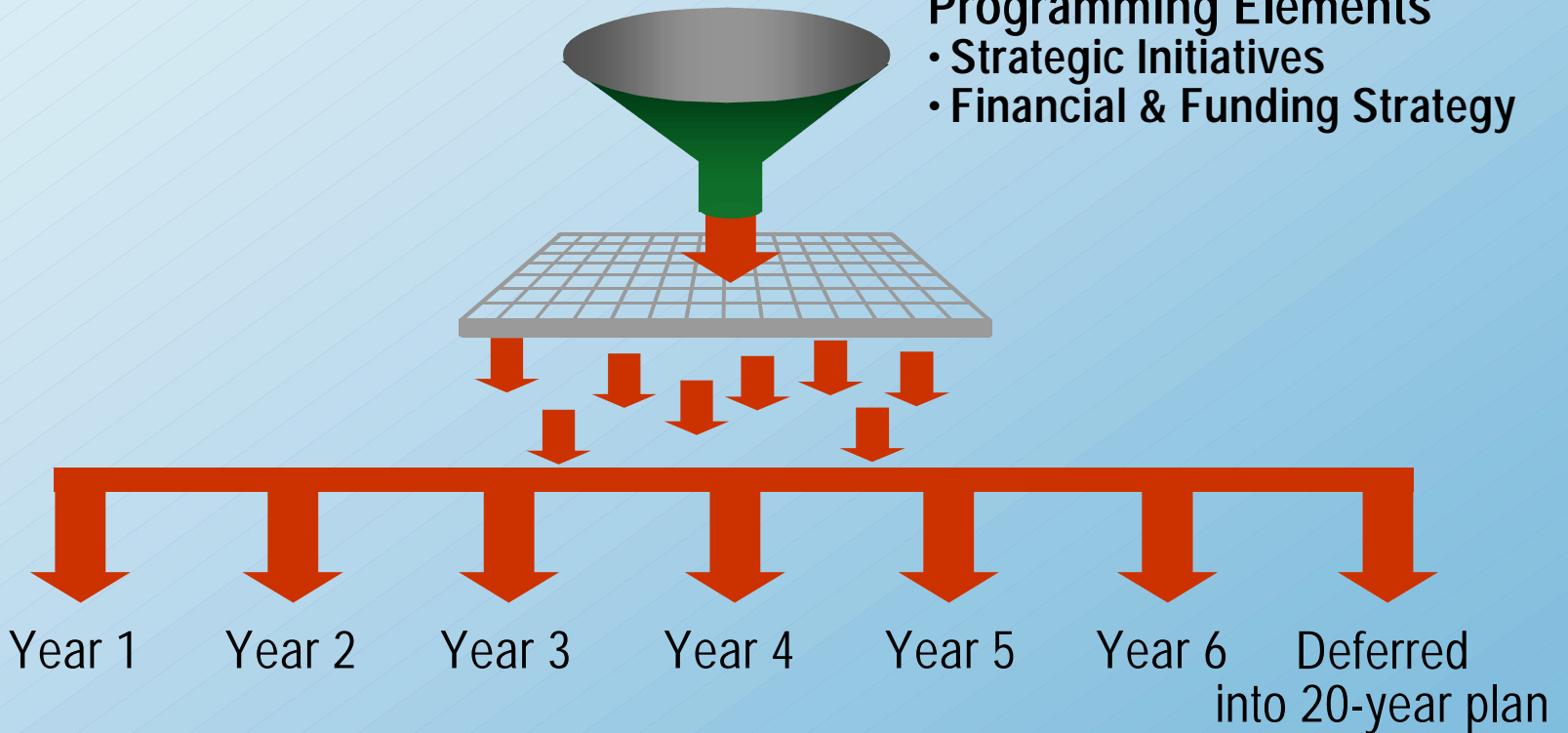
How Improvements are Prioritized

Project	System	Description	Project Evaluation			Addl. Score		
			Fund Type	Cond. Assess	Health /Service Safety Level	Total Score	Strategic Initiative	Funding
KW-21	Kekaha-Waimea	Waimea Shaft #9, Water Treatment Plant						
5 Years	Y	CRP	10	10	10	30	1	20
PLH-13	Puhi-Lihue-Hanamaulu	Develop Puhi Well #5A, #5B and Puhi #1 re-pipe to 393'						
5 Years	Y	CIP	10	10	10	30	1	20
PLH-16	Puhi-Lihue-Hanamaulu	Drill & Develop Hanamaulu Well #4, 150 gpm						
5 Years	Y	CIP	10	9	9	28	1	20

Programming Criteria

Prioritized Project Listing

- Programming Elements
- Strategic Initiatives
 - Financial & Funding Strategy





Develop Island-Wide Improvement Program

<i>Water System</i>	<i>Number of Projects</i>	<i>Total Cost (in Million \$)</i>
Anahola	9	\$5.2
Anini	2	\$1.6
Haena-Wainiha	14	\$5.9
Hanalei	9	\$4.8
Hanapepe-Eleele	14	\$11.4
Kalaheo	12	\$10.3
Kekaha-Waimea	29	\$15.2
Koloa-Poipu	18	\$12.5
Lawai-Omao	12	\$7.3
Moloaa	2	\$.3
Puhi-Lihue-Hanamaulu	33	\$24.0
Wailua-Kapaa	37	\$37.7
Waipake-Kilauea-Kalihiwai	18	\$11.9
Grand Total	209	\$150