



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



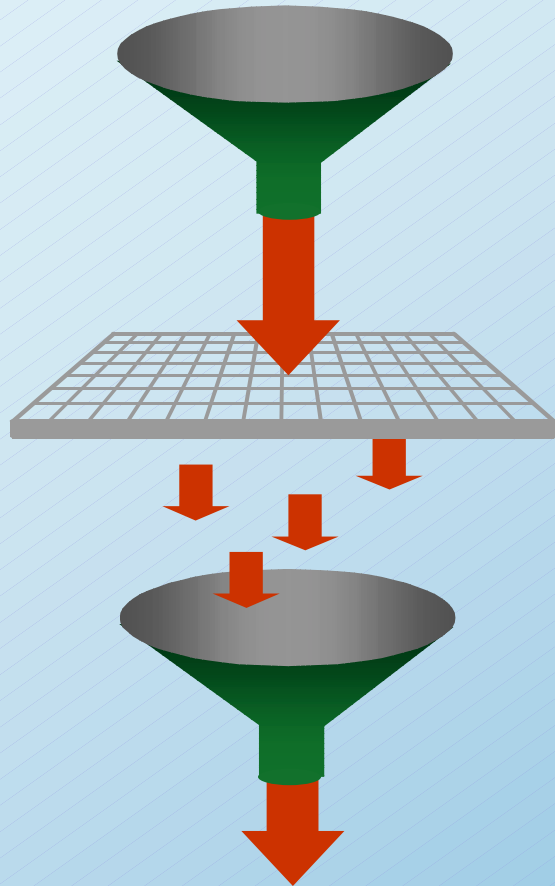
**Poor Access Impedes
Maintenance**



Kokolau Tunnel

Project Prioritization Criteria

Potential Projects



Project Prioritization Criteria

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

Prioritized Project Listing

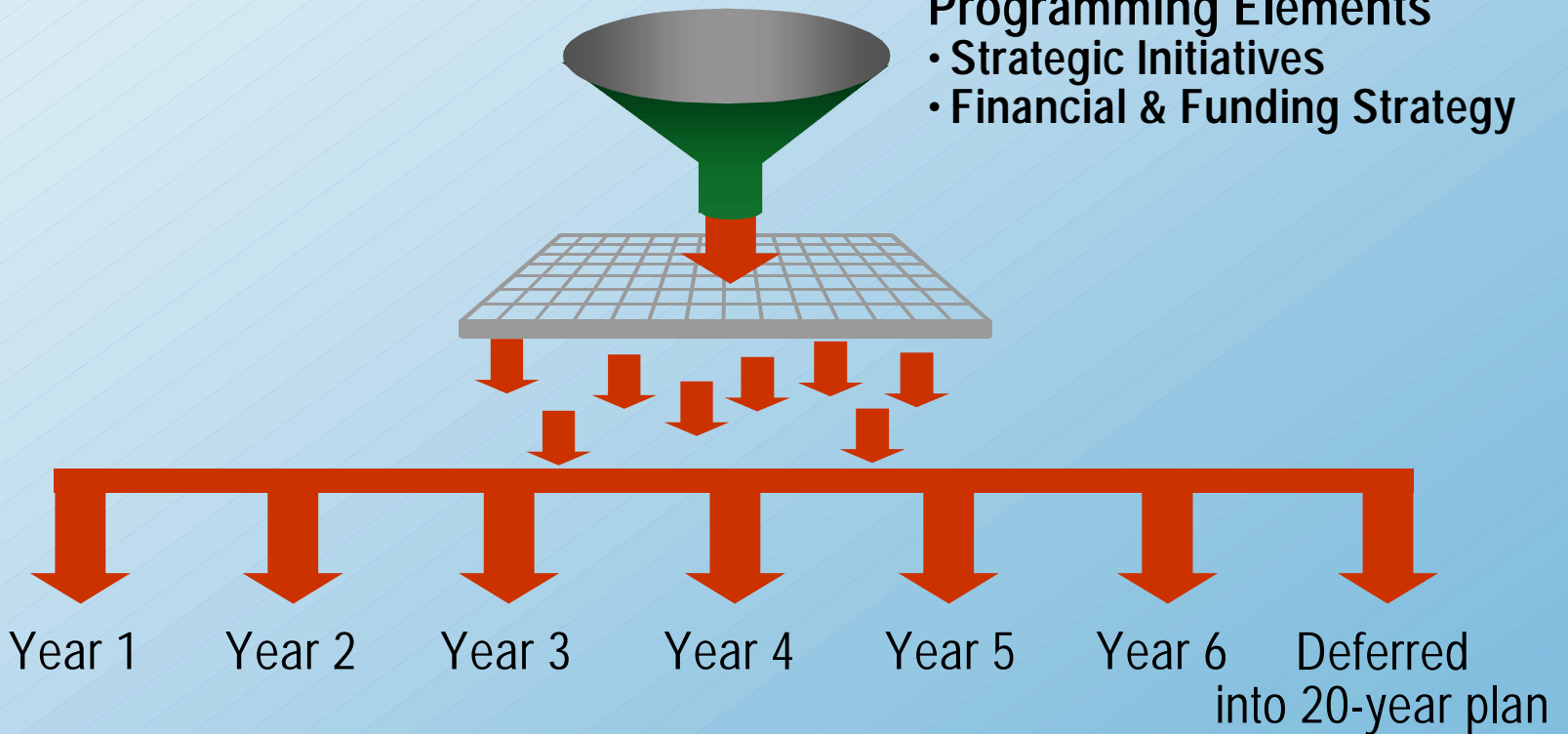
How Improvements are Prioritized

| 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 |