



CHEHALIS BASIN STRATEGY UPDATE

PRESENTED TO CHEHALIS RIVER BASIN FLOOD AUTHORITY

March 18, 2021

PURPOSE & TOPICS FOR TODAY

- Update on Status of Strategy after March 4 Board Meeting
- Discussion of CFAR Opportunities for Flood Authority Communities
- Dialogue about Relationship Between Board & Flood Authority



STATUS OF STRATEGY AFTER BOARD'S MARCH 4 DECISIONS & DIRECTIONS

UNANIMOUS AGREEMENT

- Support \$70 M for next two years of projects and planning
- 6 of 7 board members must agree before allocating new funding
- Continue deliberating on next phase of projects from March until June

BOARD CONSIDERING RANGE OF OPTIONS

- Which projects/actions are ready to be implemented as part of long-term strategy?
- Which need more evaluation before determining whether they should be implemented?
- Which should not move forward?

CHEHALIS BASIN STRATEGY REVISED TIMELINE

March 9 Evening Public Meeting

- Third in series of OCB meetings to receive public input on options

April 1, May 6 Board Meetings

- Board to review staff work plans, consider options, receive public comment, and seek consensus on several pathways requested at March 4 meeting
- Possible additional special meeting in May

June 1 Board Meeting

- Board to approve project list and pathways for next 2 years and beyond

MEANWHILE...PROGRESS CONTINUES!

Office of Chehalis Basin



Focus on: Community Flood Assistance and Resilience for renters, land- and business- owners



More information

Flooding is a normal part of the ecology in the Chehalis River basin. However, flooding also puts homes, businesses, towns, and community assets at risk. Flooding and flood damage are expected to increase in the future with climate change.

For more details, visit chehalisbasinstrategy.com

Contact information

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ADA Accessibility

To request ADA accommodations, contact us by phone at 360-407-6831 or email us at ecwada.coordinator@ecw.wa.gov

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ecology.wa.gov/accessibility

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- CFAR technical assistance visits & educational webinars
- Wynoochie-area house relocation
- Montesano WWTP protection



AQUATIC SPECIES HABITAT PROJECTS & PLANNING UPDATE

LONG TERM FUNDING (30 YEARS)

Full Restoration

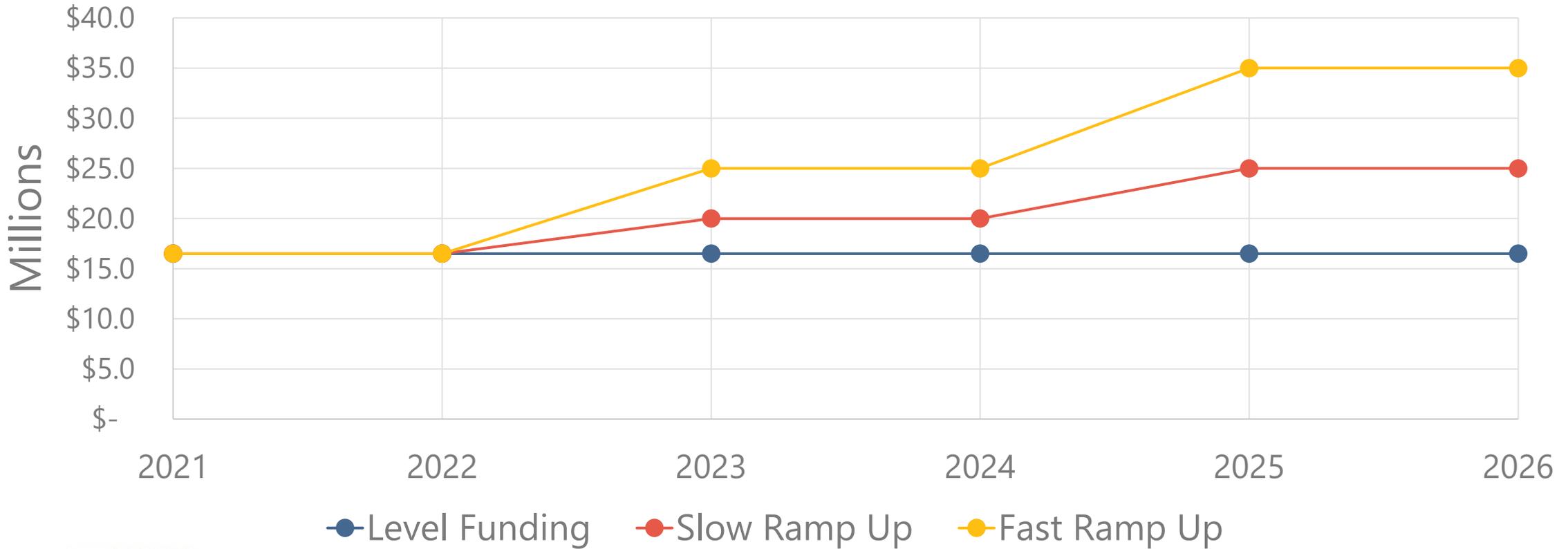
- \$600 million to \$1.3 billion
- Add new habitat
- Increase resiliency

Mid-Level

- \$300 to \$600 million
- Maintain existing habitat
- Halt decline

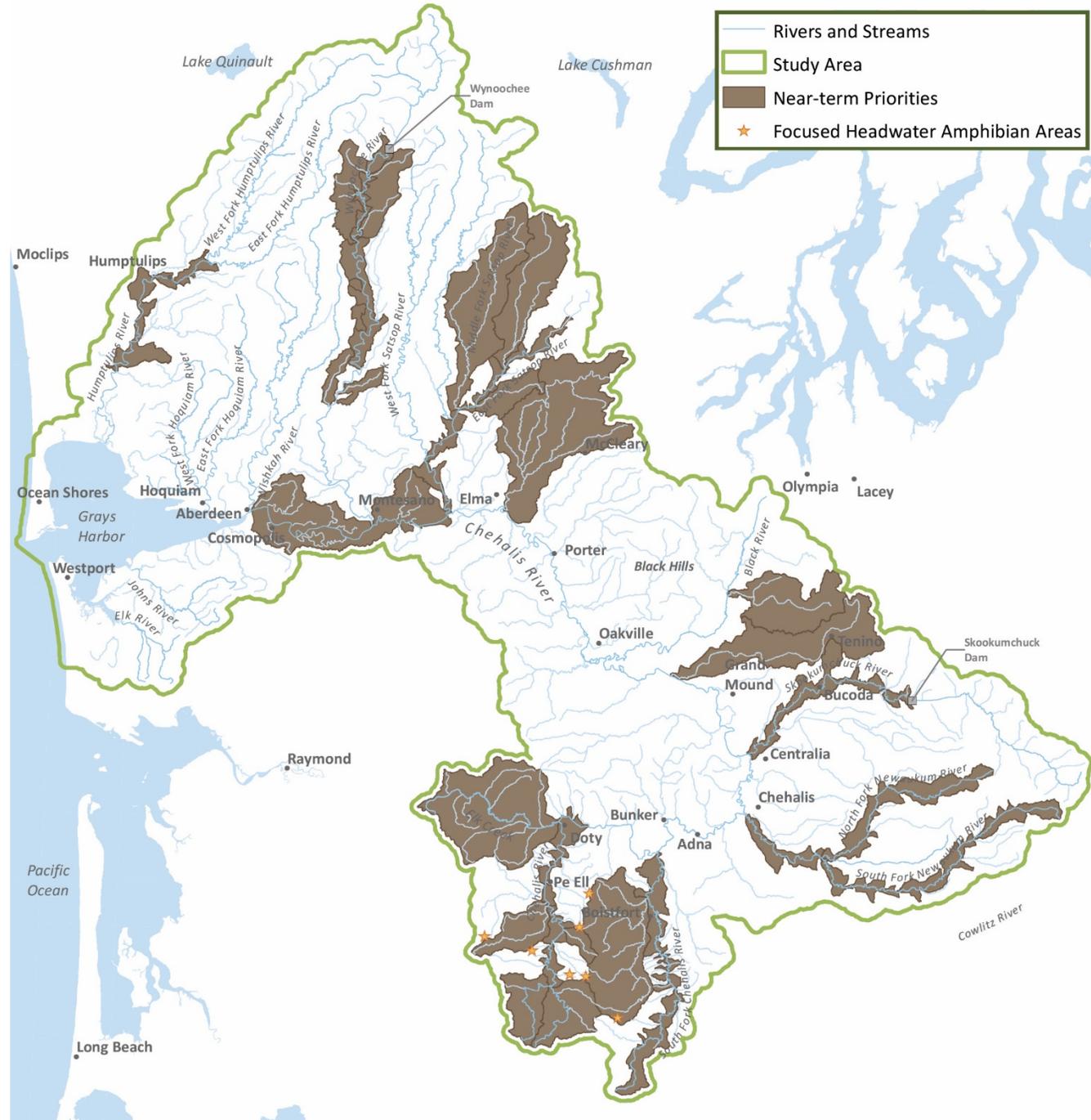
SHORT TERM FUNDING (6 YEARS)

Three Annual Funding Alternatives



NEAR-TERM PRIORITIES

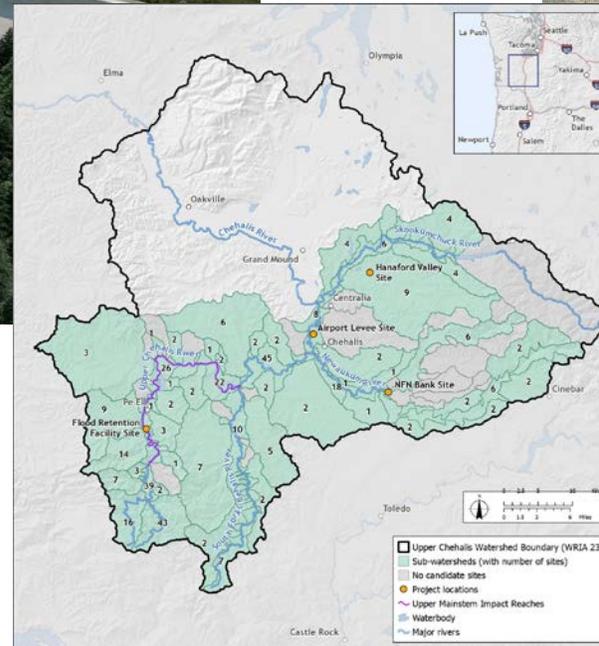
- Geographic areas of focus for first 10-year phase





FLOOD DAMAGE REDUCTION PROJECTS & PLANNING UPDATE

FLOOD RETENTION FACILITY



ABERDEEN-HOQUIAM NORTH SHORE LEVEE

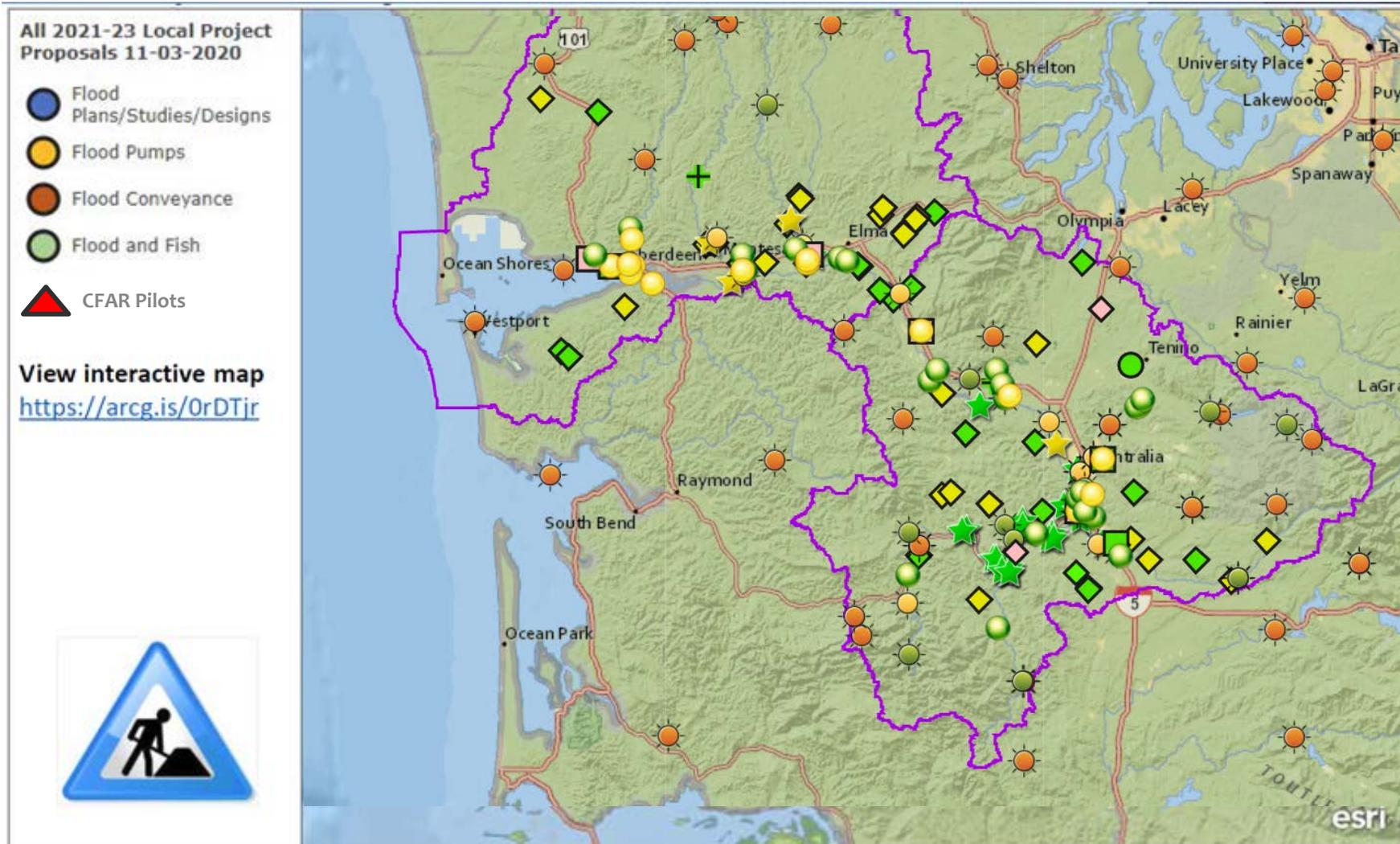
Aberdeen-Hoquiam Flood Protection Project North Shore Levee



The Aberdeen-Hoquiam Flood Protection Project is comprised of two critical levees, the North Shore Levee and the North Shore Levee –West Segment, which are needed to protect the Cities of Aberdeen & Hoquiam.



NEW FLOOD AUTHORITY & CFAR PROJECT PROPOSALS



OTHER STRUCTURAL FLOOD PROTECTION OPTIONS

- Focus on priority hot spot areas
- Consider numbers & types of existing structures and critical infrastructure
- Consider long-range land use, zoning, buildout, economic development & social justice
- Compare to Board’s desired outcomes

LOCATION	NUMBER OF STRUCTURES IN SELECTED AREA ¹	MAJOR/CRITICAL INFRASTRUCTURE PRESENT IN MODELED 2080 FLOODPLAIN? ²	STRUCTURES AFFECTED OUTSIDE PROTECTED AREA	IMPACTS TO NATURAL ENVIRONMENT	RELATIVE BENEFIT PER MILE OF FACILITY	RATING
3. Airport Levee and Chehalis	High (215)	I-5, airport Washington State Patrol	High (> 100)	Medium (wetlands, Dillenbaugh Cr.)	High (~4 miles [> 1 mile existing])	High
4. Centralia	High (5,527)	Radio stations Valley View Health Center Washington Elementary School Centralia Community College Centralia Police Centralia City Light BPA Power Plant	High (> 100)	High (wetlands, Skookumchuck and Salzer riparian)	High (~5 miles)	High
5. West Centralia	642 (High)	Centralia High School	Medium (> 25)	Low (agricultural, park)	High (~2 miles)	High
11. South Aberdeen	High (1,203)	Stevens Elementary School	Low (< 20)	Low (existing levee raise, pump station)	High (~2 miles existing)	High
13. Bucoda	High (260)	Water supply infrastructure	Low (< 20)	Medium (Skookumchuck riparian)	High (~1 mile)	High
1. Adna	Medium (83)	High school Lewis County special education Highway 6	Low (< 20)	Medium (Chehalis riparian)	Medium (~1.5 miles)	Medium
7. Galvin	Medium (87)	None identified	Medium (> 25)	Low (agricultural, residential)	Medium (~1.5 miles)	Medium
9. Oakville	Medium (172)	None identified	Low (< 20)	Low (residential)	Medium (~1 mile)	Medium
10. West Elma	Medium (148)	Highway 8 Elma High School	Low (< 20)	Low (highway raise)	Medium (~2 miles)	Medium
12. East Aberdeen	Low (4; all commercial)	Highway 101	Low (< 20)	Medium (Estuary shoreline)	Medium (~1 mile)	Medium
14. Grand Mound	Medium (168)	None identified	Low (< 20)	High (wetlands, oxbows)	Medium (~2 miles)	Medium
2. Lower Newaukum	Low (20)	None identified	Low (< 20)	Low (agricultural, residential)	Low (~1 mile)	Low
6. Military Road	Low (34)	Providence Centralia Hospital Valley View Health Center	Medium (> 25)	Low (residential)	Low (~2 miles)	Low ²⁶
8. Independence Road / north floodplain	High (306)	Highway 12	High (> 100)	High (wetlands, oxbows)	Medium (~4 miles)	Low



CROSSCUTTING/INTEGRATED WORK

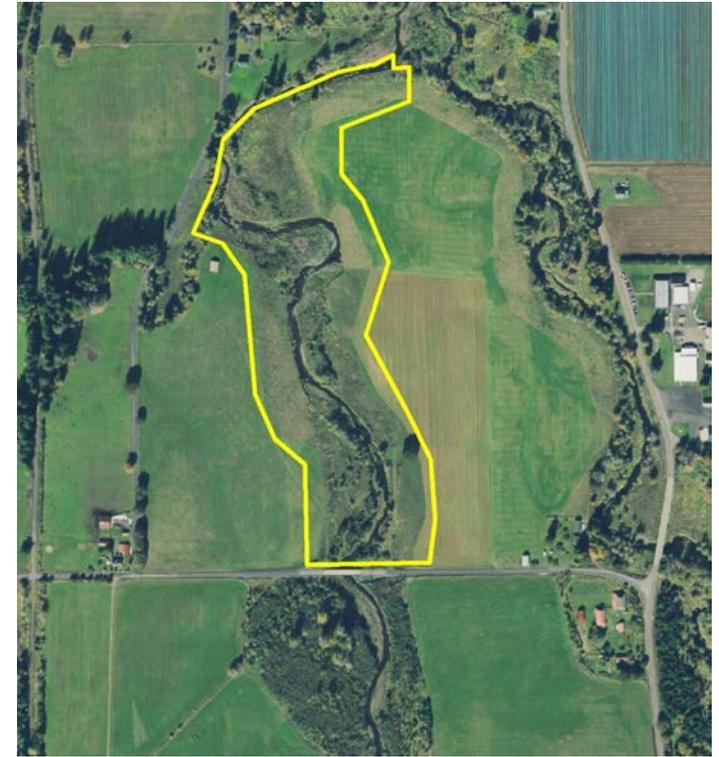
CROSSCUTTING/INTEGRATED WORK



BANK EROSION MANAGEMENT

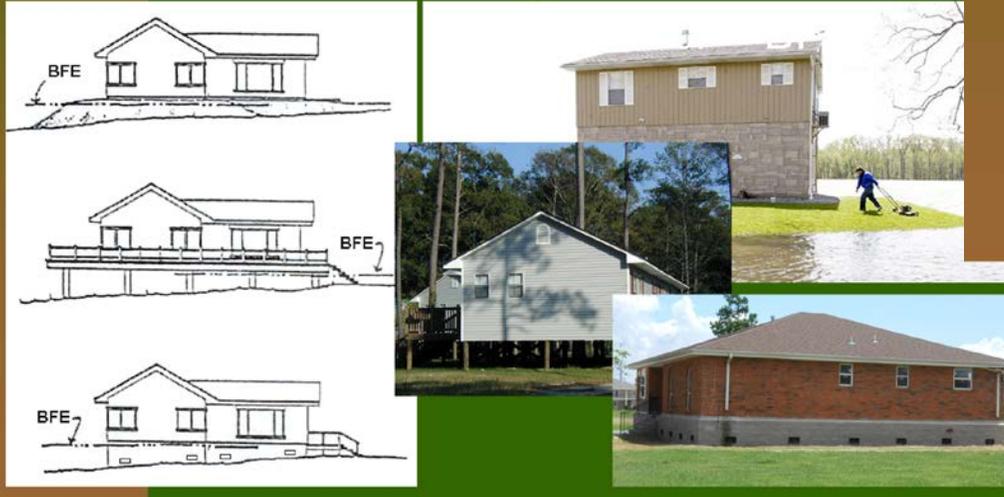


FLOODPLAIN ACQUISITION PROGRAM DESIGN



LAND USE MANAGEMENT

5-27 Residential buildings



7-20 Development



Buildings



Storage of materials



Filling, grading

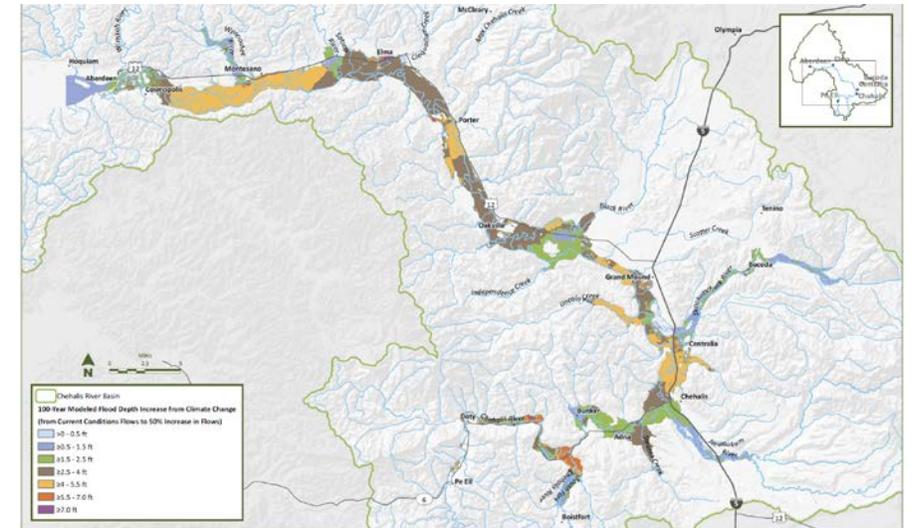


Other structures

SKOOKUMCHUCK DAM



FLOODPLAIN MODELING



COMMUNITY OUTREACH AND ENGAGEMENT



COMBINING ACTIONS TO MEET PRIORITY FLOOD DAMAGE OUTCOMES

- Valuable structures protected from mainstem, catastrophic flooding
- Homes & businesses protected from seasonal urban flooding
- Lower basin properties & businesses protected from coastal storm surges
- Farmland and rural structures protected
- Critical facilities protected
- Transportation routes protected
- Environmental justice advanced
- Prevent new at-risk development



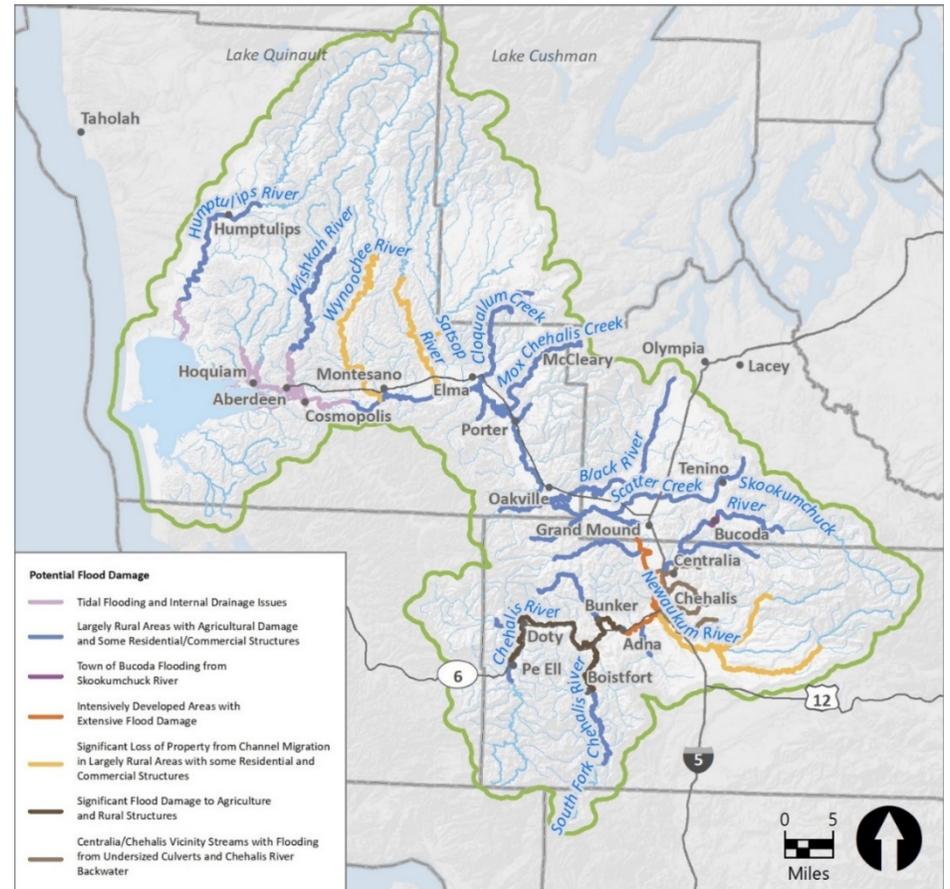
COMMUNITY FLOOD ASSISTANCE & RESILIENCE (CFAR)

OPPORTUNITIES FOR FLOOD AUTHORITY LOCAL GOVERNMENTS

COMMUNITY FLOOD ASSISTANCE & RESILIENCE

Options to scale up program by:

- Expanding technical assistance to individual landowners & local governments
- Increasing financial support for landowners & local governments
- Helping local governments with federal requirements

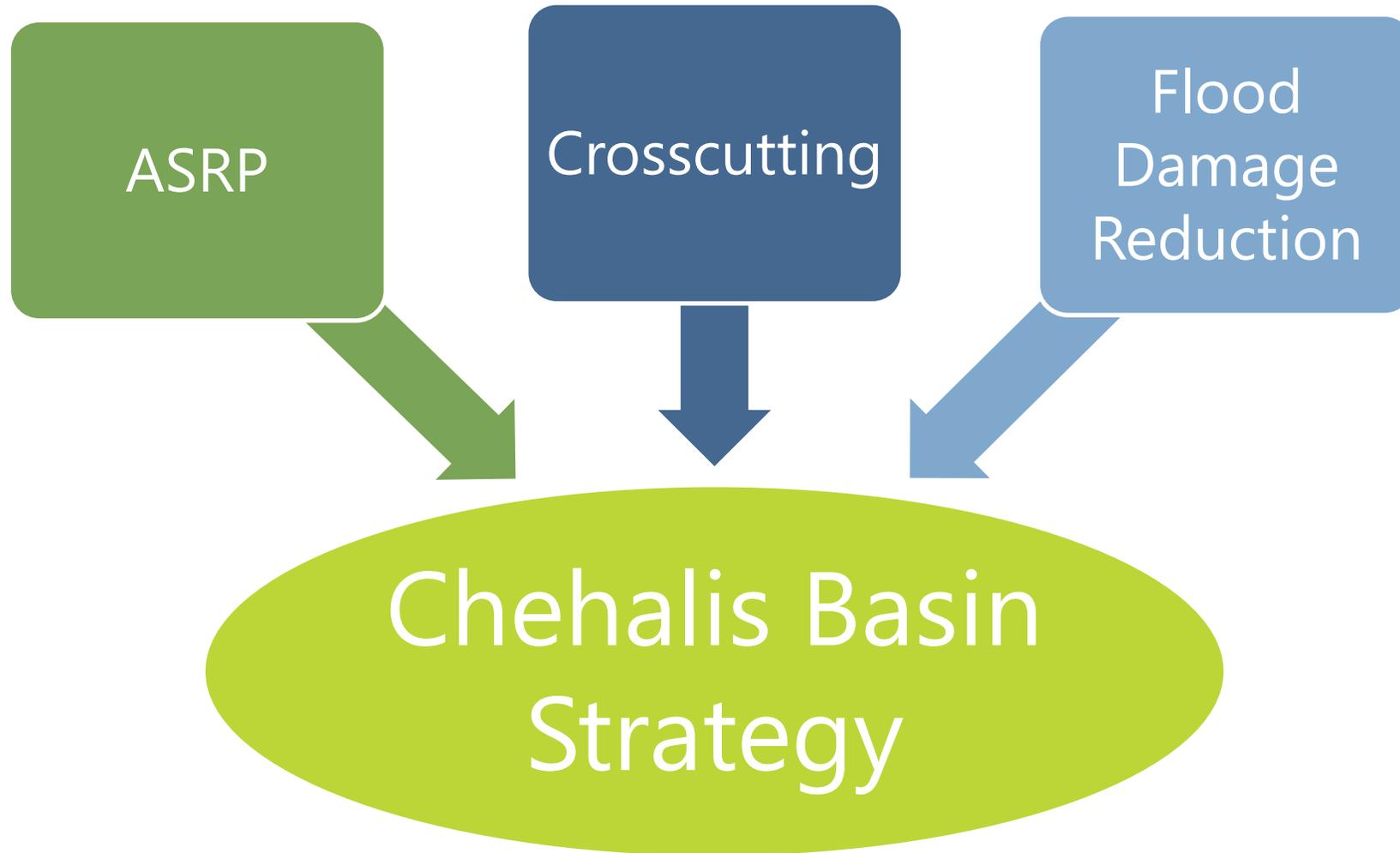




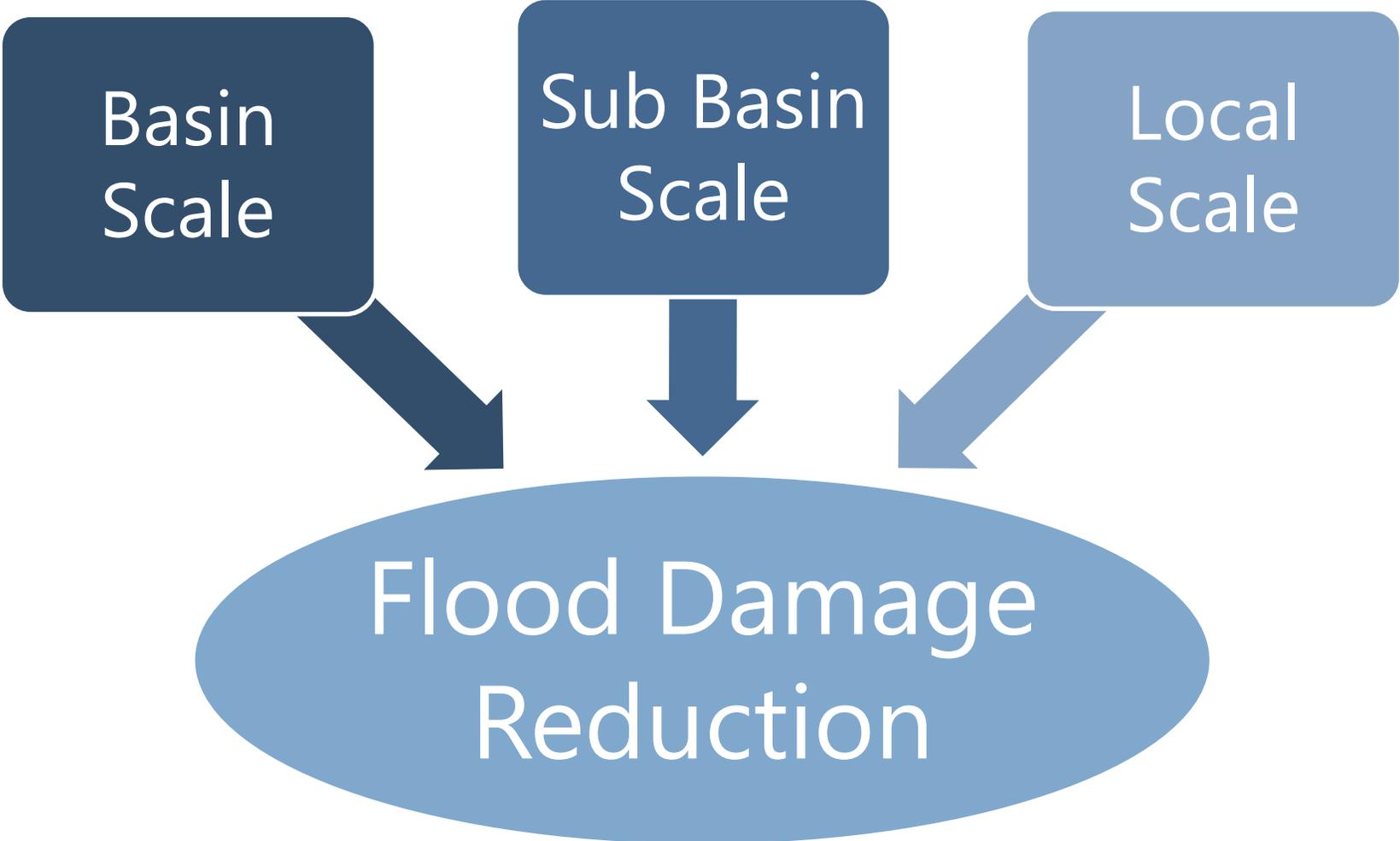
RELATIONSHIP BETWEEN BOARD & FLOOD AUTHORITY

A RELATIONSHIP WITH MULTIPLE DIMENSIONS

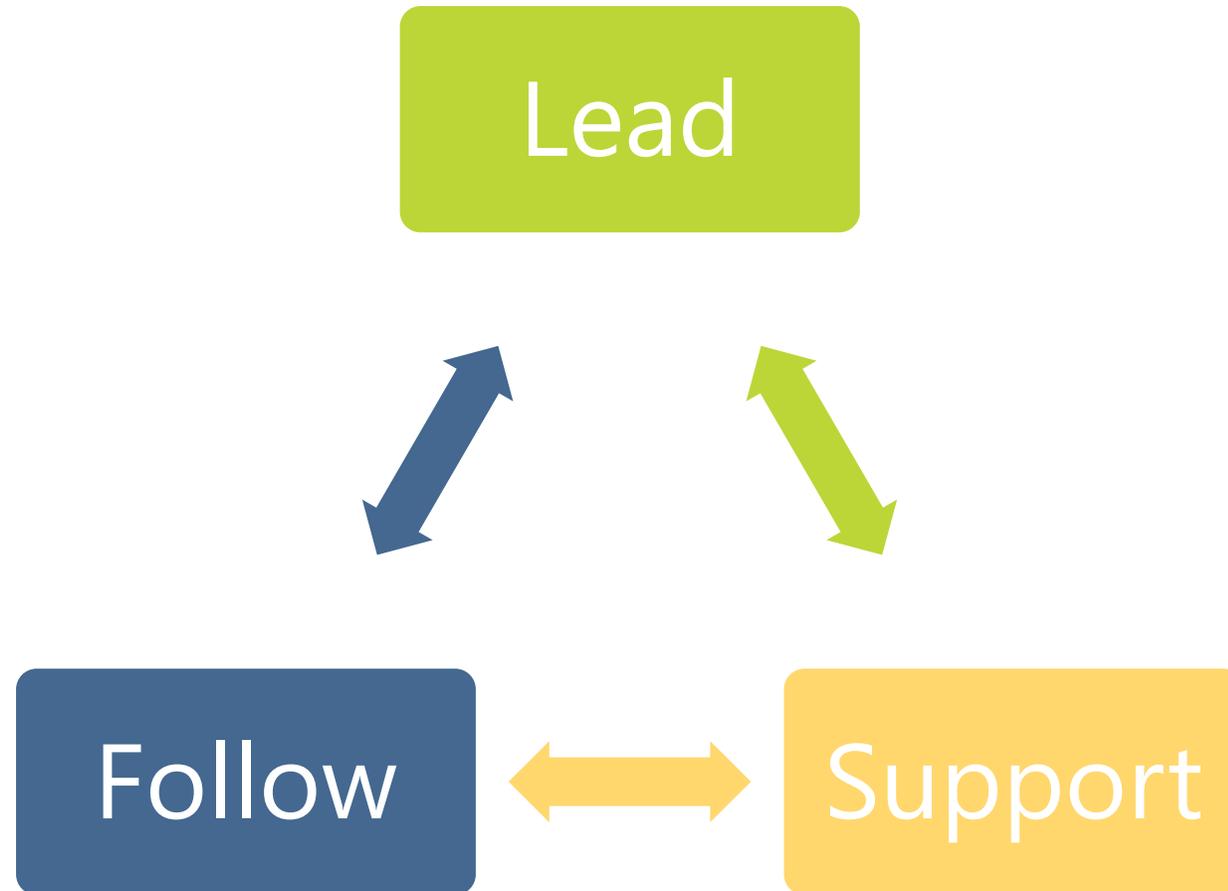
OPPORTUNITIES TO CLARIFY RELATIONSHIP BY STRATEGY ELEMENTS



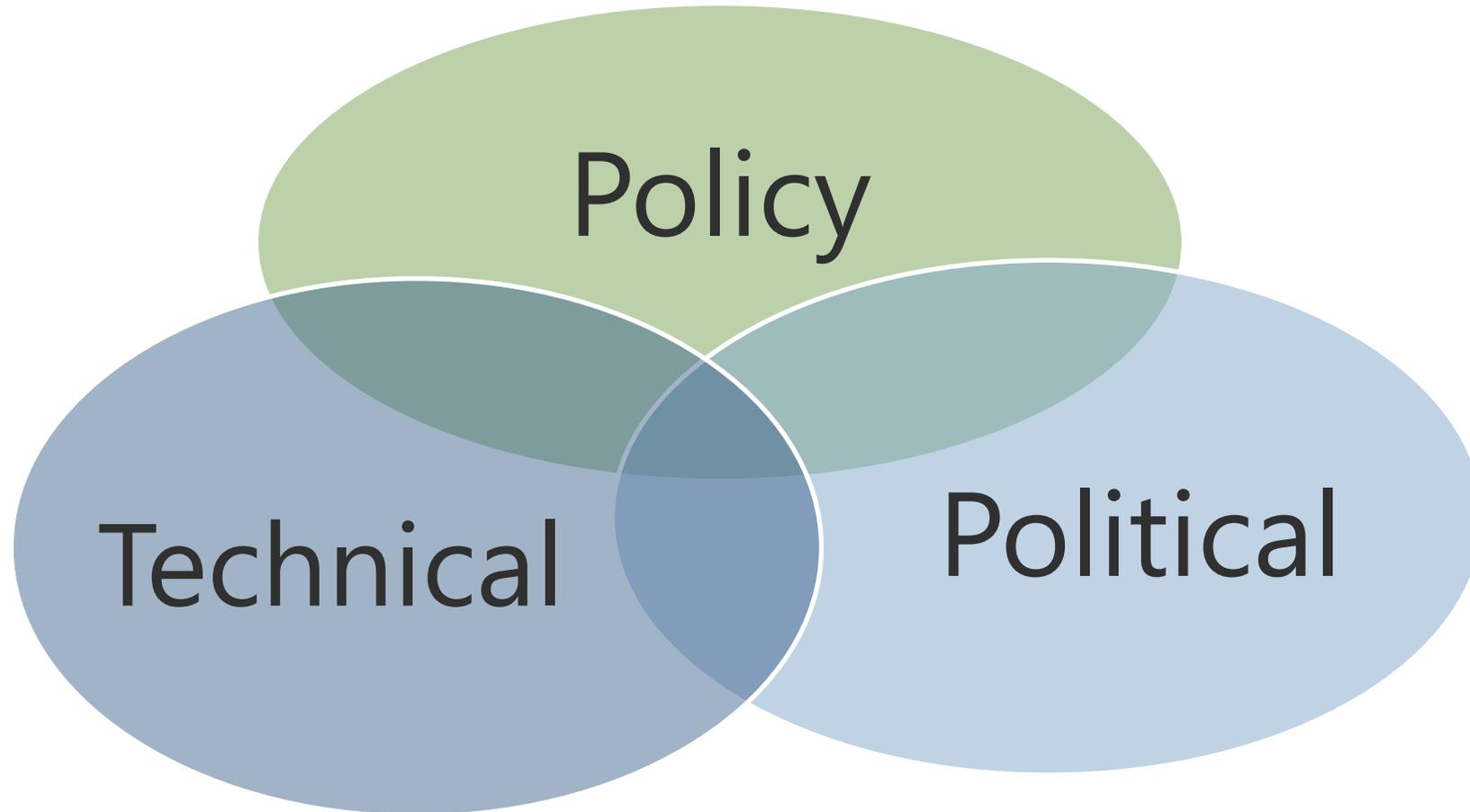
OPPORTUNITIES TO CLARIFY RELATIONSHIP BY SCALE OF PLANNING/PROJECTS



OPPORTUNITIES TO CLARIFY RELATIONSHIP BY AUTHORITIES & CAPACITIES



OPPORTUNITIES TO CLARIFY RELATIONSHIP BY SUBJECT MATTER EXPERTISE



QUESTIONS?

