









#### Who Needs the Info?

- WRIA 6 Lead Entity for Salmon Recovery: Recovery Plan Update
- Island Local Integrating
   Organization: 5-year
   Ecosystem Recovery Plan
- Restoration projects
- Near Term Actions
- Shore Friendly messaging











### Why is this meaningful for Island County DNR?

- 200+ miles of shoreline
- Most restoration projects are in the nearshore
- Large amount of private infrastructure in nearshore

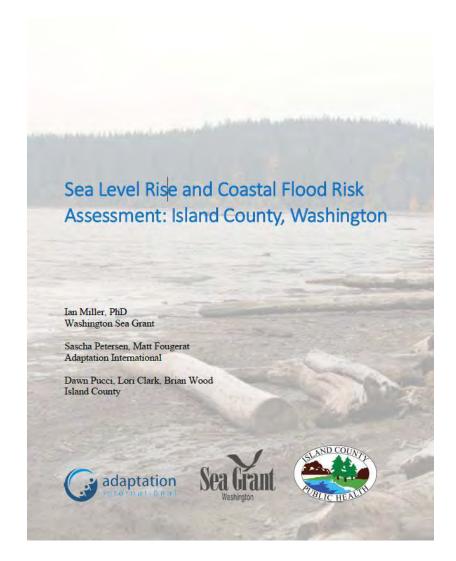
- Restoration planning
- Communication tool
- Use restoration as a tool to achieve resiliency

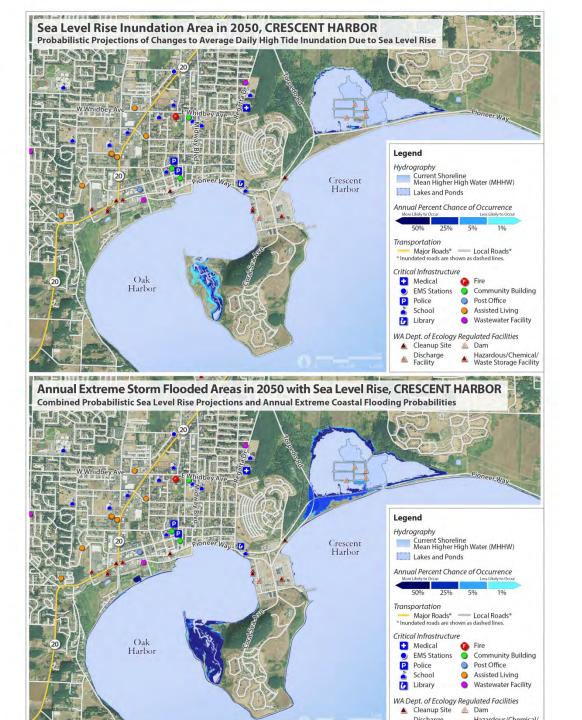


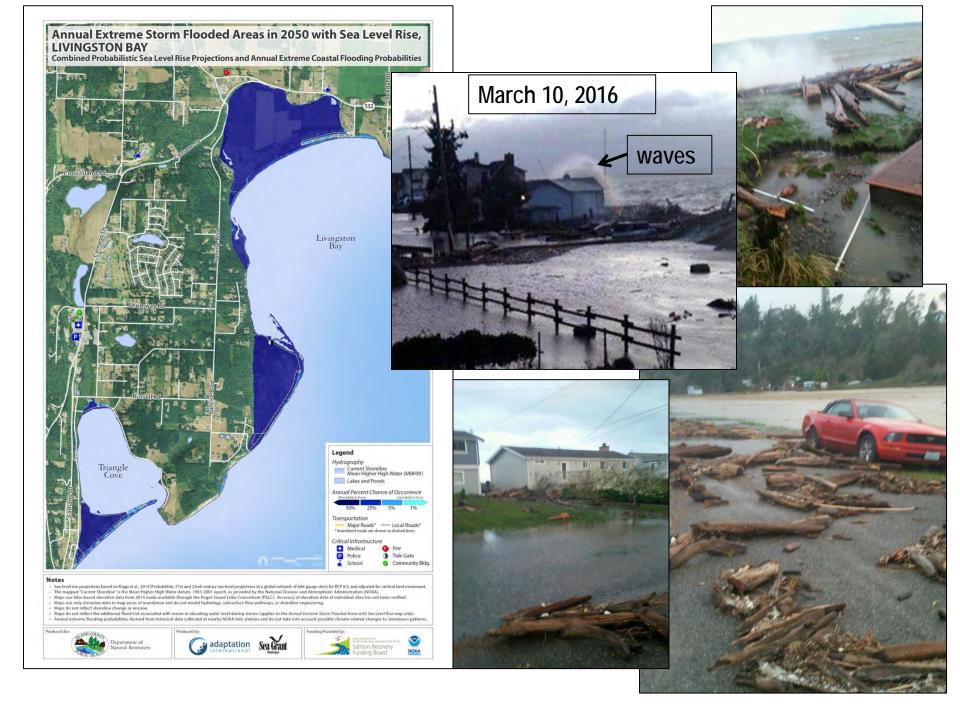


# What we've done in Island County

- Sea Level Rise and Coastal Flood Risk Assessment
- Probabilistic framework
- Levels of risk and certainty
- Incorporates vertical land movement
- Local focus
- Sea Level Rise
- Storm Surge
- Maps and Tables







By the year <u>2050</u>, there is a <u>95</u>% likelihood of an annual flood exceeding <u>2.2</u> ft above current MHHW.

		Probability of Exceedance (RCP8.5)									
YEAR	99.9	99	95	75	50	25	5	1	0.2	0.1	
Current	0.9	1.2	1.5	1.9	2.2	2.6	3.0	3.2	3.4	3.4	
2010	1.0	1.3	1.6	2.0	2.3	2.6	3.1	3.3	3.5	3.5	
2020	1.1	1.4	1.7	2.1	2.4	2.8	3.2	3.5	3.6	3.7	
2030	1.2	1.5	1.8	2.3	2.6	2.9	3.4	3.6	3.8	3.8	
2040	1.3	1.7	2.0	2.4	2.8	3.1	3.6	3.8	4.0	4.1	
2050 ♥	1.5	1.8	2.2	2.6	3.0	3.3	3.8	4.2	4.5	4.7	
2060	1.7	2.0	2.4	2.9	3.2	3.6	4.1	4.5	5.0	5.3	
2070	1.8	2.2	2.6	3.1	3.5	3.9	4.5	5.0	5.8	6.4	
2080	2.0	2.4	2.8	3.4	3.8	4.2	4.9	5.7	6.9	7.7	
2090	2.1	2.5	3.0	3.6	4.1	4.6	5.4	6.4	8.0	9.2	
2100	2.2	2.7	3.2	3.9	4.4	5.0	6.0	7.3	9.3	10.9	
2110	2.4	2.9	3.3	4.1	4.6	5.2	6.3	7.9	10.6	12.0	
2120	2.6	3.1	3.6	4.3	4.9	5.6	7.0	9.0	12.1	14.3	
2130	2.7	3.2	3.7	4.6	5.2	6.0	7.6	10.0	14.0	15.9	
2140	2.6	3.3	3.9	4.8	5.6	6.4	8.4	11.1	15.8	18.0	
2150	2.7	3.3	4.0	5.1	5.9	6.9	9.1	12.4	17.8	20.5	

#### **Effective Communication**



- Trusted source
- For decision-makers: 1-on-1 meetings
- What the maps do and don't say
- Goal of project: what are we trying to restore?
- Timeline for planning
- Phasing options

## **Shoreline Properties**

- Retreat
- Raising house
- Where feasible, natural and soft shore allow for coastal resilience
- Simple steps
  - Moving memorabilia
  - Raising electrical



# What's Next? Washington Coastal Resilience Project

#### **Objectives**

- 1: Fill critical information gaps (probabilistic SLR projections)
- 2: Increase capacity in Washington
  State to support coastal resilience



- **3:** Enhance the resilience of at least three Washington coastal communities through pilot projects (**Island, Tacoma, ESRP Restoration**)
- **4:** Employ targeted and strategic outreach to Washington's coastal communities