



# Building the CoastWise approach to designing climate-resilient tidal road crossings in the Gulf of Maine

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Social Coast 2020







WELCOME TO  
**MAINE**  
The way life should be





# Common Tidal Road Crossing Challenges in Maine



Public safety hazards



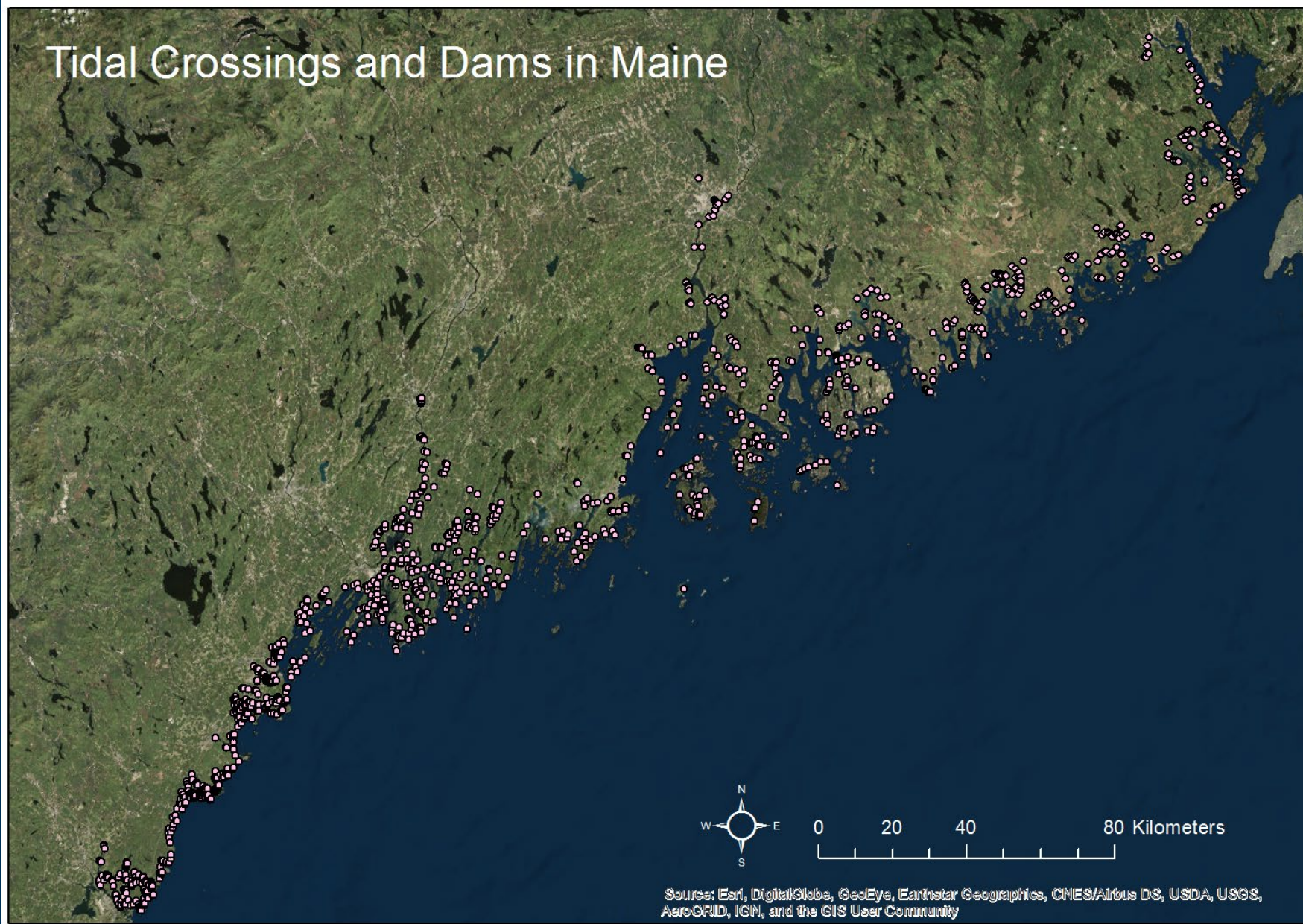
Failing infrastructure



Barriers to aquatic organism passage



## Tidal Crossings and Dams in Maine





“All jurisdictions could benefit from a CoastWise initiative that provides guidelines and principles for improved tidal road crossing design and the outreach to encourage application of those principles”



# The CoastWise Approach

- Voluntary
- Science-based, field-tested
- Climate resilient
- Standardized, but adaptive
- Useful to:
  - Communities
  - Road owners
  - Engineers
  - Restoration practitioners
  - Others



# The CoastWise Approach Project Partners



# Development of The CoastWise Approach

Identify knowledge gaps from road crossing project checklist

Sea Level Rise

Marsh  
Hydrologic  
Modifications

Data  
Requirements

Potential  
Project Goals

Vulnerable  
Species  
Concerns



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Synthesize research to create CoastWise manual

Develop outreach program to publicize the CoastWise approach



# The CoastWise Approach for a Resilient Maine



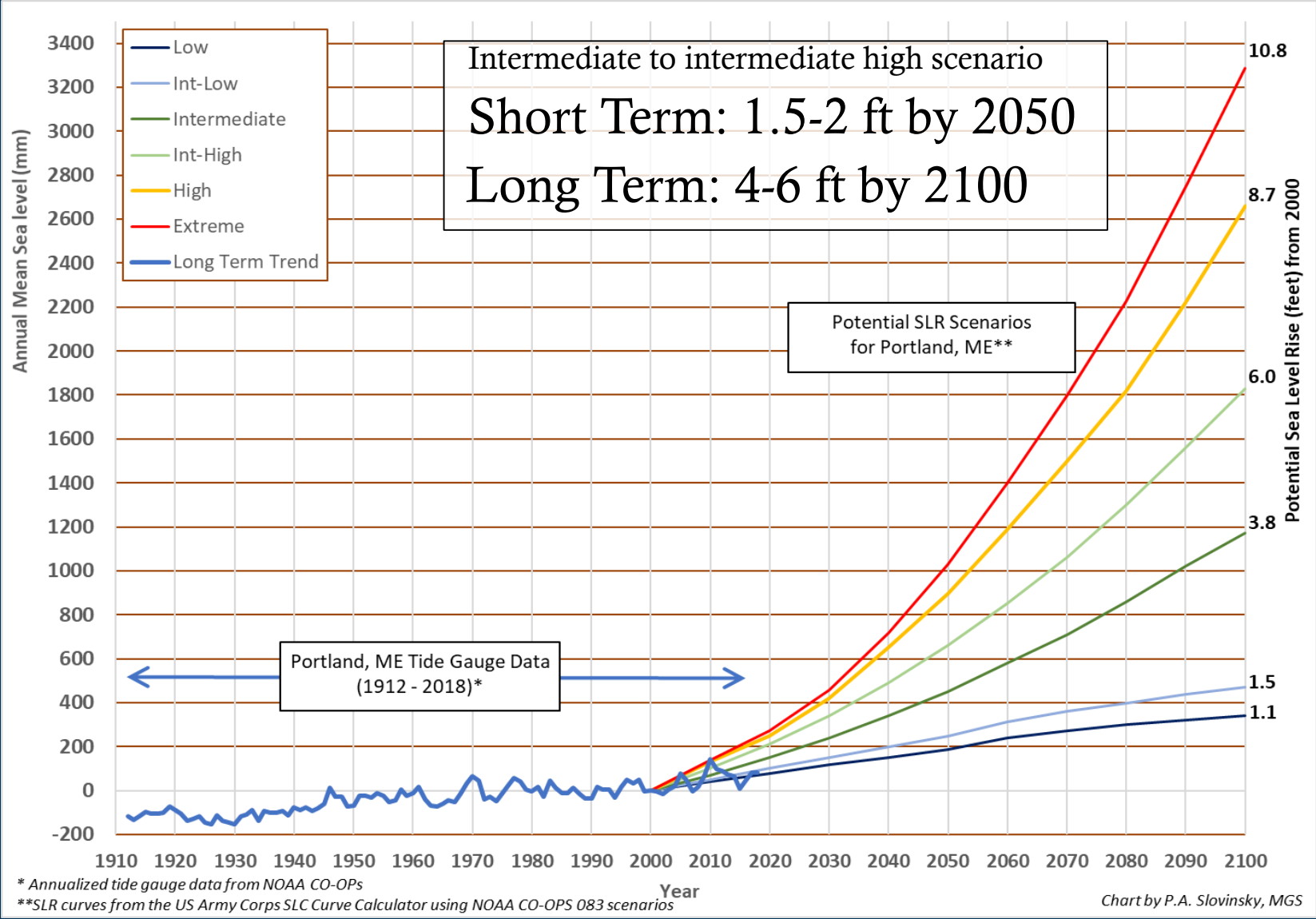


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# Sea Level Rise in Maine



# High Tide and Storm Surge Flooding



Ellen Bartow-Gillies, 2020

