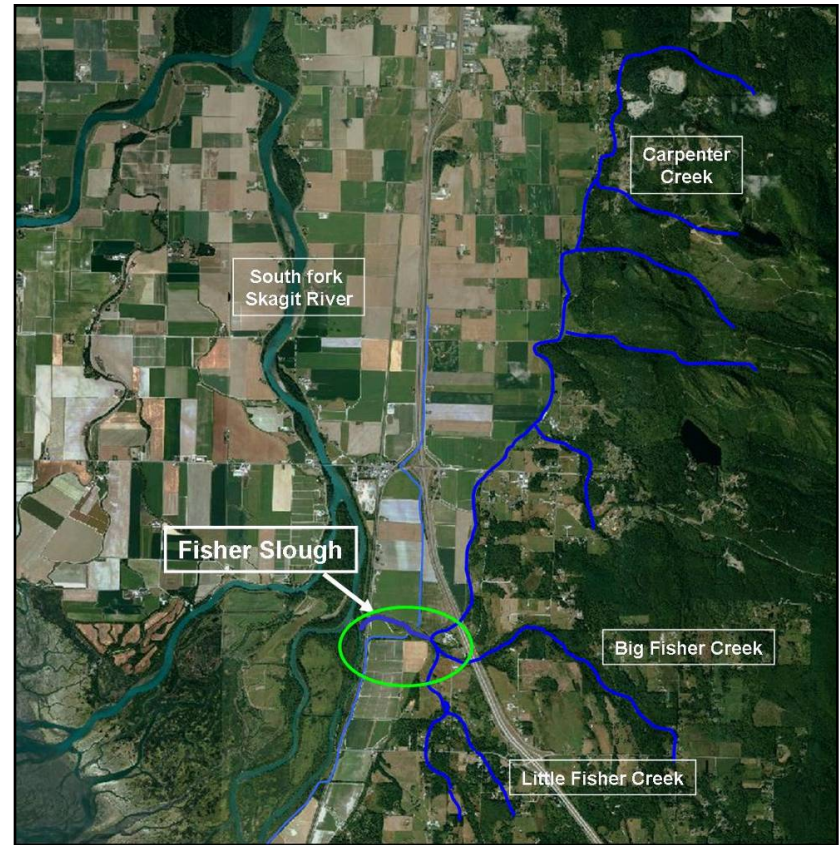


# Integrating Ecological Function Into Floodplain Economies

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# Fisher Slough Project

- 60 acre freshwater tidal marsh restoration project
- On private land
- Equal weight to
  - Salmon recovery
  - Flood protection
- Led by The Nature Conservancy and NOAA
  - Kris Knight and Polly Hicks
- Funded through ARRA

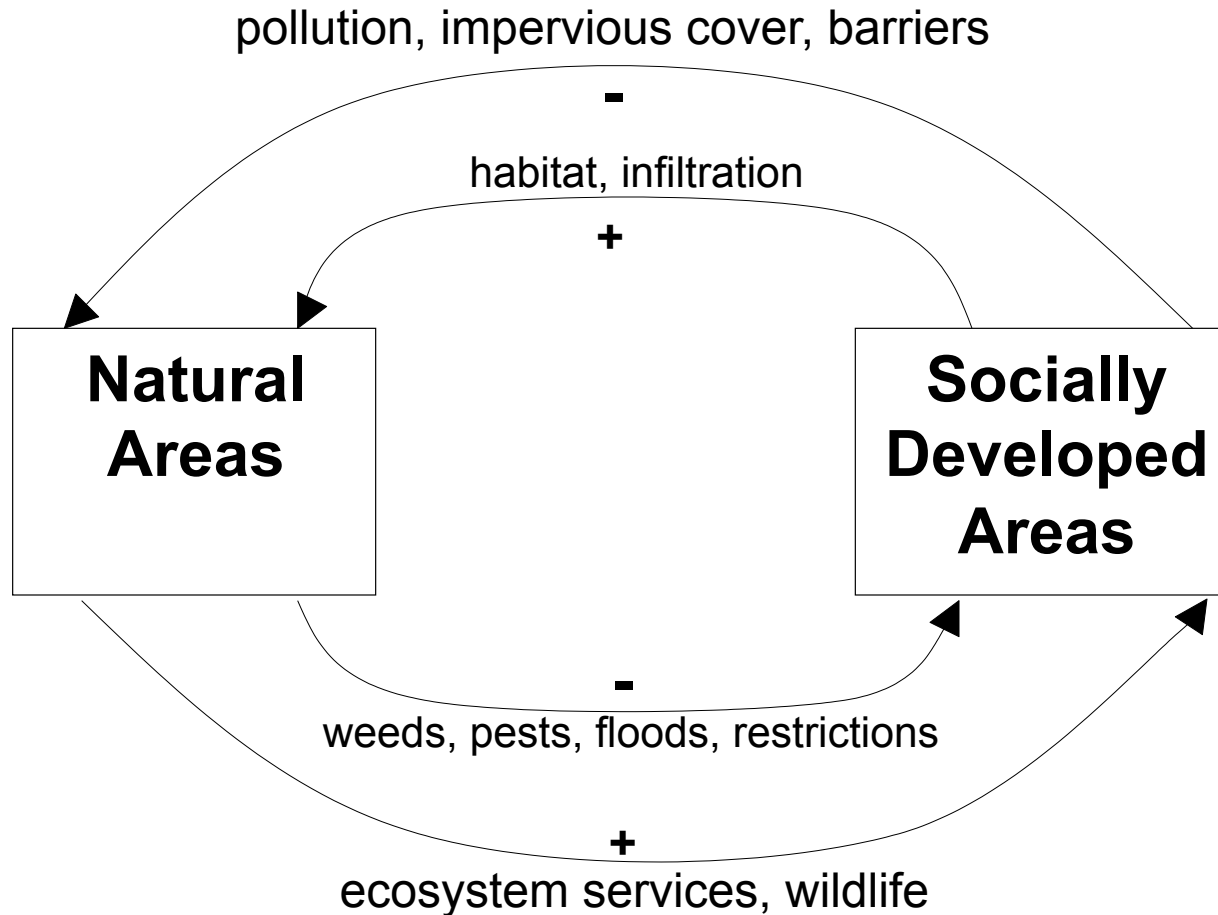


# What are the benefits?

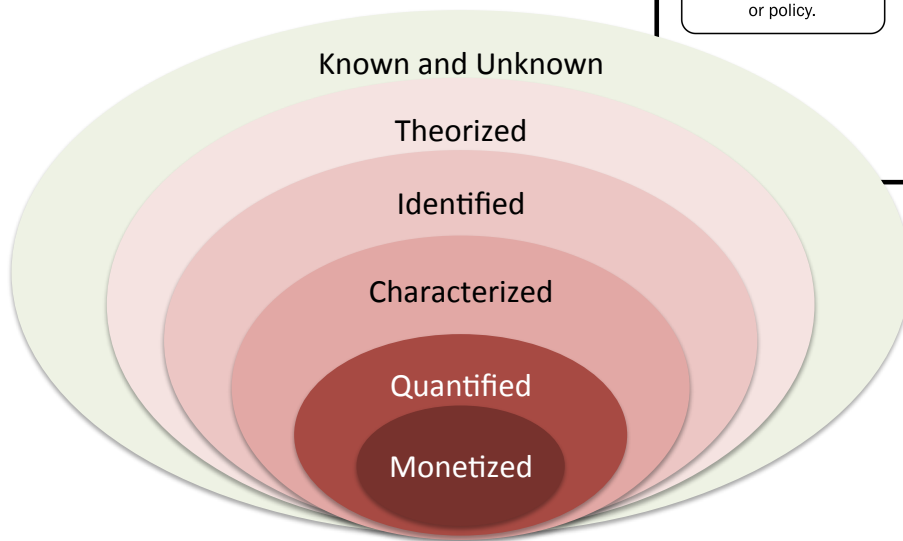
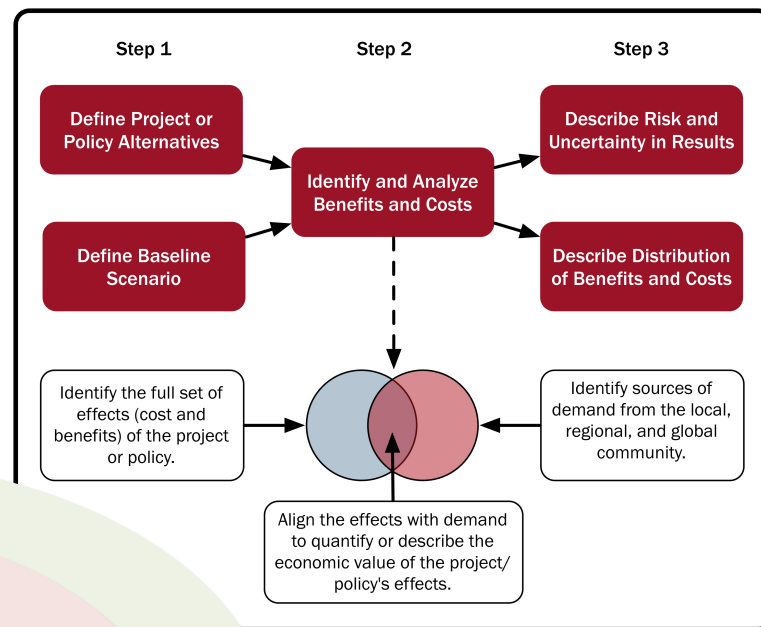
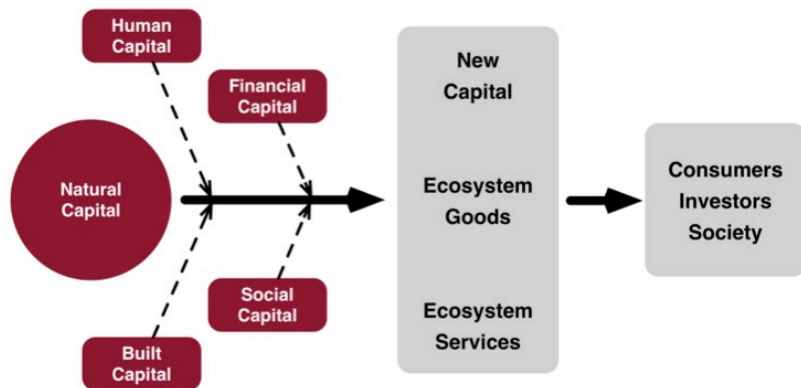


- 60 acres freshwater tidal marsh
- Increased tidal amplitude
- Estimated 16,000 smolts annually
- 47,000 labor hours with over 300 workers
- Additional 250 acre-foot flood storage
- Improved infrastructure

# Interdependence of Natural and Developed Areas

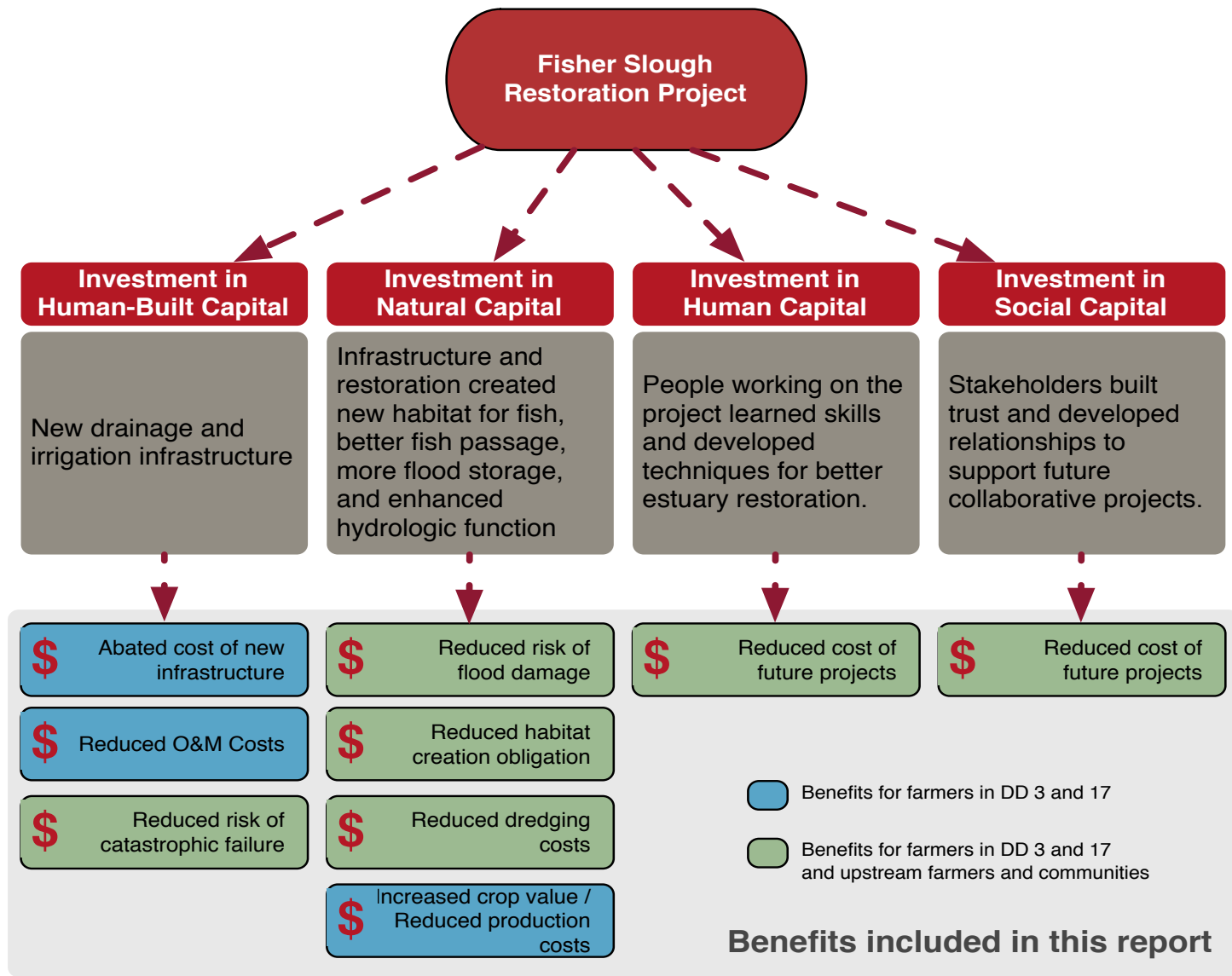


# Valuation Context



# Benefit Targets – Why More Than Fish?

- Avoiding fish vs. people narrative
- Elicit support and cooperation
- Pave way for future collaboration
- Moving from site-scale to landscape scale
- Behaviors and ethics



\$7.7M salmon project = \$9-21M socioeconomic benefits

# Conclusions

- Floodplains are valuable to many efforts
- Addressing limiting factors: point or non-point?
- Valuation means understanding local demands and scarcities
- Incorporating non-ecological objectives might increase long-term floodplain ecological function
  - Positive vs. negative “ecological” multipliers