



A diverse and
sustainable world



IUCN
World
Conservation
Congress
Barcelona 2008

Presentation

**Presentation from the Water Pavilion at the IUCN World
Conservation Congress, Barcelona 2008**

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Human Benefits of Environmental Flows



9 billion living on Earth by 2042

Paradigm shift: Water for people and nature

Environmental flows

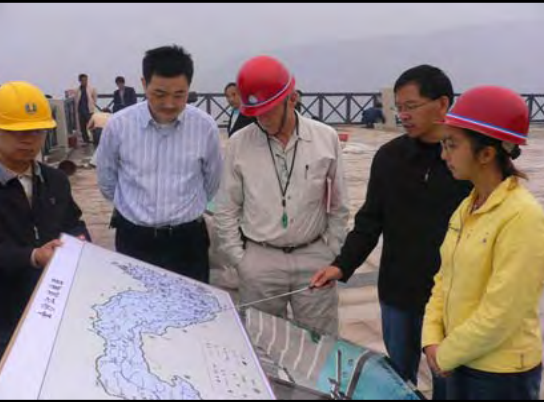
Human Benefits of Environmental Flows

- 50 years of freshwater investment
- Over 600 freshwater projects
- 10 years of efforts in e-flows
- 30 projects – 4 continents
- Partnerships with water managers
- Tools, methods, training





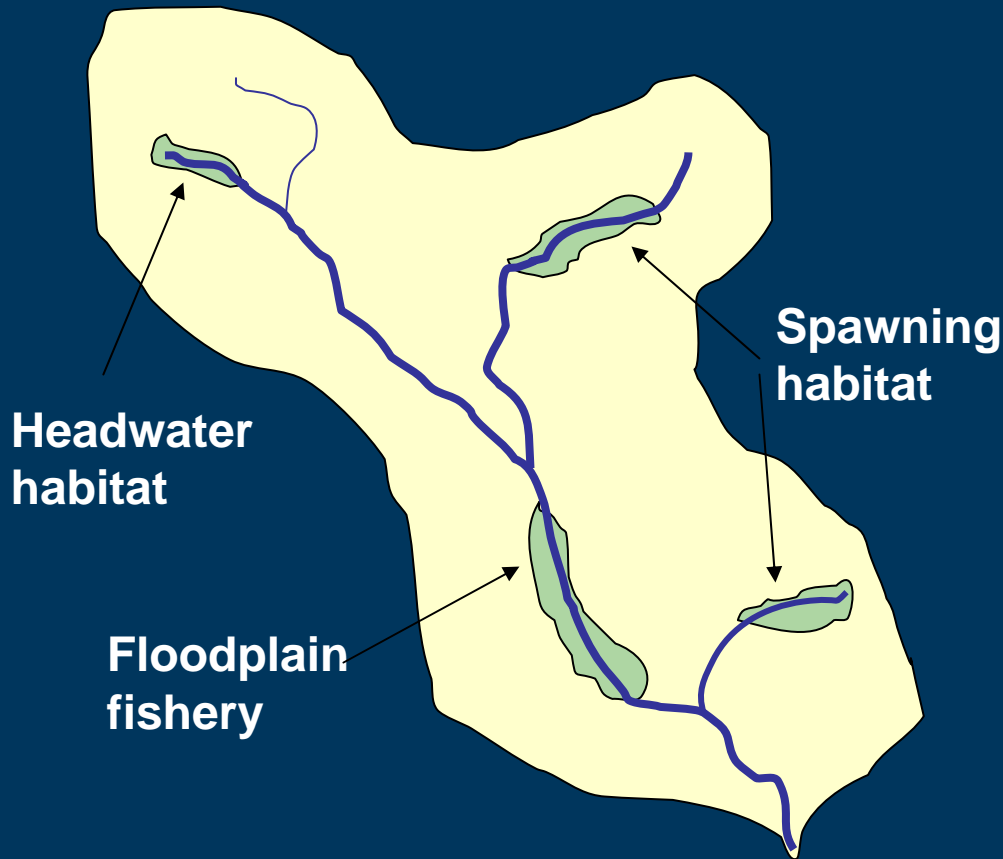
Example: Energy production



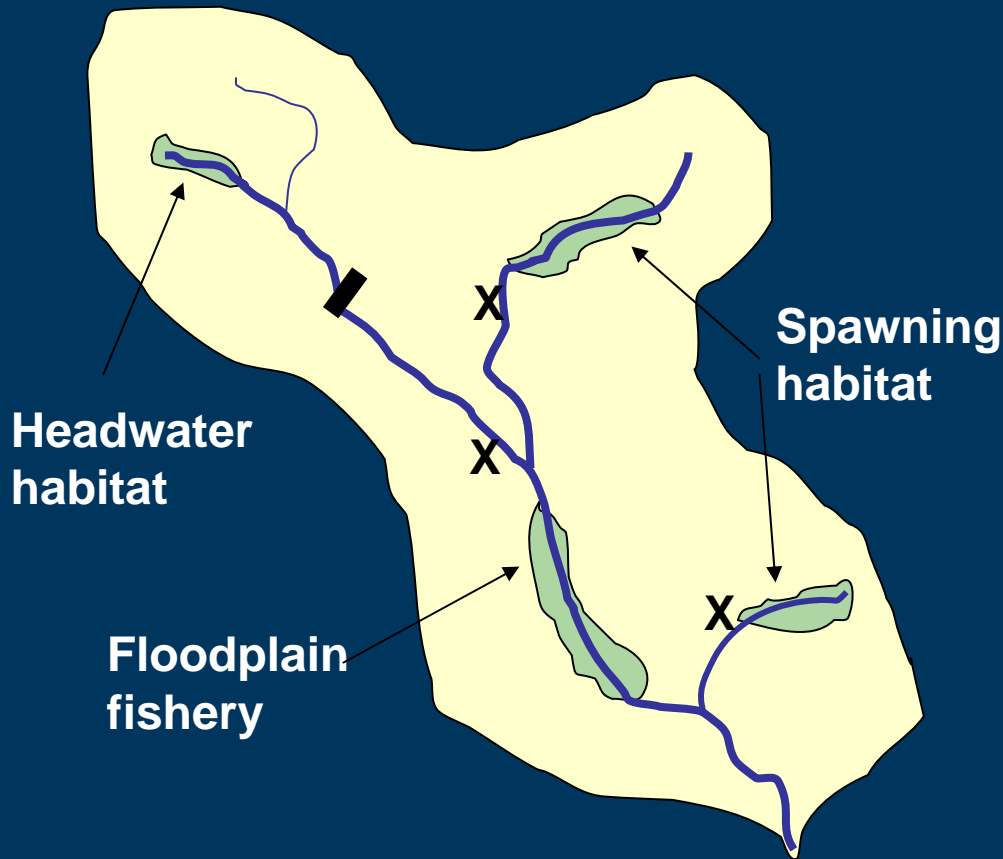
Benefits from scale



Priority freshwater priorities

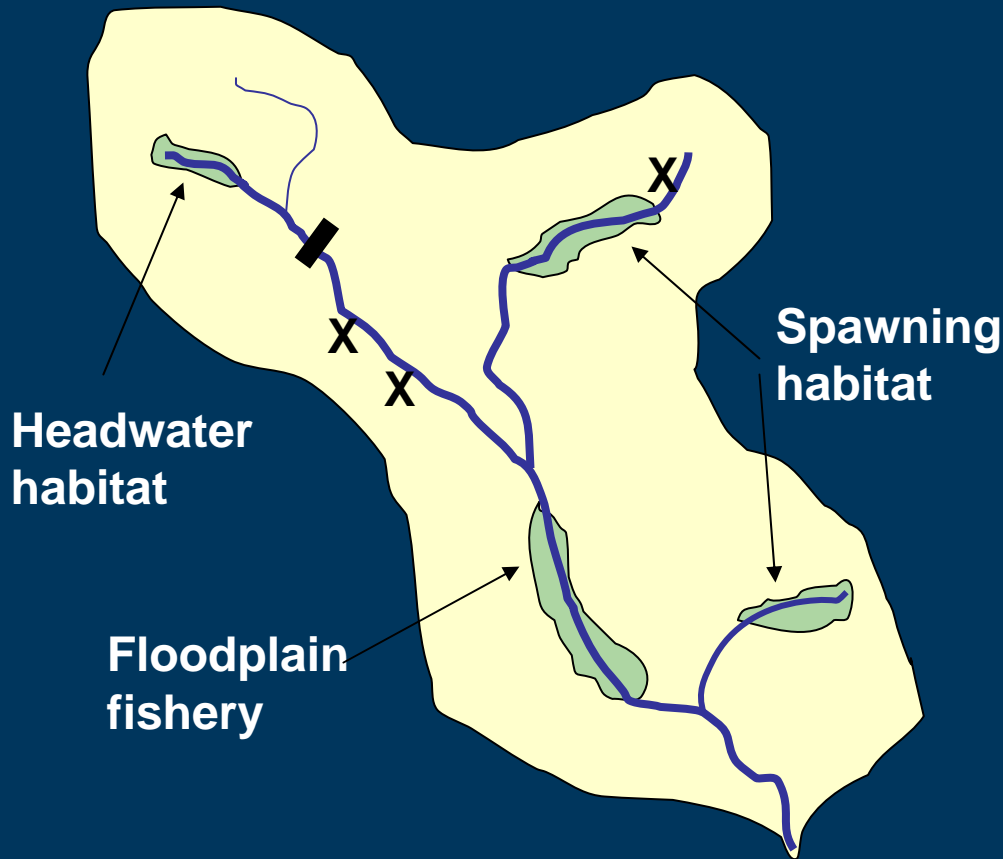


Priority freshwater priorities and dams



Human Benefits of Environmental Flows

Priority freshwater priorities and dams optimized for ecosystem health



Human Benefits of Environmental Flows

Energy

Medway Dam (expanded)

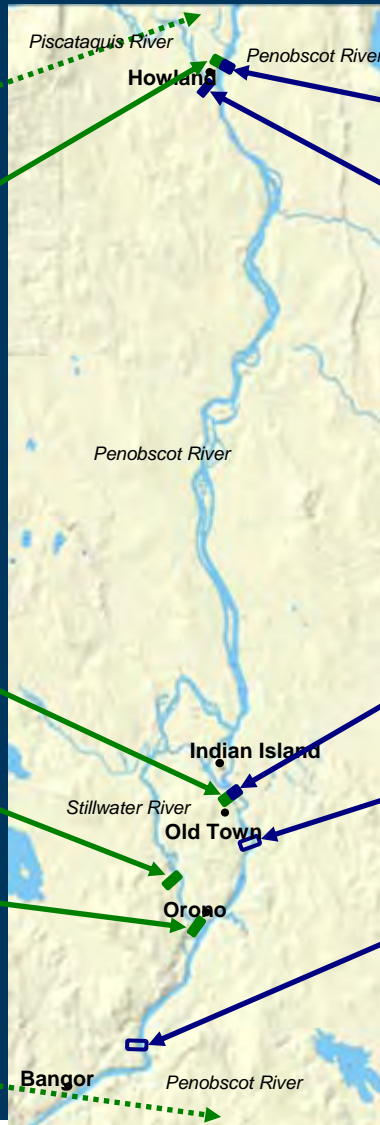
West Enfield Dam

Milford Dam

Stillwater Dam (expanded)

Orono Dam (added)

Ellsworth Dam (Union River)



Fisheries

West Enfield Dam
Existing Fish Passage

Howland Dam
Decommission / Innovative Fish Bypass

Milford Dam
New Upstream Fish Passage

Great Works Dam
Decommission / Removal

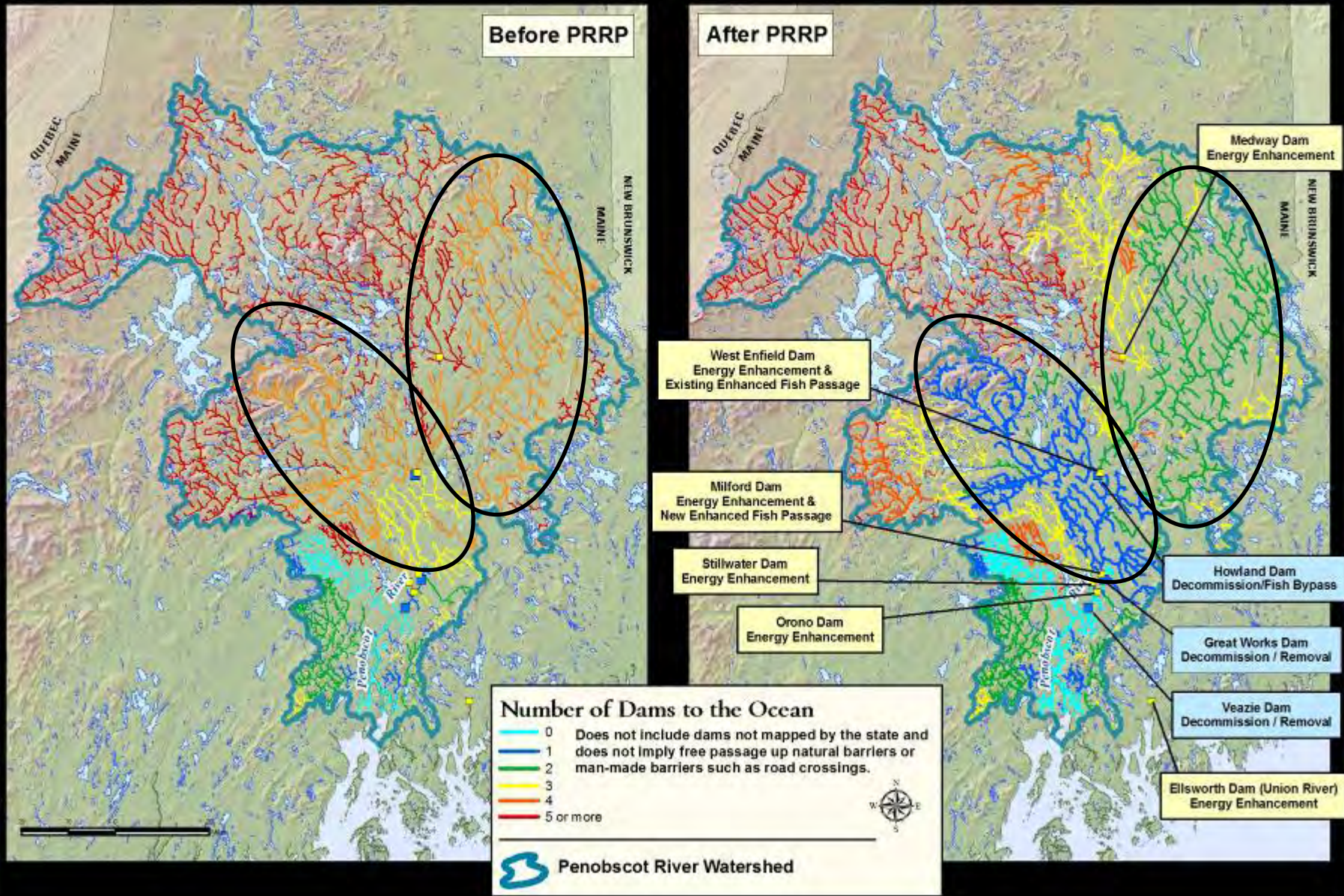
Veazie Dam
Decommission / Removal

Penobscot River



Penobscot River and Tributaries

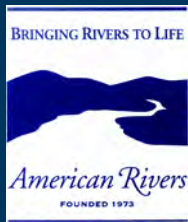
Number of Dams Downstream to get to or from the ocean after the PRRP is complete



Success requires . . .



Penobscot River
Restoration Trust



- **Penobscot River**
- Nature: Ecosystem health / 11 migratory fish access to 653 kilometers of river
- People: Economic and social benefits including to Penobscot Indian Nation and continued energy production