both worlds rapid change & high challenges trajectory changes relative to present day Slightly less spring snow Slightly warmer rivers ss sea ice Much less spring snow cover Slightly lower productivity Much warmer rivers No sea ice Less spring snow Much lower marine productivity Warmer rivers 75% less sea ice Lower marine productivity 4-6 MHWs/decade 2-4 MHWs/decade 6-9 MHWs/decade (50% cat5) Moderate warming Moderately increased variability More climate shocks Very high warming Higher variability Many more climate shocks Very high risk future Medium risk future Slightly warmer conditions Similar variability Occasional climate shocks Lowest risk future Moderate emissions Medium predictability Lower emissions Higher predictability High emissions Lower predictability Ecosystem drivers included Ecosystem impacts included Cross-sector cooperation Ecosystem drivers included Ecosystem impacts included Ecosystem drivers included Siloed decision making Diverse knowledge Managing fisheries from a whole ecosystem perspective Taking a whole ecosystem perspective to mańage all resources management Ecosystem Based Ecosystem Approach to Fisheries Management Fisheries Management **Ecosystem Based Management** 

Current

**Best of** 

EBM &

**Siloed management** 

## Future Climate Change Scenarios