Stressor Extreme climatic events Uncertainty (ecological) Sp. distributional shifts Uncertainty (social) Ocean acidification Regulation change Market changes Stock decline Consolidation Globalization Adaptation options: Research Investment in new gear or innovations **Ecological** Adaptation programs Review programs / regulations **Enforcement** Social Investments to improve value chain Coordination and organization Dynamic ocean management Institutional Education Diversify livelihoods Market diversification **MPAs** Reductions in other stressors Restoration Disaster funds Disaster risk management Financial assistance or investment for entering, Context Insurance CC International agreements Ν **Enforcement** Research Score Review programs / regulations Investment in new gear or innovations 5 Coordination and organization 10 Transition out of fisheries 20 Financial assistance or investment for entering, **MPAs** International agreements Community-based rights Disaster risk management Cooperatives Disaster funds Education Individual property rights Adaptation programs Diversify livelihoods Dynamic ocean management Economic/community development Financial assistance to help survive bad fishing Financial assistance to help transition out of fish Investments to improve value chain Permit/license/quota banks