

Opportunities and Needs

Gerard DiNardo
NOAA Fisheries, PIFSC





Needs – National Perspective

- **Sustained National Stock Assessment Training Program**
 - Vision (What do we want to achieve)
 - Implementation (road shows not national workshops)
- **Next Generation Stock Assessment Models**
 - EAFM (incorporates habitat & climate change)
 - Metapopulation
- **Expand and promote intra- and inter-agency partnerships**
 - NOS-NMFS, CRCP-NMFS, SEFSC-PIFSC, PSD-SAP
- **Administrative Relief**
 - Need to be smarter
- **Programmatic Feedback Loops**
 - Metrics for success or failure
- **Cost-Benefit Analysis of a International Stock Assessment Training Program** – the demand is high and so are the payoffs
- **Prioritization of Research** – More and more and more with less is a recipe for failure



Needs – Local Perspective

- **Sustained Funding to Support F-I Insular Surveys in the PIR.**
- **Sustained Funding to Support International Agreements in the Pacific (RFMOs & RFOs) – beyond an Atlantic-centric view point.**
- **Staff to Conduct, and Data to Support, Resource Surveys & Stock Assessments – particularly Insular**
- **Administrative Relief**
- **Economic Analyses to Interpret CPUE and Fisherman Behavior**
- **Prioritization of Research – assessing every species is inefficient**
 - Understand goals (utilization, protectionism, cultural)
 - Strive for time series



Opportunities

- **Capacity Building (training, technological & intellectual transfer)**
 - Visiting scientists (NTU, CAFS, NRIFSF)
 - Mentoring (UH, HPU, Univ. of Miami)
 - Collaborations (UH, UC-Santa Cruz, NTU, NTOU, SHOU, Univ. of Miami, VIMS, PNU)
- **Emerging and Continued Partnerships**
 - JIMAR, SEFSC, SWFSC, NWFSC, S&T
- **Leverage Expanding Technologies to Facilitate Data Collection**
 - Apps for constituents
 - Automated image analysis
- **Cooperative Research – Efficient**
 - Tagging (International billfish tagging program, bottomfish)
 - Biosampling – random and directed (fecundity, growth, etc.)
- **Coral Reef Fish Stock Assessment Initiative**
 - Modeling (data mining and integration)
- **Climate Change**
 - PICES
 - Climate Change Vulnerability Workshop – application of Vulnerability Assessment Tool



MAHALO