

# **2002 RVTEC Meeting**

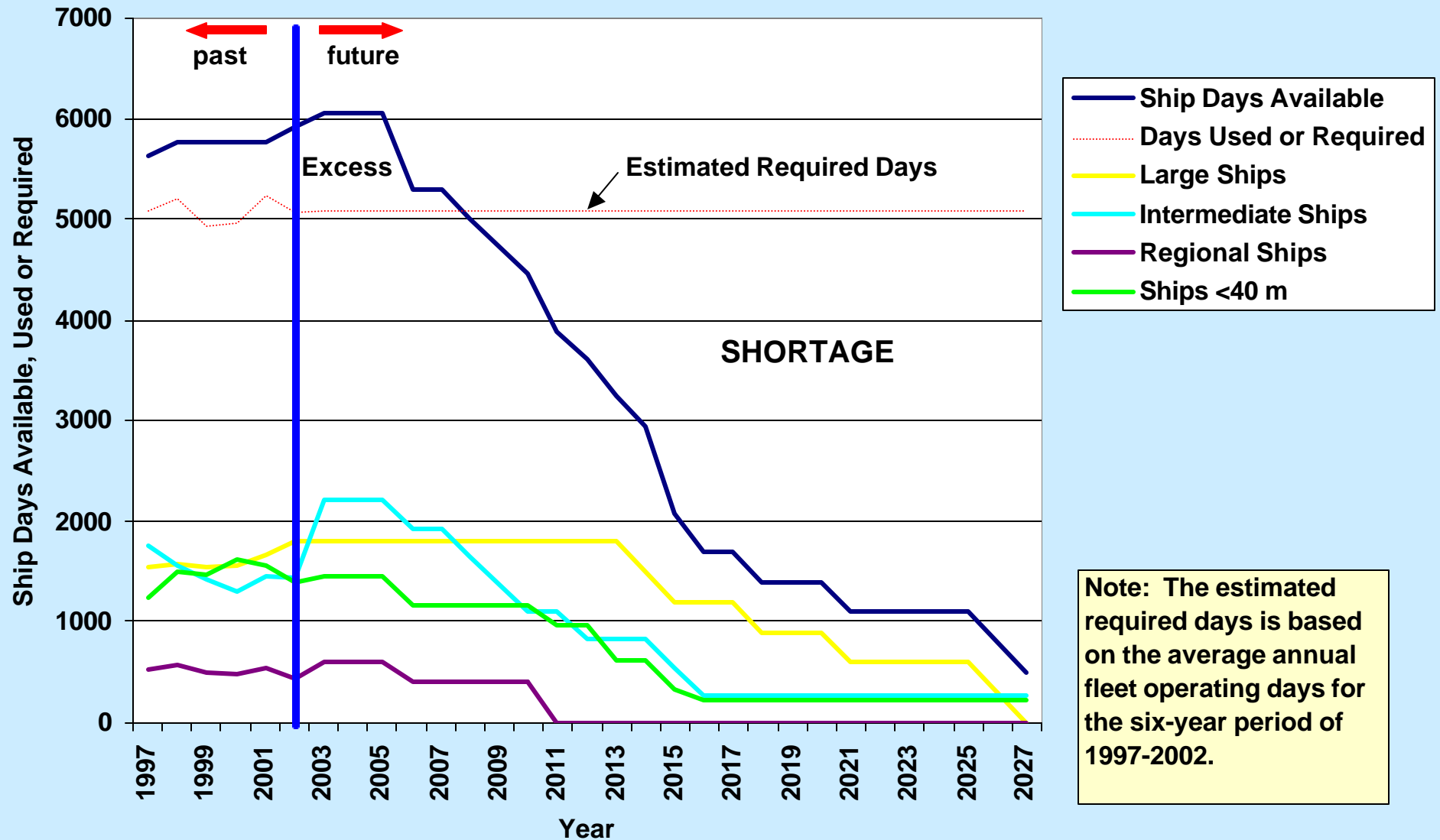
## **Fleet Renewal – Implementation of Plan**



**November 12-14, 2002**  
**Honolulu, Hawaii**

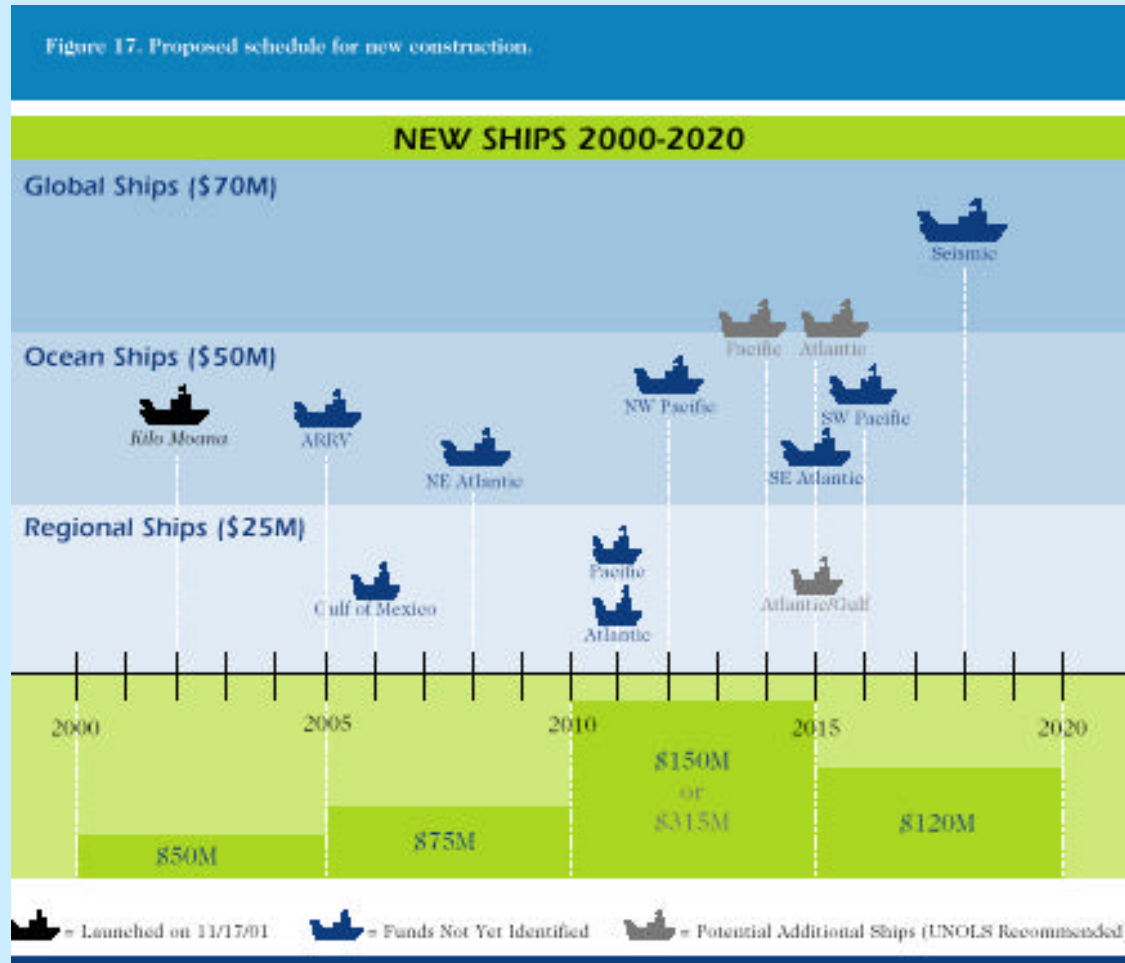


# The Need For Renewal



# The Ship Construction Schedule

Figure 17. Proposed schedule for new construction.

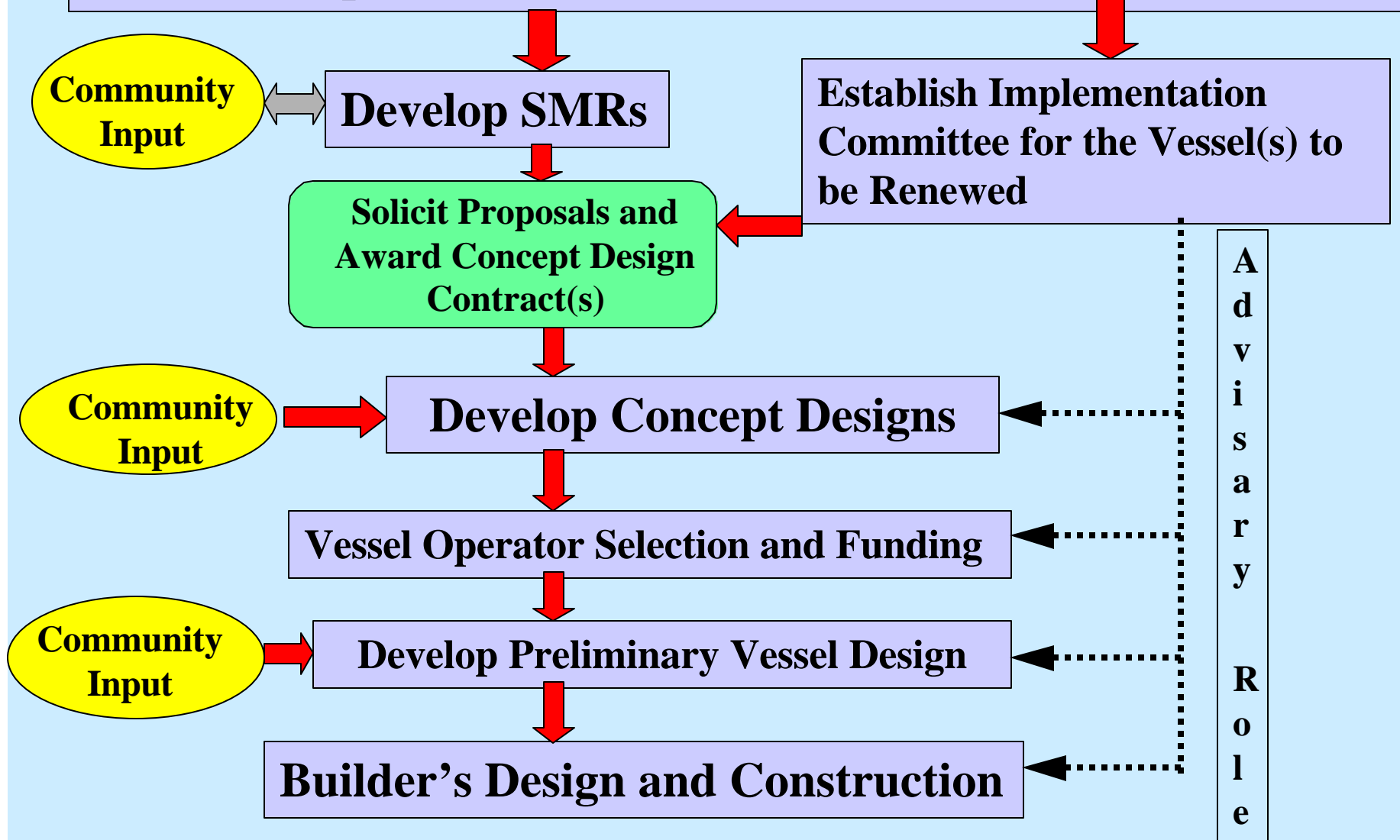


**Blue ships:** FOFC recommends. Fleet census = -4

**Additional gray ships:** UNOLS recommends. Fleet census = -1

# FIC Implementation Plan – A Roadmap

## UNOLS Ship Renewal Process – Introduction and FIC's Role



# Science Mission Requirements (SMRs)

- **Ocean Class Workshop held in July**

- Pre-meeting survey – feedback from over 60 people
- Attended by Science users, ship operators, marine tech, NavalArchitect, and agency reps

- **Regional Class Workshop held in August**

- Pre-meeting survey – feedback from over 60 people
- Attended by Science users, ship operators, and agency reps

- **SMRs have been drafted for both classes with input from Steering Committees, Council, FIC, workshop participants.**

# SMR's Continued

- **SMRS drafts are available** on the UNOLS website for community input:
  - Ocean Class:  
<http://www.unols.org/fic/ocean/draftOCSMR.html>
  - Regional Class:  
<http://www.unols.org/fic/regional/draftRCSMR.html>
- **Some feedback has been received**
- **SMRs will be revised** based on feedback and will be available at the UNOLS Booth during AGU.
- **SMRs finalized by late 2002/early 2003**

# Conceptual Designs – UNOLS

## Recommendations

1. Broad community review/input to the Concept Design phase is recommended.
2. Concept designs, preliminary designs and detailed construction designs should be based on SMRs.
3. Multiple concept design efforts are recommended.
4. A peer reviewed, competitive selection process should be used to base Conceptual Design awards.
5. All proposals should be required to include a naval architect, a science advisory committee and a formal process for community wide review.
6. Operator selection should be well thought out, carefully planned and executed.
7. Community review and input should be an element in all stages of the fleet renewal process

# SMR Parameters

- Accommodations and Habitability
- Operational Characteristics
- Over-the-side and weight handling
- Science working spaces
- Science and shipboard systems
- Regulatory Issues
- Construction, operation & maintenance



# CAPE HENLOPEN Replacment

## Preliminary Design:

Specification and drawings ready for bid by early 2003.

- Shipyard selected mid-2003 for “Final” design phase.
- Begin cutting steel in mid-2004 (Perhaps early 2004).
- Delivery/Sea Trials in 2005.



# Science Review

## RVCH Replacement Vessel

- DRVC meeting held September 18th – Focus primarily on details/arrangement of labs, aft deck, and van connection with full scale mock-up.
- Numerous arrangement improvements made!
- Followed by FIC review (~November) – digital photos and written comments from DRVC meeting.
- “Final” Science review after yard selection and before construction.

# DRVC Meeting

September 2002

## Review of Full Scale Mock-Up



*Wet Lab Review: Dr. David Kirchman Dr. Tom Boyd,  
Dr. Rob Sherrell,, and Jared Boyd (Bay Marine)*

*DYNACON Group on "aft deck"*



# DRVC Meeting

September 2002

## Review of Full Scale Mock-Up



*“Dry Lab”*

*Wrap-up discussion on “aft deck”: Capt. Lee Black, Bob Henry (Bay Marine), Dr. David Burdige, Capt. Matt Hawkins, Jared Boyd (Bay Marine), Tim Deering (Technician)*

