

# Active Source Science Mission Requirements Survey and Discussion

MSROC Dec 11, 2022



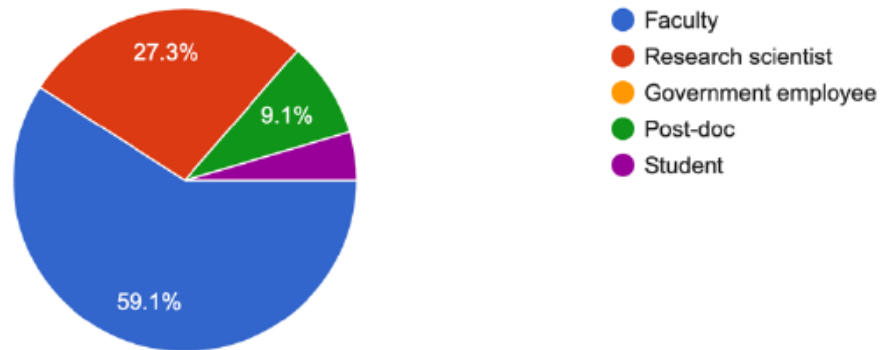
# Survey Objectives and Background

- NSF/LDEO requested feedback from our community regarding future active source platform
- Ad hoc committee: Shuoshuo Han, Andrew Gase, Nathan Bangs, Lindsay Worthington
- Open for comment for three weeks in July/Aug 2022
- 22 respondents

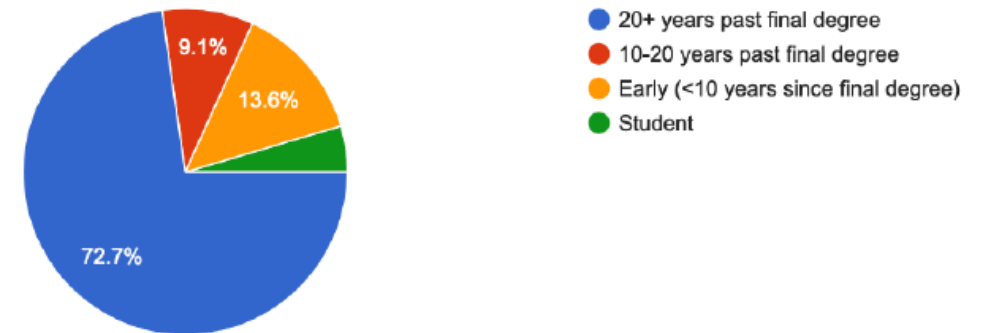
The survey is *one piece* of feedback for LDEO/NSF and the hope is to spark discussion (like...right now!)

# Survey Respondents

Position type:  
22 responses



Career Stage:  
22 responses

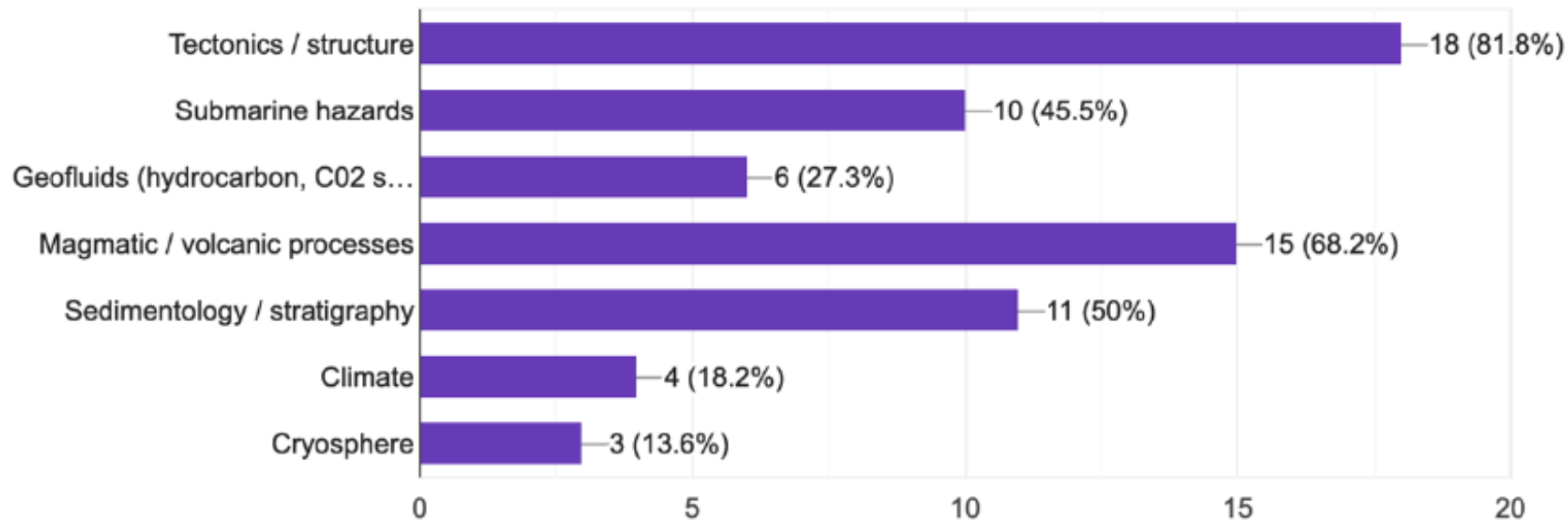


Most respondents are faculty or research scientists. Demographics skewed towards senior researchers.

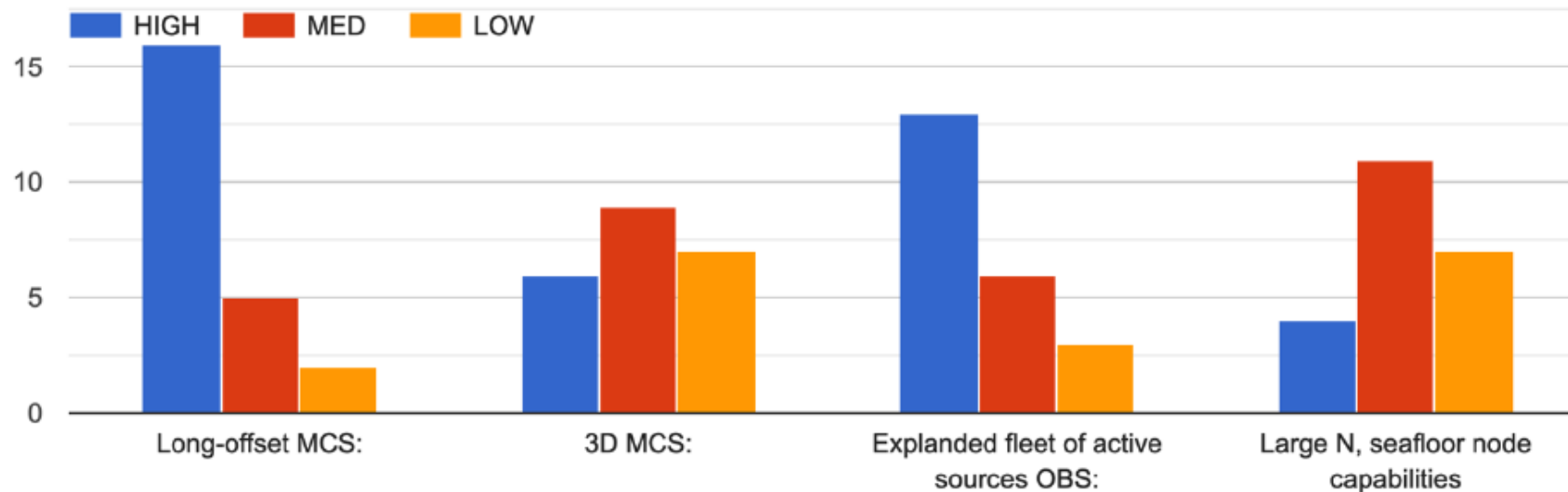
# Types of science addressed by active source facilities

Choose the general types of questions you have addressed or will address using seismic data  
(select all that apply):

22 responses



# Priorities of survey respondents



Multiple comments in support of more innovative work with 3d streamers and OBN; Concerns that progress in crustal imaging will stall if without adopting new technologies

For areas currently covered by 2d, 3d is the top priority

“New advances in crustal-scale studies require a combination of long-streamer and large N, closely spaced seafloor instruments”

# Food for Thought and Discussion

- What improvements to active source facilities are needed?
- Are there improvements/needs that have not been widely discussed?
- What are barriers to pursuing exciting science and how to overcome?
- How to engage larger community and get additional feedback?