

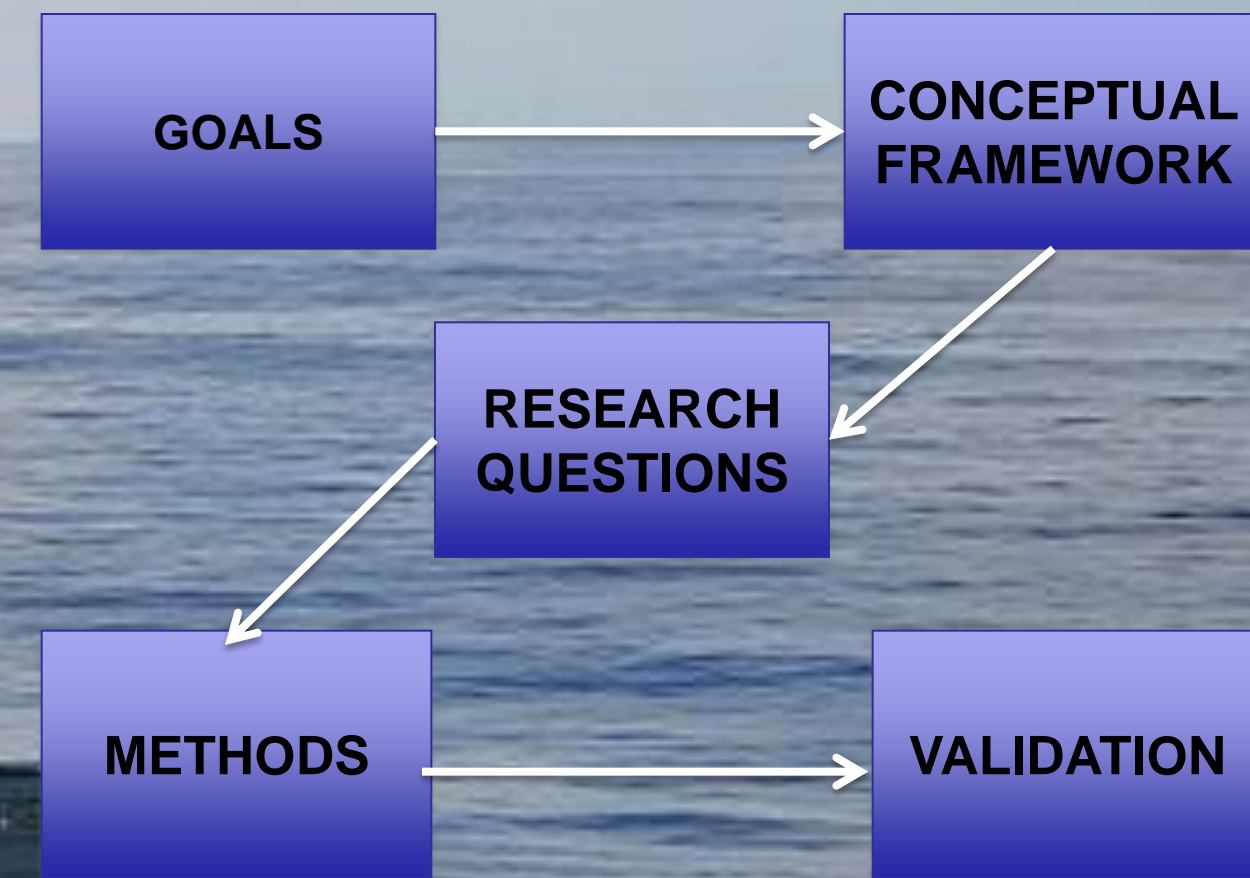


A QUALITATIVE STUDY IN AFFORDABILITY: VIRGINIA-CLASS AND SAN ANTONIO-CLASS PROGRAMS

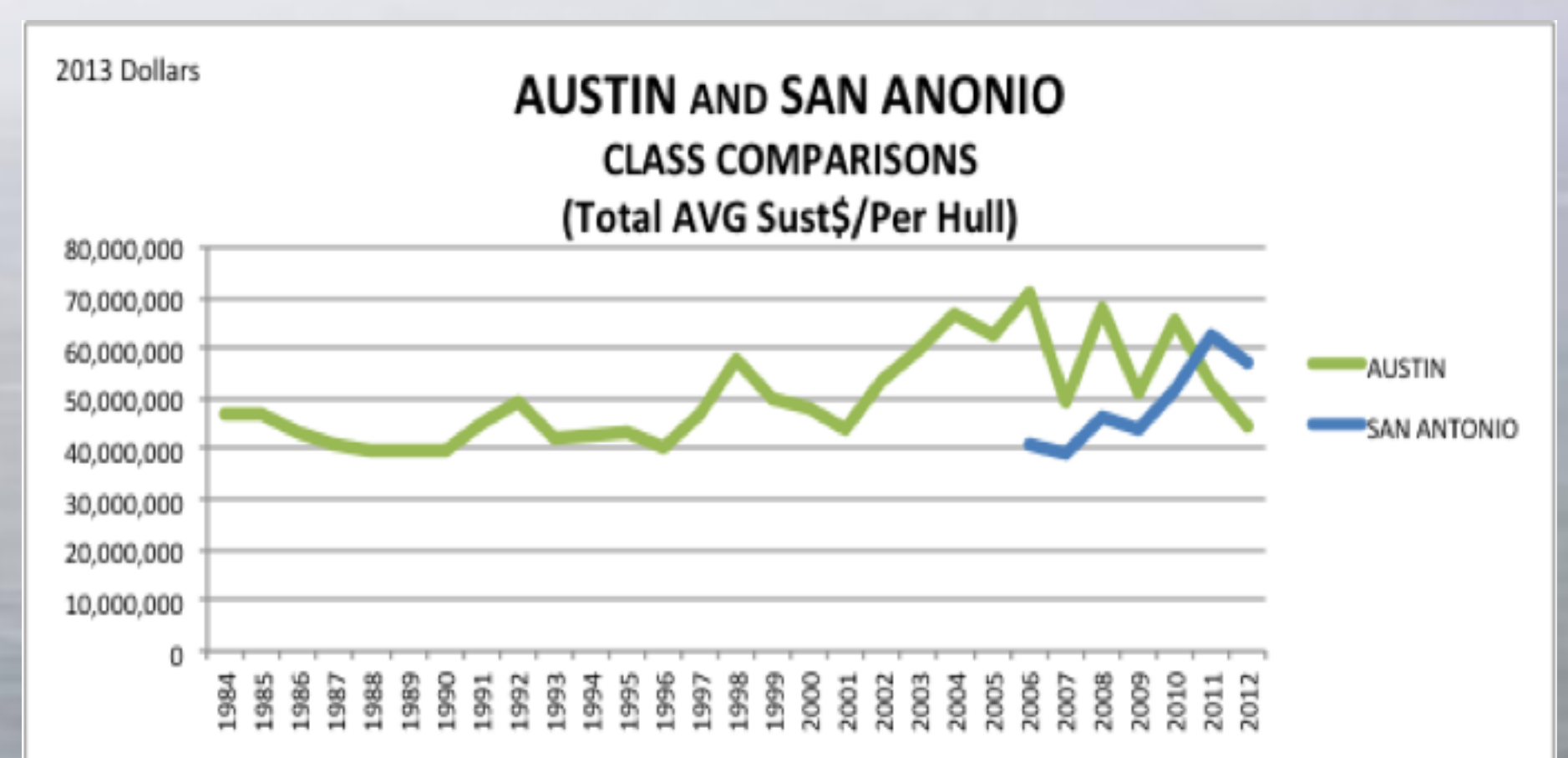
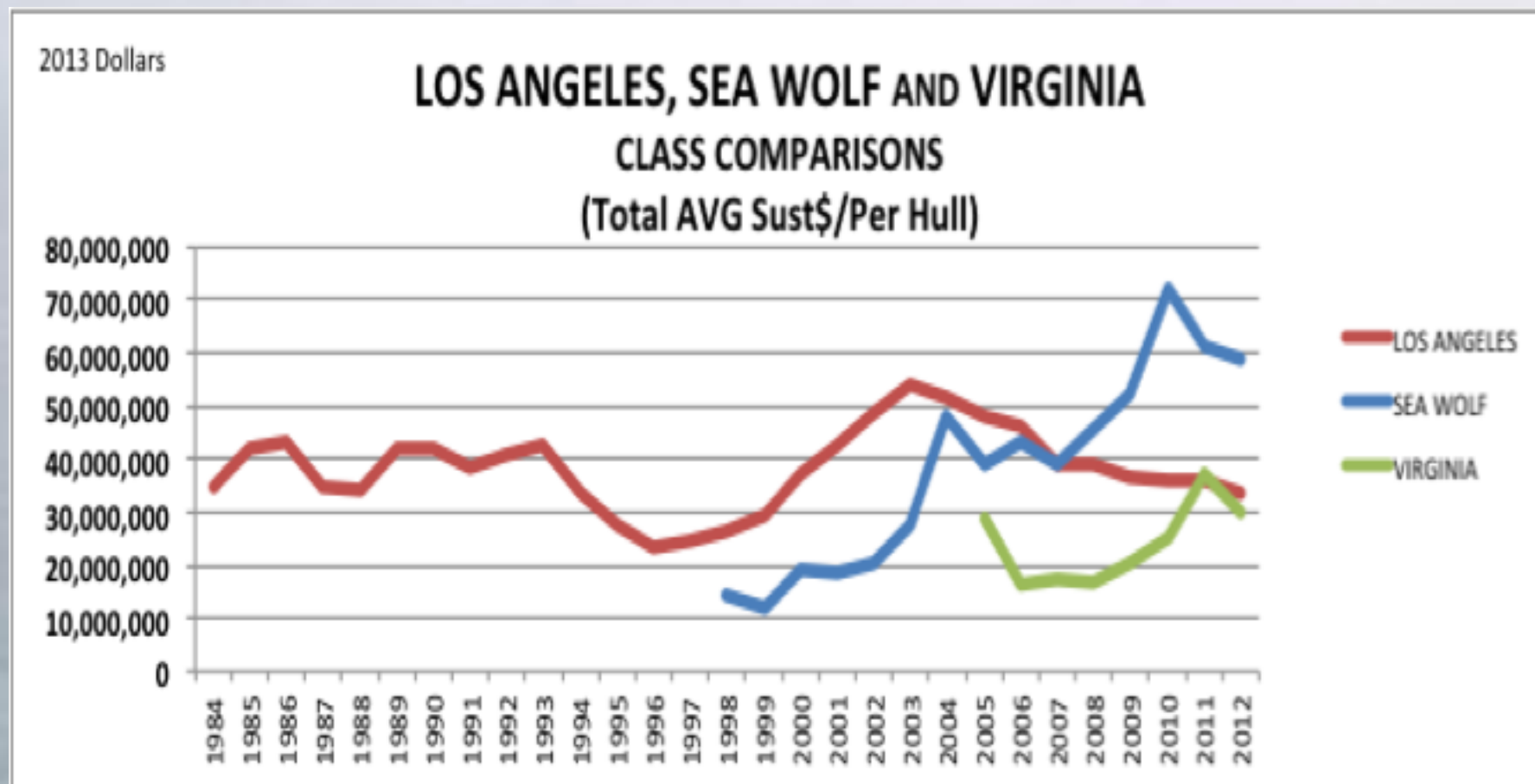
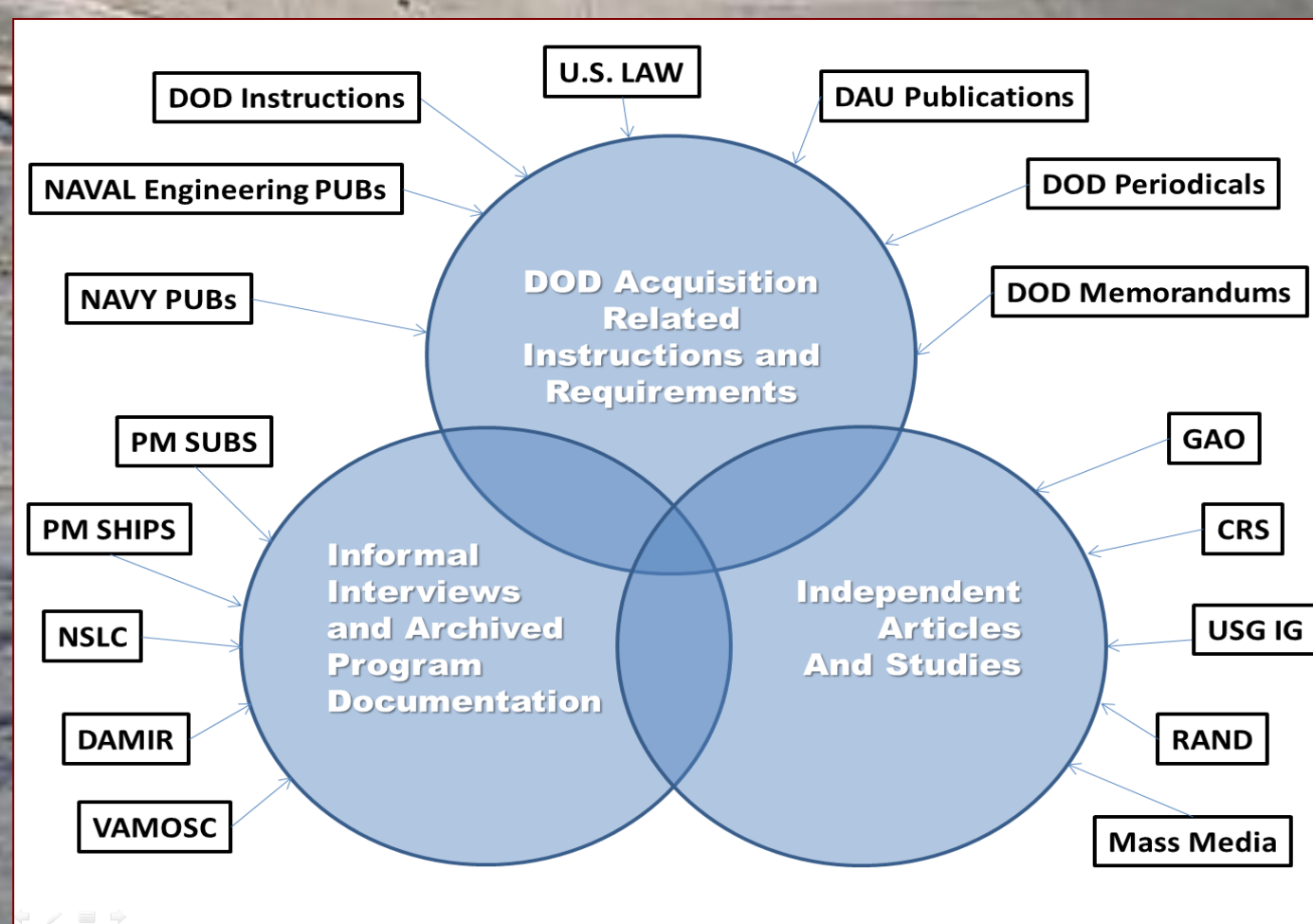
For the Virginia-class submarine and San Antonio-class ship: Isolate those key metrics and relationships which demonstrate an apparently significant impact on affordability. Find those programmatically decisions, environmental circumstances and/or managerial tools which benefit or jeopardize affordability in a consistent manner, and recommend further study in those areas most likely to promote the development of better practices for affordability throughout a program's life cycle.

- **GOALS** – identify if there are practices that make both ships and subs more affordable and recommend those practices for further study and use
- **PRIMARY RESEARCH QUESTION** – what factors drive affordability for both ships and subs

Maxwell's Qualitative Approach



Data Sources and Synthesis



Conclusion

FINDING #1

The combination of Production Break in platform, cost plus contracts, low experience contractors and increased complexity due to merged missions resulted in a degree of cost growth which could not be overcome by enablers and decisions intended to reduce costs.

FINDING #2

The most significant decision of the Virginia-class program, consistent with the reduced costs realized by the program, as contrasted with the San Antonio-class program, was the use of a methodology by the Program Office, Electric Boat, and BAH that resembled target costing.

FINDING #3

The current Sustainment cost data (VAMOSOC) suggests the programmatic decisions of the Virginia-class program with regard to RTOC in sustainment were successful.