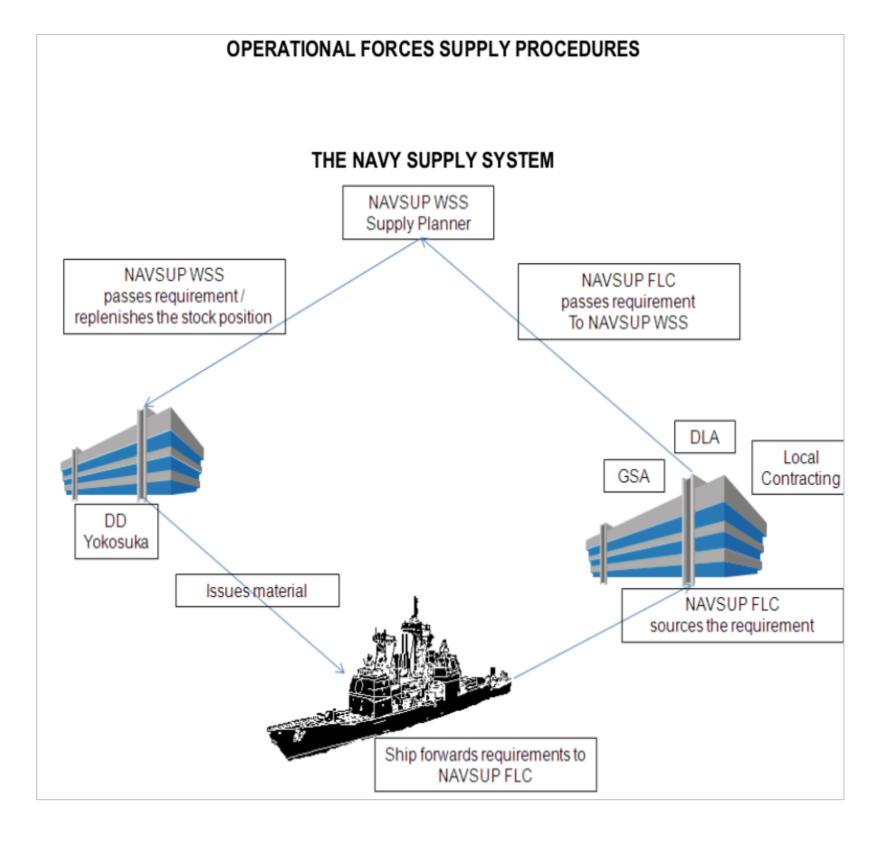


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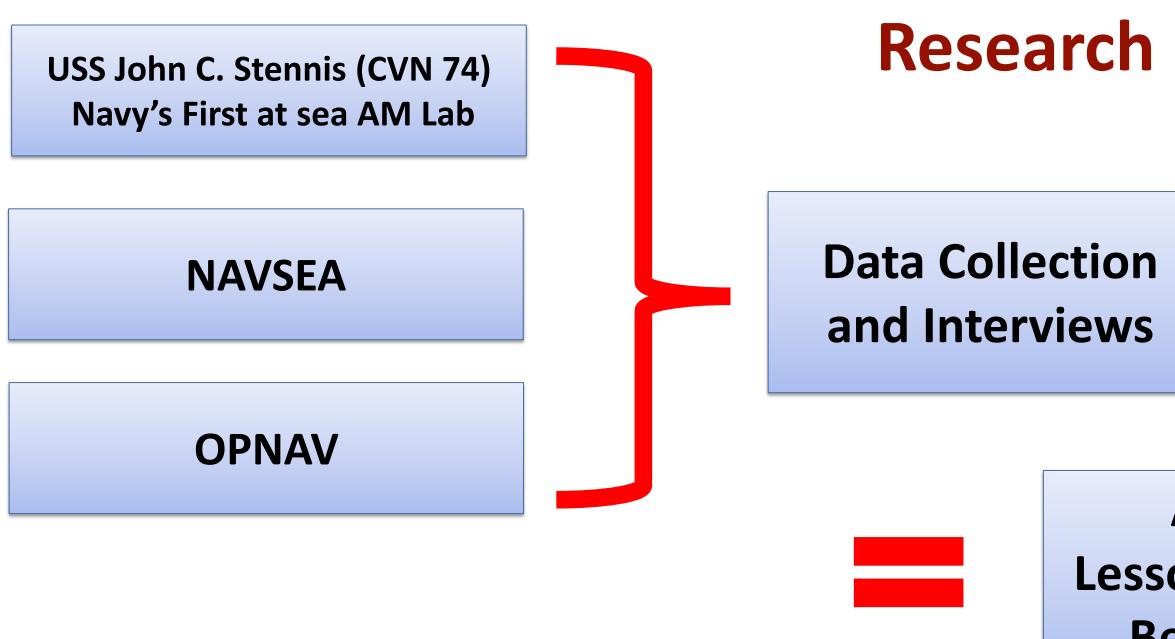
U.S. NAVY'S FIRST ADDITIVE MANUFACTURING AT SEA; LESSONS LEARNED AND BEST PRACTICES

Traditional Manufacturing Concept









Research Process Plan

Knowledge Value Added (KVA) Assessment

AML at Sea; Lessons Learned and **Better Practices**

Knowledge Value-Added (KVA) Methodology

If X = Y(P(X) = Y) no value has been added. α = is a measurement of the value added by the investment. "Value" **α** "Change" "Change" can be measured by the amount of knowledge required to make the change.

So, "Value" α "Change" α "Amount of knowledge" required to make the "Change". (Principle of replication)

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On-Demand Manufacturing Concept

Change, Knowledge and Value are Proportionate

Input X Process P Output Y

Fundamental Assumptions of KVA