

# JAMR

## Joint Additive Manufacturing Region (JAMR-SW)

### Purpose

Advanced Manufacturing represents the convergence of broad technological trends that are changing the economics of global manufacturing. Concurrent advances in material sciences, tooling, processing, and intelligent infrastructure, provide an opportunity for the Military Services to design, build, test, field, and maintain products in new, secure, cost effective ways.

The Joint Advanced Manufacturing Region (JAMR) is an Integrated Product Team designed to investigate these new technologies in order to prioritize emerging requirements that will support both military readiness and regional economic competitiveness. The JAMR is chartered in direct support of the Secretary of the Navy's Innovation Vision and the Chief of Naval Operations Vision for Additive Manufacturing.

This is an interim website to help bootstrap dialog and support shared goals.

### Meetings

- 11 June 2015 was first meeting of the IPT. ([slides](#))

Monthly meetings are planned, stay tuned for the initial schedule. We will likely meet in a variety of locations with online connectivity provided to remote attendees.

### Video Resources

[3D Printing: The Future of Warfare?](#) The USMC 1st Maintenance Battalion experiment with 3D printing technology to change the shape of conflict.

[EXMAN and 3D Printing](#) Dr. Kristin Holzworth and Andrew Bonica of the Joint Advance Manufacturing Region discuss EXMAN and 3D printing.

[Steel Knight: The Ex-Man Returns](#) U.S. Marines with Repairable Maintenance Company, 1st Maintenance Battalion, 1st Marine Logistics Group, 3-D print a mounting bracket for a Logistics Vehicle System Replacement during exercise Steel Knight at Marine Corps Air Ground Combat Center Twentynine Palms, Dec. 6, 2016.

[SoCal Ship-to-Shore Exercise: The Amazing Ex-Man](#) Marines with Repairable Maintenance Company, 1st Maintenance Battalion, 1st Marine Logistics Group, demonstrate the capabilities of 3-D printing Expeditionary Manufacturing during the Advanced Naval Technology Exercise at Marine Corps Base Camp Pendleton, Calif., April 19-28, 2017

[SSC TV's S2ME2 RECAP](#) Marines and Sailors field-tested more than 50 new technologies, everything from swarming unmanned surface vessels to self-driving Amtracs.

### Detailed Description

SPAWAR is hosting the first Joint Advanced Manufacturing Region Southwest Integrated Product Team (JAMR IPT) meeting on 11 June 15 in support of both SECNAV Task Force Innovation (TFI) and the CNO National Additive Manufacturing (NAM) Executive Committee (EXCOMM). Our strategic goal is to conduct R&D, define requirements, evaluate standards and participate in risk reduction prototyping for development of the Navy's component of the national Smart Manufacturing Grid. The Smart Manufacturing Grid provides the resilient, secure, digital and physical critical infrastructure that will support the "reshoring" of emerging advanced manufacturing capabilities back to the United States.

Additive Manufacturing, 3D Printing and other advanced manufacturing techniques are altering macroeconomic fundamentals of the sector. The convergence of sensors, robotics, and high capacity digital processing technologies with the revolution in material science has created a global transformation known as the [3rd Industrial Revolution](#). US Navy, in concert with its Office of Assistant Secretary of Defense (OASD), our sister Services, other Federal agencies and industry leadership see the strategic economic and national security implications of these advances in manufacturing. We also see the challenges posed by threats to our critical infrastructure and are coming together to create a dual-use, safe and secure manufacturing ecosystem that drives job growth and profitability, can improve our international trade balance and optimizes the building and sustaining of our DoD and national security capabilities.

The JAMR IPT is adopting a regional focus to accommodate our status as a Fleet Concentration Area and unique culture of innovation that exists in the Southwest region. We have partnered with Commander Navy Region Southwest, who owns the operational requirements, and are aligning under the broader concept of "Smart Shore" to leverage lessons learned from related efforts. In accordance with our EXCOMM guidance we have constructed our IPT to capitalize on existing Public Private Partnerships and are creating a truly cross-functional IPT to include all the SYSCOMS, NIST, the Manufacturing Extension Partnerships, regional Universities, national laboratories, joint services, other FEDGOV and, of course, our own warfare centers. JAMR SW will serve as a "Beta" concept for managing the build-out and governance of the Smart Manufacturing Grid across the nation. The most important outcome for this effort will be a plan to recapitalization of our manufacturing capability to achieve a higher degree of operational readiness and US "manufacturing independence" over the next 10-20 years."

### Contact

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Feedback is welcome! Please let us know what you think.