



Research and Development SUBSISTENCE NETWORK (SUBNET)



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DLA'S TRANSFORMATION IMPERATIVES



Build Capability and Agility Through Our People and Culture

Calibrated, Resilient, and Responsive Logistics Solutions to Ensure Military Readiness

Enhanced Support to Implement and Integrate Deterrence Measures Across the Continuum Of Conflict in Contested Logistics Environment

Lead Logistics Interoperability and Collaborations Across The Department, Allies, Whole Of Government, and Industrial Base

OBJECTIVE

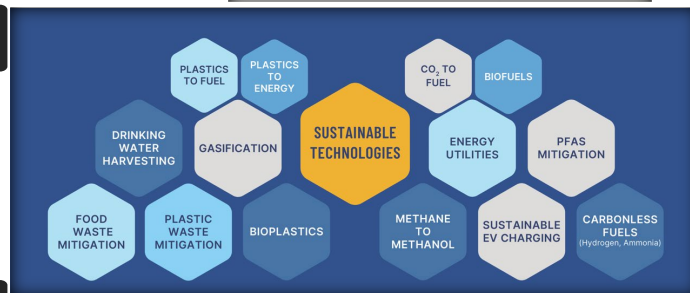
The Subsistence Network (SUBNET) program is an Industrial Preparedness Manufacturing Technology (ManTech) Program in DLA R&D that promotes manufacturing and logistics improvements in the subsistence supply chain. The SUBNET program focuses on leveraging the latest technologies and encouraging innovation and modernization in subsistence. The goals of SUBNET projects include reducing costs, enhancing quality, increasing efficiencies, and improving surge demand capabilities. The SUBNET Broad Agency Announcement (BAA)-0004-21 focus areas are:

- Field/Garrison Feeding Solutions
- Combat Rations
- Food Safety & Defense
- Nutrition & Health
- Food Equipment
- Food Footprint
- Process Automation
- Storage & Packaging Solutions
- Food Innovations
- Surge & Sustainment Support



INNOVATION & TECHNOLOGY

- Identification of solutions that improve current field and garrison/installation feeding procedures and operations.
- Development of initiatives that reduce food waste, minimize logistics footprint, optimize storage capacity, and reduce cost by capitalizing on circular economy concepts.

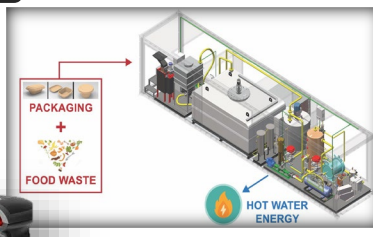


STRATEGIC THRUSTS



Deployable Unitized
Group Rations
(DUGR) Platform

Improving Subsistence Visibility Barcoding Enhancement



Zero Waste Deployable
System For The Military

Automation through Robotics in Dining Facilities





Research & Development SUBNET



THE CHALLENGE

The Subsistence Network (SUBNET) Program must stay abreast of current and emerging food trends, technological advancements, and innovations to remain viable and relevant for the Warfighters of the future. SUBNET efforts include researching, developing, testing, and evaluating technologies; and transitioning beneficial and novel technologies and processes into the subsistence supply chain.



WARFIGHTER READINESS

THE BENEFITS



Transform and modernize subsistence capabilities to sustain Warfighter readiness and lethality



Improve technology and innovate processes to sustain the Defense industrial base



Leverage emerging technologies to remain competitive to best serve our customers long-term



INDUSTRY AND WHOLE OF GOVERNMENT PARTNERSHIPS

- DLA Troop Support Subsistence
- U.S. Army
- U.S. Navy
- U.S. Air Force
- U.S. Marines
- U.S. Coast Guard
- U.S. Department of Agriculture
- Federal Drug Administration
- Meals, Ready-to-Eat Assemblers
- Joint Defense Manufacturing Technology Panel
- Academia
- Other Industry



<https://www.dla.mil/Information-Operations/Research-And-Development/>

ACCOMPLISHMENTS & ONGOING EFFORTS

- ✓ Improving Subsistence Visibility through Labeling and Barcoding
- ✓ Biodegradable Cellulosic Bio-Polymer to replace plastics for Military Food Packaging and Food Service
- ✓ Heating, Hydrating Combat Rations (HHYCOR) to heat and purify water for Meal Cold Weather rations
- ✓ Robotic Automation of Food Preparation
- ✓ Deployable Group Ration (DGR) Kitting Platform for Unitized Group Ration (UGR)
- ✓ Separation, Composting, Recycling and Repurposing System for Food Waste
- ✓ Flake Graphite-based Solutions for PFAS Contamination
- ✓ Investigation of Performance Metrics for Meals, Ready-to-Eat (MRE) Sustainable Packaging Options