



# 5G Smart Warehouse Naval Base San Diego (NBSD)

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# Project Overview



- ▼ **Objective: Develop a 5G (NR)-enabled Smart Warehouse to**
  - Increase the efficiency and fidelity of NAVSUP FLCSD logistic operations, including the identification, recording, organization, storage, retrieval, and transportation of materiel and supplies.
  - Create a proving ground for testing, refining, and validating emerging 5G (NR)-enabled technologies
  
- ▼ **Approach: Government Assessment and Engineering Team shall**
  - Support implementation of the technology and execution of the experiments for the 5G smart warehouse
  - Perform Test & Evaluation of the proposed technologies for the 5G smart warehouse
  - Ensure the deployed 5G technology and smart warehouse features meet Navy and OUSD expectations
  
- ▼ **Measure of Success:**
  - Integration of a 5G network testbed, 5G network architecture enhancements, and 5G-enabled technologies that improve the efficiency, accuracy, security, and safety of materiel and supply handling, management, storage, and distribution

# Project Activities – Rapid Prototypes

## ▼ 5G Network Test Beds (RAN, Connectivity, Core)

- Design an end-to-end 5G mobile cellular network

## ▼ 5G Network Enhancements – Utilization of 5G network attributes (e.g. network slicing, security, Open 5G implementations, etc.)

- Employ & test advanced 5G features to directly enable or enhance sharing or coexistence

## ▼ 5G Technologies

- Design (initial and iterative), test and implement desired application technologies and systems utilizing the basic 5G environment
- There are priority applications and use cases listed in the RPP to create a Smart Warehouse Solution