

Army Installations Strategy (AIS)

- **Ы**AIS Implementation Plan
 - Army Infrastructure Investment Strategy (AIIS)



Association of Defense Communities (ADC)
Installation Innovation Forum (IIF)
01 Nov 2021



Army Installations Strategy



STRATEGIC SUPPORT AREA

Chair

Conus

READINESS

Data

Analytics

<u>Installations:</u> Army platforms for mobilization, training, People-care, deployment, sustainment, and redeployment

Changes in the Operating Environment:

- New and Emerging Threats
- Multi-domain operations (MDO) Installations in the Strategic Support Area (battlespace)
- New Technologies enhance operations; pose vulnerabilities to exploit; create partnership opportunities with industry & communities

Drive the need to:

- Change how we view Installations
- Change our culture / priorities
- Harden protection measures / networks

STRATEGY

II PEG Focus Areas drive POM 23-27 funding requirements to support and enable the MDO Ready Force of 2035 **Take Care of People**

Strengthen Readiness & Resilience

Modernize and Innovate

Promote Stewardship

PEOPLE

INFORMATION AGE INSTALLATIONS

- Operationalize Installations
 - Expand Protection
 Adapt Resilient Systems
- Educate / Train the Team
- Modernize and Secure the Information Backbone
- Support Army Modernization in the Army Modernization Strategy
 - Transform Installation Operations
 - Reward Innovation
 - Preserve Natural Resources
 Natural Resources
 - Develop Metrics/Modern Tech
 Remediate Contaminants

Modern, resilient, sustainable installations, enhancing strategic readiness in a contested MDO battlespace, while providing quality facilities, services, & support to our Soldiers, Families, & Civilians.

ENDSTATE

MODERNIZATION

PARTNERS AND ALLIES

Partnerships

Safe Operations

"...we expect adversary actions directed against the homeland...installations are no longer sanctuaries."

-Army Installations Strategy, Senior Leaders' Foreword





Army Installations Strategy Framework

ARMY INSTALLATIONS STRATEGY FRAMEWORK											
	LINES OF EFFORT	ENABLERS		STRATEGIC OUTCOMES	END STATE						
1	TAKE CARE OF PEOPLE • Adapt Quality / Functional Facilities • Deliver Modern Services • Conduct Safe Operations			Attract, Retain, and Enable People							
2	STRENGTHEN READINESS and RESILIENCE Operationalize Installations Expand Protection Adopt Resilient Systems Educate / Train the Team	D A T A	P A R T E	Project Combat Power and Sustain Operations from a Contested Environment	Modern, resilient, sustainable installations, enhancing strategic readiness in a contested MDO						
3	MODERNIZE and INNOVATE • Modernize and Secure the Information Backbone • Support Army Modernization Initiatives in the AMS • Transform Installation Operations • Reward Innovation	N A L Y T	R N S H I P	Modernized Installations Supporting the Modernized Army	battlespace, while providing quality facilities, services, and support to our Soldiers, Families, and Civilians.						
4	PROMOTE STEWARDSHIP • Preserve Natural Resources / Sustain the Mission • Remediate Contaminants • Implement Risk-Informed Metrics and Modern Technologies	C S	S	Healthy, Sustainable Training, Working, Living Environment							





LOE 1 - Take Care of People

Attract, Retain

and Enable

Strategy Framework

1. Take Care of People

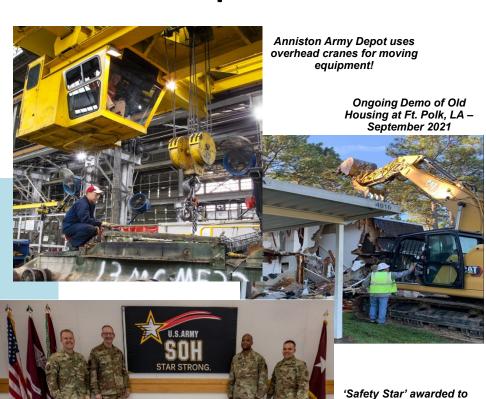
Adapt Quality / Functional Facilities

- Deliver Modern Services
- Conduct Safe Operations

People

DRAFT Implementation Objectives:

- Modernize QOL Facilities at PPPs & MFGIs (5 years); Others (12 years) - (AMC Facilities Investment Plan (FIP))
- Modernize QOL Services at PPPs & MFGIs (5 years); others (12 years)
- Implement the Army Safety and Occupational Health Management system (ASOHMS)



Madigan Army Medical Center (MAMC), Jt Base Lewis-McChord, WA 2019





LOE 2 - Strengthen Readiness & Resilience

Strategy Framework

2. Strengthen Readiness and Resilience

- Operationalize Installations
- Expand Protection
- Adapt Resilient Systems
- Educate / Train the Team



Fort Detrick, MD: A 15 MW Solar Facility comprised of 59,994 Solar Panels that generates enough electricity to power about 2,720 homes.

Fort Knox, KY: Fort Knox has completed multiple Black Start Exercises energy system exercises in collaboration with their privatized utility provider.



Project Combat
Power and Sustain
Operations from a
Contested
Environment



Fort Carson, CO: A 4.2 MW / 8.5 MWh battery energy storage system that is the largest peak-shaving battery on an Army installation and will offset peak electric use to reduce installation energy costs.



Fort Hood, TX: The Army's first hybrid solar and wind energy Power Purchase Agreement has a capacity of approximately 65 MW AC, enough to power about 21,000 homes.

DRAFT Implementation Objectives:

- Develop "Installations Operations" Doctrine
- Capabilities Based Assessment Installation Ops
- Protection:
 - Provide Threat Info to Installations
 - Common Operating Picture- Installation Status
- Resilience:
 - "Black Start Exercises" (Ft. Hood: Spring 22)
 - Expand use of Micro grids
 - Complete & Implement Energy & Water Plans (IEWPs) findings
 - Implement Governance for Control Systems
 - Develop an ROI model to price Installation
 Resilience
- Training: Professionalize, Institutionalize & Improve Installation Operations Capabilities





LOE 3 - Modernize and Innovate

Strategy Framework

3. Modernize and Innovate

- Modernize & Secure the Information Backbone
- Support Army Modernization Initiatives
 Transform Installation Operations
- Reward Innovation



Installation COP – Readiness Center

5G Depiction – 4G/5G lotF Pilot for Data Fusion Ft. Carson

Modernized
Installations
Supporting the
Modernized Army



DRAFT Implementation Objectives:

- Execute requirements for a secure/modern network
- Better align facility planning to weapons acquisition (Business Process Reengineering)
- Modernize Affordable Facility Designs / Standards (Versatile Design/Build Infrastructure)
- Advance Installation Modernization with Proofs of Concept (Installations of the Future) – (Carson FY21)
- Army Infrastructure Investment Strategy (Fall 21)
- Category Management for services/contracts
- Increase NDAA directed Energy Cost Savings (REFORM \$ by Installation)
- Automated Data systems: Builder, Utilities,
 Maintenance Management
- Implement stationing reforms to link decisions to resources
- Expand partnerships, 3rd Party Financing, cost-sharing





LOE 4 - Promote Stewardship

Strategy Framework

4. Promote Stewardship

- Preserve Natural Resources / Sustain the Mission
- Remediate Contaminants
- Develop Risk Informed Metrics and Modern Technologies

Healthy, Sustainable Training, Working, Living Environment



APG, MD Bald Eagle

DRAFT Implementation Objectives:

- Implement Army National Historic Preservation Act Improvement
- Process for NEPA integration w/ Rapid Acquisition/Fielding
- Prioritize Clean Up Sites & "Response Complete" (PFAS)
- Enterprise Environmental Data System in development
- Environmental Quality Tech products Remediate Contaminants





ARMY INFRASTRUCTURE INVESTMENT STRATEGY (AIIS)



	Army Infrastructure Investment Strategy (AIIS) Framework											
	Lines of Effort	#1	E n #2	a b l e #3	ers #4	#5	Strategic Outcome [Army Strategy Supported]	End-State and Effects				
1	Investment Outcome Metrics	Capital Investment Discipline	Installation Analytics: Timely, Automated, Occupancy and Capacity Data	Real Property Space Availability (RPSA) – matching stationing supply and demand	Just-in-Time Facilities	Community Reliance	Linkage Between Occupied Infrastructure and Missions [Army Installations Strategy]	Infrastructure linked to mission effects				
2	Zero Net-Operating-Cost and Energy Footprint Growth						Generic, Adaptable, and Scalable Facilities [Army Modernization Strategy]	Frees more resources for readiness and modernization				
3	Selecting the Right Investment Vehicle to Achieve the Desired Effects						Services Matched to Infrastructure [Army People Strategy] Force Structure Matched w/ Available Stationing Infrastructure [The Army Strategy]	Refocuses infrastructure investments to effects on our people, not the effects on infrastructure				
4	Climate Adaptation and Risk Management						Project Economic and Facility Operations Effects [Army Climate Strategy]	Reduced GHG emissions; resiliency investments optimized				