

SMART CITY TECHNOLOGIES. SMART BASE NEEDS.



“Connected into constellations, installations provide enterprise-wide resilience and flexibility. Installations are a visible marker for the Army’s transformation to an information-age organization...”

Source: Army Installations Strategy: Supporting the Army in Multiple Domains, December 2020.

At US Ignite, we leverage our expertise managing large scale laboratories for commercial smart city technology innovation, and we collaborate with defense research groups, academia, and the commercial sector to bring smart city capability development to the DoD.

Just like cities, Department of Defense (DoD) installations are tasked with taking care of their people, promoting readiness and resilience, and delivering critical services to residents and visitors. This overlap means military installations can take advantage of existing smart city solutions to modernize operations and create their own more effective Smart Base operations.



PROJECT AREAS



**PUBLIC
SAFETY**



**TRANSPORTATION
& LOGISTICS**



**ENERGY MANAGEMENT
& RESILIENCE**

TECHNOLOGIES



**DATA MODELING
& VISUALIZATION**



**REMOTE SENSING
& IOT**



**WIRELESS NETWORKS
& CLOUD COMPUTING**



**UNMANNED
SYSTEMS**

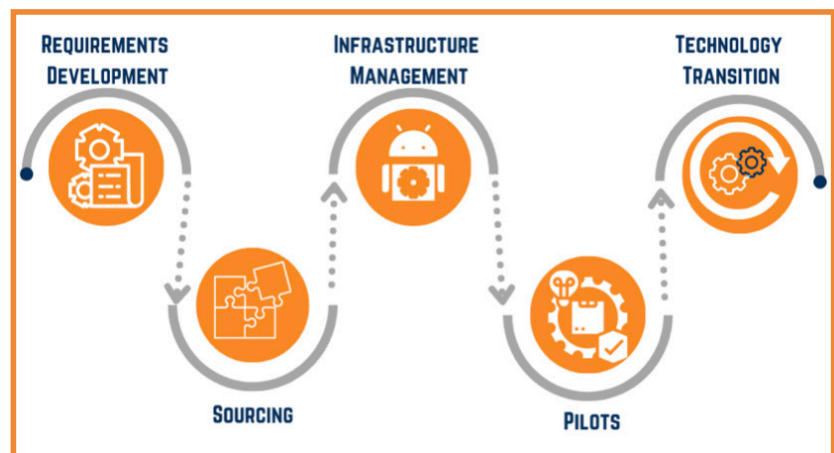
PROJECT AREAS

US Ignite manages three Smart Base testbeds – Fort Carson, Fort Benning, and MCAS Miramar. Within these testbeds, US Ignite and our partners promote the rapid dual-use development of commercial technologies that meet the needs of installations. Select project examples include:

- **Inclement Weather Decision Support Platform at Fort Carson** – US Ignite is developing a dashboard and predictive algorithm to provide a data-driven understanding of weather's impact on transportation safety. This will help the Garrison Command make better decisions and communicate more effectively about inclement weather-related base closures.
- **Energy Communications at MCAS Miramar** – US Ignite is testing the ability for commercial 5G to support the secure monitoring and control of distributed energy resources at distances that are economically unreachable through conventional fiber.
- **Mountain Express Automated Shuttle at Fort Carson** – This automated shuttle provided passenger service within the post's central cantonment area. As a result of this project, US Ignite gained valuable experience operating an AV on roads with mixed traffic.

OUR APPROACH TO SMART BASE CAPABILITY DEVELOPMENT

Our approach to Smart Base capability development starts by identifying the problems that matter both to the host installation and to the DoD. We then source the right academic or commercial partner to develop solutions to those problems, and work with the solution provider and defense research group to develop measurable and impactful criteria for success. Once we've ensured the cyber-physical and regulatory infrastructure necessary for the solution are in place, we pilot the solution and measure its performance against the installation and DoD's needs. If a piloted solution is successful, US Ignite and our partners then communicate the success of the program and work to identify pathways for entrenching the technology in the host installation and scaling it to installations across the DoD.



ABOUT US IGNITE

US Ignite collaborates with smart communities and research testbeds to drive high-impact solutions to their toughest challenges. Operating like a high-tech startup, our organization delivers timely results by applying technical expertise, stakeholder engagement, and targeted tools. US Ignite works tirelessly to ensure our programs are effective and reach the communities that need them the most. [LEARN MORE AT US-IGNITE.ORG.](https://www.us-ignite.org)