



SOLDIERSYNC

SYNCHRONIZE WEARABLES DATA

THE PROBLEM

Soldiers are increasingly outfitted with a variety of commercial wearable devices that track data about their fitness, well-being, and other statuses. This is valuable data for the Army, but we don't have an automated way to collect and synchronize that data from commercial wearables issued to Soldiers.

The Army wants a portable hub that automatically syncs data from Soldiers' wearable devices.

THE OPPORTUNITY

The **SoldierSync** topic is a Direct to Phase II [SPARTN SBIR](#) opportunity, which means you can skip the proof-of-concept phase and go straight to the prototyping phase — where funding is much greater.

As many as three businesses will be selected to receive up to \$1.21 million each for a 12-month period of performance. Businesses with synchronization capability, data acquisition, and data aggregation are encouraged to apply.

The SoldierSync application window opens May 25, 2022 and closes June 15, 2022 at 11:00am CT. Learn more at aal.army/get-involved.

Examples of successful technology features could include:

- "Forced synchronization" of known wearables on Soldiers
- Synchronization of wearable data within a certain range of the hub
- Ability to place hub in tactical locations
- Data synchronization without need of a personal smartphone
- Data synchronization without need of a manual selection or "button press" by a user
- Data synchronization that occurs frequently and in bulk
- Wireless connection, such as Bluetooth, that allows hub to upload data to cloud storage
- Compatibility with a variety of sensors in commercial wearable devices, such as rings, watches, chest straps
- Compatibility with commercial wearable device technology that is slated to arrive on the market in the near future, such as network enhancements, new wireless connection standards

THE SOLDIERSYNC HUB SHOULD INCORPORATE THREE KEY FEATURES:



AUTOMATIC SYNCING

The hub should wirelessly and effortlessly sync with Soldiers' wearable devices within a designated range or when passing through a "gate" point to trigger the sync.



DEVICE AGNOSTIC

The hub should work with a wide range of commercial wearable devices, regardless of brand, model, and smartphone operating system.



DATA AGGREGATION

The hub should take the data it receives across all wearable device types and consolidate it within a single analytics platform or athlete management system.

BACKGROUND ON OUR SPARTN PROGRAM

Special Program Awards for Required Technology Needs (SPARTN) is a new program for the Army — and for the small businesses that want to work with us — led by the Army ASA(ALT) Small Business Innovation Research (SBIR) team and bolstered by AAL models and outreach.

SPARTN blends government and industry best practices to introduce a new whole-of-Army, collaborative approach to solution innovation. The result is a way to solve Army problems faster and to accelerate the process by which successful technology is purchased by the Army.

WHAT MAKES SPARTN DIFFERENT?

- 1 Problems released through SPARTN are tied to the Army's critical needs and other focused modernization efforts
- 2 Faster contracting speed, with businesses typically notified of award 4x faster than the conventional SBIR process
- 3 Potential for millions in total value follow-on contract to build a concept related to the specific problem
- 4 Acquisition teams included early with the goal of easing transition and building new tech into recurring Army budgets
- 5 Potential for future high-value contracts via SBIR, other government funds, and private investment you secure

All topics released through SPARTN feature challenging and important problem statements from problem owners across the Army. These represent some of our biggest challenges and the ones we want to work closely with industry to solve.

To learn more about SPARTN or how to apply for a SPARTN topic, visit aal.army/SPARTN.



POINT CHALLENGE



“WE KNOW WHAT WE WANT.”

We need a specific solution, tailored to meet a detailed problem statement.

TIMEFRAME	1–2 years
PARTICIPANTS	Potential for multiple businesses
FORMAT	Businesses are separately tasked to develop technology tailored to a distinct problem
EXAMPLE PROBLEM STATEMENT	“How can we create a specific radio to transmit and receive on the same frequency?”
FUNDING DETAILS	Funding and periods of performance are determined by topic requirements
SBIR PHASE DETAILS	Can invest across different tech development stages Depending on the topic, both Phase I and Direct to Phase II awards may be possible



ABOUT THE ARMY APPLICATIONS LABORATORY

We don't make things — we make things possible. The Army Applications Laboratory (AAL) is the Army's innovation unit and a partner for industry, the Army, and government organizations. We discover practices and processes to speed capability development and turn cutting-edge ideas into real, relevant solutions for Soldiers. Learn how we do it at aal.army.

