

工業技術研究院

Industrial Technology
Research Institute

6G-FORMOSA Open Call 1, 2026 Announcement and Technical Scope

11th March 2026



Call Document

Information

- Call Identifier: 6G-FORMOSA-2026-OC1
- Call Publication: March 1, 2026
- Submission Deadline : 17 April 2026, 23:59 (Taiwan Time, UTC+8)
- Project Duration: Five (5) months starting from the date of contract signing
- Proposal Language: English (Proposals submitted in any other language will not be considered).

Objectives

- 6G-FORMOSA invites global pioneers to leverage our trial network and dedicated financial support to co-validate next-generation communication technologies through this open call.
- We are committed to partnering with global innovators to co-explore high-impact scenarios and jointly define industry-leading next-generation communication KPIs and KVIs through collaborative Proof-of-Concept excellence.

Funding

- Proposals must be submitted by a joint consortium. Each consortium shall consist of at least one (1) Taiwanese enterprise and at least one (1) international organization (industry, academia, or research institutes). The consortium must designate a Project Coordinator to serve as the primary point of contact for all contractual and technical matters.
- Financial Framework and Budgetary Limits for OC1The dedicated financial support for this Call is structured as follows:
 - Total Call Budget: The total available funding for OC1 is NTD 8,500,000. The maximum Contract Price for a single successful proposal is capped at NTD 8,500,000.
 - Per International Partner: Funding is capped at EUR 60,000 (inclusive of a 20% withholding tax).
 - Per Taiwanese Partner: Funding is capped at NTD 2,000,000 (inclusive of Value Added Tax).
- Each participating entity is required to submit formal evidence of cooperation executed with the Project Coordinator. Valid documentation includes, but is not limited to MoI, MoU, LoI.

Budget

- The dedicated financial support is intended to cover costs directly related to technical integration, joint testing and validation, and the submission of required deliverables. Proposers must provide a detailed breakdown of estimated costs in Annex B: Financial Plan, including:
 - Personnel Costs: Salaries for staff engaged in software development and R&D.
 - Travel and Operational Costs: Project-related travel, equipment usage, and testing expenses.
 - Indirect Costs (Overhead): Capped at 25% of the total direct costs.
- Successful partners are mandated to collaborate with ITRI for technical demonstrations at EuCNC 2026. Furthermore, participation in the 6G-FORMOSA Result Launch Event is required to present experimental outcomes and next-generation communication achievements within the Trial Network environment.

Eligibility for Participation and Funding

- Organizations are permitted to submit multiple proposals. However, the total aggregated funding awarded to a single legal entity across all successful projects within this calendar year shall not exceed the following maximum ceilings:
 - International Partners: Capped at a total of EUR 60,000 (inclusive of 20% withholding tax).
 - Taiwanese Partners: Capped at a total of NTD 2,000,000 (inclusive of VAT).
- Eligibility for Taiwanese applicants is restricted to profit-seeking legal entities duly incorporated and registered under the Companies Act of Taiwan.

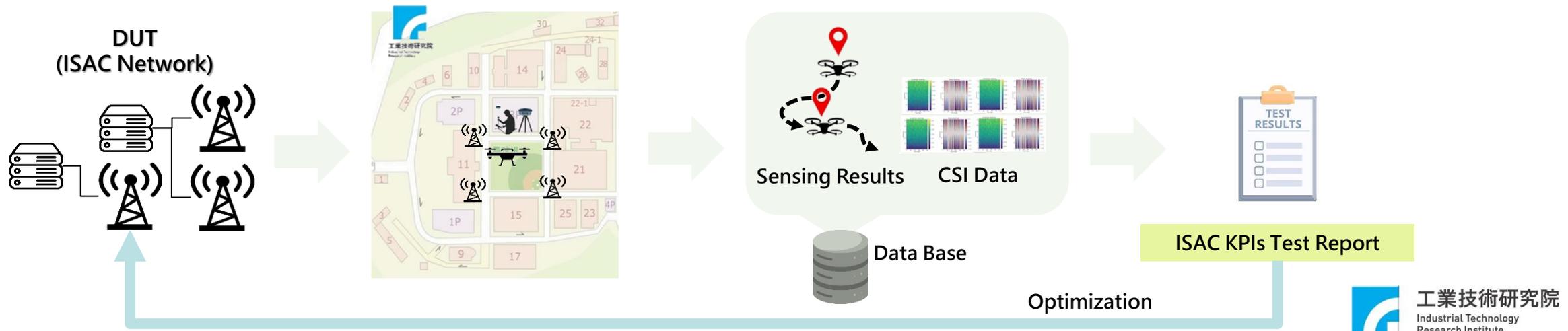
Evaluations and Criteria

- Focuses on the technological value, the degree of innovation in next-generation communication, and alignment with the 6G-FORMOSA technical roadmap and its trial network evolution. (40%)
- Assesses the potential for modularity, scalability for multi-site deployment, and the capacity for widespread field diffusion across diverse, high-impact application scenarios. (30%)
- Evaluates the impact on Taiwan's 6G ecosystem and the potential for contributions to the international 6G standardization process. (30%)

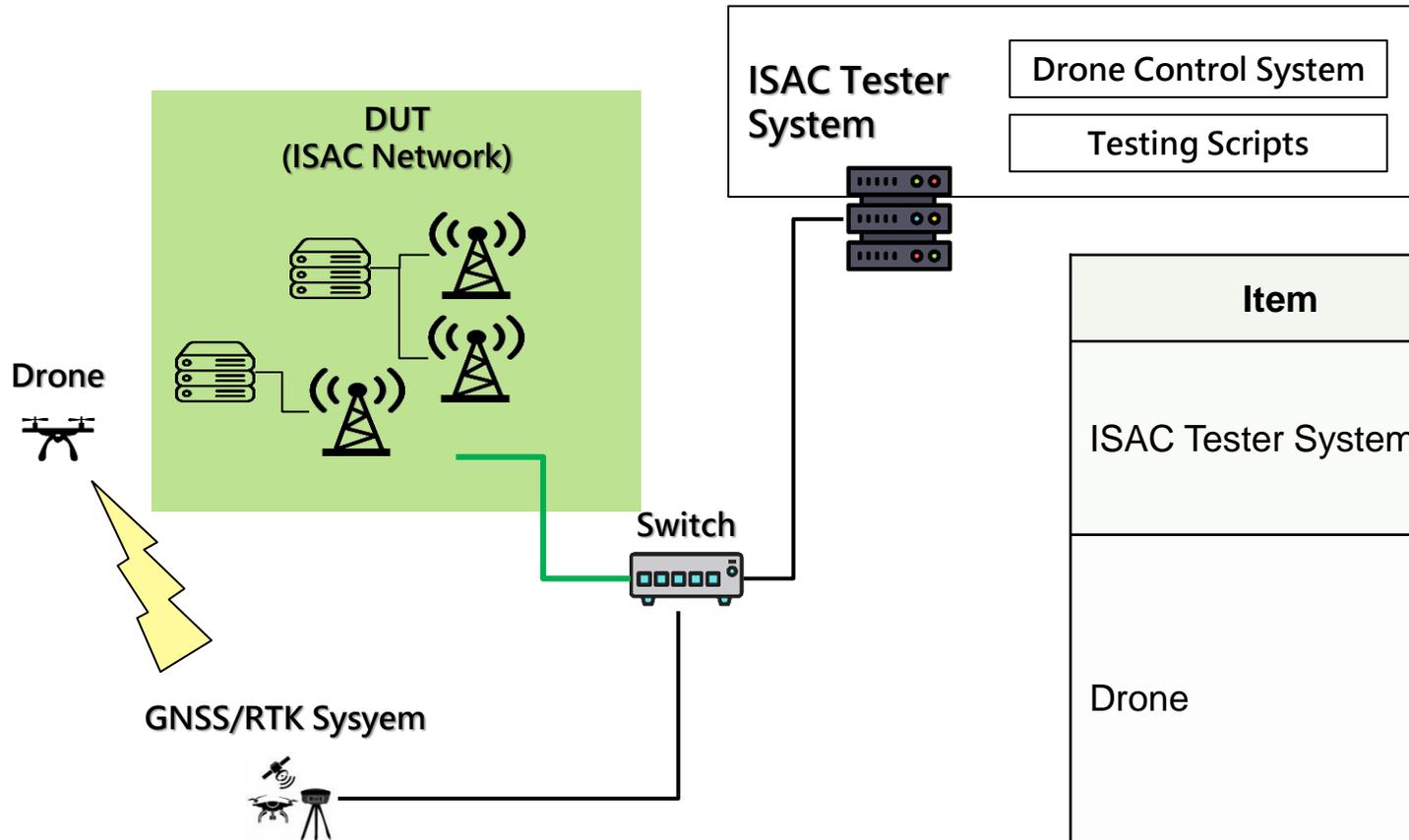
Technical Information

Technical Scope

- **Topic:** ISAC Network Radar for Drone Detection and Automated Data Collection Pipeline
- **Scope Overview**
 - This project aims to build and validate ISAC-enabled base stations capable of operating as networked radars for drone detection and tracking. Rather than validating a standalone sensing algorithm, the project focuses on **system-level ISAC verification**, where communication infrastructure (including CU/DU/RU architecture, synchronization, scheduling, and CSI extraction) is jointly leveraged to enable radar-like drone sensing. The real-time sensing information will be exposed to upper-layer systems (e.g., UTM) for further applications.
 - The project also aims to establish an **automated data collection pipeline** for the ISAC drone sensing system. The pipeline must operate reliably over long durations through standardized software interfaces (APIs) and periodically output measurement data (e.g., ISAC radio information such as CSI and sensing results) to support algorithm development, model training, and system optimization.
 - In addition, the project includes **field deployment and demonstration**. The drone flight test area is approximately **70 m × 70 m × 120 m**, with **maximum 4 places that can deploy RU nodes** to enable cooperative multi-site sensing. The actual deployment configuration may be adjusted based on field conditions, and ITRI reserves the right to final planning and adjustment.



Trial Network Description



Item	Note
ISAC Tester System	<ul style="list-style-type: none"> Automated Drone control and testing scripts execution ISAC DUT performance analysis and report generation
Drone	<ul style="list-style-type: none"> Wheelbase 700mm Weight (without battery) 1900g +/- 100g Battery Weight 1250g +/- 50g (14000mAh/22,2V) Max Flight Endurance 50 min with payload (>60min with radio only) Climb Rate 1-3m/s Cruising Speed 1-20m/s
GNSS/RTK System	<ul style="list-style-type: none"> Positioning error ≤ 10 cm Positioning output Rate 1Hz

Deliverables

- Deliverables
 - **A set of ISAC base stations**, including at least 1 CU/DU server, 4 outdoor RU(s), and a software license.
 - **A set of core network**, including 1 server and a software license. The core network system shall support at least 10 simultaneous User Equipments (UEs) with concurrent connectivity.
 - **A set of SMO/RIC**, including 1 server and a software license. The system shall support management plane integration, including FCAPS management, with O1 interface connectivity to SMO/RIC.
 - **A set of ISAC drone detection software system**, including 1 server and software license. ISAC base stations with radar-like sensing capability can detect drones and, via **northbound APIs**, provide **at least one of the following sensing information**:
 - Presence of a drone in predefined areas
 - Range / Elevation / Azimuth of the drone
 - 3D position of the drone
 - Permanent delivery of hardware assets. All hardware equipment provided under this project shall be permanently delivered upon final acceptance. The warranty period for both hardware and software shall be at least 1 year, covering defect repair, replacement, and necessary technical support.
 - The Submitting Entity shall be responsible for **base station deployment and installation**, including hardware setup, software configuration, and on-site commissioning.
 - **Documents**, including Equipment Specification, System Architecture Documents and ISAC Drone Detection Software System Specification Design Documents (sensing functionality and interfaces)
 - **The performance of the sensing results** shall achieve at least two of the following requirements:
 - Drone intrusion missed detection rate < 10% while false alarm rate < 5%
 - Drone positioning accuracy < 15 m positioning error
 - Sensing latency < 5 sec