![Connectivity Innovation Network logo]

Call For Proposal: A Secure Platform for Trusted and Privacy-Preserving Communal Data Sharing

Background/Challenges

During the CIN Challenge Workshops, a strong demand has been identified for data sharing between government agencies, and between the government and the private sector. Efforts to date have been hindered by concerns around trusted sharing, privacy and security. The CIN is seeking innovations in systematic trusted data sharing, privacy and security to underpin a data sharing platform.

Project aims and outcomes

The project aims to create a common platform for data sharing between different organisations. The platform should support the following **features** including, but not limited to:

1. Support both historic and real-time data (non-multimedia).
2. Support trusted data sharing between different entities – particularly between private sector and government entities.
3. Include frameworks which preserve privacy and address issues of data governance.
4. Support data integrity, confidentiality, and security with advanced cryptography technologies.
5. Support different levels and fine-grained data access control.
6. Support trusted, auditable, and privacy-preserving data processing.
7. Support trusted and privacy-preserving Data as a Service for a range of use cases.
8. Support trusted, auditable, and privacy-preserving data sharing and
9. Compliant with relevant data sharing standards.

The platform is required to support a range of data access use cases including (but not limited to):

a. Personnel and asset tracking.
b. IoT sensing and visualisation.
c. GIS mapping.
d. Mobile coverage.

Demonstration

It is expected that the project will deliver early demonstrations within the first six months and provide a final demonstration at the completion of the project. At least two government agencies must be involved in the demonstration.

Project Duration

The project duration is expected to be not more than 12 months. Subject to the support of the CIN, the project may continue to a second phase.

Project Funding

The project cost to the CIN is expected to not exceed $200k.

Collaboration

To support collaboration, the project team should consist of at least two CIN members with at least one university member. The project lead and the project contractor with CIN can be two different organisations.

We encourage a university member to be the contractor in order to leverage their research support systems. We also encourage the participation of CIN industry members to enable early technology adoption.