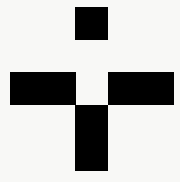# TERASi

INTELLIGENCE : CONNECTED

We provide connectivity and awareness to critical industries where speed, security and adaptability are non-negotiables.

Our proprietary Aircore™ technology powers ultra-compact RF front-end modules with best-in-class SWaP. These lightweight powerhouses deliver high throughput connectivity for field applications and fixed deployments where every millimeter counts.

Secured through pinpoint beams with signals that are virtually impossible to intercept or disrupt. Ready for direct integration with your data sources. Instantly deployable from your platform of choice.

TERASi RU1

High throughput data transport. Anytime, anywhere.

The RU1 brings high capacity point-to-point wireless to the next level, delivering fiber-like throughput in a compact form factor up to 40 times smaller than existing solutions. TERASi's revolutionary Aircore™ technology enables unprecedented SWaP while delivering robust performance in challenging environments.

With secure mm-wave transmission and rapid deployment capabilities, the RU1 excels where traditional solutions fall short—from tactical field operations to dense urban installations where every connection matters.

Available H2 2025.
Contact **sales@terasi.io** for more information.

TERASI.IO

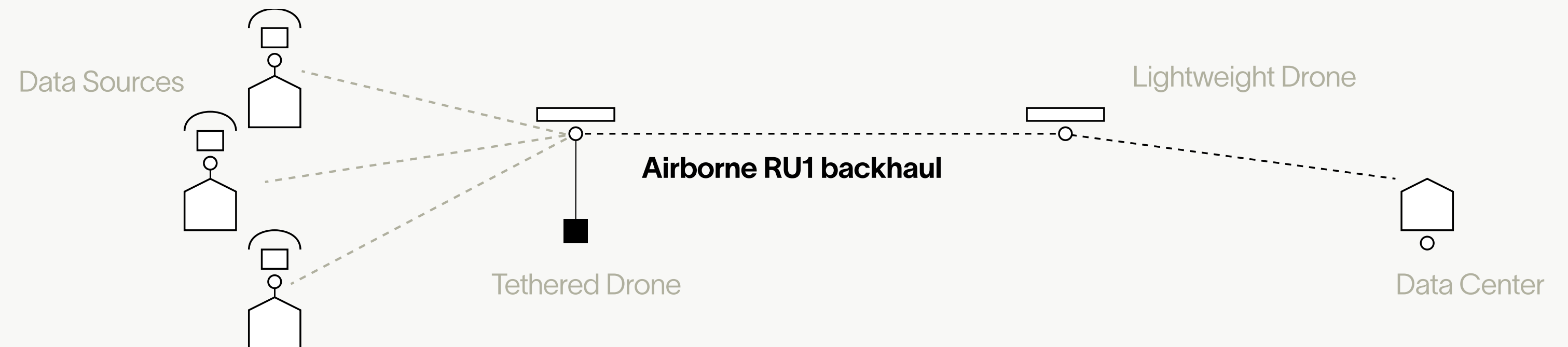# DEPLOYABLE AIRBORNE BACKHAUL

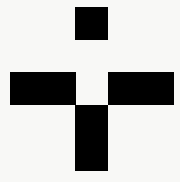**Fiber capacity without the infrastructure. Deployable at scale.**

The TERASi RU1 revolutionizes mobile backhaul by enabling rapid deployment of high-capacity data links where fiber is impractical or impossible.

Lightweight drones equipped with our compact modules create instant communication corridors between field operations and data centers, delivering gigabit throughput across distances up to 10 km.

This solution provides immediate data transport in environments where traditional infrastructure is vulnerable or impractical, while maintaining the reliability that mission-critical operations demand.

From rapid response to sustained operations, **TERASi transforms tactical communications by providing strategic-level bandwidth with field-deployable simplicity.**
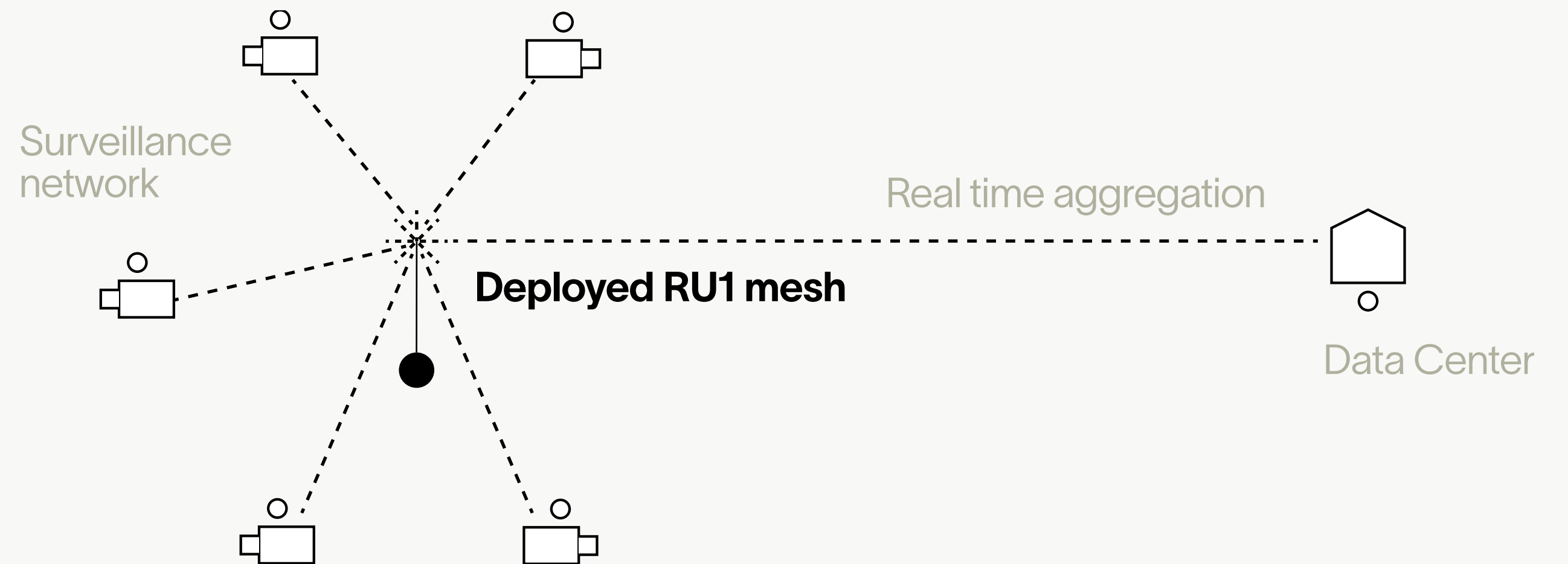
Data Sources

Airborne RU1 backhaul

Tethered Drone

Lightweight Drone

Data Center

DISTRIBUTED SENSOR FUSION
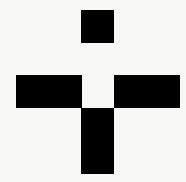
Real-time awareness without boundaries

The TERASi RU1 transforms critical monitoring operations by creating an instant high-capacity network for multiple sensor feeds. Our deployable backhaul solution eliminates traditional bottlenecks in data transmission, enabling real-time aggregation of high-definition video, thermal imagery, and sensor data.

Mounted on a rapidly deployable mast, the RU1 serves as the central hub for your sensing ecosystem, connecting distributed monitoring points to your data center with fiber-like throughput. This architecture delivers uncompromised visibility across your entire security perimeter.

This solution excels in temporary security operations, real-time monitoring, and event coverage where traditional infrastructure is absent but comprehensive situational awareness is mission-critical. With multi-gigabit capacity and rapid deployment, analysts receive actionable intelligence without delay.

Surveillance network

Real time aggregation

Deployed RU1 mesh

Data Center

From urban environments to remote locations, **TERASi enables enterprises to establish complete situational awareness within minutes, not days, ensuring comprehensive coverage anywhere, anytime.**

ABOUT US

James Campion

Co-founder & CEO
PhD. Elec Eng

Bernhard Beuerle

Co-founder, COO
PhD. Elec Eng

Adrian Gomez

Co-founder, CTO
PhD. Elec Eng

DEEP TECHNICAL EXPERIENCE

- 15 years developing technology

- World class research at KTH Stockholm

- Over 30 research articles + 3 PhD theses

INDUSTRY KNOW-HOW

ERICSSON

intel

HUAWEI

silex
MICROSYSTEMS

beyond gravity

We provide integrated wireless modules to companies within the telecoms, SATCOM, defence and test & measurement industries.

We are born & bred in Stockholm, Sweden, with in-house design & manufacturing teams focused on delivering innovate products for challenging wireless applications.

BACKED BY

Navigare Ventures

almi invest

OnsightVentures

Deeptech Labs

Contact **sales@terasi.io** to learn more.

TERASI.IO