SENARCH

Bridging the connectivity gap

SenArch Company and Solutions Overview

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Digital Energy Hub

KOLDING

Power Connect

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INDUSTRIENS HAD

ABOUT US

SenArch is a technology company, specializing in solar-powered wireless network equipment.

SenArch is a spin-out from the Technical University of Denmark (DTU).

Our solution "ARCH1" is an ultra low-power, autonomous and modular IoT gateway that is easily deployed – Anywhere.

ARCH1 is recognized in the industry as the most robust and reliable off-grid IoT gateway on the market.

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OUR MISSION

We enable digitization in off-grid environments using renewable energy as the source of power.

We ensure uninterrupted wireless connectivity while lowering cost, enabling operational flexibility and reducing carbon footprint.

We provide robust and reliable autonomous data networks infrastructure for a smarter and more sustainable future.

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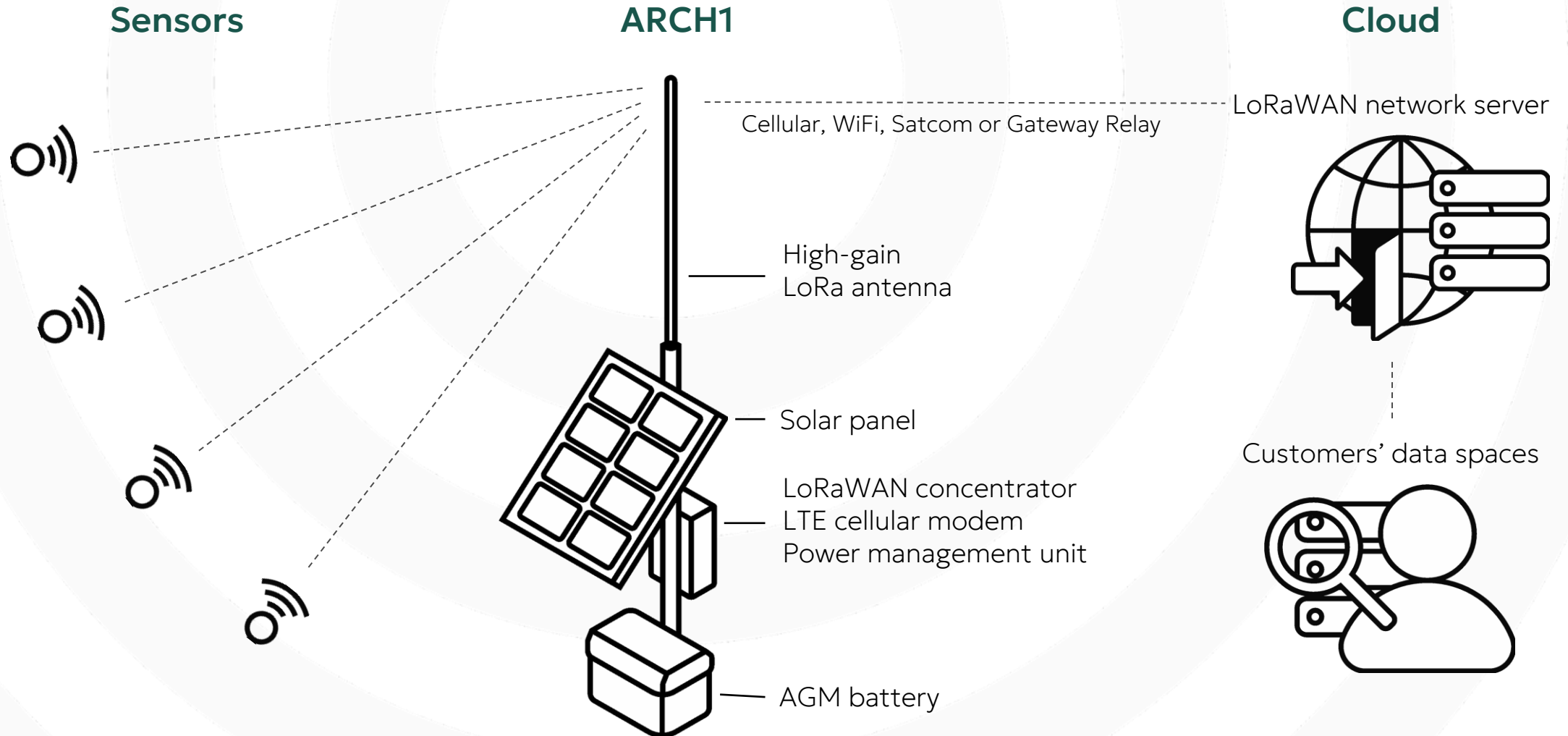# The ARCH1 - off-grid connectivity solution

- Easy and fast installation

- Runs on energy from Our Sun

- It enables sensor data in off-grid environments

- No need for cables

- Ultra-low power consumption (1W)

- Modular hardware enables flexible deployment modes

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◎ Where our gateways are

Network Architecture

Sensors

ARCH1

Cloud

Cellular, WiFi, Satcom or Gateway Relay

LoRaWAN network server

High-gain
LoRa antenna

Solar panel

LoRaWAN concentrator
LTE cellular modem
Power management unit

Customers' data spaces

AGM battery

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TRIPOD INSTALLATION

Minimize deployment time and cost by using SenArch's Tripod.

BENEFITS

- Rapid deployment on any flat surface, ex: roof, field, etc.

- Ease of installation with very little effort and skill.

- Stage the equipment at shop and roll out to site location.

- Or, perform the entire installation on–site.

- Minimal site preparation.

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ROOF-TOP INSTALLATION

Easy and rapid pole mount on roof-top

BENEFITS

- Rapid deployment on any flat surface, ex: roof, field, etc.

- Ease of installation with very little effort and skill.

- Stage the equipment at shop and roll out to site location.

- Or, perform the entire installation on-site.

- Minimal site preparation.

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TELCO TOWER INSTALLATION

Cost optimized Telco tower installation with no power purchase.

BENEFITS

- Rapid deployment on any flat surface, ex: roof, field, etc.
- Ease of installation with very little effort and skill.
- Stage the equipment at shop and roll out to site location.
- Or, perform the entire installation on-site.
- Minimal site preparation.

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TELECOM OPERATORS

01   Network densification

02   Easy and fast deployment

03   Remote monitoring and management

04   Modular & flexible mounting

05   Carbon neutral operation

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UTILITY & ENERGY

01   Water – Smart metering & Leak detection

02   Electricity – Smart Metering & Smart Grid

03   Gas – Smart metering & Leak detection

04   HVAC – Energy efficiency

05   Carbon neutral operation

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SMART CITIES & BUILDINGS

01 Climate resilience

02 Parking management

03 Public safety and security

04 Street lighting control & management

05 Waste management

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