



C2Future June 2022





BUSINESS PROFILE

START	In 1990 a team of industrial engineers set out to commercialize research in telecommunication technologies
VALUES	Freedom. Team of individuals. Integrity. Customer focus.
GROWTH	Sound financials. Multiple spinoffs in nanoelectronics, athlete tracking, gaming, cloud.
OFFICES	Bulgaria, Turkey and UK (legal entity)
PARTNERS	Long-term partnerships with leading technology vendors: Infinera, Juniper, Oracle
CUSTOMERS	Communication service providers (CSPs), large enterprises, utilities, data centers
PATENTS	US, Great Britain, France, Ireland, Germany, South Korea
CERTIFICATION	ISO 9001, ISO 14001, OHSAS 18001, ISO/IEC 27001

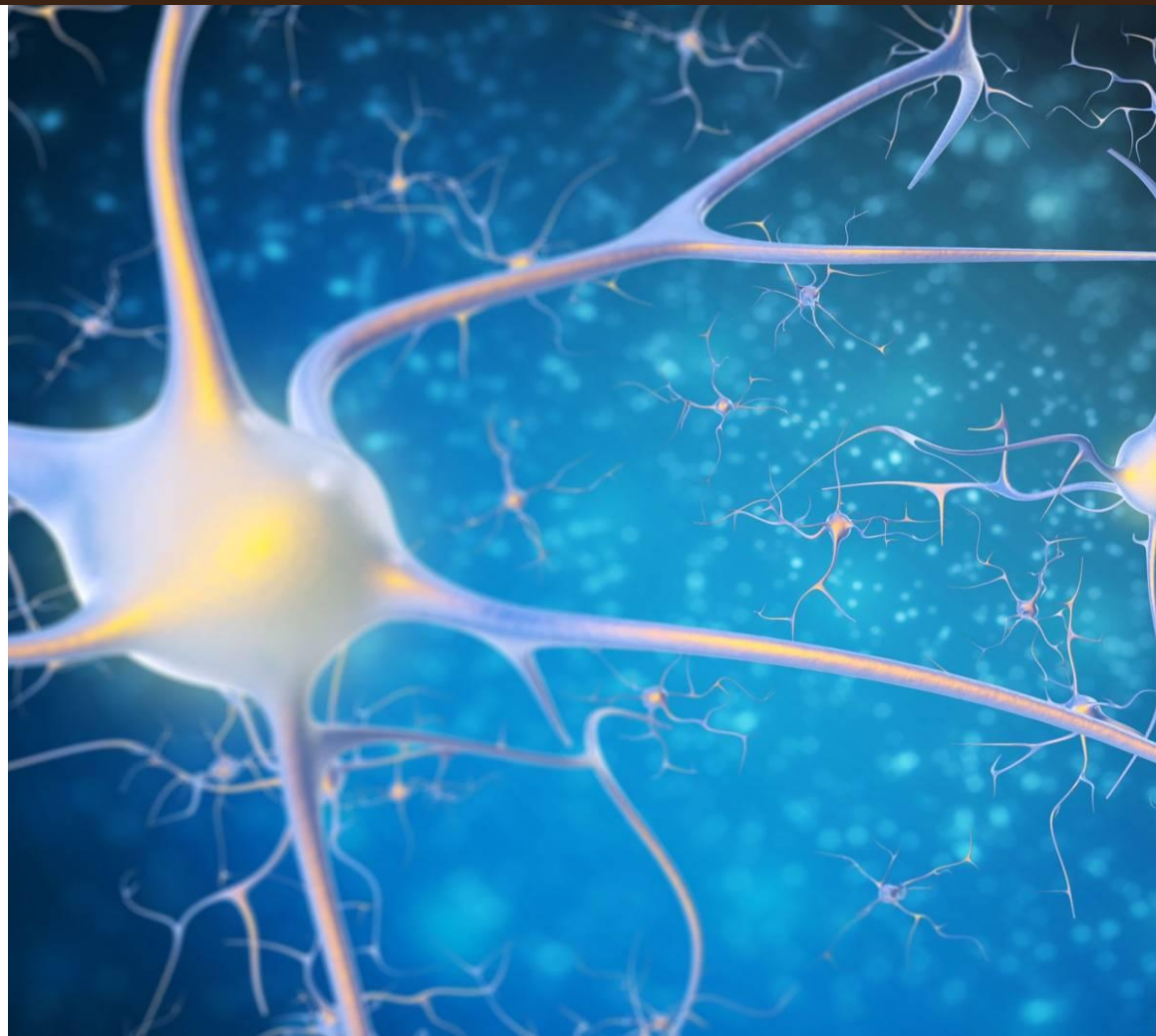


SYNAPSE

Solve for Edge

Connect **any sensor** in the field (temperature, vibration, water meter, etc.) to **any** Internet of Things **platform** via 3G/4G, NB-IoT, LoRa. Solve the **integration problem** at the edge of IoT projects. **Customizable** to fit the precise project requirements.

smartcom.bg/products/synapse





A MODULAR DESIGN ENABLES ANY CONNECTIVITY OF ANY SENSOR FOR EASY PROJECT INTEGRATION AND OPTIMAL COST

Sensors: per project need



utility meter



moisture



sound



vibration



temperature



...any sensor

Smartcom Synapse device

- Radio module(s)
- Battery with intelligent power management
- CPU
- Customizable firmware
- Data storage
- Sound feedback
- Centralized management and updates
- IP 68



Different enclosures are available

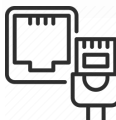
Connectivity: per project need



2G, 3G, LTE



wi-fi



wired

Standards-based integration

RESTful API

MQTT

CoAP

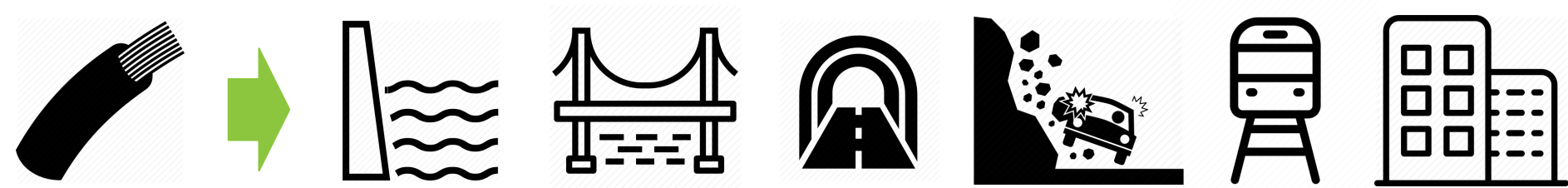
Back- and front-end: per project need

Database
backend

Dashboarding
tools



ENABLE SMART AND RESILIENT CIVIL INFRASTRUCTURE THROUGH **PERMANENT** MONITORING



INNOVATIVE **OPTICAL** SENSOR TECHNOLOGIES

- **Fiber Bragg Grating (FBG)** is best for spot monitoring - the sensors are placed at precise locations.
- With **Raman** and **Brillouin** scattering, the optical cable is the sensor - detect temperature and strain.



strain



inclinometer



accelerometer



moisture



temperature

other sensors
are available



ADVANTAGES OF OPTICAL SENSORS



Passive



No electromagnetic
interference



Resilient to
atmospheric
disturbances



Long useful life



Large
measurement
distance



Ability to connect
consecutively a
large number of
sensors



CUSTOM DEVELOPMENT AND PROTOTYPING

AREAS OF COMPETENCE

- Wired and wireless communication technologies
- Fiber optics
- Industrial IoT
- Sensors
- Low power devices and Battery management
- Redundant systems design
- Industrial grade equipment design



WHAT IS YOUR CHALLENGE?

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