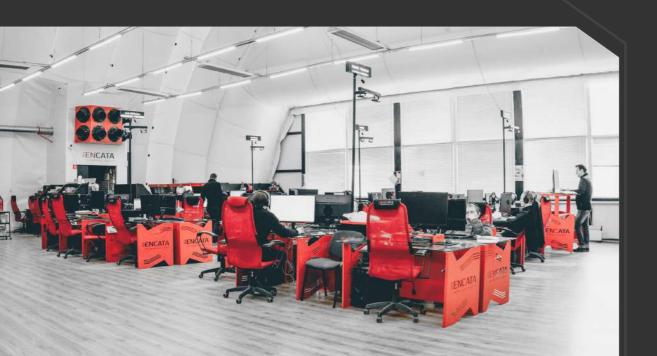
ENCATA

Engineering services and pilot-scale production

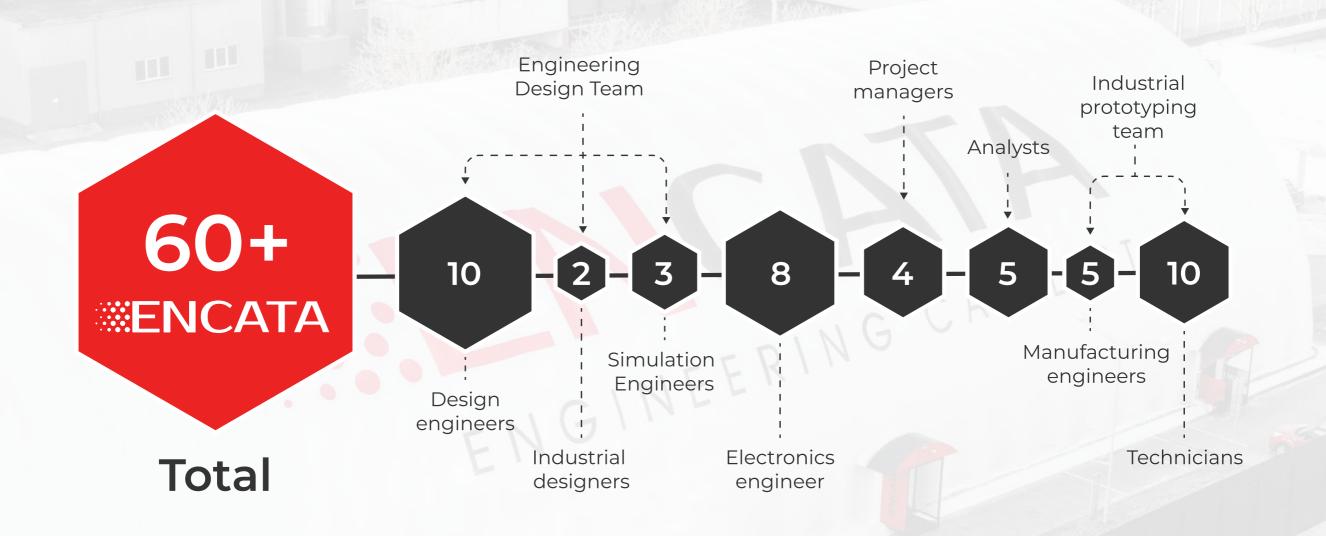
- Hardware design based on the Customer's business vision
- Engineering consultancy at all product development stages
- Prototyping and pilot-scale production





- Engineering and design services from your business idea to pilot batch
- Electronics design PCB, firmaware, server backend
- FEA and CFD simulations
- In-house manufacturing from 3D-printing to full 5axis CNC machining

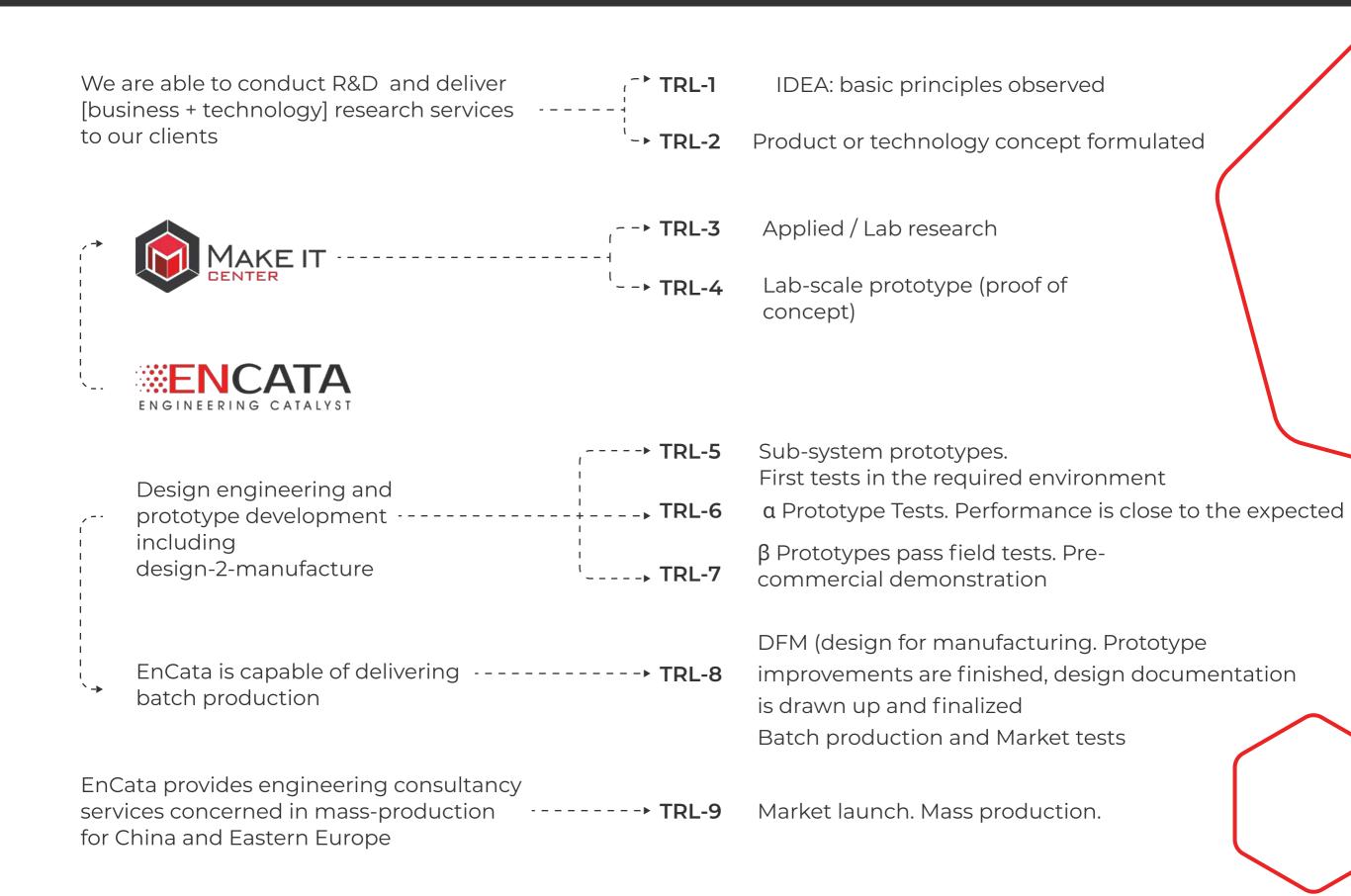
EnCata company in numbers



- EnCata was founded in 2006 as a product company. It specialized in industrial air purification equipment and electronic devices manufacturing.
- EnCata is structured in 7 different departments, whereby 5/7 are comprised of engineers
- All the Project Managers have either BSc/BEng or MSc/MEng and have previously worked as engineers

- In 2017 EnCata became the member of Hi-Tech Park in Belarus and began providing engineering servicies.
- Company employs 7 PhDs (Physics, Nanotech, Chemical Technology, Mech.Engineering)

Technology Readiness Levels (TRL) according to NASA









HUMIDIFIER

Personal desktop device for creating favorable living conditions at and around the workplace.

Functions: cleaning, humidification, aromatization, ionization (optional), cooling (optional) air. Filters and aromatizers must be included into the standard equipment.





The user can control it via a phone app. There are diodes (lights) and a power button on the front panel.

Operating time in humidifying mode: up to

8 hours

Dimensions: 123*123*223mm

Noise level: < 40 dB





CATA'S Role



Industrial design creating



Engineering documentation development



Prototype case making: laser printing, grinding and painting



Developing software for a mobile application

Technology readiness level



TECHNOLOGIES







Prototypes of printed boards









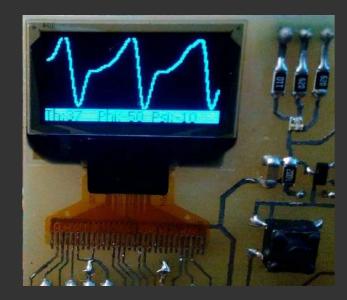
IoT

SMART BRACELET

If a person becomes ill, PAC Sputnik will monitor their vital signs and, if needed, will summon an ambulance. The device can save a person's life, when there is a high chance of recurrence after a heart attack or stroke.

An elderly person will also receive timely assistance, as Sputnik notifies doctors and relatives of health deterioration.



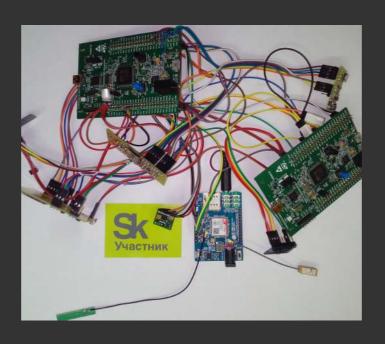


Operating time of the device: I month. NOR Flash memory capacity: 256 MB

Oled display resolution: 128x64 pixel

The device is controlled via the web/application "Sputnik".

PAC dimensions (LxW): 7x5 cm.



ENCATA'S Role





Engineering documentation development



Prototype case making: laser printing, grinding and painting



Developing software for a mobile application



Manufacturing multilayer and printed circuit boards

Technology readiness level



TECHOLOGIES







Prototypes of printed boards





A precise dispensing device is required for realtime alcohol consumption, integration with automated systems and providing customer selfservice functions in the establishment.





The device addresses the issue of cashless payments in establishments. For the client to pay for drinks, NFC technology is embedded. The procedure takes up no more than 5 seconds.

Convenience: one smartphone can replace one or more plastic cards.







CATA'S Role



Industrial design making



Engineering documentation development



Prototype case making: laser printing, grinding and painting



Developing software for a mobile application

Technology readiness level



TECHNOLOGIES









Electronics





RAT TRAP

The trap is designed to record and communicate information about the presence of rodents at the device's location. There is a rodent bait inside the trap. When a rat enters the trap, a sensor is activated, and a message is sent out with information on the trap's status and a counter of registered rodents. The device runs on the NB-IOT network, which provides a long battery run.

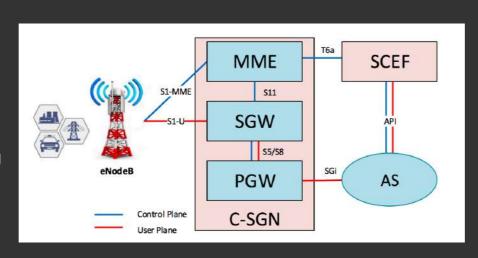




The device is controlled by a server. When a rodent is detected in the trap, the trap number is sent to the server.

Using NB-IOT technology
Device dimensions
(LxWxDG):205x105x154 mm

Operating time: more than I year (using 6V 4 A4 batteries)



ENCATA'S Role



Engineering documentation development



Developing software for a mobile application



Manufacturing multilayer and flexible printed circuit boards

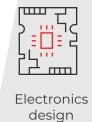
Technology readiness level



TECHOLOGIES











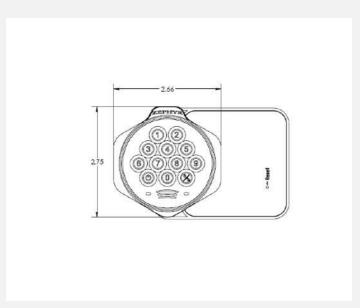
Zephyr LOCK

Zephyr Lock is a new electronic system for remote control of locks.

It can be done using a web interface or a mobile application. The lock can also be controlled by RF and NFC.

To operate the lock, one might use RF or NFC.





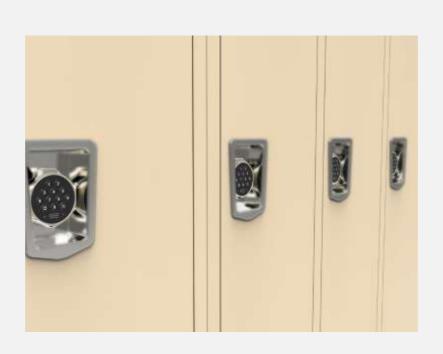
The device is controlled via a web interface or mobile application.

The mobile app has been developed for iOS and Andriod.

The Desktop app communicates with the card reader and user card records.

Device operating time: from 6 months to 1 year (between battery changes).

Device dimensions (LxW): 2.75x2.66 cm



ENCATA'S Role



Engineering documentation development



Prototype case making: laser printing, grinding and painting



Developing software for a mobile application



Multilayer and flexible printed circuit boards production

Technology readiness level



TECHNOLOGIES









Electronics Design

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