



aconno

IoT made easy

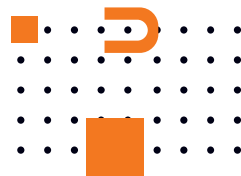


WE ARE ON A MISSION VISION STATEMENT



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By 2025 aconno will be a leading **solution provider** for **connected sensors** delivering information and **Data for predictive analytics, AI and machine learning** – for the **IoT, Industry 4.0** and **Smart City**.



MISSION - WHAT WE DO
DIFFERENT?

We Make IoT
(HW) easy



We connect anything
from beginning to end



aconno creates connected sensor
solutions and custom hardware to solve
customer challenges in digitalization,
Internet of Things and Industry 4.0



THREE COMPLEMENTARY BUSINESS PILLARS



DIY TOOLS

SOLUTIONS FOR DIGITAL
LABS – EXPERIMENT AND
PLAY WITH IOT

DEVELOPING ON ACONNO
PLATFORM



CUSTOM SOLUTIONS

COMMERCIAL SOLUTIONS
FOR DIGITAL PRODUCT
DEVELOPMENT

ENGINEERED, DESIGNED (AND
MANUFACTURED) BY ACONNO



IoT SENSORS

STANDARD SENSORS
CLOUD CONNECTED
READY TO USE

MEASURE, CONTROL
PROCESS, AVOID STAND
STILLS, ISSUES



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acnSENSA Beacon – one of a kind

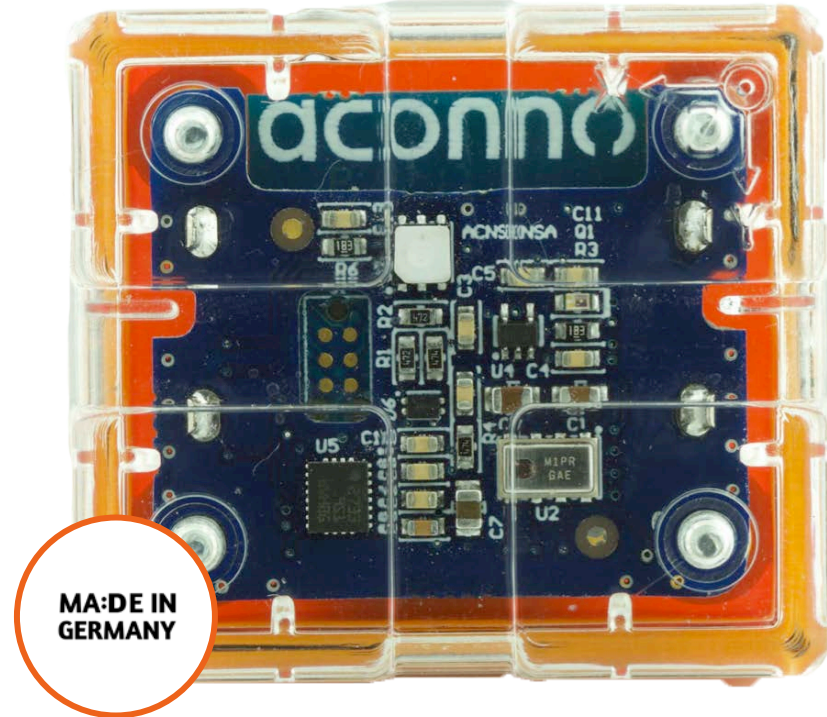


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Bluetooth 5 Sensor Beacon:

- Air-pressure
- Moisture
- Temperature
- Light Intensity
- Magnetic Fields
- Motion/ Direction
- Acceleration

- Complete SoC
- IP67 Case
- 2(-5) Years Battery





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Because it **SOUNDS**
different when a machine
is not running smoothly

ULTRASONIC SENSORS
by aconno





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**BECAUSE A MOTOR
VIBRATES DIFFERENTLY
BEFORE BREAKING**

VIBRATION-SENSORS
by aconno





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BECAUSE our digital data-sheets are available for 97 Years* in Stand-BY.

Beacons
by aconno

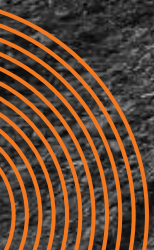


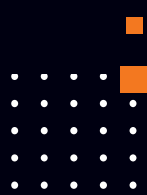


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**BECAUSE we can also
build full stack solutions.**

„Cloud-Fuelling“
– Seppeler Gruppe
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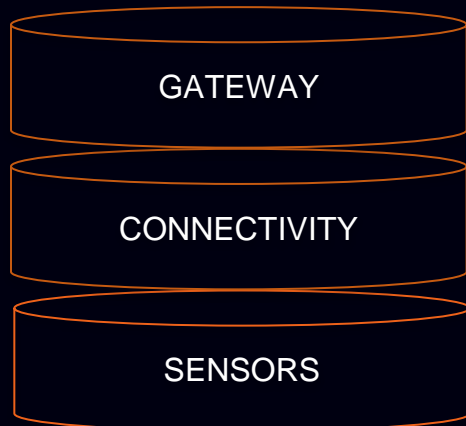




WHERE DO YOU FOCUS ?



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OPTIMIZED HARDWARE FOR IoT:

ULTRA Low power | good SoC performance | standards | open source



BLUETOOTH GATEWAY

PPOE | IPV6 | Easy configuration with mobile App

ARM based Bluetooth SoC | Ultra Low Power | Strong performance Bluetooth Smart, BT 4.2, Bluetooth 5, Mesh, Thread Mesh, (Sigfox)

Temperature | Barometer | Moisture | Light | UV
Magnetometer | Accelerometer | Gyroscope | | solid borne/sound

CUSTOMER REFERENCES WHO WE SERVE



LARGE ENTERPRISES



GERMAN MITTELSTAND



STARTUPS & KMUS

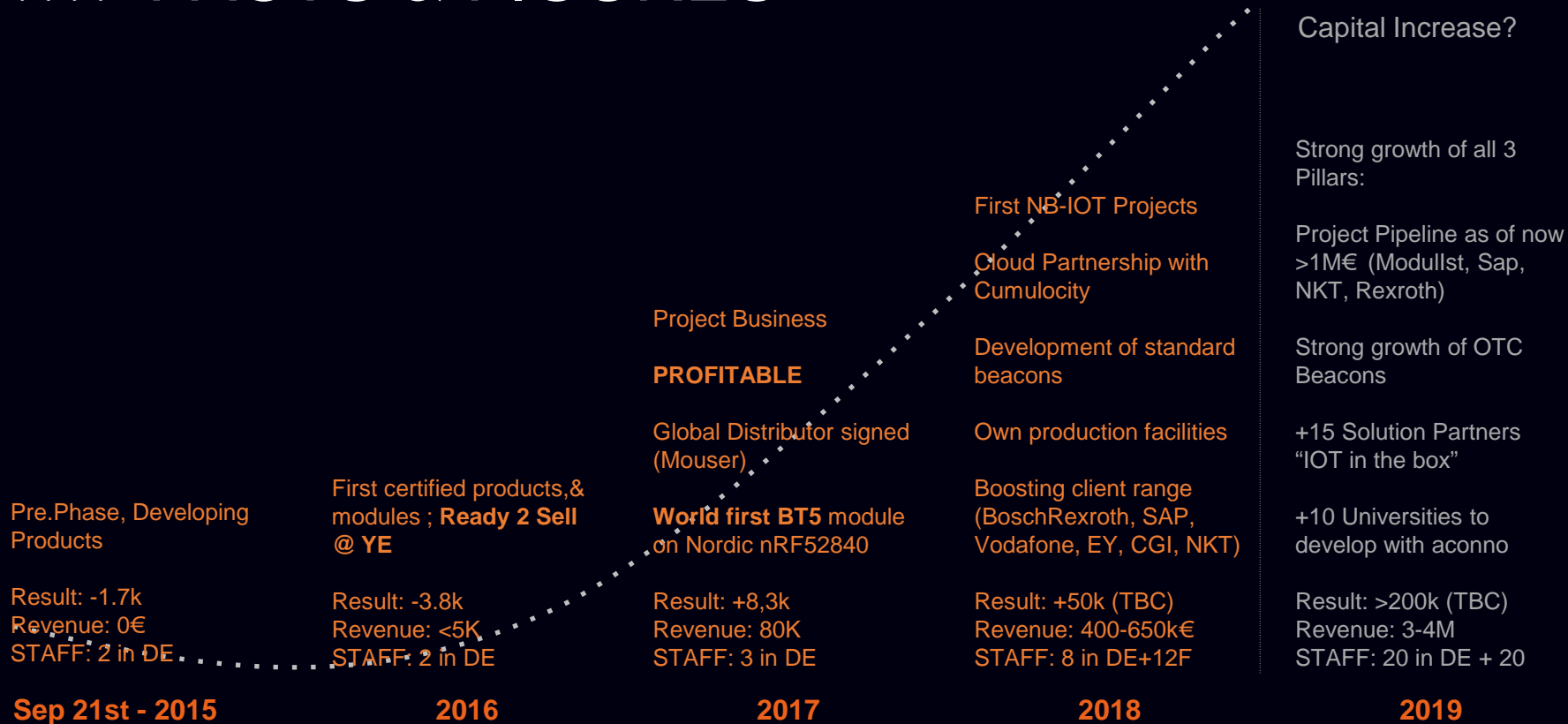


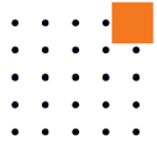
EDU & INSTITUTIONS



Aconno evolution

FACTS & FIGURES





SEARCH QUEST

WHOM WE ARE LOOKING FOR



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Customers:

MACHINE BUILDERS

LARGE INDUSTRY CONGLOMERATES MOVING FORWARD

ON IoT

Partners:

SYSTEM HOUSES & SOLUTION PARTNERS

CONSULTANCIES IN IoT / INDUSTRY 4.0

Distributors:

B2B Distribution of IoT/ Sensor components



LET'S DO I(O)T TOGETHER

GIVE US A SHOUT

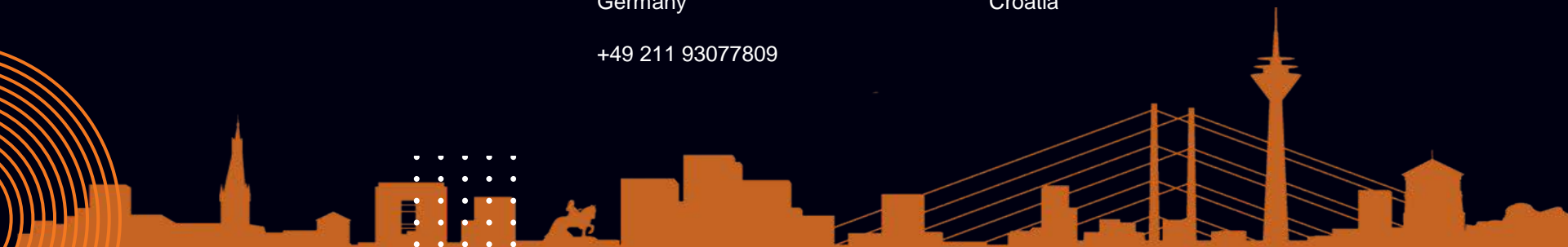
DÜSSELDORF

Volmerswerther Str. 86
40221 Düsseldorf
Germany

+49 211 93077809

ZAGREB

Ul. Grada Vukovara 237C
10000 Zagreb
Croatia





GETTING THE DATA TO THE CLOUD

aconno => PS Systemk => Cloud der Dinge



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aconno acnSENSA Beacon

Bluetooth 5 Sensor Beacon:

- Luftdruck
- Luftfeuchtigkeit
- Temperatur
- Lichtintensität
- Magnetfeld
- Bewegung
- Beschleunigung

>2 Jahre auf einer Knopfzelle



PS Systemk SmartBox

Mobiles 4G Internet Gateway

Optimiert für "Cloud der Dinge"



Dient als Bridge für Bluetooth Beacons



Telekom „Cloud der Dinge“

Cloud Lösung der Deutschen Telekom

Das „Gehirn“



Verbindet alle Geräte und Sensoren

Anzeige von Sensordaten,

Verarbeitung von Sensordaten,



SOME USE CASES ?



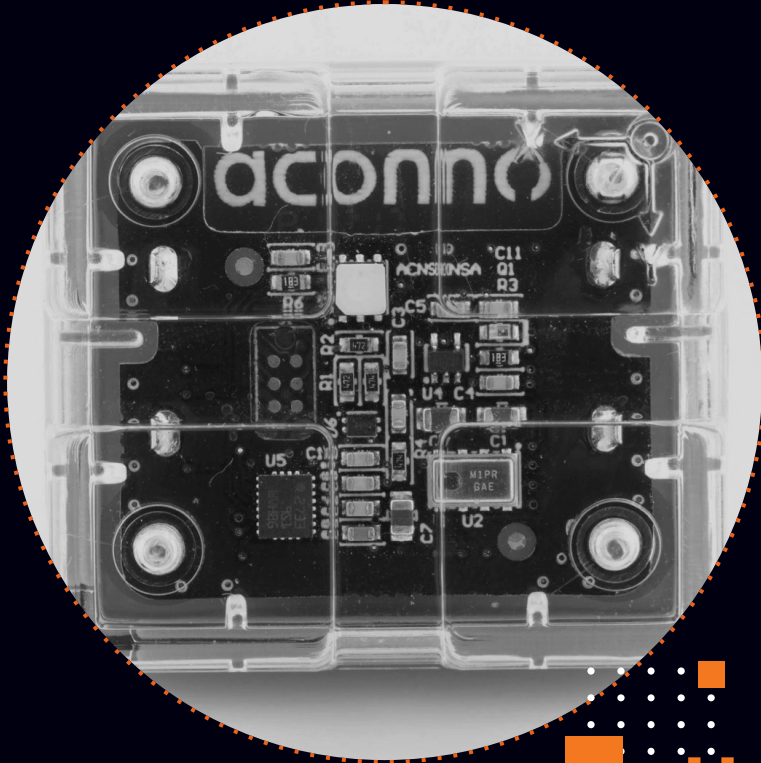
WIDE RANGE OF USE CASE:

- Track and Trace
- Freight monitoring
- Environmental data
- Indoor navigation
- Predictive maintenance
- Smart fuelling
- Asset tracking





ENVIRONMENTAL CONTROL



Mission

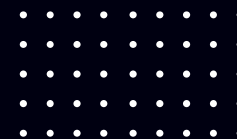
TRACK
ENVIRONMENTAL DATA
IN TRANSPORT OR IN
PRODUCTION FLOOR

SOLUTION:

aconno acnSENSA Beacon with mobile
app and MQTT BT-WIFI/Ethernet
Gateway



INDOOR LOCATION



GET AROUND YOUR
SHOPPING MALL
INDOOR LOCATION
WITH
POSITION **BEACONS**
ON ACONNO HW



SMART LABELLING



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Mission

Create Digital Bridges - support online-shopping list creation in store

SOLUTION:

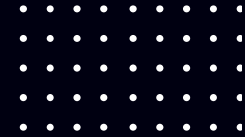
Smart labels with beacons & NFC can pass information of the product to the application for future online purchase



OFFLINE-ONLINE BRIDGE



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Mission

—
CREATE A DIGITAL
HANDOVER FOR
ADVERTISING

SOLUTION:
SMART ADVERTISING – adding a re-programmable Bluetooth Beacon controlling an NFC TAG to provide smartphones with a link to the campaign





FREIGHT MONITORING



Mission

—
ENVIRONMENTAL DATA
MONITORING DURING TEXTILE
TRANSPORT FOR QUALITY
ASSURANCE

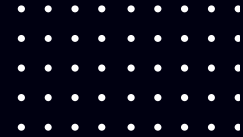
SOLUTION:

Freight-monitoring beacon tracking all
relevant data (temperature, light,
moisture and air-pressure)





ASSET DELIVERY MONITORING



Mission

—
HOW HAS MY PACKAGE BEEN TREATED THROUGHOUT DELIVERY? WAS IT THROWN AROUND?

SOLUTION:

SENSOR BEACON TRAVELLING MOUNTED TO THE GOODS/ IN THE BOX AND MEASURING KEY VAUES





FRESH? HOME DELIVERY



Mission

HAVE MY GOODS STAYED COOL ENOUGH OR HAS THE CHAIN BEEN BROKEN?

SOLUTION:

DELIVERY TRACKING BEACONS MONITORING LIGHT, SHOCK AND TEMPERATURE

APPLICATION FOR CHECKOUT BRINGS THE CUSTOMER BACK TO THE ORDER-APP





ASSET LOCALIZATION



Mission

SUPPORT ASSET FINDING AND
LOCALIZATION ON LOGISTIC
PREMISE

SOLUTION:
IDENTITY BEACONS AND ON
PREMISE LOCALIZATION
COMBINED WITH BAROMETER FOR
HEIGHT LEVELING





ASSET LOCALIZATION



Mission

—
ASSET FINDING AND
LOCALIZATION ON PREMISE

SOLUTION:
IDENTITY BEACONS AND ON
PREMISE LOCALIZATION

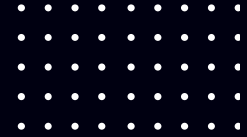




PERFORMANCE MONITORING



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Monitor Performance



INDUSTRIAL GRADE **SENSOR
BEACONS** MONITORING MOTOR
VIBRATIONS TO VALIDATE
OPERATION WITHIN TOLERANCE



DATA PREDICTIVE MAINTENANCE



Real-World Data

—
MONITORING **BEACONS**
DELIVERING TEMPERATURE
AND MAGNETIC FIELD DATA FOR
PREDICTIVE MAINTENANCE





SENSING-RETROFIT MATERIAL NEED



Real-World EXAMPLE

—
MONITORING **BEACONS**
DELIVERING INFORMATION ON
THE REMAINING SUPPLY OF
FABRICS FOR TEE-BAGS

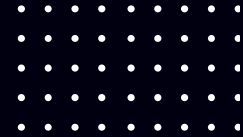




SENSING FILL STATUS



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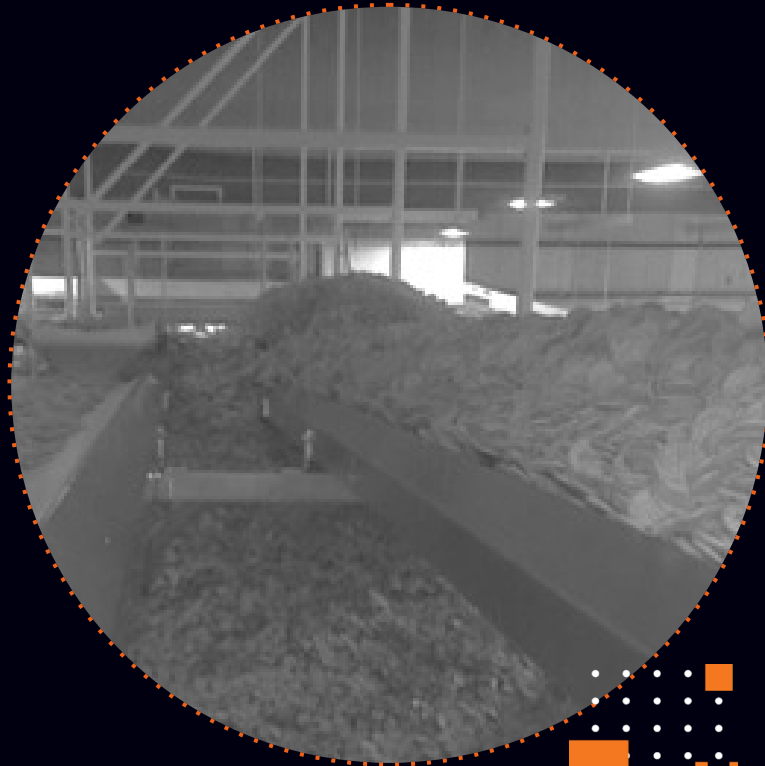
Real-World EXAMPLE

—
MONITORING **BEACONS**
DELIVERING INFORMATION ON
THE FILL STATUS OF BEER
CASKS AND GAS BOTTLES
USING ACOUSTIC RESONANCE





RETROFIT SENSING OVERFLOW



Real-World EXAMPLE

—
MONITORING SOLUTION
OVERSEEING CONVERBELTS
DELIVERING INFORMATION ON
THE FILL STATUS/ OVERFLOW
ISSUES AND CLIMATE





SENSING ANIMAL HEALTH



POSSIBLE EXAMPLE

—
MONITORING **BEACONS**
DELIVERING INFORMATION ON
THE MOTION AND HEALTH OF
CATTLE





SENSING FREE PARKING



Real-World EXAMPLE

—
MONITORING **BEACONS**
DELIVERING INFORMATION ON
FREE PARKING USING A TIME OF
FLIGHT SENSOR





SMART FUELLING



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Mission

PREVENT FUEL THEFT ON
CONSTRUCTION SITES

DELIVERED:

anti-theft solution, at a 10% of original
cost

+new data service proposition enabling
re-occurring service revenues and
differentiation





SMART FUELLING REMOTE



Mission

PREVENT FUEL THEFT ON
CONSTRUCTION SITES

DELIVERED:
anti-theft solution, at a 10% of original
cost

+new data service proposition enabling
re-occurring service revenues and
differentiation

