

Interoperable lot Solutions BASED ON EDGE COMPUTERS

COMPANY PROFILE JUNE 2020



WHO WE ARE

Innovative SME, established in 2007 by skilled people with R&D and industrial experiences:

- Embedded Electronics (HW/FW), Wireless Sensors Networks, rapid prototyping,
- ICT (edge computing, web, cloud, communication protocols, IoT open-source Software Frameworks)
- IoT enabling technologies, Sensors → Edge → Cloud Data Retrieval and Cloud → Edge → Sensors
 Command & Control
- Energy modelling, Thermography Certified Operator.

TERA has gained valuable experience in the development of **custom electronics** delivered to several companies and has contributed to the development of **original high-tech solutions** by participating in national and European cooperative R&D projects.





WHO WE ARE

Tera's **partner network** enables the best personalized solutions to customers belonging to different industries.



Exprivia, Italtel, Bosch, Engineering, IBM, Energenia, OpenWork, Enel, E-Distribuzione, Politecnico di Bari, CNR, Ansaldo Caldaie, British Research Establishment, Barcelona Digital, Isotrol.







ANTONIO SACCHETTI CEO





ANGELA PALMIROTTA BDM & Digital Strategist

LARA D'ARGENTO GrowthHacker & Digital MarCom

3

AWARDS & ACKNOWLEDGMENTS

EFIWARE

Telefonica

engie



2020 Finalist at «Next Energy4» competition, promoted by Terna, Cariplo Foundation and Cariplo Factory.



2019 Selected by ICE to be part of Italian Pavillon @ World Mobile Congress



INCENSe

🕫 FundingBox

2016 Selected to be part of FIWARE success story at IoT Solution World Congress and Smart City Expo World Congress

PIONEERS

2017 Selected to be part of Pioneers 500 competition



2016 Selected to be part of **GSMA Mobile IoT** showcase (NB-IoT technology)



2016 Finalist at BNP Paribas Cardif Open-F@b Call4Ideas



enel

endesa

2016 Seal of Excellence awarded by UE 2016 CRIBIS D&B rating 1

2016 Selected to be part of Engie Lab at

VIVATECH LAB - Paris

2015 INCENSe - INternet Cleantech ENablers Spark project

2015 Part of "100 ITALIAN ENERGY STORIES", issued by ENEL and Symbola Foundation presented @ COP21 meeting, Paris 19th April 2016

2015 Finalist @ South Summit, greatest Spain competition for SMEs and startups



100 ITALIAN

ENERGY STORIES



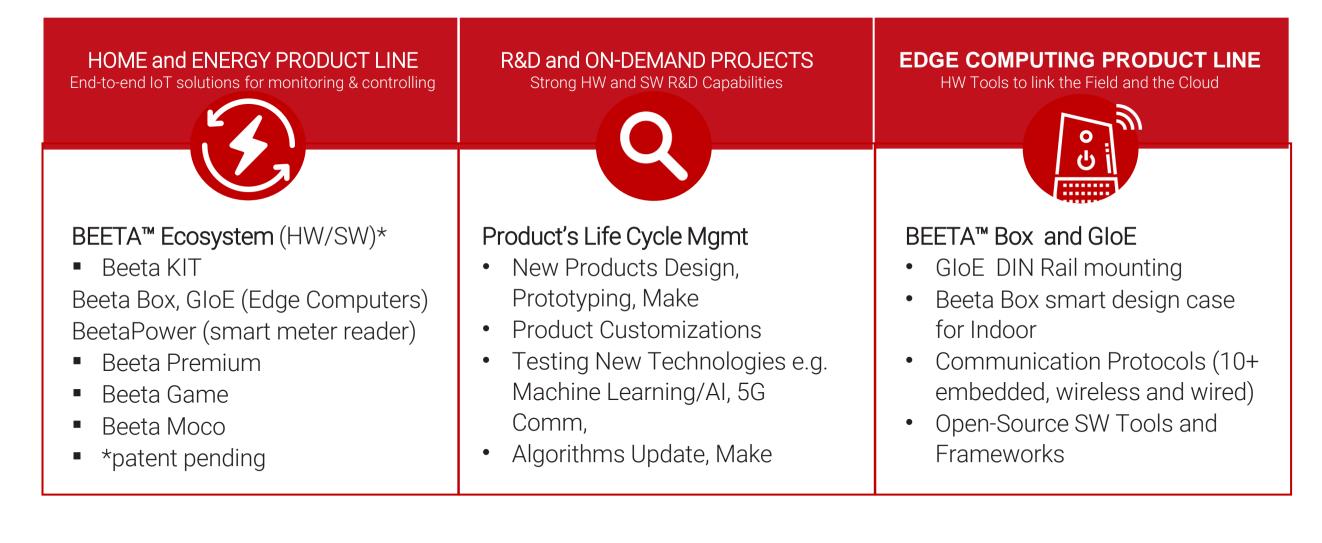
INTELLECTUAL PROPERTY AND PATENTS

- Italian Patent for Invention, BEETA "Sistema intelligente per la diffusione di fragranza di profumazioni in un ambiente confinato, N. 102018000007878, filed 06.08.2018, patent pending
- Community Registered DESIGN of Beeta Smart Fragrance Diffuser, N. 005485, 9/7/2018
- Copyright of the rules of the game and the Ecosystem in the Beeta App «Gioco and Ecosystema Beeta»; SIAE OLAF N. 2018000233, 16.02.2018
- Community Registered DESIGN of Beeta App main graphic elements, N. 004716470 , 20/2/2018
- Community TRADEMARK BEETATM, no. 015228752, Figurative mark «BEETA BUILDING ENERGY EFFICIENCY TRUSTED ADVISOR»
- Community Registered DESIGN: "BEETATM : BUILDING ENERGY EFFICIENCY TRUSTED ADVISOR" Num. 003322692-0002 and -001 , 28/07/2016
- National and international Patent for Invention, BEETA "Intelligent system for monitoring a reference environment, suitable for multisensory interaction with a user" PCT/IB2017/057047, priority Italian Patent N. 102016000114194, filed 11.11.2016, patent pending
- Italian Utility Model: "LETTORE DI SEGNALAZIONI OTTICHE, MEDIANTE TRASDUTTORI FOTOELETTRICI, ADATTABILE A QUALUNQUE TIPO DI CONTATORE" -filed 31-07-2015, N. 202015000040858N
- International patent, W02011074025, "ANTITHEFT SYSTEM FOR PHOTOVOLTAIC PANELS", priority 14.12.2009, GRANTED in: USA, US 8,736,449, Europe: No. EP 2513879, Italy: N. 0001397463
- ITALIAN Patent for Invention "SISTEMA UNIVERSALE DI ADATTATORI MODULARI PER INSTALLAZIONE RAPIDA DI SCHEDE ELETTRONICHE PER L'IMPIANTISTICA CIVILE E LA DOMOTICA», granted, 20.04.2012, N. 0001393288.





WHAT WE DO







INTEROPERABLE EDGE COMPUTERS AND IOT DEVICES

Beeta Box

0 0 0

Edge computer for indoor, multisensory interface, OTA upgradable, sensors and actuators on board.

tera

GloE

Industrial edge computer, DIN rail mounting for outdoor, multiprotocol, OTA upgradable, customizable.

3105

Beeta MoCo

Modulation Controller managing bi-directional energy flows of battery storage inverters and other electrical equipments and loads, also in retrofit.

Beeta Reader

Plug&Play Smart Meter Reader, it reads 1G and 2G fiscal smart meters from edistribuione and FV production.

8



SMART HOME/SMALL BUILDINGS

- Make Building Smart means enable Energy, Comfort, Security Measurements to analyze Inefficiencies and adopt Countermeasures
- Make Building Smart means engaging users

IoT, Artificial Intelligence, Machine Learning, Big Data Analytics are the enabling technologies to Smart Building



TERA PRODUCTS FOR SMART BUILDING & HOME



and

App for Home

Third Parties

Building Mgmt SW Platforms

BEETATM Box BEETATM Game App and GIOETM BEETATM Premium



Smart Multiprotocol

Gateway / Edge

Computer

BEETATM Power Sensors Suite from Marketplace





ADDRESSED MARKETS

SMART HOME/SMALL BUILDINGS PRODUCT DETAIL





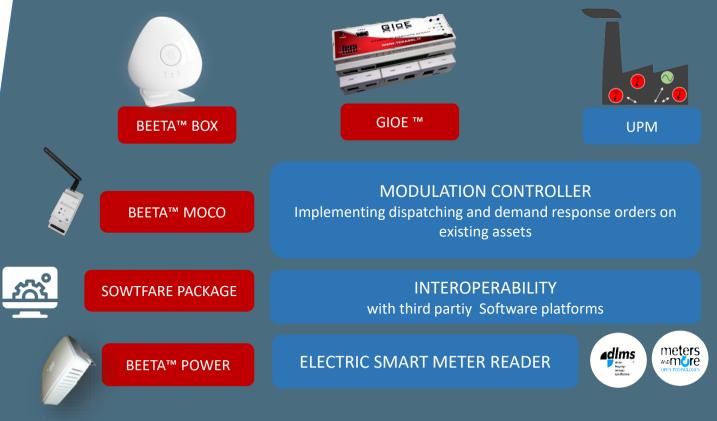


ADDRESSED MARKETS

DIGITAL ENERGY Distributed Energy Resource's Smart Grid

- EU Clean Energy Package requires *Smart Grids* and new *Supplier-Consumer relationships*, opening the era of the Digital Energy Mkt
- DR (Demand-Response) technologies for Balancing Services required by Energy Communities and Prosumers' Aggregation (UVAM, Unità Virtuali Aggregate Miste) setting-up: this is Tera's playground
- **Privately Held Distributed Renewable Energy Plants** equipped w Storage Systems (**BESS**) and low-cost Electronic Systems emerging players for the aggregation and energy balancing
- Tera's Customers: BSPs ("Aggregators", energy players delivering services for grid balancing and energy communit
- Tera's Products:
 - Beeta Box/GIoE (edge computers)
 - Beeta Power (meter Reader)
 - Beeta MOCO (energy flows controller)
 - Software Package

TERA PRODUCTS FOR DIGITAL ENERGY





OTHER ADDRESSABLE MARKETS

ADDITIONAL INDUSTRIES



Building/Asset Management



Transportations/ Logistics



Powertrain Control



Salesforce MGMT



Agricolture



Manufacturing



Telco & Energy Operator

TERA PRODUCTS FOR ADDITIONAL INDUSTRIES



Edge Computer GloE

Remote Monitoring and Atmosphere Control System for Agrifood Logistics



Real Time Hydraulic Power Transmission Controller



TERA4AGRI

Thank you!



Original Solutions for Energy Efficiency





Buildings Energy Efficiency Trusted Advisor



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