# BeonD s.r.l.

**BeonD** is the Spin Off of Politecnico di Torino about *Sustainable Mobility*, born and now growing in I3P, the Politecnico di Torino Incubator for Innovative Start-Up companies.

# BeonD Team

Prof. PhD **Massimiliana Carello**
(Co-funder, President)
**Assistant Professor at the Politecnico di Torino and Professor of Chassis Design, founder of Polito Research Group IEHV (Innovative Electric & Hybrid Vehicles), Faculty Advisor and co-founder Team $H_2$polito**

Dr. PhD **Andrea Airale**
(Co-funder, CEO)
**PhD in Mechanical Engineering, Researcher on Advanced Composite Material in IEHV Reserch Group, Team Leader XAM 2.0 Project, Team Leader and co-founder Team $H_2$polito.**

Dr. **Alessandro Ferraris**
(Co-funder, CTO)
**PhD Student in Mechanical Engineering, Researcher on Vehicle Dynamics, NVH, Electric and Hybrid Powertrain in IEHV Reserch Group, Project Manager and Technical Coordinator of XAM 2.0 Project**

Dr. **Paolo Massai**
(Marketing & Technical Supervisor)
**Ex Vice President ALFA ROMEO, Ex FERRARI F1 Powertrain Chief, Professor of Aerodynamic at the Politecnico di Torino**

**+ 1 Employee**
**(by 2016)**

**+ 3 Employees**
**(by 2017)**

**+ 4 Employees**
**(by 2018)**

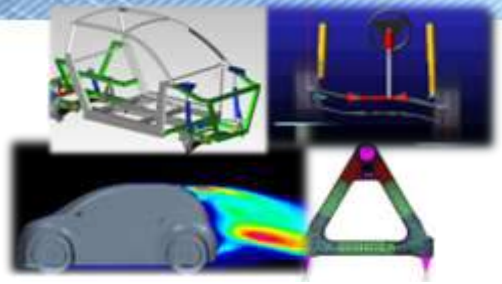
# Who We Are: Politecnico di Torino SPIN OFF

Spin Off del Politecnico di Torino

BE ON D

## Engineering

- Aero-Design & Vehicle Dynamics
- Lightweight Design
- Electric & Hybrid Powertrain Design



## Urban Mobility Concept

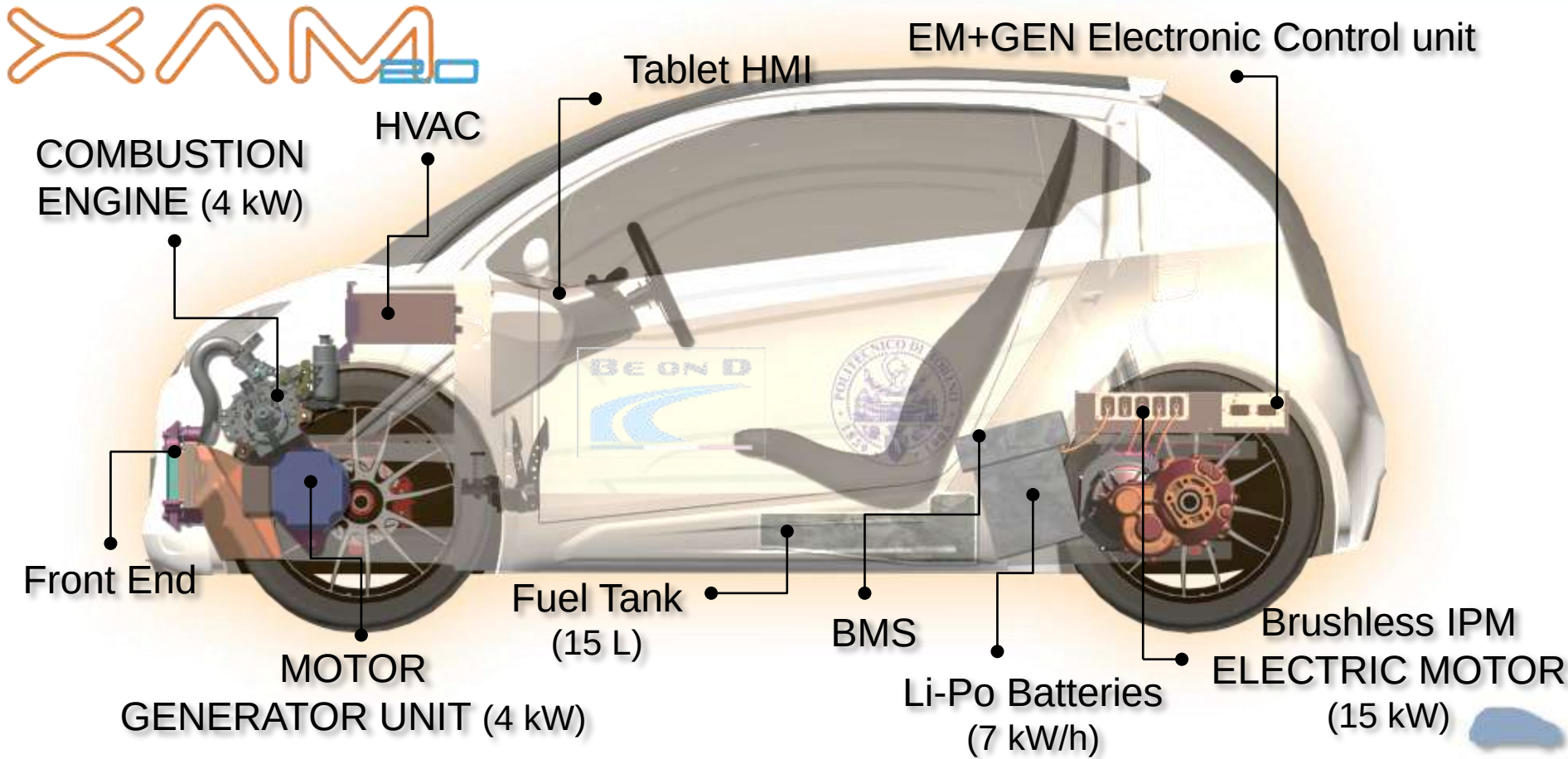
- Definition of New Vehicle Concept
- Design and Engineering
- Prototyping and Testing

## R&D

- Advanced Thermoplastic CFRP
- Turbo-E & Hybrid Solutions


# XAM 2.0: «*Technological Platform*»

# Our Technogical Demonstrator (TRL 6)



# Technological Demonstrator: XAM 2.0 (TRL 6)

| Tech Info | XAM 2.0 |
|---|---|
| Weight | 411 kg |
| Lenght | 2800 mm |
| Height | 1280 mm |
| Width | 1300 mm |
| Cx | 0,30 |
| Max Speed | 110 (80 km/h electronic limitation) |
| Time acc 0-50 km/h | 6 s |
| Energy Storage | Li-Po Batteries (6,8 kWh) |
| Power | 15 kW |
| Consumption | 60 Wh/km |
| EV Range | 70 km |
| E-REV Range | 400 km |
| Road Legal | YES |

Road Legal with TRIAL PLATE

Self-funded Project

Testing Vehicle Technological Platform

Innovative Sub-System

# BEOND Technologies: Value Proposition


App for Car Sharing

**Digitally** integrated:
- Keyless go;
- HMI App interface;
- Bluetooth hands free + USB
- LTE integrated

- 15 kW Electric Drive
- Reduced rolling resistance tyres
- Brake energy recovery

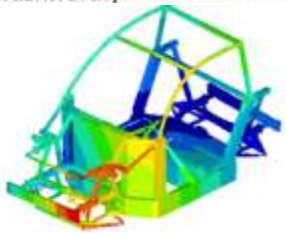
**SAV-E /SAV-E plus** mode

**Easy** to park

**Lightweight** design (400 kg)

**300 km** in Extended Range Mode
**60 km** in EV mode

Designed to **save lives**:
- Electric shock protection
- Crashworthy



Design for Aerodynamic

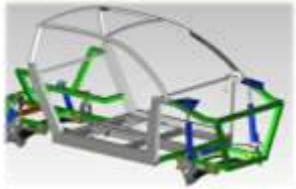
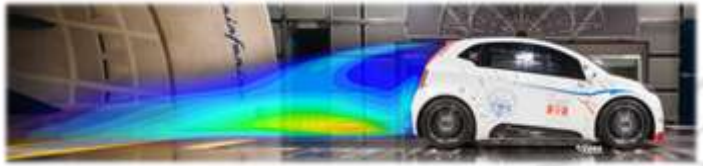
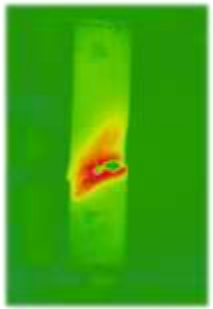
# Same Platform Different Products & Applications

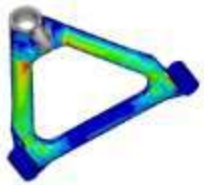
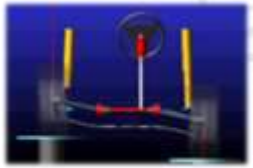
BE ON D

*URBAN ELECTRIC*

*MOBILITY SOLUTIONS*


# High Level Engineering Consulting

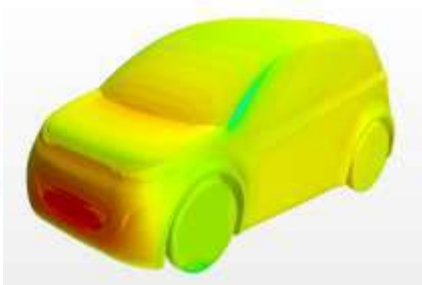

## TECHNICAL

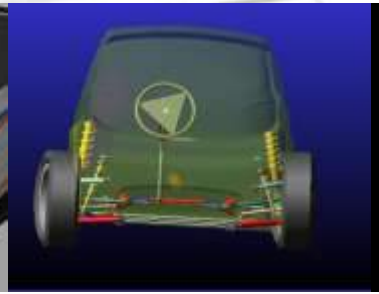
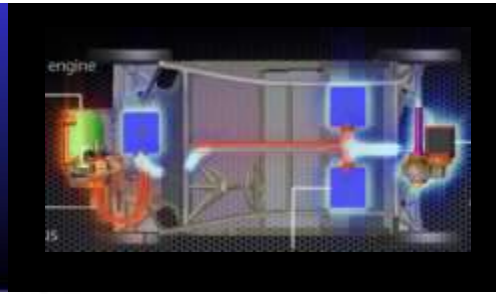
- **Aero-Design** and **CFD** Simulation
- **Advanced Composite Material** Design, **FEM** and **Process** Analysis
- **Vehicle Dynamics** Modelling and Engineering
- **Hybrid and Electric Powertrain** Dimensioning, Modelling and Mechatronics Design

## MANAGEMENT

- Turn-key Vehicle **Prototype Constructions**
- **Technical Supervision** Vehicle Project Development

# Contacts


c/o I3P S.c.p.a.
c.so Castelfidardo 30/a 10129 Torino
+39 011 198 26 593/ +39 366 56 10 939
info@beond.net
www.beond.net
C.F. e P. IVA: 11042570017