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 H₂politO

+ 1 Employee  
(by 2016)

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 H₂politO.

+ 3 Employees  
(by 2017)

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

+ 4 Employees  
(by 2018)

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

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)

- Combustion Engine (4 kW)
- HVAC Motor
- Generator Unit (4 kW)
- BMS
- Li-Po Batteries (7 kW/h)
- Fuel Tank (15 L)
- Brushless IPM Electric Motor (15 kW)
- Front End
- Tablet HMI
- EM+GEN Electronic Control Unit

XAM 2.0
## Technological Demonstrator: XAM 2.0 (TRL 6)

<table>
<thead>
<tr>
<th>Tech Info</th>
<th>XAM 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>411 kg</td>
</tr>
<tr>
<td>Length</td>
<td>2800 mm</td>
</tr>
<tr>
<td>Height</td>
<td>1280 mm</td>
</tr>
<tr>
<td>Width</td>
<td>1300 mm</td>
</tr>
<tr>
<td>Cx</td>
<td>0.30</td>
</tr>
<tr>
<td>Max Speed</td>
<td>110 (80 km/h electronic limitation)</td>
</tr>
<tr>
<td>Time acc 0-50 km/h</td>
<td>6 s</td>
</tr>
<tr>
<td>Energy Storage</td>
<td>Li-Po Batteries (6.8 kWh)</td>
</tr>
<tr>
<td>Power</td>
<td>15 kW</td>
</tr>
<tr>
<td>Consumption</td>
<td>60 Wh/km</td>
</tr>
<tr>
<td>EV Range</td>
<td>70 km</td>
</tr>
<tr>
<td>E-REV Range</td>
<td>400 km</td>
</tr>
<tr>
<td>Road Legal</td>
<td>YES</td>
</tr>
</tbody>
</table>

- **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

SAV-E / SAV-E plus mode

Lightweight design (400 kg)

Designed to save lives:
- Electric shock protection
- Crashworthy

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

Easy to park

300 km in Extended Range Mode
60 km in EV mode

Design for Aerodynamic
Same Platform Different Products & Applications

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
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