

Search for a Spanish Partner for a Bilateral R&D Project (this document will be shared with potential Spanish companies)

Organization	
Date of Request:	20 / 02 / 2019 NB. First request email sent to Mr. Elmrabet on Jan. 25 th , 2018
Company name:	Ecole Nationale des Sciences Appliquées d'Oujda "ENSAO" (Public Engineering School) Altran Maroc (Company)
Contact person and title/ designation:	Driss Yousfi Dr.
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SECTION 1: Your Company Profile		
(Please give brief / to the point explanations. For more explanation on any point below, you may add a		
short paragraph as an annexure, with this doct		
Business Sector	AUTOMOTIVE	
	AERONAUTICS	
	RAIL, INFRASTRUCTURE &	
	TRANSPORTATION	
	ENERGY	
	INDUSTRIALS & ELECTRONICS	
	SPACE, DEFENSE & NAVAL	
Company mission or core functions	ENGINEERING AND R&D SERVICES	
	6 KEY ACTIVITIES	
	Consulting,	
	Digital,	
	Engineering,	
	World Class Centers,	
	Industrialized GlobalShore®,	
	Innovative product development	
Date of establishment	1990	



Ownership (if public and traded, add stock exchange and ticker symbol)	Please visit the website: https://www.altran.com/ma/fr/
Total number of employees	More than 1000 in the Moroccan site
Number of employees in R&D	More than 2/3 of the employees
Key products sold or services	Please visit the website:
provided	https://www.altran.com/ma/fr/
Company core technical	Electrical and computer engineering
competences	
Key R&D programs and activities	POWERTRAIN & ELECTRO MOBILITY
	COMPLETE VEHICLE DEVELOPMENT
	Autonomous Driving
	Software-defined vehicles
	Cybersecurity in automotive
Examples of accomplishments	Please visit the website:
	https://www.altran.com/ma/fr/
Company strategic orientation	Please visit the website:
	https://www.altran.com/ma/fr/

SECTION 2: Partner of Interest (Please provide a brief summary of the prospective partner company or organization. This summary may address some or all of the points below)			
Profile of ideal technology partner	Product Designer and/or Manufacturer, Product Installer, or Service provider.		
Core technological competencies and expertise	Charging station installation for Electric Vehicle. Battery charger for Electric Vehicle. Battery pack for Electric Vehicle. Electric/Electronic circuit design and manufacturing.		
Other essential qualifications (e.g.: ownership, track records etc.)			
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details			
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	The objective of the project is to develop a new type of high-power integrated motor drive and battery charger for electric vehicles. Compared to today electric vehicle chargers, the new system is expected to reduce the cost by around 1,200€ and		



	shorten the charging time to two hours. This project will induce at least one product patent.
Interested areas of collaboration	EV Charger
Specific R&D contribution you are seeking/offering	We expect a contribution in one or more of the following tasks: - Experimental study of the impact of bidirectional charging on commercial Lithium-ion battery. - Contribution to the design of on board Bidirectional Charger Traction Drive. - Installation of the demonstrator and System validation.
	please see the attached summary.

Signature Name: Driss Yousfi Date: 20/02/2019