

PROPELLING QUÉBEC
FORWARD WITH
ELECTRICITY



THE ELECTRIC AND INTELLIGENT TRANSPORT SECTOR IN QUÉBEC

A WORLD OF ADVANCED TECHNOLOGIES



A WORLD OF ADVANCED TECHNOLOGIES

QUÉBEC IS THE IDEAL PLACE FOR ENTREPRENEURS AND INVESTORS WHO WISH TO ADVANCE THE ELECTRIC VEHICLE INDUSTRY, IN PARTICULAR THROUGH:

- the recognized know-how of its businesses and research centres;
- its abundant natural resources and hydroelectricity;
- its numerous assets, such as competitive energy rates and operating costs.

A SOLIDLY ESTABLISHED GROUND TRANSPORTATION INDUSTRY

- The Québec transportation equipment industry encompasses some **650 companies** that employ more than **32 600 workers**.
- Of this number, more than **137 firms** employ **7 200 workers** in the automobile and airborne electronics industries.
- Large manufacturers operate in Québec: buses (Volvo Group), commercial vehicles (Paccar), recreational vehicles (Bombardier Recreational Products) and railway vehicles (Bombardier Transportation).
- Suppliers are found at all levels of the supply chain that offer diversified products and services.
- Québec suppliers are recognized the world over for the excellence of their:
 - aluminum processing processes;
 - high-power-efficiency electric powertrains;
 - high-purity battery materials and lithium metal polymer batteries;
 - smart, self-driving and connected vehicle systems.
- Montréal is an outstanding centre of expertise in microelectronics, telecommunications, software, big data, video simulation, and deep structured learning.

STATE-OF-THE-ART RESEARCH CENTRES FOR THE AUTOMOTIVE INDUSTRY

➤ Québec has 75 university, college and private groups and research centres in key sectors, including:

- manufacturing processes;
- battery materials and energy storage systems;
- optical and photonic solutions, especially for self-driving vehicles;
- deep structured learning.

CLEAR GOVERNMENT STRATEGIES ARE SUPPORTING THE INDUSTRY

➤ The **2015-2020 TRANSPORTATION ELECTRIFICATION ACTION PLAN** includes support measures for the development of the electric vehicle industry.

➤ **QUÉBEC'S ALUMINUM DEVELOPMENT STRATEGY 2015-2025** seeks, in particular, to bolster the competitiveness of Québec suppliers of the automotive industry.

➤ The **QUÉBEC RESEARCH AND INNOVATION STRATEGY** includes measures aimed at companies in the auto industry.

➤ A new **DIGITAL STRATEGY** will cover the question of intelligent transport.

ORGANIZATIONS DEVOTED TO THE DEVELOPMENT OF THE TRANSPORT SECTOR

- The electric vehicle and smart vehicle industrial cluster.
- Other clusters are directly or indirectly linked to transportation and automobiles: Ecotech (green technologies), TecnoMontréal (ICT) and AluQuébec (aluminum).
- Other associations include the Québec Ground Transportation Cluster.

QUÉBEC: CLOSE TO KEY EASTERN NORTH AMERICA MARKETS

- **70 universities**
- **3 000 transportation, ICT and electric transport companies, including five world-renowned automakers (Toyota, Honda, General Motors, Ford, Fiat/Chrysler)**
In the Québec City-Windsor Corridor.