CONFINDUSTRIA Lombardia

Regione Lombardia

CORPO CONSOLARE DI MILANO E DELLA LOMBARDIA

"Dialogues between Lombardy and Consular Corps: how to involve companies to become smart & green"

WORLD MANUFACTURING FOUNDATION

MISSION

In order to an **efficient use of the Recovery Funds:**

- To **compare** Lombardy Region with other foreign Regions and Countries in terms of **SMEs incentives and policies for improving digitalization and sustainability.**

- To reinforce the role of **Consular Corps as channel to promote market opportunities** of their Countries to lombardy companies.

HOW ?

Stimulating

trilateral dialogue in strategic sectors

to make our territories **smart and sustainable**,

comparing more and less advanced areas of the world.

Undersecretary to the Presidency
of the **Lombardy Region**
Alan C. Rizzi:

*«As the Consular Corps of Milan and Lombardy play a key role in promoting **international economic cooperation**, the Lombardy Region strongly wanted to involve them through the organization of a webinar cycle, which focus on **manufacturing** and **sustainability**.»*

CYCLE OF 3 WEBINARS ON...

Clean energy

With the participation of the Consulate General of Australia and Brazil and the collaboration of the Lombardy Energy Cleantech Cluster.

Webinar date: 26 May 2021

Artificial intelligence

With the participation of the Consulate General of Canada and Poland and the collaboration of the Lombardy Cluster Associazione Fabbrica Intelligente.

Webinar date: 22 June 2021

Sustainable mobility

With the participation of the General Consulate of Mexico and Finland and the participation of the Lombardy Mobility Cluster.

Webinar date: 8 July 2021

Dean Salamanca:

*«Clean Energy **is not an alterantive** anymore,*
*but a **necessity.***
*Countries **must collaborate***
*to face **together** climate change»*

CLEAN ENERGY

ITALY & LOMBARDY

Italy has invested **70 billions euro** in clean energy during the last **5 years**

LOMBARDY TARGET: from 15% to 30 % of **energy mix** until **2030**

Hydroeletric is the most relavant renewable resource in Italy

1/4 of the hydroeletric national **production** is located in **Lombardy**

LE2C

http://www.energycluster.it/en

LE2C is the regional technology cluster for **energy and the environment:** it works to **support the growth, innovation and competitiveness** of production in Lombardy.

It **supports the internationalization of its companies and technology transfer,** especially for SMEs.

LE2C
LOMBARDY ENERGY CLEANTECH CLUSTER

FOCUS AREAS

SECTOR PROFILE IN LOMBARDY:

N.Companies: 500

Turnover: 23 billions euro

Employees: 15.000

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AUSTRALIA

Lines of intervention of the **Lower Emission Tecnology Statement:**

- **Clean hydrogen** – target: to become the producer. In progress cooperation agreement with Corea and Japan.
- **Low Carbon Materials**
- **Carbon Capture and Storage**

Half billion dedicated **to increase partenerships** with **foreign Countries**.

From 2017, 30 billions AUD invested in clean energy. Energy production using **renewable resources** come from rural areas: solar, eolic, etc…

Committed to **circular economy and waste to energy.**

Electric components is increasing: 18 billions of investments which created 13.000 new jobs.

BRAZIL

Producer of 7% of clean energy in the world.
46% of energy come from renewable resources (83% if only electricity is considered).

From 2000 to 2019 increased by **75%** in the supply of **renewable energy**.

Main national objectives: **decarbonization and to guarantee a secure national energy supply.**

It **launched a program** for the **diversification** of the energy resources: from oil and fossil fuels to **biofuels and electric. Target:** clean energy increased by **60%,** attracting 50 billions of foreign investments in the sector thanks to incentives and tax relief. It provides **specific calls and procurement** for **foreign partners** which represent a best practice.

Consular Corps Coordinator
Michelangela Vismara:

*«AI evolution started in 1956 with industrial algorithm, the **machine learning** era is now in full expansion*

*the **global AI market value** of 0.69 trillion dollars in 2017 is likely to reach **6.40 trillions dollars in 2025** "*

ARTIFICIAL INTELLIGENCE

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ITALY & LOMBARDY

Italian **PNRR** represents a big occasion to introduce AI in companies: **26,7 billions euro** are dedicated to **digitalization**, innovation, and competitiveness in manufacturing system.

Manufacturing is the **major investor** in **technology and Artificial Intelligence** after financial services.

AFIL

www.afil.it

AFIL is the regional cluster on advanced manufacture which **promotes best practices and enables technologies** among companies to **support and develop the leadership and the competitiveness** of the Lombardy production system.

It **supports Lombardy Region in defining R&I strategies** regarding the **manufacturing** sector.

Lombardy is the **first manufacturing Italian Region** and **third in Europe** for number of **employees.**

SECTOR PROFILE IN LOMBARDY:

N. Companies: 88.743

Turnover: 250 billions euro

Employees: 890.773

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CANADA

In 2017, was the first Country that adopted a **national AI strategy**: the Pan-Canadian AI Strategy, which started with the **definition of industry needs and standards.** It worth **$125M.**

Since the launch of the strategy:

- **100+ AI research chairs** attracted
- **1.200+ graduated students** trained at the AI Institutes
- **$600M** in **VC funding** for Canadian **AI startups.** 650 startups with AI projects
- **45** new **AI R&D labs** in partnership with major **multinational companies.**

Canadian AI firms are mainly involved on **application development** to solve **commercial problems.**

AI firm domain in Canada**: Healthcare, Government and FSI sector.**

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CANADA

170 formal partnerships between the private sector and **3 main AI Institutes - Vector Institute, Mila and Amii -** to commercialize and discover AI applications.

The formal partnerships **offer** an ability to:

- tap into the Canadian AI **talent pool**
- establish **collaborative work environments** between Canada-centric labs and international headquarters
- utilize **government subsidies and investment incentives.**

Canada's IP performance in AI and machine learning has exceeded many expectations by producing the **most patents per capita among G7 nations and China** between 2015 and 2018.

POLAND

The national plan is focused on **public-private collaboration.**

New GOAL: to become a **leading power** in the field of artificial intelligence.

New government: **Ministry of Entrepreneurship and Technology** established.

New objective: improving **access to funding** from the European Commission ("Horizon Europe").

New task: opening **Research and Development Centers** (example: TCL center on March 2020).

Main **challenge**: lack of **data quality and accessibility.**

Dean Salamanca:

*«Sustainable Mobility is **benefical not only for the environment** but **also for people**, entailing better life style and wellness»*

SUSTAINABLE MOBILITY

ITALY & LOMBARDY

Lombardy is the Italian major producer of **bio-methane**, which is less polluting than electricity.

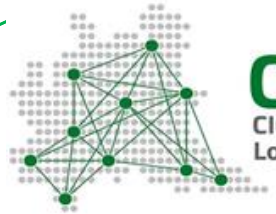
Lombardy is also advancing in **hydrogen sector,** working on one of the **first hydrogen-powered railways in Europe**, which will be located on Lake Iseo.

CLM

https://www.clusterlombardomobilita.it/EN

CLM is the regional cluster for mobility. It oversees the **automotive, marine, railway, ITS and intermodal sectors** (transport and infrastructure) and **promotes their competitiveness.**

It develops **synergies and research projects** in collaboration with several universities, such as Politecnico di Milano.



CLM
Cluster Lombardo della Mobilità
Lombardy Mobility Cluster

It elaborates a **Periodical Report** regarding **business and technical development scenarios on mobility sectors.**

Lombardy is **the 4th automotive industry** in **Europe** and the **second** in **Italy**:

N. Companies: 1.000

Turnover: 20 billions euro

Employees: 50.000

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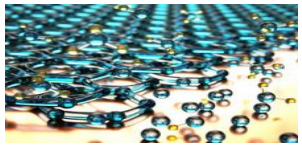
CLM FOCUS AREAS:

Electric Mobility.



Innovative materials.

Intermodality, Co-modality and Logistics.

Sport.

Methane, Biomethane and Hydrogen.

On-board sensors&Connected vehicles.

Sustainable mobility

Local Public Transport.

Mass. reduction of vehicles

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FINLAND

The National Plan is based on 3 pillars:

- **decarbonisation of the entire sector** and of the **entire transport chain –** aviation, maritime, rubber**, focusing on replacement**
- **renew the fleet,** with regard to vehicles used for **public transport**, vans and trucks
- **move towards electric and hybrid cars**. The government forecasts to add **700.000 electric cars until 2030.**

The sale **of electric and hybrid cars grew by 18%** thanks to bonus policy.

A consistent part of the **Recovery Fund** will be used for improving the **hydrogen sector.**

FINLAND

It adopted a National Plan to **reduce CO2 emissions of 95% before 2030.**

Several programs to promote **connectivity, vehicle automation**, **data security and data protection**.

Finland wants to become an **European manufacturer and supplier of batteries.**

It is leader in the Litium battery industry, as it is significant the availability of raw materials for battery.

100+ of companies provide services of **Machine Vision.**

It is committed on **battery recycle** as well as **reseach in EV.**

MEXICO

A **National Stategy** which puts **people at the center.** It:

- provides **legal framework** for sustainable mobility
- allows **young people** to move towards **safer, more accessible and resilient mobility**
- **reduces pollution** coming from the **internal combustion of vehicles**
- optimizes **energy saving** and consumption
- fosters the use of **energy from renewable sources**, mainly **electric.** Importation of electric vehicles is exempt from customs.

- **193 new electric units.**
- New **electric metro bus line**.
- **600 km of cycle paths.**

Taxi replacement program with electric and hybrid vehicles.

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