

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

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.



CICLE 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



Logo of the Italian Republic, CONFINDUSTRIA Lombardia, Regione Lombardia, LEZC, and WORLD MANUFACTURING FORUM.

Regione Lombardia,
in collaborazione con il Corpo Consolare di Milano e della Lombardia
e Confindustria Lombardia,
è lieta di invitarla al primo webinar del ciclo:

**"Dialogues between Lombardy and the rest of the world:
how to involve companies to become a smart&green land"**

Tavola rotonda sull'Energia Pulita

26 maggio 2021
Ore 11.00

Representants of Australia and Brazil dialogano con la Lombardia
con la partecipazione del Lombardy Energy Cleantech Cluster.

Gli incontri culmineranno a ottobre con un evento conclusivo, dedicato al Corpo Consolare di Milano e
della Lombardia, nel contesto del World Manufacturing Forum.

www.regione.lombardia.it

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



Logo of the Italian Republic, CONFINDUSTRIA Lombardia, Regione Lombardia, AFIL, and WORLD MANUFACTURING FORUM.

Regione Lombardia,
in collaborazione con il Corpo Consolare di Milano e della Lombardia
e con Confindustria Lombardia,
è lieta di invitarla al secondo webinar del ciclo:

**"Dialogues between Lombardy and the rest of the world:
how to involve companies to become a smart&green land"**

Tavola rotonda sull'Intelligenza artificiale

22 giugno 2021
Ore 14.30

Representants of Canada and Polonia dialogano con la Lombardia
con la partecipazione del cluster Associazione Fabbrica Intelligente Lombardia.

Gli incontri culmineranno a ottobre con un evento conclusivo, dedicato al Corpo Consolare di Milano e
della Lombardia, nel contesto del World Manufacturing Forum.

www.regione.lombardia.it

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



Logo of the Italian Republic, CONFINDUSTRIA Lombardia, Regione Lombardia, CLM, and WORLD MANUFACTURING FORUM.

Regione Lombardia,
in collaborazione con il Corpo Consolare di Milano e della Lombardia
e con Confindustria Lombardia,
è lieta di invitarla al terzo webinar del ciclo:

**"Dialogues between Lombardy and the rest of the world: how
to involve companies to become a smart&green land"**

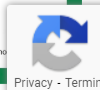
Tavola rotonda sulla mobilità sostenibile

8 luglio 2021
Ore 16.00

Representants of Finlandia e Messico dialogano con la Lombardia
con la partecipazione del Cluster Lombardo della Mobilità.

Gli incontri culmineranno a ottobre con un evento conclusivo, dedicato al Corpo Consolare di Milano
della Lombardia, nel contesto del World Manufacturing Forum.

www.regione.lombardia.it



Dean Salamanca:

«Clean energy **is not an alternative** anymore,
but a **necessity**.
Countries **must collaborate, not compete**,
to face climate change»



CLEAN ENERGY

ITALY & LOMBARDY



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

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

Hydroelectric is the most relevant renewable resource in Italy

1/4 of the hydroelectric 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.



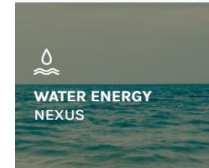
FOCUS AREAS

SECTOR PROFILE IN LOMBARDY:

N.Companies: 500

Turnover: 23 billion euros

Employees: 15.000



AUSTRALIA

Lines of intervention of the **Lower Emission Technology 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 partnerships** with **foreign Countries**.

From 2017, 30 billions 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.

BRASIL

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** registered an increase of **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:** increase clean energy of the **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 in 2025** "

ARTIFICIAL INTELLIGENCE



ITALY & LOMBARDY



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

After financial services, **manufacturing is the 2° sector** spending on **technology and artificial intelligence**.

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 billion of euros

Employees: 890.773

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**.



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:

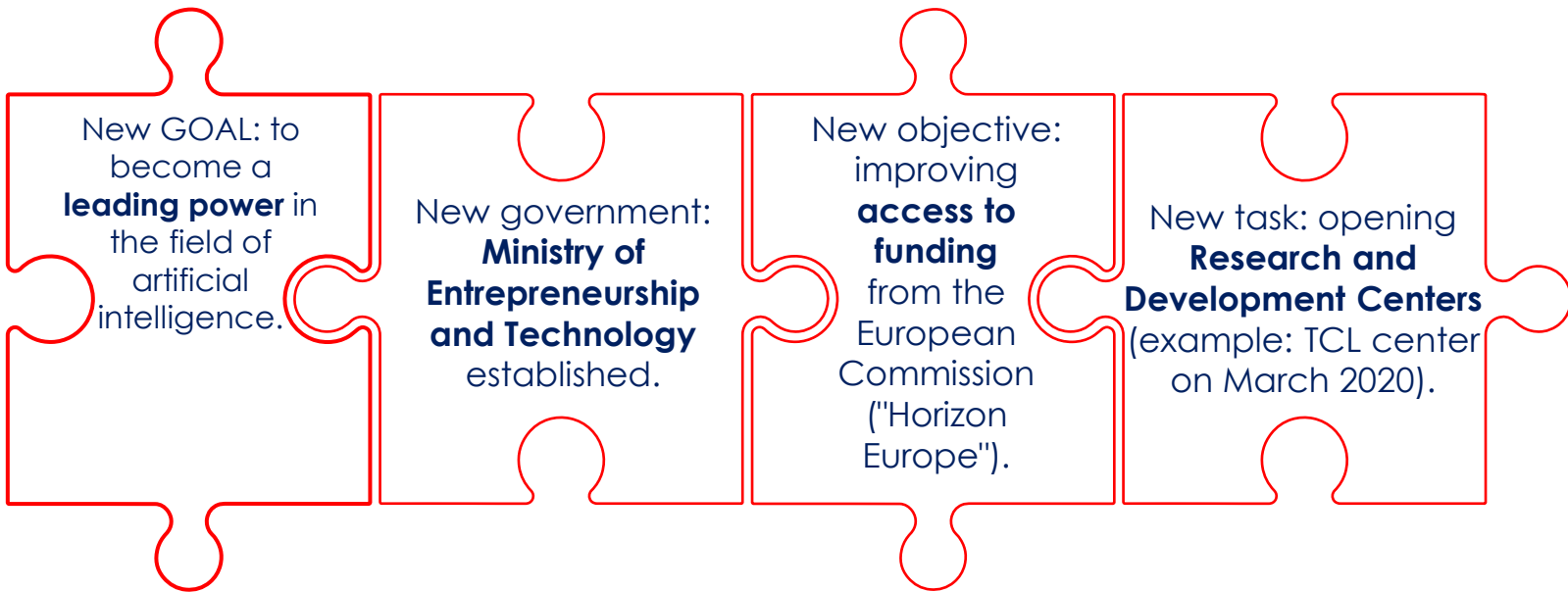
- tap into the Canadian AI **talent pool**
- establish **collaborative work environments** between Canada-centric labs and international headquarters
- utilize **government subsidies and investment incentives.**

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**.



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

Dean Salamanca:

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



SUSTAINABLE MOBILITY



ITALY & LOMBARDY



Lombardy is at the top of the world for the production of **biomethane**, 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.



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

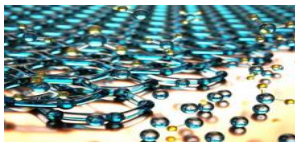
Turnover: 20 billion euros

Employees: 50.000

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



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 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 Lithium 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 **research in EV.**



MEXICO

A **National Strategy** 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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