

Korea-EU Horizon Europe Researchers Networking Forum on Energy & Advanced Mobility



University
of Windsor

Associate Professor Yong Hoon Kim



1. Short Introduction of your Organization

- Windsor, Ontario



Windsor is the southernmost city of Canada at the Canada-U.S. border



Gordie Howe International Bridge
(To be opened in Fall 2025)





1. Short Introduction of your Organization

The **University of Windsor (UWindsor)** is a comprehensive, public research university located in **Ontario, Canada**, directly across the border from **Detroit, USA**. UWindsor's research strengths span **engineering and automotive innovation**.

- EU and Korea are already doing great
- Then, why work with Canada?

Due to a highly skilled talent pool in artificial intelligence, software engineering, and robotics & eco-system in AI & software engineering in the region (Innovation Corridor).

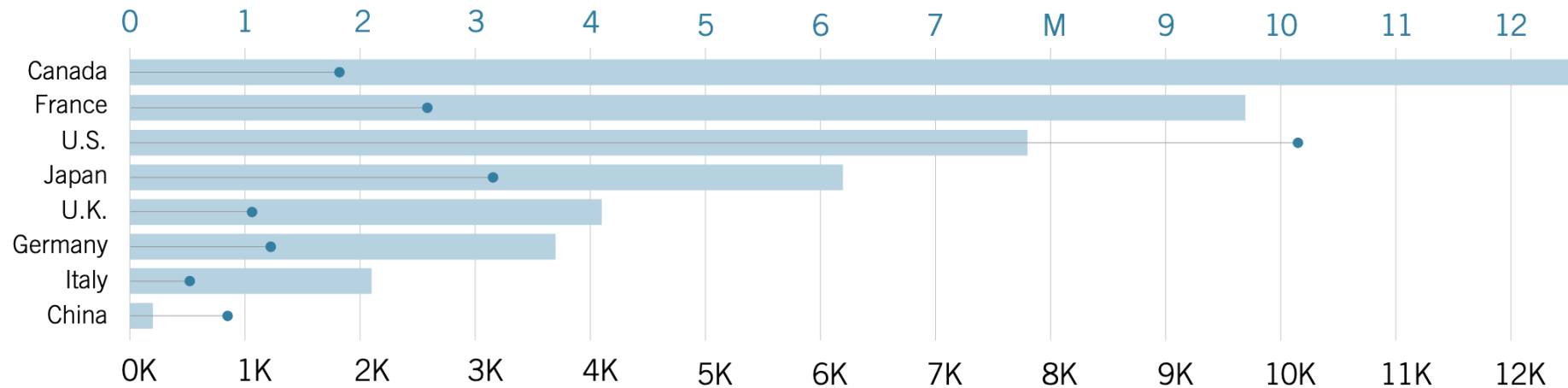




1. Short Introduction of your Organization

Results speak for themselves

Average AI Patents per Capita and Total AI Patents
G7 Countries and China, 2015–18



Average AI patents per 1 million people

Total number of AI patents



2. Expertise

Capital of Canada's Automotive Industry: Centre for Hybrid Automotive Research and Green Energy (CHARGE), and the Cross-Border Institute (CBI)

Potential Contribution to a Consortium

- Providing expertise in mobility innovation, privacy and cyber-security
- Big data analysis
- Driving simulation environment with Bio sensors
- Autonomous Vehicle Control Systems (Perception, **Decision-making**, Control)

Keywords

- Smart Mobility (Reducing the motion sickness and improve traffic mobility)
- Urban Mobility Analytics – Traffic signal optimization with vehicle trajectory
- North Sea (High uncertainty)



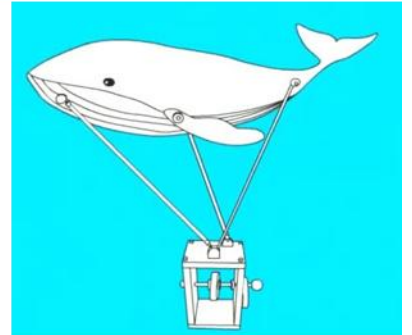
3. Your Project Idea

Targeted calls:

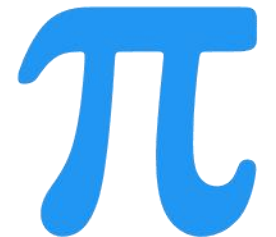
HORIZON-CL5-2026-10-D6-03
(Generative AI for smarter CCAM:
enhancing perception, decision-
making, and validation)

HORIZON-CL5-2027-05-D6-04
(Holistic solutions for CCAM integration
in critical scenarios)

**Imagine non-existing
ideal driving**



**Develop a
(Mathematic) model**



**Teach (upgrade) it to
deep learning (AI)**





4. Profile You are Seeking and Why

IF YOU PRESENT A PROJECT IDEA

Open to collaborating on a wide range of topics (Transportation, AV, and ITS) and with partners from diverse backgrounds



5. Contact Details



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