



IRISH MANUFACTURING RESEARCH

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**TECHNOLOGY
CENTRE**
ENTERPRISE IRELAND
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Tartu, Estonia 2025

Ireland







Manufacturing in Ireland and Europe



Andrew Lynch



Andrew is a founding Director and the international Vice President of the EUREKA SMART Manufacturing Board of Directors, chairs the ManuFuture ETP Working Group (State Aid Strategies- Research & Innovation) and is the national delegate to the European manufacturing policy platform, ManuFuture High Level Group (HLG). He was also the founding chair of the ECSEL (now KDT) Industry 4.E Lighthouse Initiative. Andrew has recently been nominated by EFFRA to the Made in Europe Partnership Board, an expert board which meets regularly with the European Commission to discuss the scope and modalities of the Partnership and future call topics.

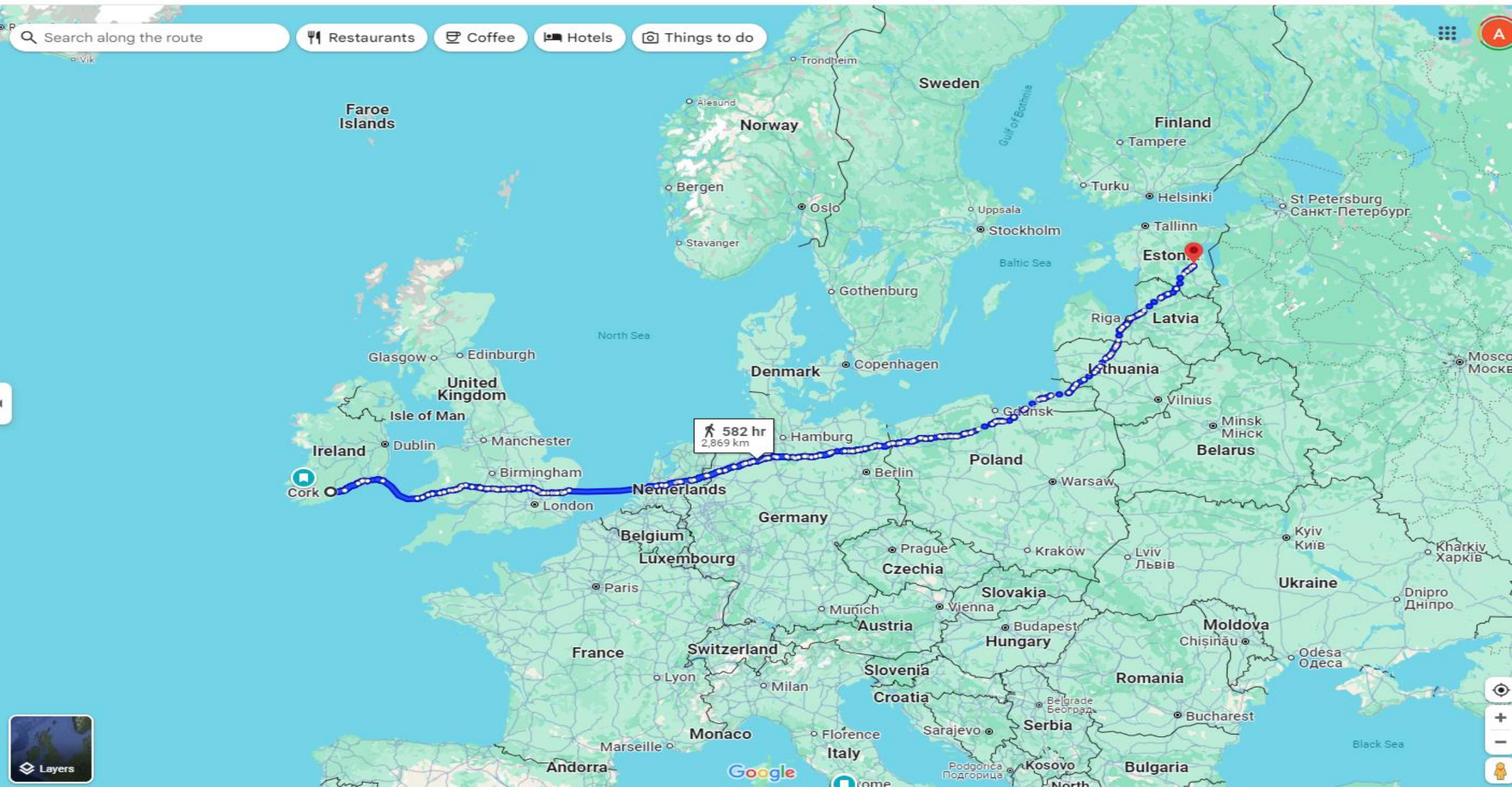
Andrew is on the Board of Directors of both the Irish Advanced Manufacturing Training Centre of Excellence (AMTEC) and the FutureCAST Board (Ireland NW). He is the founding chair of the Irish National Steering Committee on Collaborative Robotics, a member of both the Ingenuity and ATiM Cluster Executive Steering Committees and is on the National Advisory Board for the Digital Manufacturing Futures Centre (AIM). He was recently appointed to the International Advisory Board of the UK Smart Manufacturing Data Hub (SMDH).

Andrew is a contributing expert on several key international policy directives for manufacturing, including the ManuFuture policy document (Vision 2030), the EFFRA Made in Europe program, ManuFuture ETP Strategic Working Group Initiatives, the ECSEL LIASE I4 Whitepaper on the Future of Manufacturing and the ECS SRA (Electronic Components & Systems, Strategic Research Agenda).

He holds an honours Degree in Biotechnology, a first class Masters in Environmental Analytical Chemistry, a PhD in Engineering, and is happily married with two adored daughters.

Estonia and Ireland







THE IRISH EMBASSY PUB



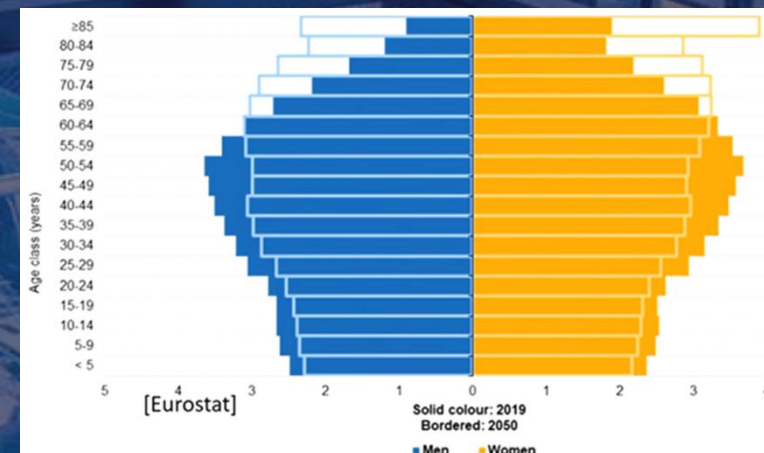
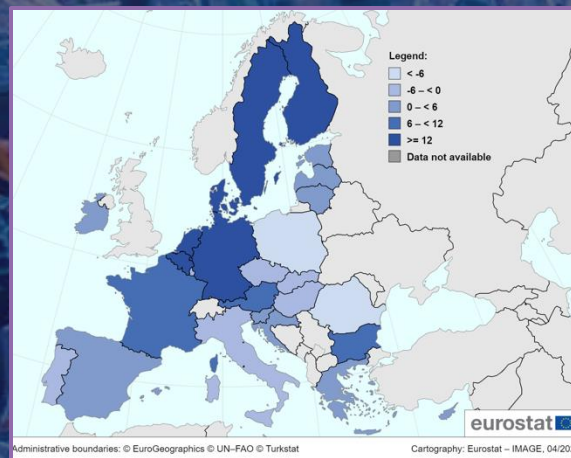
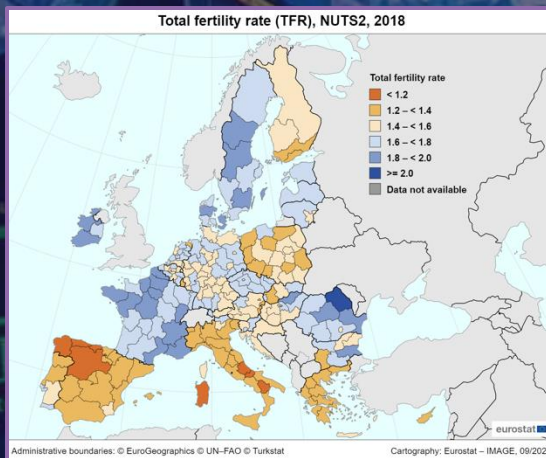
Wi Fi



International Landscape







8m

global jobs in manufacturing that cannot be staffed by 2030

\$600bn

value that cannot be realised by manufacturers in 2030 due to lack of workers

Source: Kork/Ferry



SOURCE: Future of Jobs Survey 2018, World Economic Forum

15,000,000 European
manufacturing employees
need reskilling

Reskilling effort needed in
European Manufacturing industry:

**> 100 Million person-months
of upskilling and education**

1

A

Digital literacy as a holistic skill to interact with, understand, enable, and even develop new digital manufacturing systems, technologies, applications, and tools

6



Inter-cultural and -disciplinary, inclusive, and diversity-oriented mindset to address new challenges arising from a more diverse manufacturing workforce

2



Ability to use and design new **AI and data analytics** solutions while critically interpreting results

7



Cybersecurity, **privacy, and data/information mindfulness** to reflect the rapidly increasing digital footprint of the manufacturing value chain

3



Creative problem solving in times of abundant data and technological opportunities in smart manufacturing systems

8



Ability to **handle increasing complexity** of multiple requirements and simultaneous tasks

4



A strong **entrepreneurial mindset** including proactiveness and the ability to think outside the box

9



Effective **communication skills** with humans, IT, and AI systems through different platforms and technologies

5

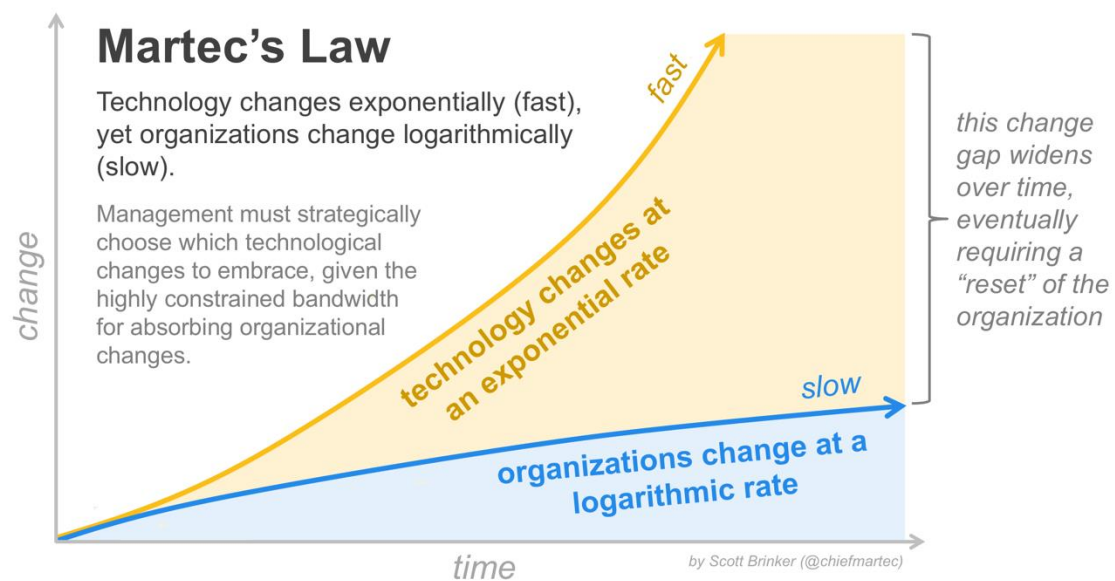


Ability to work **physically and psychologically safely and effectively** with new technologies

10



Open-mindedness towards constant change, and transformation skills that constantly question the status quo and initiate knowledge transfer from other domains

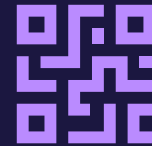




Export Strategies for small countries:



Access to the EU



AI leadership (start-ups)



Ease of doing business



Coherent supports



Trained workforce



Align national with EU



Focus on Green transition



Focus

THANK YOU!

Any questions?

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