

White Paper on Enterprise Symposium

Monday, 3rd October 2022



Small advanced economies in a changing world: implications for Ireland's industrial & enterprise policy

David Skilling

October 2022



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- 1 Small advanced economy context
- ² Small advanced economy exposure to global developments

3 Small economy policy responses

4 Implications for Ireland



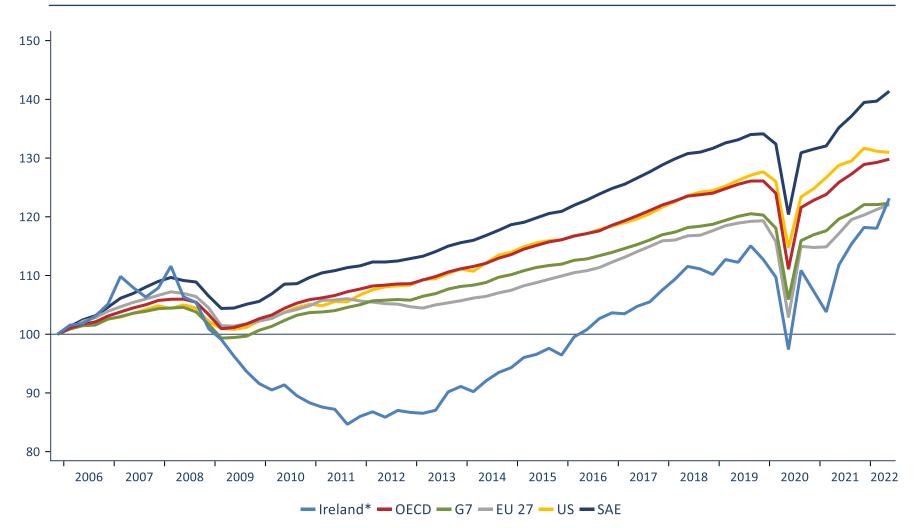
Small advanced economy context

- → Small advanced economies have out-performed larger economies over a sustained period.
 - This is partly due to the external environment, but largely due to policy choices
- → Industrial & enterprise policy is central to economic strategy in small advanced economies because of their distinctive characteristics
 - Externally-oriented firms/clusters are the productivity growth engines of small economies, with competitive advantage based on innovation, knowledge
 - Competitive advantage can only be built in a limited number of areas
- → Small advanced economies are deeply exposed to external economic and political dynamics, in three key ways:
 - Variation in global aggregates (world trade, GDP growth)
 - The global economic & political order
 - Idiosyncratic shocks (competition, technology, policy choices) because of relatively concentrated economic/export structures



Small advanced economies have out-performed larger economies since 2005; Ireland is catching up after the global financial crisis

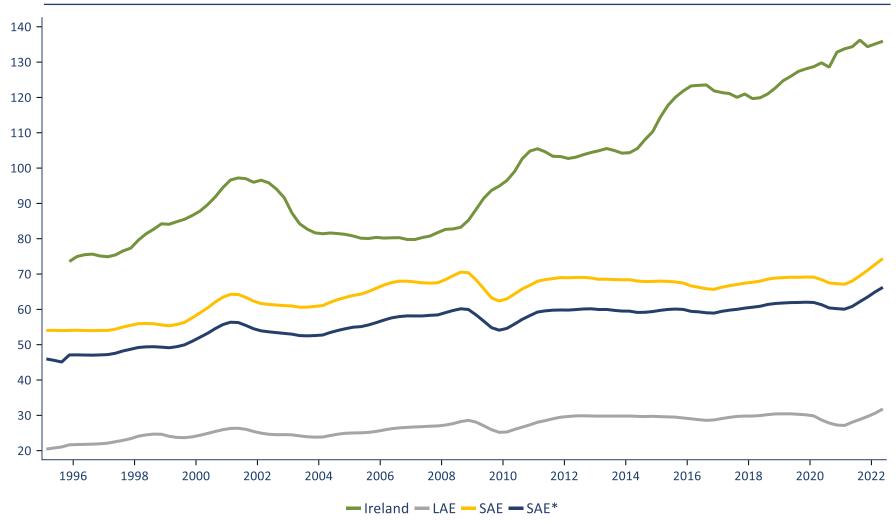
Real GDP growth (sa), %, Q1 2005 = 100, Q1 2005 - Q2 2022





Most small economies have significantly higher export shares than larger advanced economies; Ireland has a very high share

Exports of goods & services, % of GDP, year to Q2 2022





R&D spending is higher in small advanced economies than in larger economies; Ireland lags







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There is disruptive change in the global environment, to which small advanced economies are exposed



- A There is regime change in the global economy
 - Globalisation is not reversing, but there will be more frictions and a more fragmented global economy is emerging along geopolitical lines
- B Disruptive changes in technology and business models are underway
 - This will change the nature of growth sectors and location of competitive advantage; although many small economies are relatively well positioned
- The net zero transition will generate substantial transition costs, but also big economic opportunities for small economies that can reduce emission intensity
 - Consumer/investor preferences are shifting quickly
- The pandemic has reinforced comfort with high public debt levels, and an expanded role for the state
- Domestic and international geography is changing in a post-Covid world, enabled by technology (people moving out of cities, 'digital nomads')

Many current economic developments indicate regime change underway



→ Surging inflation

 Partly an excess demand story, partly due to higher energy and food prices, but also due to labour market frictions in a post-Covid changing economy. Supply-side responses are needed, not just macro policy.

Energy prices

 Intersection of geopolitics and economics; there is a need for energy independence, accelerating the renewables transition. High energy prices are creating hardship, pushing some economies towards recession.

→ Industrial policy

 Governments are moving quickly to establish positions in the commanding heights on concerns re geopolitical competition, supply chain vulnerability



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There are some common themes in the policy response by small advanced economies



- → Responding to changing globalisation
 - Strengthen competitive advantage (investment in skills, innovation); strengthen domestic capabilities (enterprise policy, migration policy)
- → Developing positions in emerging growth sectors, and supporting the reallocation of labour across the economy: skills and training, labour market policy
- → Aggressive investments in the net zero transition
 - Reduce emissions intensity, expand renewable energy and green technology potential, develop positions in new low carbon growth sectors
- → Strengthening national economic resilience
 - Supply chains (goods, energy, commodities), fiscal sustainability, external posture
- Capturing opportunities around a changing economic geography
 - Attract mobile talent, support a more distributed profile of domestic economic activity



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1. Strengths & weaknesses of the Irish economy

- → Ireland's economic model continues to generate good outcomes, but there are some weaknesses – some of which are a direct function of Ireland's strengths
- → Domestic value capture is relatively weak, because of the lack of integration of MNCs into the domestic economy
 - A very large primary income deficit; and weaker opportunities for innovation/knowledge spillovers across backward/forward linkages
- → There are also negative spillover from the very strong, productive activities of MNCs: a Dutch Disease phenomenon
 - MNCs attract labour, capital from other parts of the economy
 - Highly productive MNCs increase the economy-wide wage and cost structure, which constrains the competitive strength of other externally-oriented firms; and constrains incentives to invest, innovate
- → Ireland has vulnerabilities in terms of its high emissions intensity: over time, this could weaken Ireland's competitiveness as firms locate in low emissions locations and consumers prefer goods and services with low embedded emissions.

2. Ireland's exposure to global economic and political developments



- → Despite Ireland's deep international economic engagement, Ireland is not very sensitive to variation in global flows or the global economy. However, Ireland's concentrated export structure means that it is sensitive to sector/firm-specific shocks in key sectors.
- → Ireland's Europe and US-heavy portfolio of export markets also means that Ireland is not highly exposed to geopolitical developments
 - However, it is exposed to US domestic political risk (MNC location) as well as geopolitical risks around the China market
- → Ireland has an acute exposure to net zero commitments and particularly changing consumer/investor/firm preferences on emissions intensity. Ireland's high emissions intensity creates risk re FDI attraction, competitiveness of Irish firms
- → There are opportunities from new technologies (Ireland has strong capabilities); as well as from changing domestic and international economic geography (greater ability to attract people, a more distributed model of economic activity).



3. Thoughts on strategic priorities for actions (1)

- 1 Develop strategic clusters
 - Ireland should strengthen its high-potential clusters of activity: these are the productivity and growth engines of the Irish economy
 - Choices need to be made in (broadly defined) priority clusters: small economies are doomed to choose this needs to be done in a disciplined way.
 - Increased investments in research, innovation are needed to develop competitive advantage in these clusters
 - Policy should actively support movement of labour towards high growth/priority clusters in a post-Covid world (skills policy, active labour market policy)
- 2 Strengthen domestic value capture/rebalance enterprise policy
 - Enterprise policy should create a stronger 'Irish core'
 - Integrate MNCs into clusters, deepen supply chain linkages, and strengthen local supply chain capabilities
 - Focus enterprise policy on creating at-scale innovation driven enterprises: using innovation policy instruments, export promotion, firm-level capability building



3. Thoughts on strategic priorities for actions (2)

- 3 Integrate the net zero transition into economic strategy
 - Front-load the emissions reduction process, build out renewable energy capacity
 - Ireland should move quickly to capture economic opportunities from low emissions activity: use for attracting FDI, develop/attract activity in growth areas in the low carbon economy
- Set Ireland's external posture to manage external risks
 - Ireland is not as exposed to external economic and political risks as some
 - Ireland needs to manage some its exposure to emerging political risks: US domestic political risk re MNC activity; geopolitical risk re China; and supply chain risks (food, energy).
- 5 Institutional strengthening to support strategic policy coherence
 - High-performing small advanced economies build strong institutional capabilities to drive a coherent, sustained policy agenda across multiple policy domains (from innovation and climate change policy to core parts of the economic agenda)
 - Strategic foresight capability is important in a disruptively changing world



Landfall Strategy Group

Landfall Strategy Group is a research and advisory firm that provides insight and advice on economic, policy and geopolitical issues that face small advanced economies. Our unique focus on understanding the behaviour, performance and outlook across small advanced economies provides the basis for distinctive perspectives on issues facing specific small advanced economies, as well as on emerging international economic and political developments.

Landfall Strategy Group's clients are governments, firms, and financial institutions in small advanced economies, as well as those in other countries that value a small country view on the global outlook.

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The Challenges and Opportunities of the Green Transition

3rd October 2022

Who We Are



Climate Change Advisory Council

14 Members Chair: Marie Donnelly

Adaptation Committee

12-14 Members **Chair:** Prof. Peter Thorne

Secretariat

Manager: George Hussey



Marie Donnelly (Chair)



Prof. Peter Thorne (AC Chair)



Prof. Dr Ottmar Edenhofer



Prof. John Fitzgerald



Patricia King



Andrew Murphy



Prof. Morgan D. Bazilian



Dr. Cara Augustenborg



Julie Sinnamon



Laura Burke



Prof. Frank O'Mara



Eoin Moran



Jillian Mahon



Sinead O'Brien

About Us





Established in 2015 under the Climate Action and Low Carbon Development Act, the **Climate Change Advisory Council** will work to provide contributions in critiquing, informing and shaping Ireland's response to climate change.

We provide **independent** and **science-based** advice to Government and policy makers on what Ireland needs to do to achieve a climate-resilient, biodiversity rich, environmentally sustainable and **climate neutral economy by 2050**.

Taking into account of, in so far as practicable, the need to maximise **employment**, the attractiveness of the State for **investment** and the long term **competitiveness of the economy** and having regard to **climate justice** when carrying out its functions.

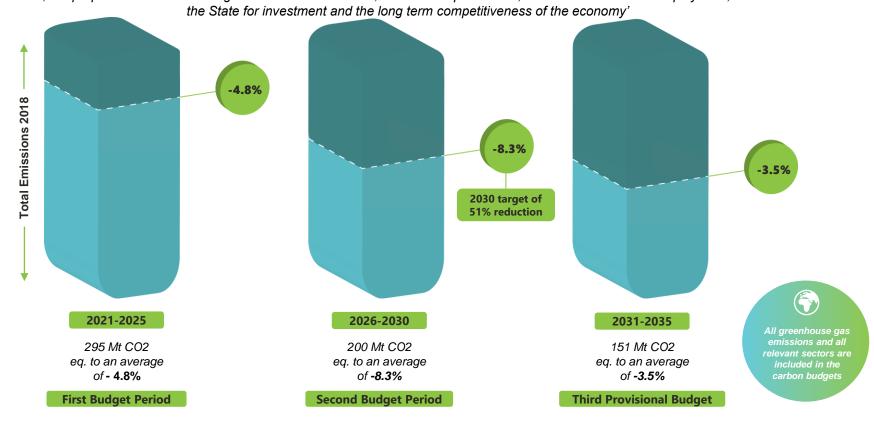


Current targets: Carbon Budgets



A carbon budget represents the total amount of emissions that may be emitted in the State during a five-year period, measured in tonnes of carbon dioxide equivalent. It is calculated on an economy-wide basis.

Under the Act, the preparation of carbon budgets must take account of; 'in so far as practicable, the need to maximise employment, the attractiveness of



Current Targets: Sectoral Emissions Ceilings



Table - Sectoral Emission Ceilings³

(Figures for MtCO-ea for 2018 and 2030 have been rounded. This may lead to some discrepancies)

	2018 Baseline (MtCO2eq.) ⁴	Sectoral Emission Ceilings for each 5-year carbon budget period (MtCO2eq.)		rounded. This may lead to so Indicative Emissions in Final Year of 2021- 2025 carbon budget period (MtCO2eq)	Indicative Reduction in Emissions in Final Year of 2021-2025 budget period compared to 2018	Emissions in final year of 2026-20230 carbon budget period (MtCO2eq)	Reduction in Emissions final year of 2026-2030 carbon budget period compared to 2018	Agreed CAP21 Ranges
Sector	2018	2021-2025	2026-2030	2025	2025	2030	2030	2030
Electricity	10	40	20	6	~40%	3	~75%	60 – 80%
Transport	12	54	37	10	~20%	6	~50%	40 – 50%
Built Environment - Residential	7	29	23	5	~20%	4	~40%	45 – 55% ⁵
Built Environment - Commercial	2	7	5	1	~20%	1	~45%	
Industry	7	30	24	6	~20%	4	~35%	30 – 40%
Agriculture	23	106	96	20	~10%	17.25	~25%	20 – 30%
LULUCF ⁵	5	XXX	XXX	xxx	xxx	XXX	XXX	40 – 60%
Other (F-Gases, Waste & Petroleum refining)	2	9	8	2	~25%	1	~50%	N/A
Unallocated Savings ⁷			-26			-5.25		
TOTAL ⁸	68	XXX	XXX	XXX	XXX	XXX	XXX	N/A
Legally binding Carbon Budgets and 2030 Emission Reduction Targets ⁹	-	295	200		-	34	51%	-

³ Table reflects what was agreed by Government on 28 July 2022

⁴ Million tonnes of carbon dioxide equivalent.

⁵ CAP21 outlined 45-55% range for all buildings i.e. it did not split out residential and commercial buildings

⁶ Finalising the Sectoral Emissions Ceiling for the Land-Use, Land-Use Change and Forestry (LULUCF) sector has been deferred for up to 18 months to allow for the completion of the Land-Use Strategy

⁷ Unallocated savings on an economy-wide basis in the second 5-year carbon budget period from 2026-2030, before factoring in net LULUCF sector emissions

⁸ Following finalisation of the Sectoral Emissions Ceiling for the Land-Use, Land-Use Change and Forestry (LULUCF) sector, total figures will be available

⁹ As provided by section 6A(5) of the Climate Action and Low Carbon Development (Amendment) Act 2021

Current Targets: Sectoral Emissions Ceilings



- The industry sector has a target of 35% reduction in emissions by 2030 and a pathway, via carbon budgets, to reach this.
- Under current EPA WAM projections, only a 12.8% reduction in Industry emissions is forecast by 2030.
- Further measures will need to be identified in order to progress emissions reduction targets.

Sector	2018 Baseline (Mt CO2 eq)	2021-25 Sectoral Emission Ceiling	2026-30 Sectoral Emission Ceiling	2030 Ceiling	% Reduction by 2030
Industry (Manufacturing Combustion and Industrial Processes emissions)	7	30	24	4	~35%
Built Environment (Commercial)	2	7	5	1	~45%

Challenges and Opportunities: Energy Crisis

Significant challenges and opportunities for enterprises;

- Increased and volatile energy prices impacting on communities and businesses across Ireland due to dependence on imported fossil fuels.
- Short- and medium-term risks to security of energy supply.
- Window for effective action on climate change, linked to fossil fuel use, is rapidly closing.

Actions to address the energy crisis can also support our objectives on climate change.

Average Electricity Price to Businesses (SEAI)

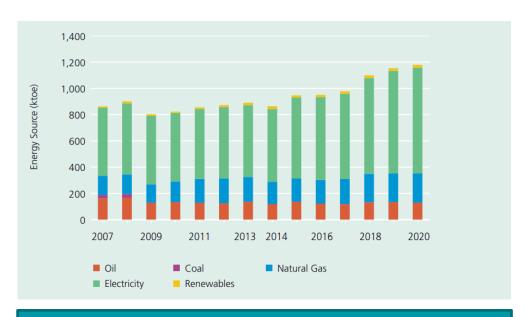




Challenges and Opportunities: Energy Efficiency

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- In 2020, 14.2% of commercial buildings were A and B BER rated.
- The two main strategies for reducing emissions in this sector are energy efficiency and fuel switching.
- To support small businesses to invest in their premises, access to low-cost finance will be crucial.
- Recent DECC consultation showed examples of payback periods of ~9-15 years for industry and commercial solar PV (including supports), importance of removing barriers to installation.
- Demand management for energy efficiency.
- Importance of public sector buildings leading by example.



Commercial sector energy sources ktoe (Source: SEAI 2021)



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- SEAI's National Heat Study: District Heating and Cooling report found that low carbon district heating, predominantly from biomass boilers and air source heat pumps, has the potential to supply up to 50% of residential heat demand across Ireland.
- Tallaght District Heating Scheme (TDHS), will be the first large-scale district heating network of its kind in Ireland. Waste heat from the nearby Amazon data centre will supply the heat to the network.
- Power stations, industrial sites and data centres produce large amounts of waste heat suitable for heat networks.
- Government support will be critical in terms of governance and support for infrastructural development for district heating.

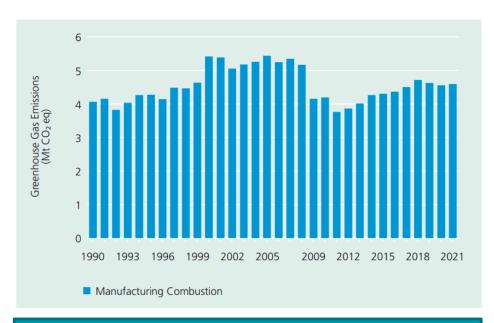


Heat extraction/recovery sites and district heating sites in Ireland (Source: SEAI National Heat Study)

Challenges and Opportunities: Manufacturing Combustion



- Emissions from manufacturing combustion increased by 0.9% in 2021.
- Current projections suggest that significant further measures will need to be identified in order to meet emissions reduction targets.
- Significant industrial heat demand can be decarbonised through technology changes or fuel switching via electrification or low carbon fuels.
- Policies must be tailored to investment decision timelines for enterprises.

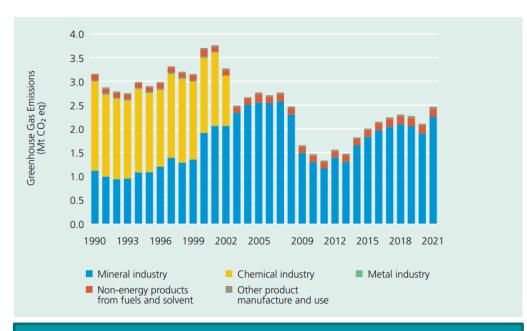


Trend in Manufacturing Combustion Emissions 1990-2021 (Source: EPA)

Challenges and Opportunities: Industrial Processes



- Industrial processes emissions are forecasted to increase, driven by increased activity in the cement production industry.
- The CCAC AR notes that in addition to low carbon fuel substitution, opportunities exist to increase cement use efficiency in construction and replacement with lower carbon materials.
- Detailed approaches for abatement measures in relation to embodied carbon reduction and carbon capture must be developed for NCAP23.



Trend in Industrial Process Emissions 1990-2021 (Source: EPA))



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- Scale of change will impact on all sectors of the economy and could have significant positive implications in terms of employment and innovation opportunities.
- New opportunities in green economy including retrofitting, renewable energy, circular economy, clean mobility, agriculture and the bioeconomy.
- Need for workers in certain sectors to be supported through upskilling, reskilling and redeployment.
- Challenges of skills gaps and supply chains in emerging sectors.
- Risk management for SMEs and farmers requires preparation and policy support.

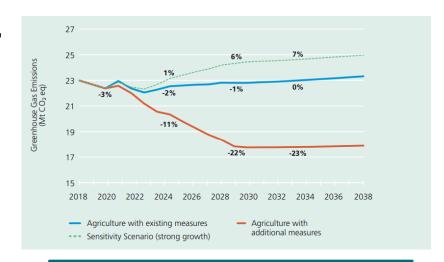
Sector	Occupation	Scale of skill shift	Description of upskilling requirement
Transport	Passenger and commercial vehicle mechanics	•	New expertise required in electric powertrains, rather than conventional ICE powertrains
Buildings	Plumbers	•	New expertise required in range of new heating technologies i.e. district heating, heat pumps, electric boilers
	Construction	•	New expertise required in low-carbon design and implementation (e.g., using new materials like CLT)
Agriculture	Extensification	•	New expertise required for how to reduce farming inputs (e.g., fertilizer) and the alternative techniques that can be used
Power	Grid operators (TSO/DSO)	•	New expertise required in the new technologies that are increasing their share of energy generation (e.g., renewables) and balancing technologies (e.g., batteries)
Other	Professional services	•	New expertise on ESG topics in range of professional services (e.g., knowledge of new regulations for lawyers and knowledge of green finance for financial professionals)

Analysis carried out by McKinsey for CCAC Carbon Budget Proposals

Challenges and Opportunities: Agriculture, employment and skills



- Significant action is required for a transition that supports low-emissions agriculture and land use, sustainable rural development, and a reversal in the decline in water quality status and biodiversity.
- Challenging targets for the sector, but also opportunity to develop export markets in alternative proteins and the bioeconomy.
- Green exports and international reputation.
- Role of new technologies and innovation.
- Addressing climate change through deployment of technologies and diversification of activities should be enabled through design, resourcing and implementation of policies. These need to present viable and attractive options for farmers and support rural communities.



Projections of emissions from agriculture (Mt CO₂ eq) under 'with existing measures' and 'with additional measures' based on NCAP2021 (Source: EPA)

Conclusions



- Current EPA projections to 2030 indicate that the first two carbon budgets present a significant challenge based upon existing and planned measures, with significant gaps to meeting targets.
- Sectoral emissions ceilings will be challenging to meet, but it is critical that planning and implementation of measures across all sectors is advanced urgently if we are to close the substantial gap between ambition and action.
- Ireland is well placed to take advantage of opportunities, for example through our vast renewable resource and there are opportunities for innovation and new technologies to play a significant role.

Contact

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White Paper on Enterprise Symposium

Monday, 3rd October 2022



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Monday, 3rd October 2022



Making the Digital Transition

Ruairí Ó hAilín 03-10-2022







Digital – Expectations?



Digital – Expectations?





Visibility



Automation



Insight



Excellence

Digital – Expectations?





Visibility



Automation



Insight



Excellence

Just add Robots and some Al??

Digital – Critical Success Factors?





Design around customer value



Process Innovation



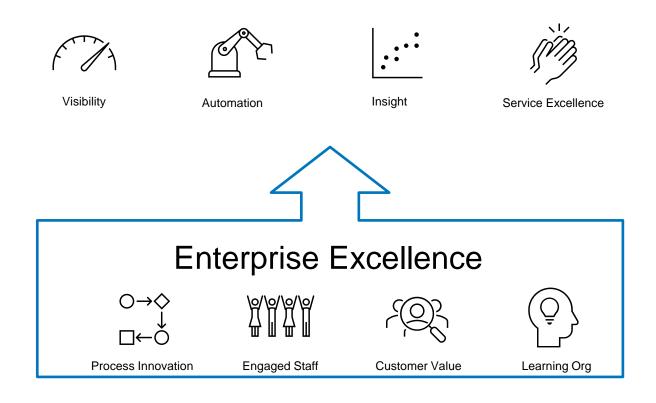
High Engagement



Learning organisation

For Digital Gain – Need Foundation of Excellence





Enterprise Excellence – Models?





Customer value



 $\bigcirc \rightarrow \Diamond$

Process Innovation





High Engagement





Learning organisation



Mór Enterprise Excellence

Shingo Model

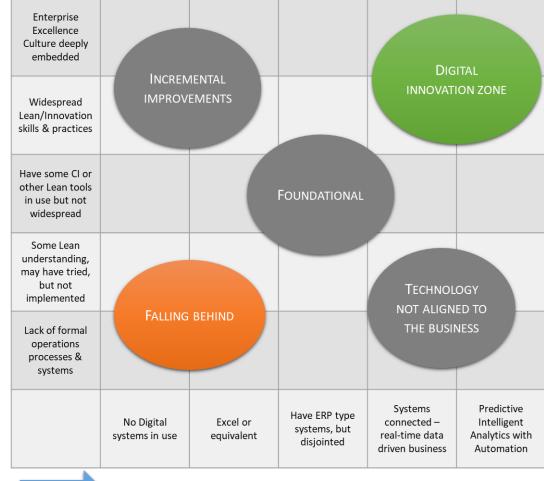
Lean Management

Total Quality Management

Toyota Production System

World Class Manufacturing





LEADERSHIP,
LEAN &
INNOVATION
CAPABILITY
MATURITY

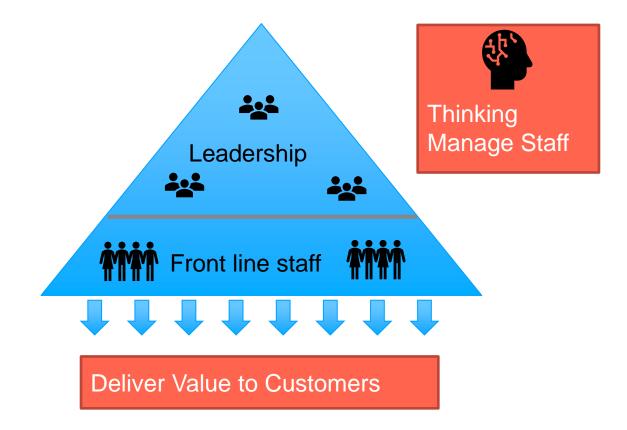




Enterprise Excellence Culture deeply embedded					P
Widespread Lean/Innovation skills & practices			5		
Have some CI or other Lean tools in use but not widespread	1	11	15		
Some Lean understanding, may have tried, but not implemented		7	6	2	
Lack of formal operations processes & systems	1	5	1	1	
	No Digital systems in use	Excel or equivalent	Have ERP type systems, but disjointed	Systems connected – real-time data driven business	Predictive Intelligent Analytics with Automation

El client data 2022 – Operational Excellence & Digital - pre-project





Q: who believes this?



"Our People are our most important asset"

Q: who believes this?

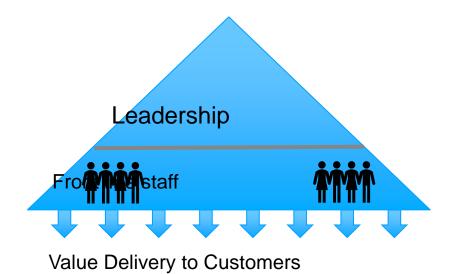


"Our People are our most important asset"

But

"We have a Talent and Skills deficit"





Complex control systems

Inflexible, brittle processes

Co-ordination difficult

Lack of Innovation

Talent Wasted



Traditional Management



"Human Centred" Lean model "Leaders manage their staff"



Value Delivery to Customers

Front in a staff

"Leaders develop their staff"

Co-ordination difficult

Lack of Innovation

Complex control systems

Inflexible, brittle processes

Talent Wasted

Clear Purpose

Measure Customer Value

Empowered

Aligned to Purpose

Strong Processes

Continuous Improvement

Ready for Digital

Challenge to Policy makers



Embed Lean into our Digital & Green Strategy – a national priority

Emphasise new paradigms of leadership

Focus on SMEs (the successful large companies get this already)



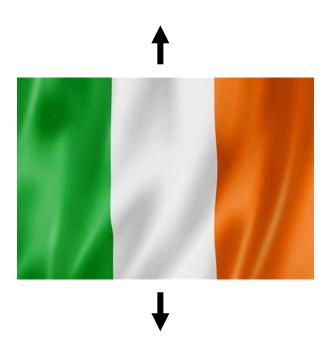


Dr. Christian Ketels Harvard Business School

Symposium on Enterprise Policy Whitepaper
Dublin, Ireland
3 October 2022

Strong Clusters





Is this a problem?

A missed opporunity?

Weak Cluster Organizations

Strong Clusters in the Irish Economy

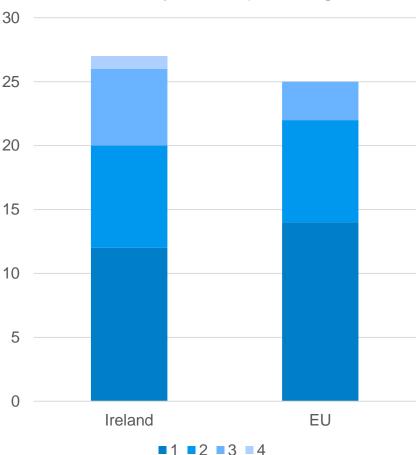
International Cluster Competitiveness Profiles

Export Value by Cluster

Export Value by Subcluster

Specialization by Cluster



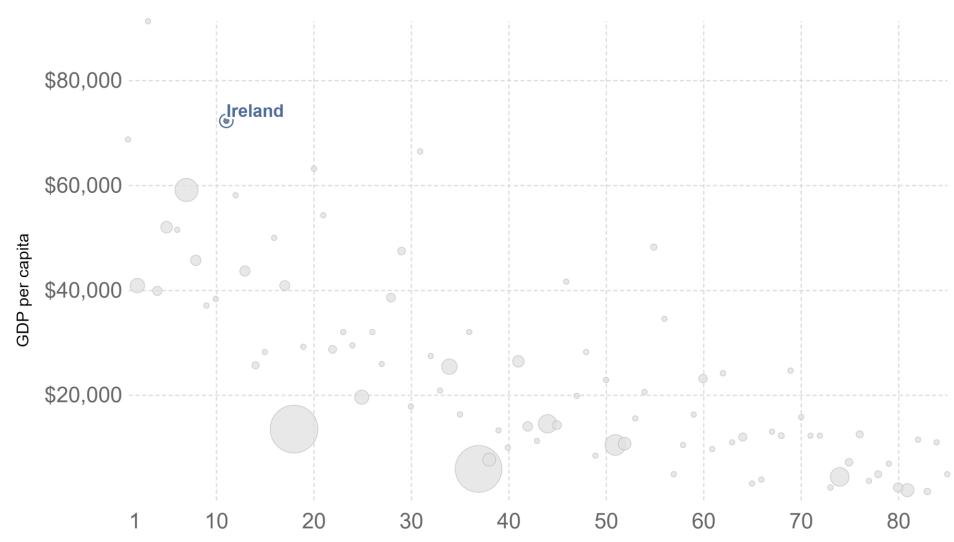


Stars indicate strength on size, specialization, productivity, and growth; higher # = stronger performance
65 An Roinn Talmhaíochta, Bia agus Mara | Department of Agriculture, Food and the Marine



Economic complexity rank vs. GDP per capita, 2016

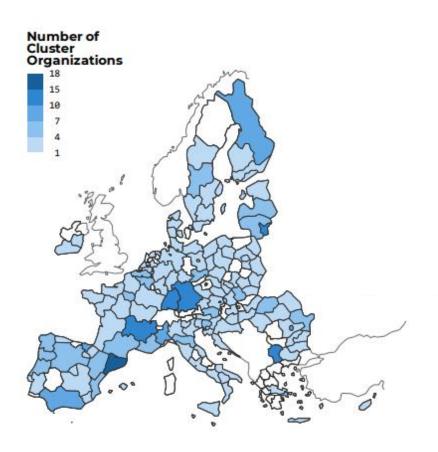
Economic complexity corresponds to ranking in the Economic Complexity Index (ECI). The ECI ranking orders countries from the most to the least economically complex. GDP per capita is adjusted for inflation (at constant international prices) and accounts for differences in purchasing power.

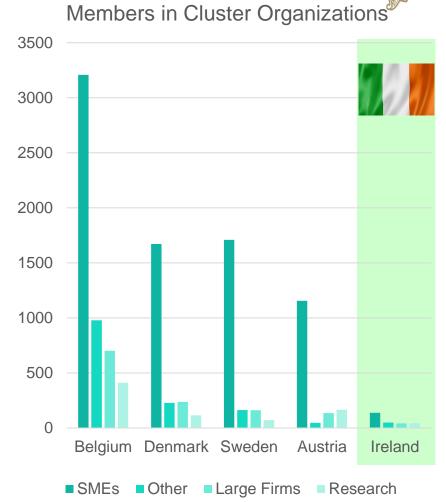


ECI Ranking (lower values imply more complexity)

Source: Observatory of Economic Complexity, Our World in Data

Shallow Reach of Irish Cluster Organizations

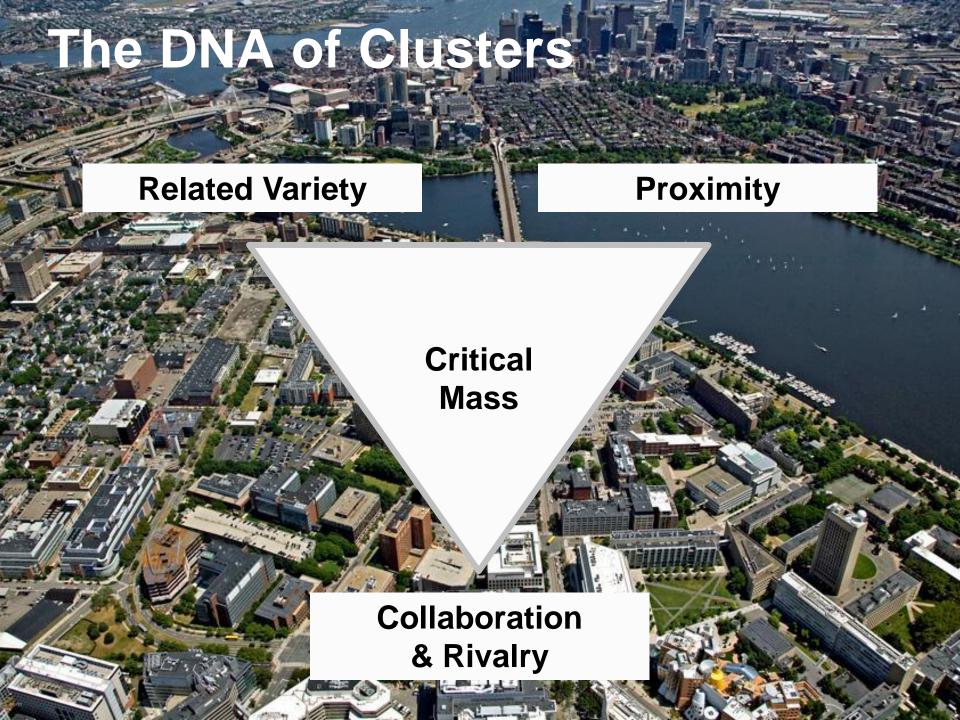






What is the Rationale for Cluster-Based Enterprise Policy?

What Issues should Irish Cluster-Based Enterprise Policies focus on?



OPEN ACCESS Check for update

Cluster presence and economic performance: a new look based on European data

Christian Ketels^a o and Sergiy Protsiv^b o

Prosperity

All three factors are individually correlated with prosperity

Cluster Presence

Framework Conditions

3



Cluster Mix

Framework Conditions have the strongest impact on prosperity, but Cluster Presence matters as well

Cluster Mix is endogenous to Framework Conditions, while Cluster Presence is not

76 An Roinn Talmh

1

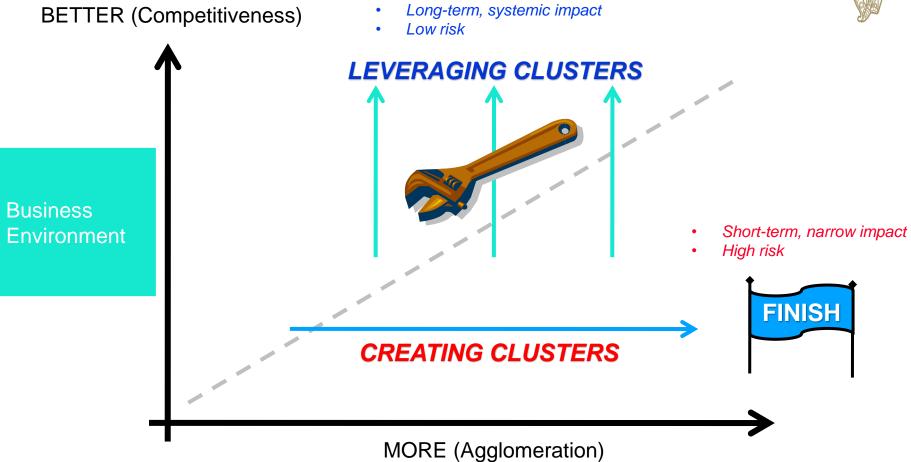
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What role for policy?

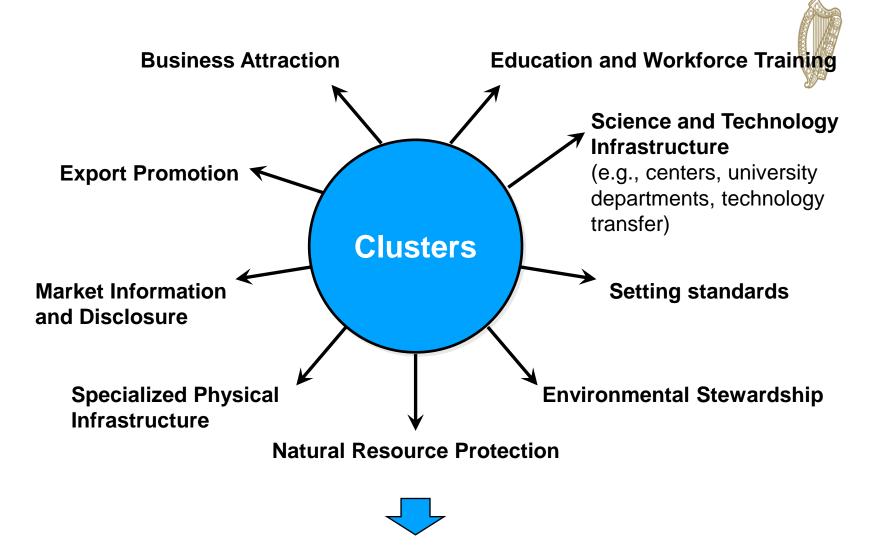
Two Visions on Cluster Policies





Clusters

Organize Public Policy around Clusters



 Clusters provide a framework for organizing the implementation of public policy and public investments towards economic development

What are Cluster Initiatives?



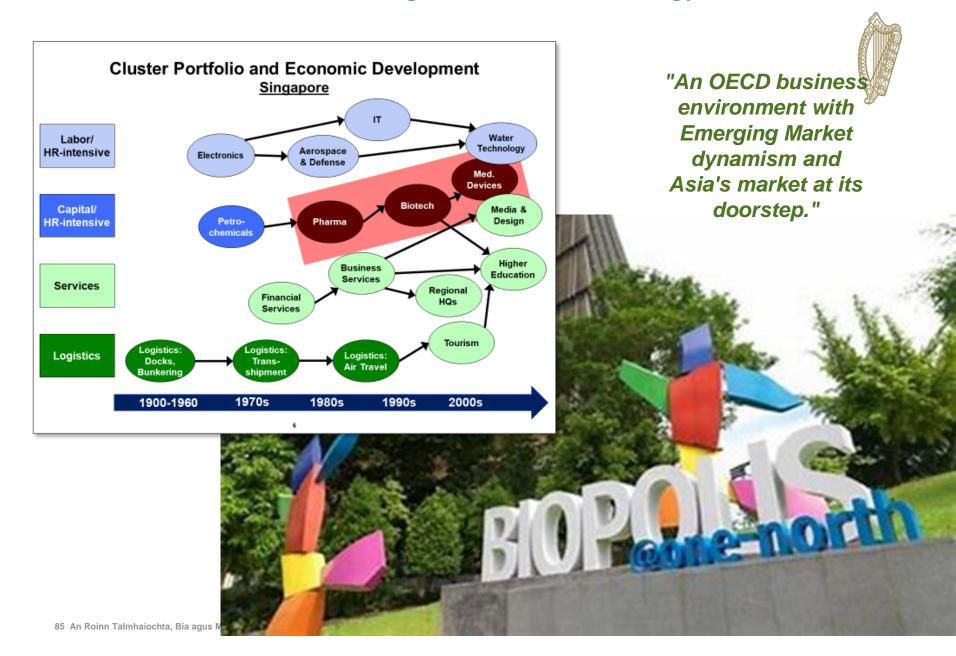
Cluster initiatives are **collaborative activities** by a **group** of companies, public sector entities, and other related institutions with the objective to improve the competitiveness of a group of **interlinked economic activities in a specific geographic region**

 Upgrading of company operations and strategies across a group of companies Upgrading of clusterspecific business environment conditions

 Strengthening of networks to enhance spill-overs and other economic benefits of clusters Cluster Initiatives: From Action to Strategic Campaign



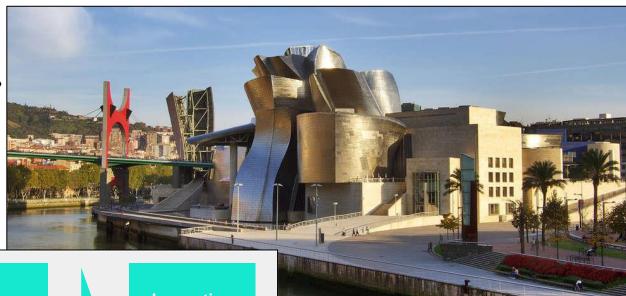
From Cluster Initiative to Regional Growth Strategy



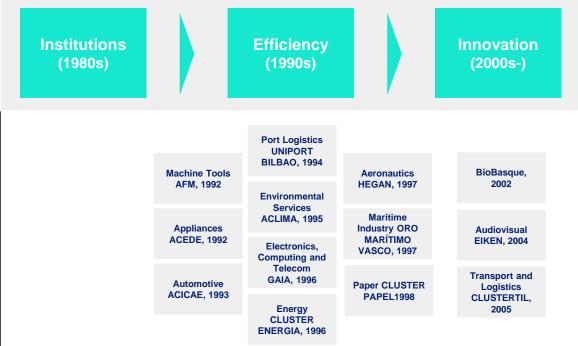
Cluster-Based Regional Development Basque Country, Spain







Cluster Initiatives



Transformative
Place-Making

And other crosscutting policies

Irish Cluster-Based Enterprise Policy Choices





Ireland-specific choices to make

- Tasks
- Tools
- Structures
- Funding
- Training

Broad international experience for Ireland to draw on

Irish Cluster-Based Enterprise Policy **Key Tasks**



Develop Irish firms in clusters dominated by **MNCs**



Upgrade productivity in clusters dominated by Irish firms



Accelerate Ireland's

89 An Roinn Talmhaíochta, Bia agus Mara | Department of Agriculture, Food ar Transition



Clustering: An underutilised enterprise policy tool and a prospective approach for Ireland

John Hughes, Department of Enterprise, Trade & Employment 3 October 2022



Context & Rationale

Ireland's enterprise and innovation policy – fosters collaboration, cooperation and linkages as well as sectoral ecosystem development

Research has confirmed Ireland's high profile concentration/agglomeration/specialisms in key sectors & a growing landscape of clusters and networks

National clustering policy approach will aim to ensure a strong impact from existing and future clusters in Ireland



We see an increased emphasis of clustering as a tool to

increase

enterprise

base;

accelerate

diffusion of

technology

build competitive advantage in strategic sectors

innovation intensity in the

further embed MNCs, and increase spillovers and domestic value capture from MNC Sector: attract investment/new capabilities

support green and digital transitions. **ESG** agenda

drive growth in the indigenous sector, promote a pipeline of innovation driven high growth firms

increase SME productivity. internationalisation. competitiveness and scaling

SUPPORT regional development within a national policy approach where scale, sustainability and impact are

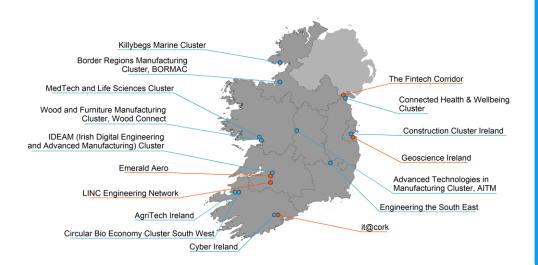
Facilitate/enhanc e engagement with EU industrial ecosystems, **SVCs and IPCEI**

Recognising that the goals and objectives will differ amongst different clusters



Ireland's existing cluster landscape

Nascent but developing landscape of 'clusters' in Ireland with a much larger number of industry associations, networks, specialisms, sectoral agglomerations.



Lack of coherence

- Ireland's cluster landscape is relatively nascent, small scale and fragmented
- Developed quite organically relative to the policy-driven approaches internationally
- Underutilisation of EU funding and international networks



Policy challenges

Defining clustering objectives for the Irish context

Clustering in areas of current or potential competitive advantage

Maximising scale while harnessing benefits of proximity and regional development

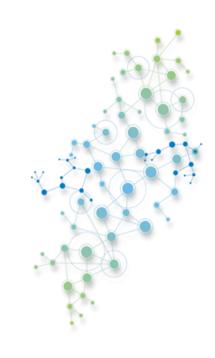
Ensure established clusters stay current and relevant

Sustainability of cluster organisations - long-term funding commitment & industry co-funding

Integration of a strengthened national clustering approach within existing effective structures and policies

Strengthening Clustering as a tool of Irish Enterprise Policy





Deliberate selective approach to cluster identification

- Aligned with national enterprise policy priorities including productivity, skills (employee and management), innovation etc.
- Portfolio approach & competitive advantage priorities
- · Build on existing clustering and enabling infrastructure

Simpler and stronger cluster landscape

- Limited number of strategic clusters tiered and flexible approach
- National clusters headquartered regionally, as appropriate
- Considerations for institutional-strengthening professionalisation, governance, & resourcing etc.

National Clustering Programme

- Aims and objectives articulated
- Medium—to long-term funding commitments; regular performance review
- Policy monitoring and evaluation



White Paper on Enterprise Symposium

Monday, 3rd October 2022