

Pannel discussion on the release of the Slovenian translation of the book
Cleanroom Technology by Dr. William Whyte

**“It is time for Slovenia to take a step forward in the
development and education in the field of cleanroom
technology.”**

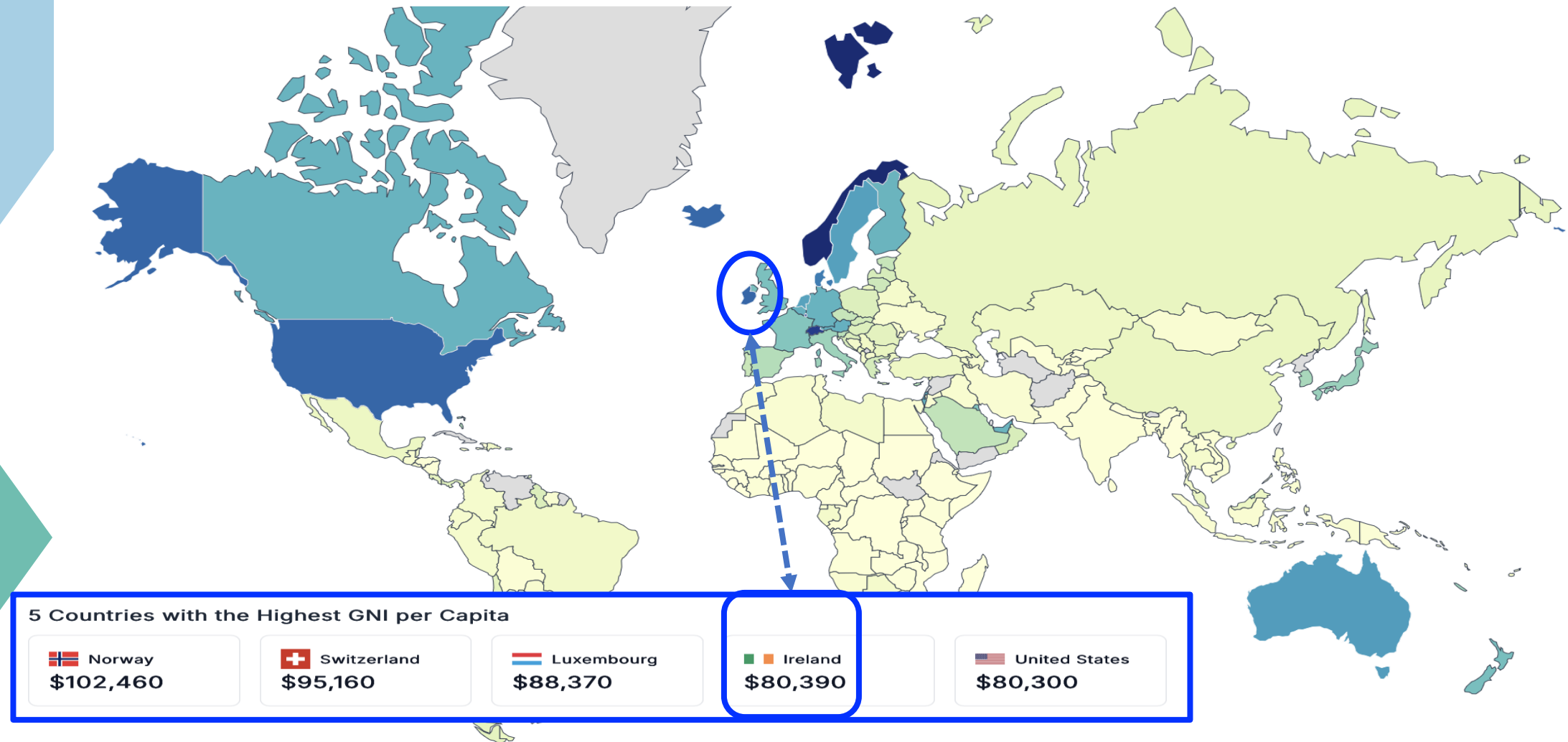
Monday, 15th of September 2025

Chamber of Commerce and Industry of Slovenia, Hall A

Irish Experience in building an integrated Life Science industry supported by foreign direct investment over the last 50 years

Conor Murray,
Chair of the Irish Cleanrooms Society (ICS)
Hesd of Delegation for Ireland at TC 209

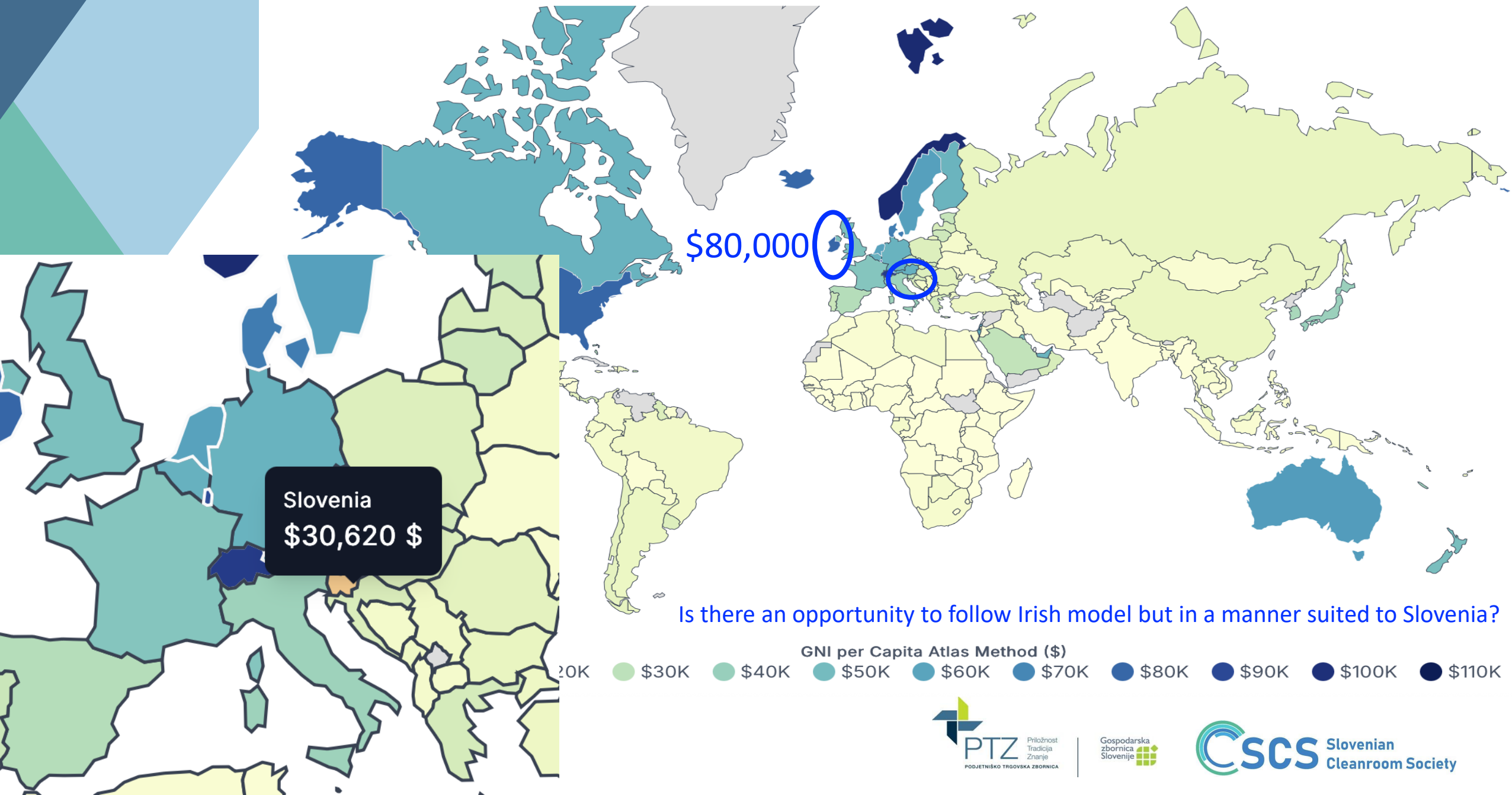
GNI per Capita by Country 2025



GNI per Capita Atlas Method (\$)

● \$10K ● \$20K ● \$30K ● \$40K ● \$50K ● \$60K ● \$70K ● \$80K ● \$90K ● \$100K ● \$110K

GNI per Capita by Country 2025



Invest in Ireland

This is a land where inspiration, opportunity and resilience grow, in a safe and stable environment. Where people with a can-do attitude ensure that new thinking flourishes and businesses thrive. Supported by our young and highly-skilled workforce, our pro-business philosophy and our commitment to the EU.

This is Ireland. A natural place to put down roots.



Evolution of FDI impact in Ireland in last 10 years



Direct employment
**+55% increase
to over 300,000**



Annual Irish
sourced spend
+136% to €14.6bn



Annual payroll
+146% to €23.9bn



Annual capital expenditure
+131% to €13.2bn

FDI base accounts for:

- 11% national employment
- 75% corporation tax receipts
- 70% national exports
- 70% national business spend on RD&I

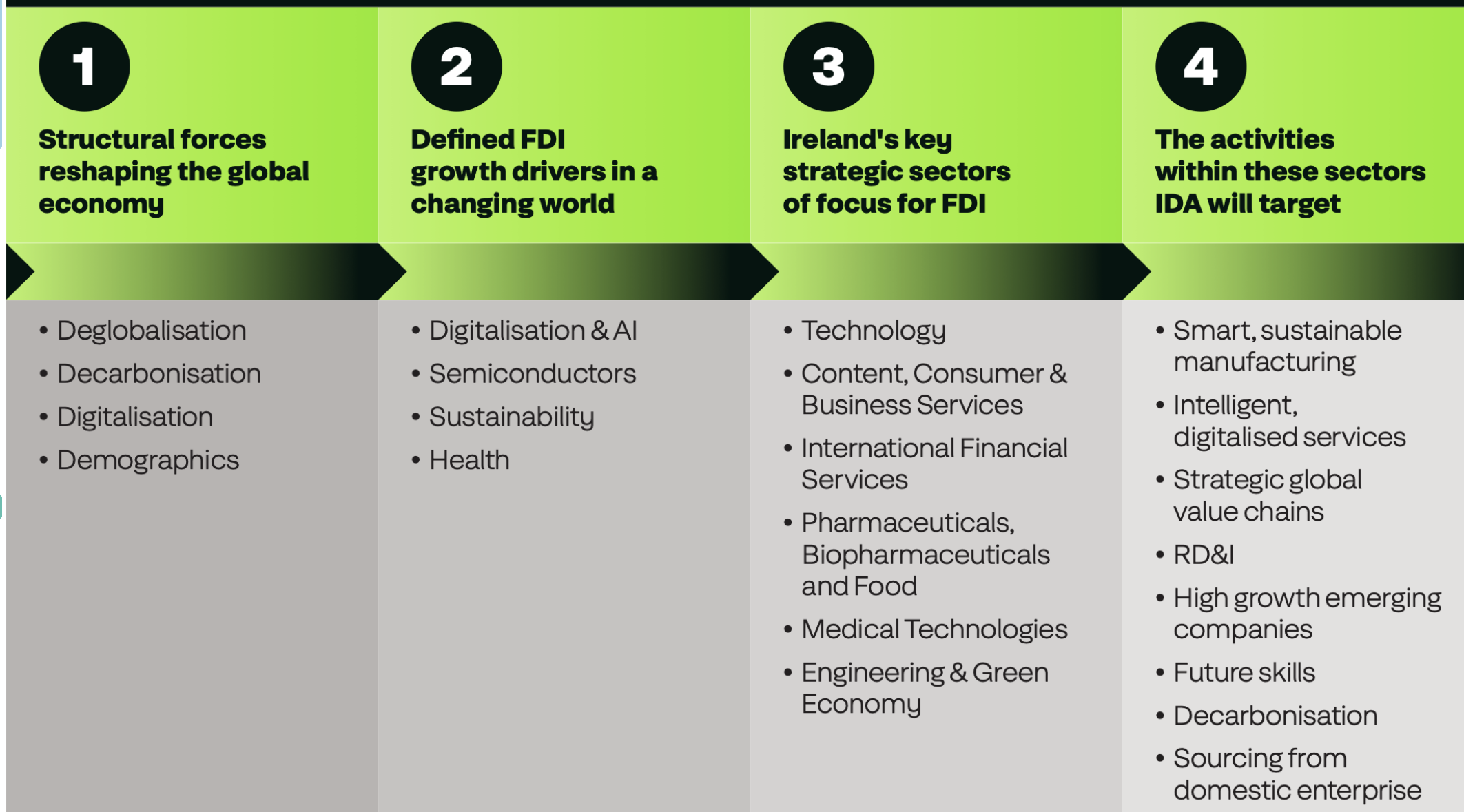


**Deep integration
& contribution
to strategic EU
value chains**

**€160.4bn annual
exports to EU**

**197% increase
since 2014**

Translating growth drivers into FDI opportunities





Small Molecule Manufacturing

Biologics Manufacturing



S

**Stable
Environment**



**Sustainable
Location**



T

Track Record



**Talent &
Education**



E

**Ease of Doing
Business**

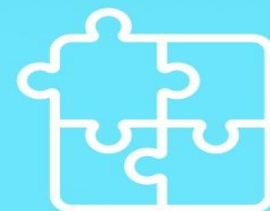


EU Member



P

**Partnership
Solutions**

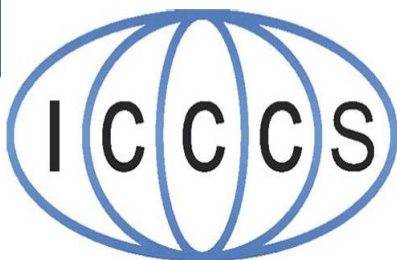


**Proven
Innovation
& R&D Hub**

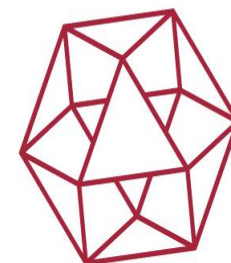




Training



— Accredited Education —



NSAI


The CTCB-I courses held in Ireland have been **accredited** by the **ICCCS Accredited Education**.

All courses follow a 'Basic Guidelines' **quality assurance system** and include:

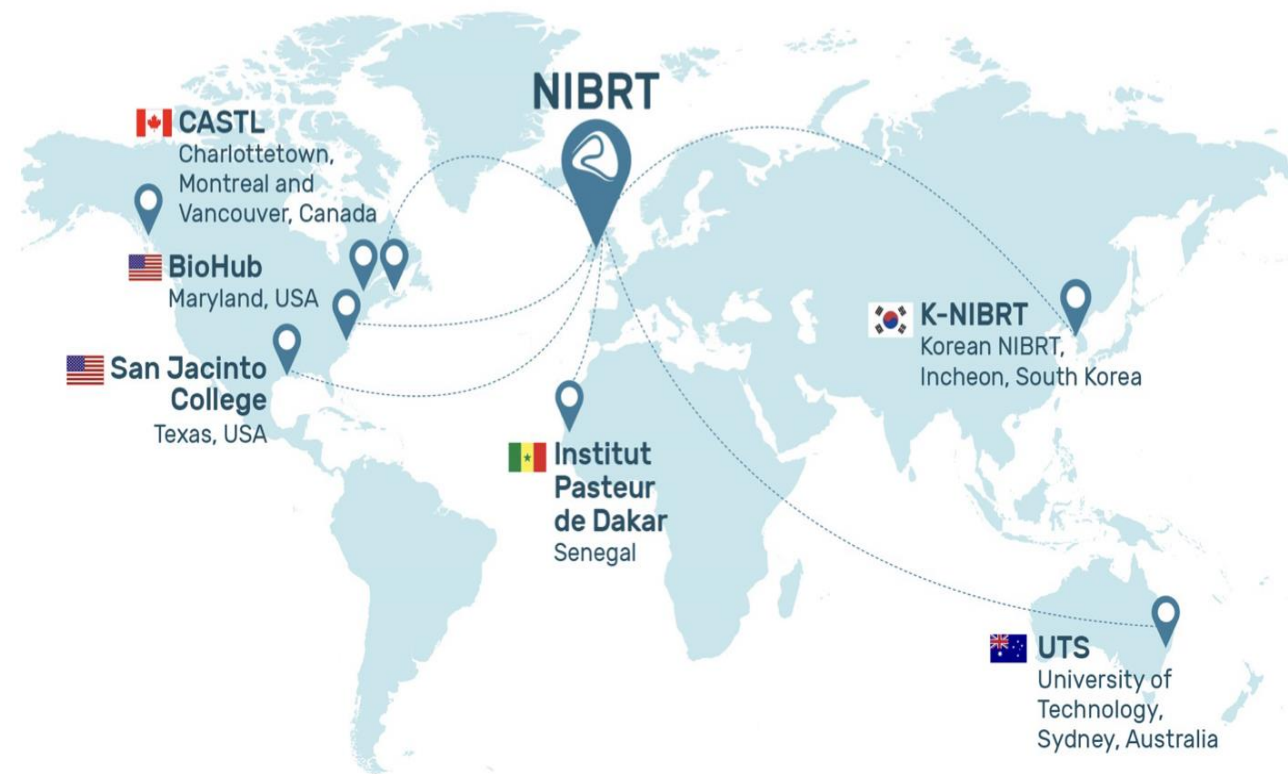
- suitable course content relevant and
- up-to-date notes or
- text books expert lecturers the setting of clear and unambiguous exam questions suitable exam marking practices an examination and advisory board to audit the course and exams public traceability of a person's certificate.

The certification of professional testers will result in a higher quality of testing your cleanroom.

The ICCCS Accredited Education certified courses that the **Irish Cleanroom Society** offers are as follows:

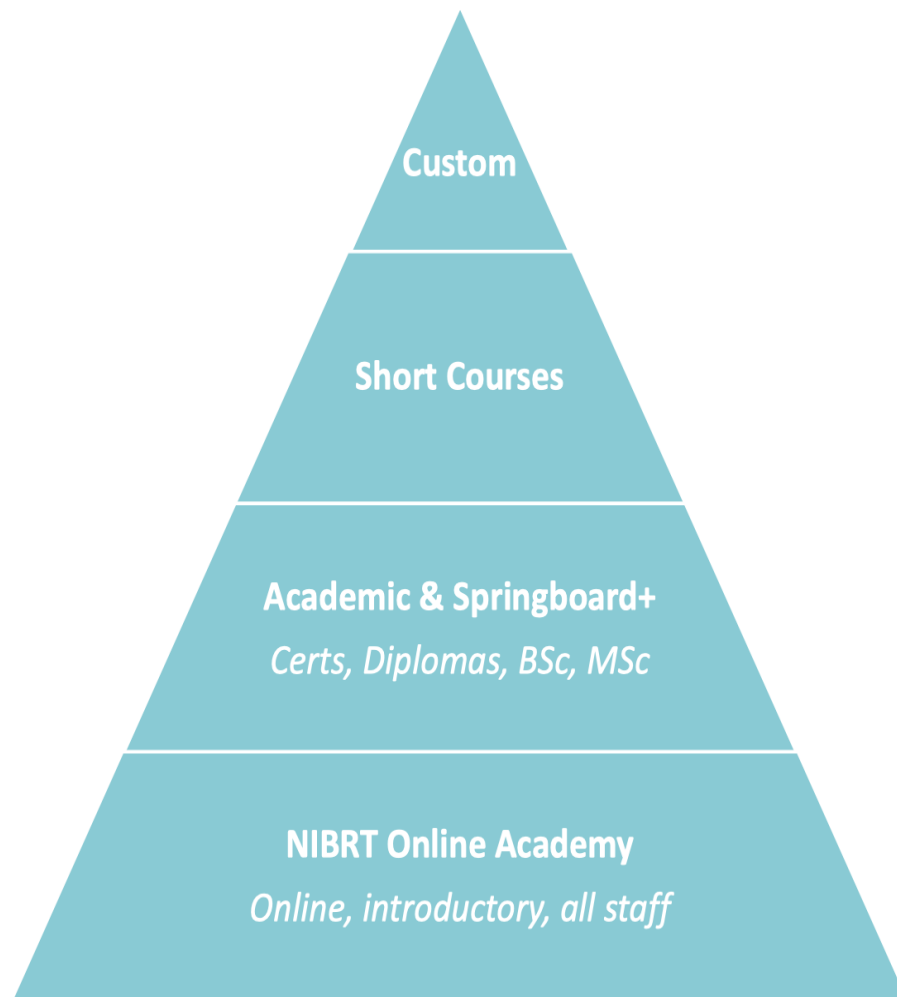
International Cleanroom Pass	REF 000	
GMP Cleanroom Cleaning (Basic)		
GMP Aseptic Cleanroom Cleaning		
GMP Cleanroom Equipment Cleaning		
CTCB-I Cleanroom Testing Course		
CTCB-I Cleanroom Technology Course		

NIBRT Global Partners Programme



- The NIBRT Global Partner Programme supports an international alliance of leading training and education organisations to help address the global shortage of a skilled biopharma workforce.
- Qualified organisations license NIBRT's expertise to provide biopharma training and education capability in their region.

Training Solutions



Customised Training

All aspects of courses customised to meet client's requirements.
5 -10 days. Blended online, classroom and practical.

Short Courses

Short courses of 1-5 days duration on key specialist topics.
Blended online, classroom and practical.

Academic and Springboard Programs

Education programmes in partnership with Irish Universities.
MScs, Diplomas, Certificates. Part-time, online options available.

NIBRT Online Academy

Library of eLearning that provides overview of core functions of biopharma manufacturing. Available on demand. [Link](#).

- New state-of-the-art filling and isolator system for aseptic syringe filling
- RABS and Isolator Technology: Ensuring a Grade A (ISO 5) Environment
- Automated Decontamination: Utilising vaporised hydrogen peroxide for thorough and efficient decontamination
- Cutting-Edge Filling Automation: Optimised for Ready to Use (RTU) nested syringes.
- Advanced Aseptic Material Transfer Technology: Features two Rapid Transfer Ports (RTPs) and a Sterile Access and Retrieval Technology (SART) for fluid handling.



Regulatory/Quality Courses

Quality and Regulations Short Courses

- Annex I: A Practical Perspective
- Operator Inspection Readiness: A Practical Perspective
- In progress-ICH Practical Perspective courses

Co-Hosted Training Courses

- Inspired Pharma – Lead Auditor 5-day course – June 2025
- PIC/S Inspectors training – every two years – March 2025
- Compliance Group – 1 day visit to NIBRT to train auditors as part of Cert program – July/August

Education Programmes

Certificate Programmes	Level	ECTS
NEW! - Certificate in ATMP Vector Manufacturing	9	30
Certificate in Bioindustry 4.0	9	30
Certificate in Biopharmaceutical Science	9	30
Certificate in Biopharmaceutical Processing	9	30
Certificate in Bioanalytical Techniques	9	10
Certificate in Commissioning, Qualification and Validation for Biologics	9	30
Certificate in ATMP Cell Manufacturing	9	30
Certificate in Biopharmaceutical Science	8	30
Certificate in Bioprocessing Technologies	8	30
Certificate in Biopharmaceutical Processing	7	30
Certificate in Bioprocess Engineering	7	30
Certificate in Biopharmaceutical Processing	6	30
Certificate in Aseptic Biopharmaceutical Operations	6	30

Major Award Programmes	Level	ECTS
BSc (Hons) in Biopharmaceutical Science	8	60
BSc in Biopharmaceutical Science	7	60
Postgraduate Diploma in Science in ATMP Technology and Manufacturing	9	60
Postgraduate Diploma in Science in Validation and Digitalisation Technologies	9	60

Masters Programmes	Partner University
MSc in ATMP Vector Manufacturing	ATU Sligo
MSc in Validation and Digitalisation Technologies	ATU Sligo
MSc in Bio-Industry 4.0	ATU Sligo
MSc in Commissioning, Qualification and Validation for Biologics	ATU Sligo
MSc in ATMP Technology and Manufacturing	ATU Sligo
MSc in ATMP Cell Manufacturing	ATU Sligo
MSc in Biopharmaceutical Science	ATU Sligo
MSc in Biopharmaceutical Processing (by research)	ATU Sligo
MEngSc in Biopharmaceutical Engineering	UCD
MSc in Bioprocess Engineering	DCU
MSc in Biopharmaceutical Technology	TUS
MEngSc Pharmaceutical & Biopharmaceutical Engineering	UCC
MSc Immunotherapeutics	TCD

SIBRT Life Sciences Research & Training

Building Services Design
HVAC, BMS, M&E, I&C, Utilities

Cleanroom Training
ICCCS Accredited Courses
CTCB-I SCS

UNIVERSITIES & COLLEGES
Level 6, 7, 8 & 9

Government + INSTITUTIONS + Industry

Thank you for your attention!

The Slovenian Cleanroom Society

Dimičeva ulica 13
1504 Ljubljana

T: 01 5898 312
F: 01 58 98 317
E: ptz@gzs.si