

Féidearthachtaí as Cuimse  
Infinite Possibilities

**HUCBMS 2019**

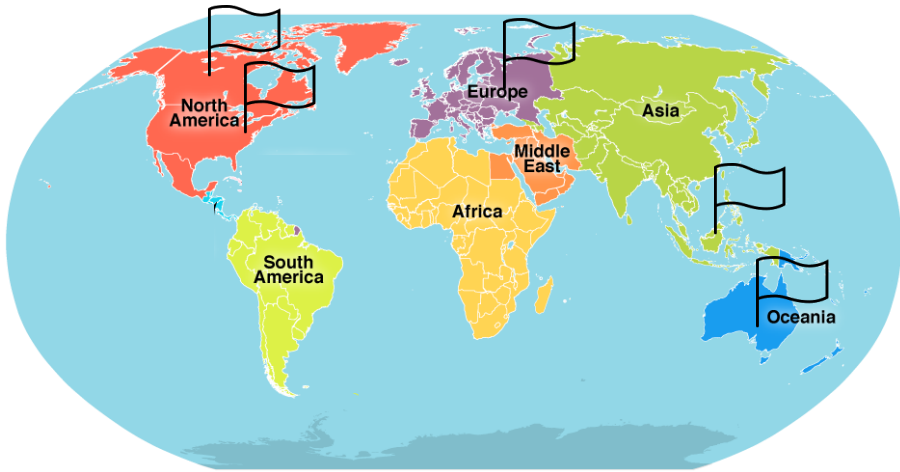
TU Dublin

- Ireland's First Technological University

A New Approach to Higher Education

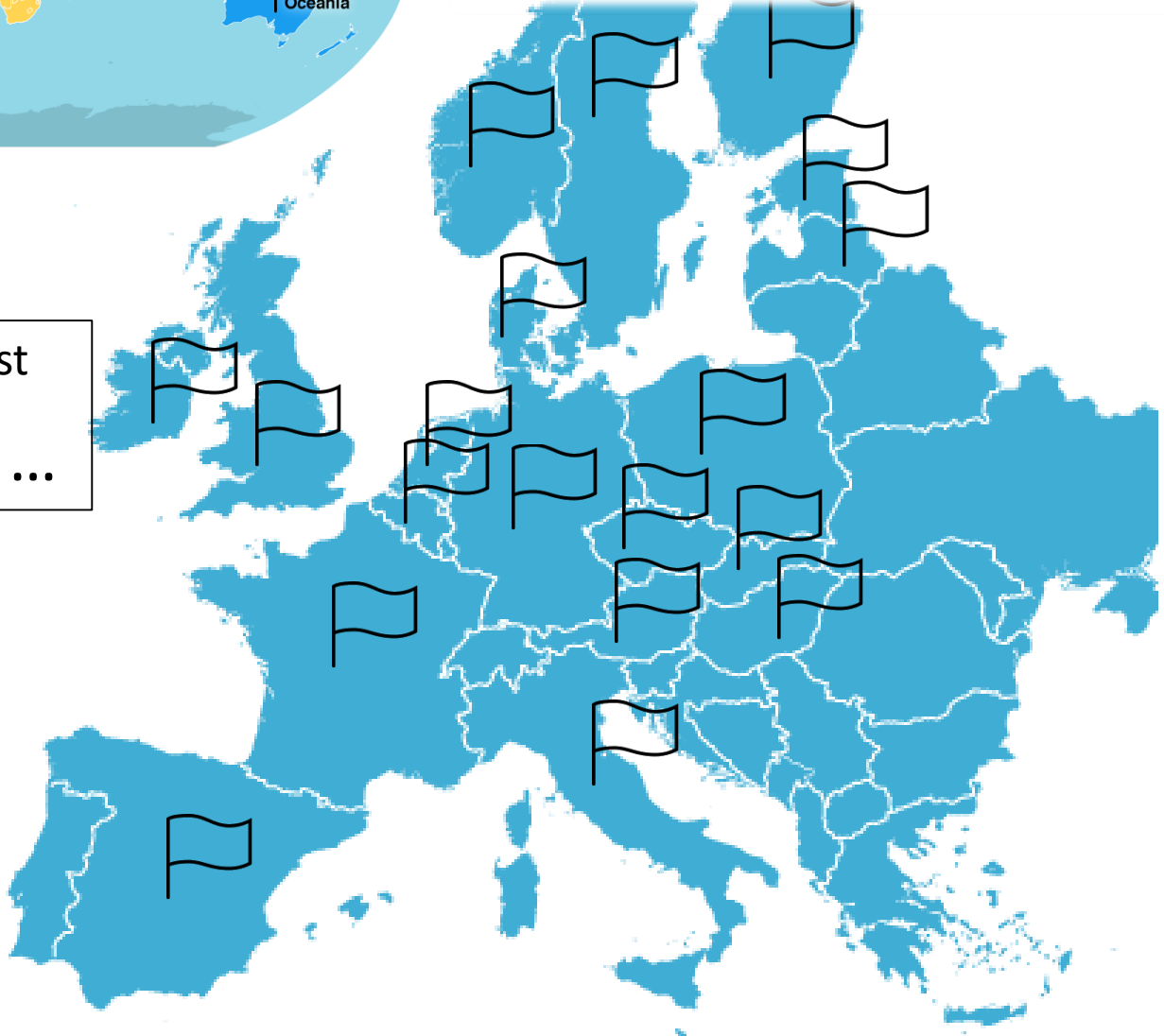
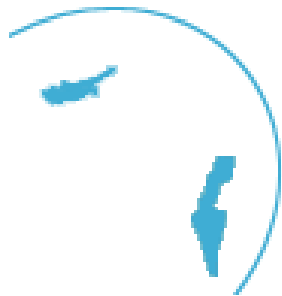
Professor David FitzPatrick  
President  
TU Dublin





Technological Universities  
are long standing across the  
globe

TU Dublin – 1<sup>st</sup>  
in Ireland but ...



# TU – Mission Statements

## WATERLOO

where students  
come to learn  
how to tackle  
global challenges

## AALTO

A community of bold  
thinkers where  
science and art meet  
technology and  
business — Become  
a Game Changer.

## TWENTE

Embracing a bold  
new set of  
ambitions and  
raising the bar  
even higher

## EINDHOVEN

The world of 2030 will  
be different from the  
world we live in now.  
Our university is going  
to play a key role in  
shaping our future

## GEORGIA TECH

Leaders in influencing  
major technological,  
social and policy  
decisions that address  
critical global  
challenges

## AUS TECH

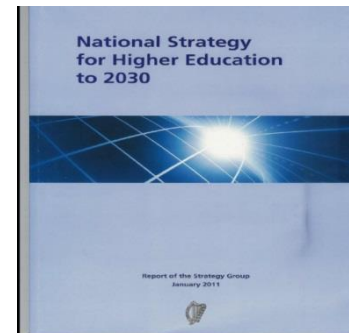
Solutions  
with REAL  
world impact

# National Strategy for Higher Education to 2030

## Objectives:

- Increase participation, equality of access & lifelong learning in higher education;
- Excellent teaching & learning and quality of student experience and opportunities;
- High quality, internationally competitive research and innovation;
- Enhanced engagement with enterprise and the community and embedded knowledge exchange; and
- Enhanced internationalisation

*Published Jan 2010*





# Dublin - A Technology Hub





#BestUniCity

## THE BEST UNIVERSITY CITIES 2017

Rank	Metros	No. of top 500 Schools
1	London	15
2	Paris	12
3	Seoul	8
4	Cambridge, Melbourne, New York	7
5	Hong Kong	6
6	Chicago, Stockholm, Sydney, Tokyo, Washington, DC	5
7	Barcelona, Brussels, Copenhagen, Dublin, Liège, Los Angeles, Milan, Moscow, Philadelphia	4

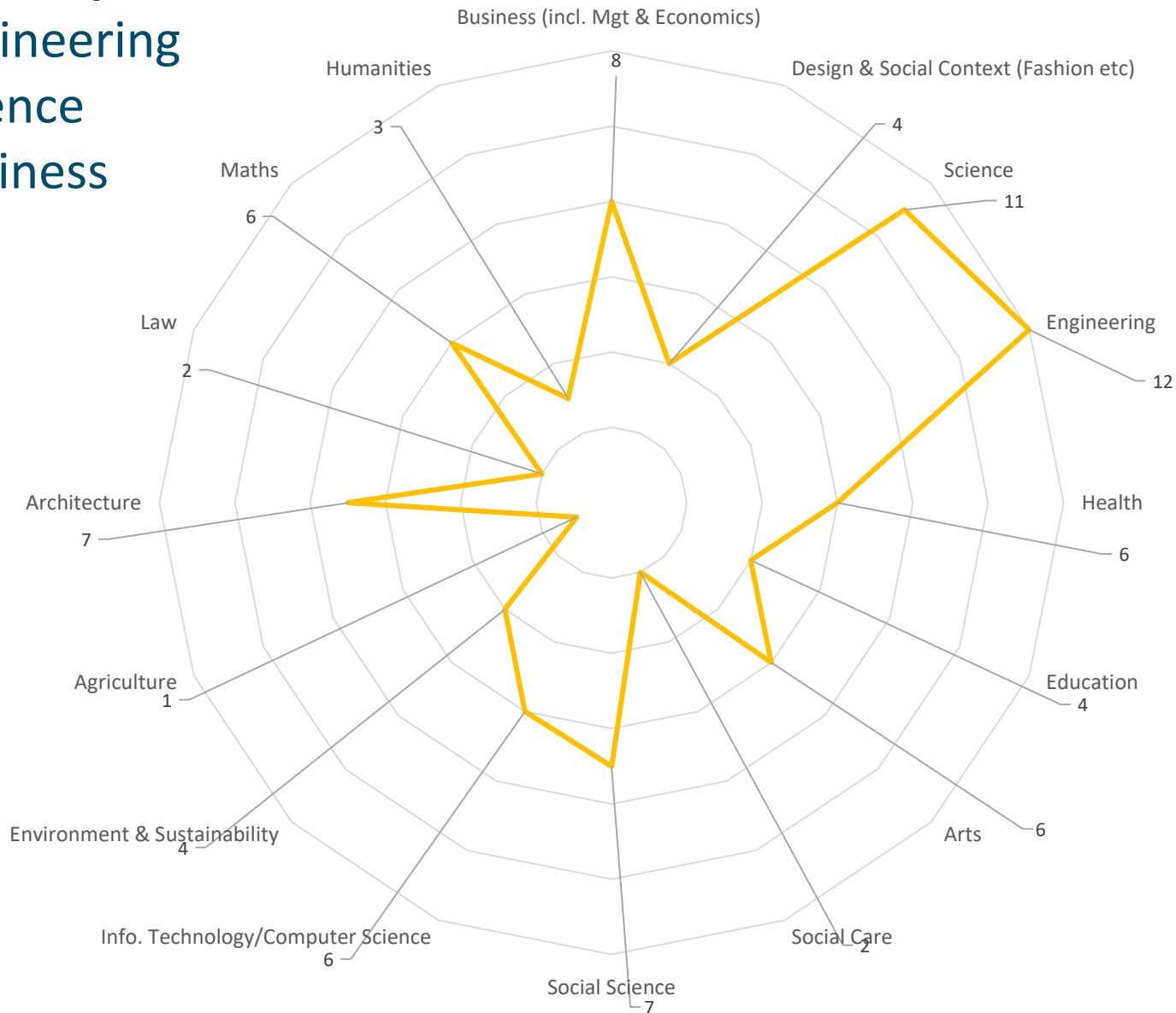
# 12 TUs - Discipline Comparison

## Top 3 Disciplines:

#1 Engineering

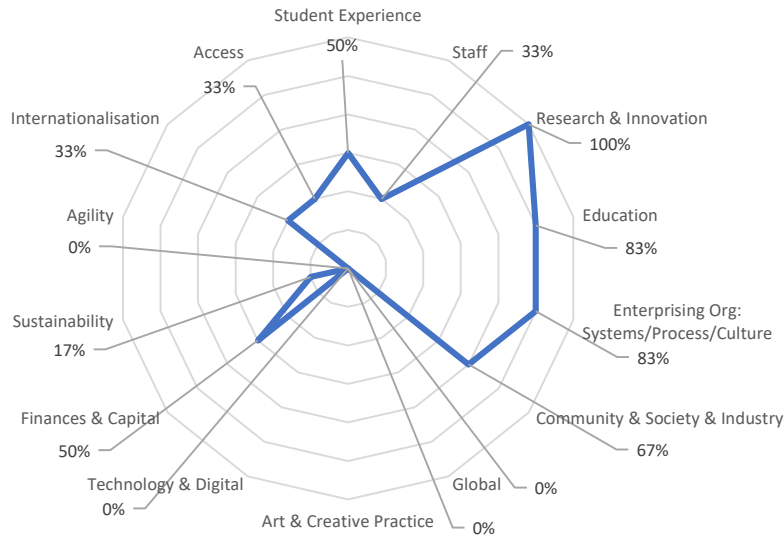
#2 Science

#3 Business





## IRL IoTs Top Level Strategic Themes



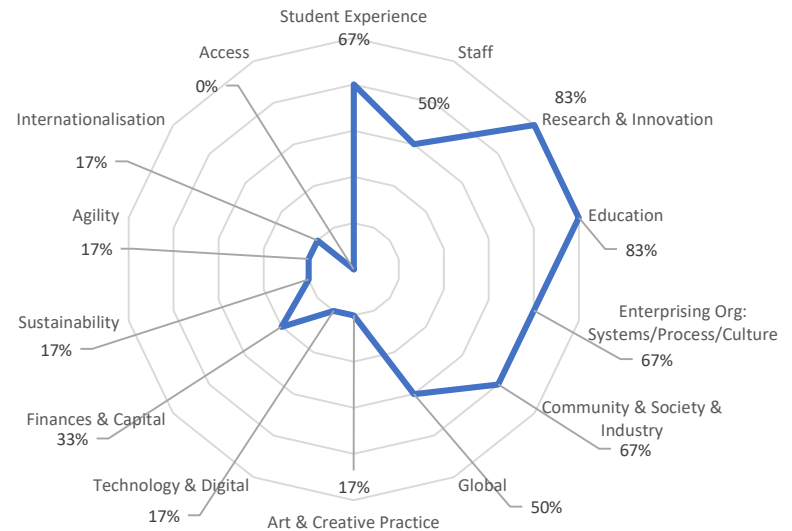
## Top 3 IoTs Strategic Themes:

1. Research & Innovation
2. Education
3. Enterprising Organisation

## Top 3 Uni Strategic Themes:

1. Research & Innovation
2. Education
3. Joint 3rd
  1. Student Experience
  2. Enterprising Org.
  3. Community & Society

## IRL Uni Top Level Strategic Themes

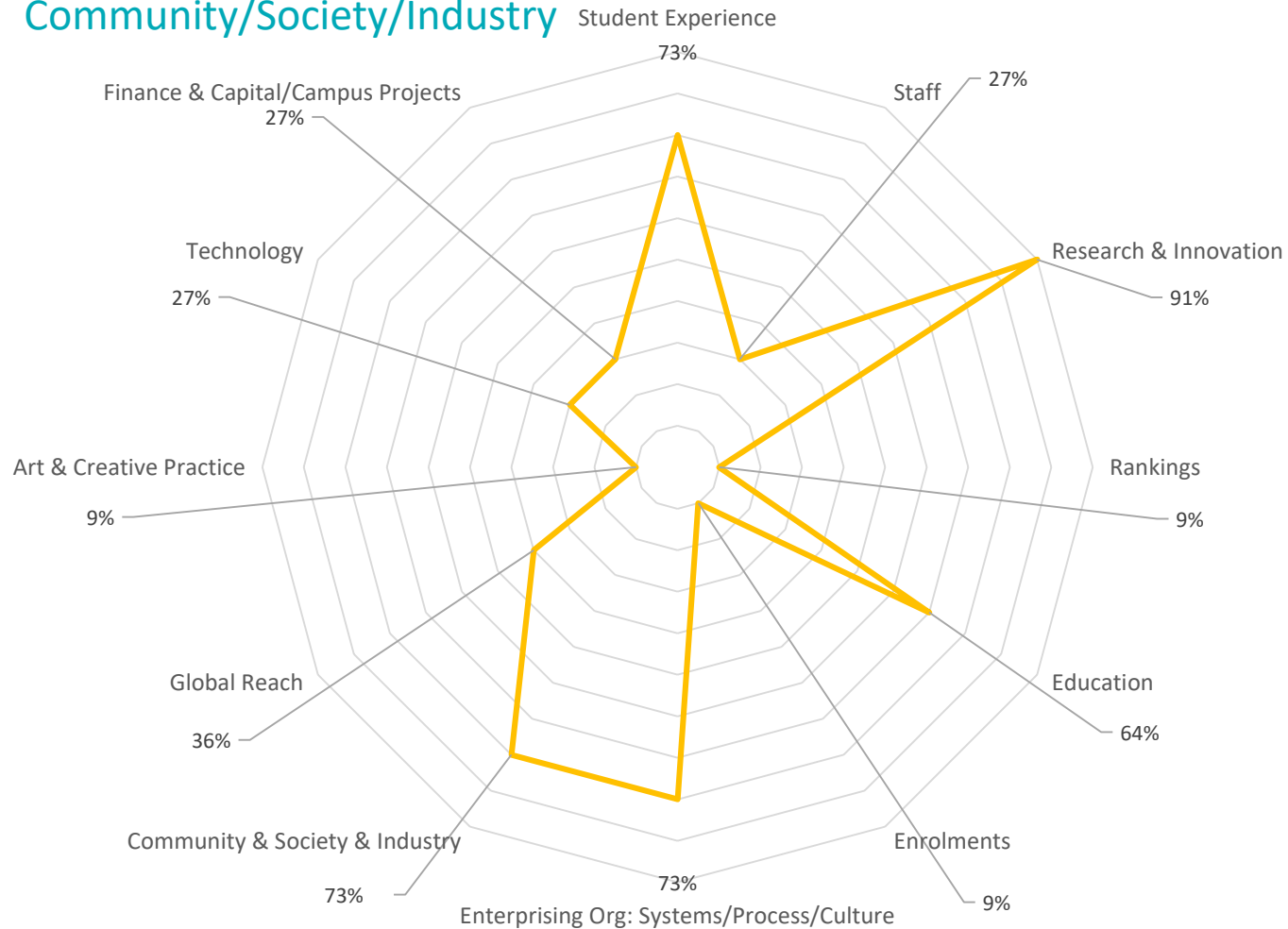




# TU Top Level Strategic Themes

## Top 3 Strategic Themes:

- Research & Innovation (91% of the 11 TUs investigated)
- Joint 2<sup>nd</sup> Themes (73%)
  - Student Experience/Campus Life
  - Enterprising Organisation
  - Community/Society/Industry

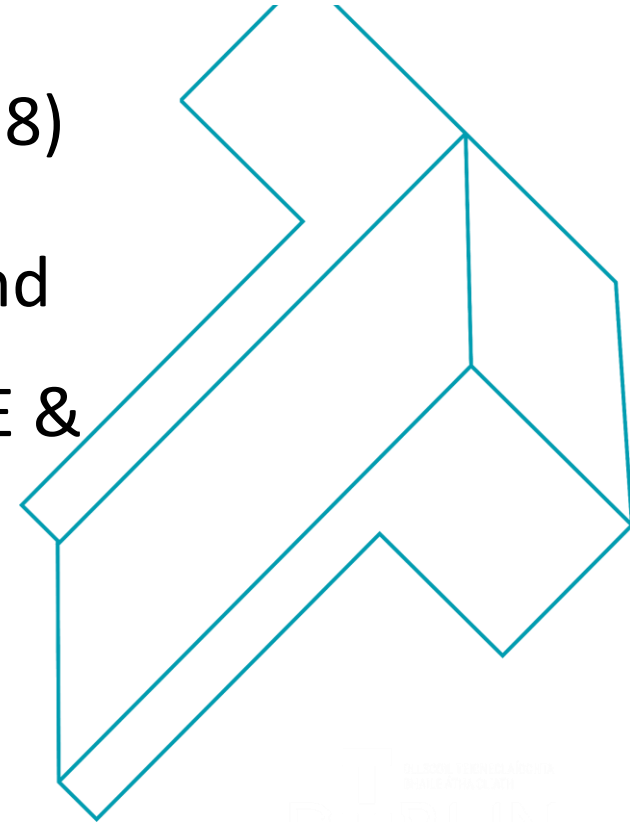


# The TU Dublin Journey (2011-2019)

- **2011** - Technological Universities proposed (Hunt Report)
- **2012** - TU for Dublin Alliance committed to establishing a Technological University for Dublin.
- **2016** - TU Bill lapsed with the dissolution of the 31st Dáil.
- **2016/17** – TU4D Programme Team established.
- **2017/18** – TU4D Programme Plan Developed.
- **2018** – TU Act passed; Application for TU designation
- **2019** - 1st January – TU Dublin legally established

# TU Dublin at a Glance

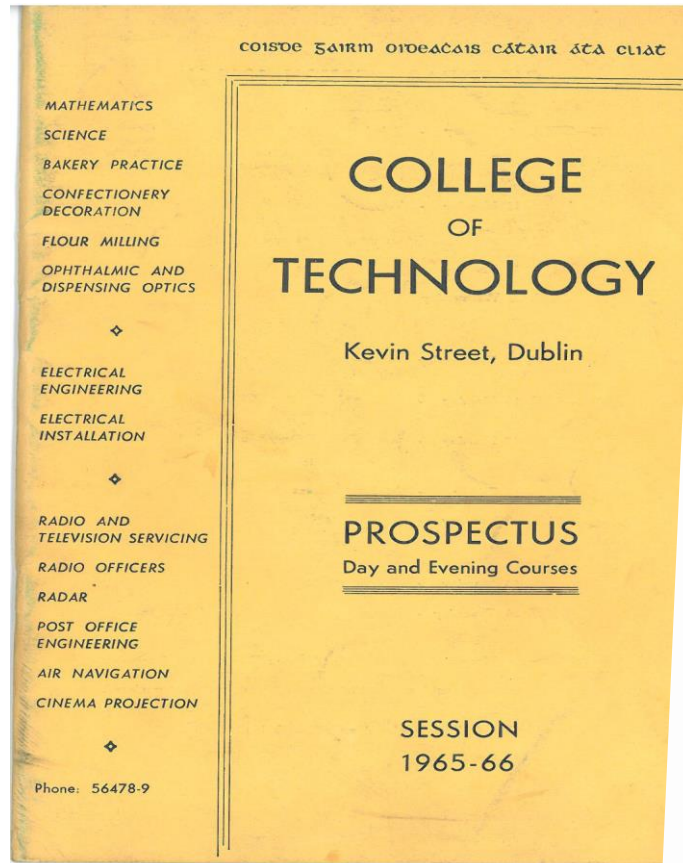
- 28,500+ Students
- 2019/20 Intake > 5,000 (Levels 6, 7 & 8)
- 13% of all Higher Ed students in Ireland
- ~20% of new entrants via HEAR, DARE & Access programmes
- >25% of all apprenticeship provision
- 2,300 Staff
- Leader in Life long learning and executive education opportunities
- 3,350+ International Students



# TU Dublin – Education in Biomedical Science

## – ~ 60 year history

- 1962 – first course educating Medical Laboratory Technicians
- 1966 – first Certificate/Diploma Course
- 1990 – first degree programme (awarded with University of Dublin, TCD)
- 2001 – first degree awarded from Dublin Institute of Technology (TU Dublin)



### PART-TIME DAY RELEASE COURSES

Students sit the Intermediate Examination in Breadmaking and Flour Confectionery of the City and Guilds of London Institute at the end of the second year and the Final Examinations in Breadmaking, Flour Confectionery and Bakery Science, at the end of the fourth year of the Course. The Irish Bakers', Confectioners' and Allied Workers' Union, the Dublin Master Bakers' Committee and the Guild of Irish Bakers, offer cups and prizes for students of the Course. See page 54 for details.

Ref.: P.M.L.T.

#### Medical Laboratory Technology

Course Co-Ordinator: MR. JOHN HANRATTY

Fee: £5 per session.

This Course conducted on one of two full days each week is provided for those employed in Medical Laboratories who wish to prepare for the Intermediate Examination of the Institute of Medical Laboratory Technology. Applicants must have satisfied the educational requirements of the Institute of Medical Laboratory Technology for registration as student members.

The Course extends over three sessions and is not available to students who have previously enrolled in the Evening Course Ref. S.5 page 36.

#### FIRST YEAR

Day	Time	Subject	Room	Teacher
Monday or Friday	9.00-11.00	Chemistry		
	11.00-12.30	Mathematics and Statistics		
	2.00- 5.00	Biology		
	7.00- 9.30	Physics		
	9.30-10.00	General Studies		

The time-table of the second and third year of the course will be published in the Prospectus for the 1966/67 and succeeding sessions.

Ref.: P.S.L. Laboratory Technicians' Work

Teacher-in-Charge: L. BREEN, B.S.C., DIP.CHEM.TECH.

Fee: £3 10s. Od. per session.

This Course provides training for laboratory attendants and assistants who work in universities, research institutes, industrial firms and schools and is primarily intended for those working in chemical laboratories. Students sit the Intermediate examination of the City

# Biomedical Science Programmes in TU Dublin

<b>BSc (Hons) Biomedical Science (DT204)</b>	<b>MSc Clinical Laboratory Science (DT236P)</b>	<b>CPD Certificate Histopathological Dissection (DT9200) – Joint with Faculty of Pathology, RCPI</b>	<b>CPD Molecular Cervical Cytopathology Joint with Coombe W&amp;I University Hospital (launch Sept 2019)</b>	<b>CPD Medical Device Decontamination (DT7201)</b>	<b>BSc (Hons) Biomedical and Molecular Diagnostics (DT206)</b>
40 students	20 students	20 students	Up to 10 students	20 students	25 students
501 points	Entry mainly Medical Scientists	Entry Requirement: Medical Scientist	Upskilling of Medical Scientists	Working in hospitals (CSSD), dental practices	476 points
Clinical Placement 30 weeks	Research project	1 year part-time programme	15 ECTS	One semester part time	Placement 14 weeks
Professional or Statutory Regulation ACSLM and IBMS. CORU	Professional Accreditation ACSLM and IBMS.	RCPI, ACSLM	CPD Certificate in Molecular Cervical Cytopathology	CPD Certificate Medical Device Decontamination	In-vitro diagnostic Industries



# Technological University Dublin - Biomedical Science Recognition

## CPD Histopathological Dissection Graduation 2017 (unique programme)



## Undergraduate student Labcon Prizewinners



## School Annual Research Day



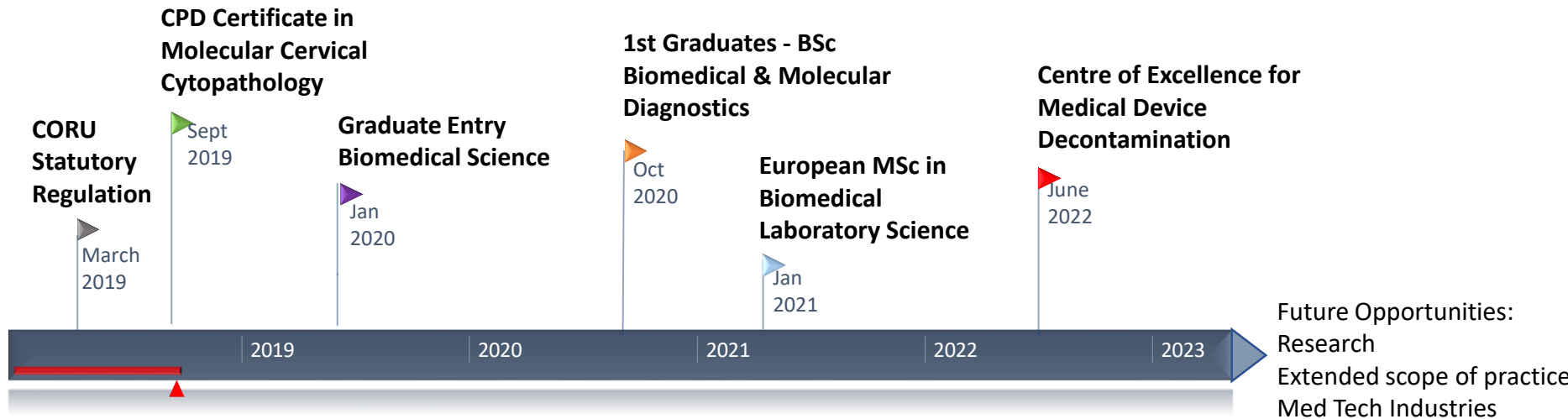
## The Irish Laboratory Awards

- Education Laboratory of the Year 2016
- Shortlisted finalist 2017
- Winner 2018



**BSc (Hons) Biomedical Science**  
**~40 graduates annually**

# TU Dublin - Development of Biomedical Science



Underpinned by research in biomedical science & engineering

Extended scope of practice:

- Advanced practice for Medical Scientists
- Med Tech Industry – graduates for Molecular Diagnostic Industries (IVD)
- Continued collaboration with Medical Science Profession, Pharmaceutical, Med Tech and In-vitro Diagnostic Industries

## Ireland's 1<sup>st</sup> Technological University

### Students



**+28k**  
Students



**8.5k**  
Part time Students



**7.5k**  
Graduates p.a.

### % of National Enrolments



**19%**  
ICT



**18%**  
STEM



**25%**  
Apprenticeships

### Research Impact



**+400**  
Sustainable Businesses



**€200m**  
Equity Investment



**€655m**  
Value to Community



**1,700**  
Jobs Created

### Our People



**1:20**  
Staff : Student Ratio



**+3.5k**  
Academic & Support Staff



**46%**  
Female Staff

### Infrastructure



**+€500m**  
Planned Investment

### Programmes



- STEM (incl. Engineering)
- Business & Law
- Arts & Humanities
- Services
- Health & Welfare

### Diversity



**16%**  
Mature



**13%**  
Access



**15%**  
Disability



**2500**  
International Students  
across 100 countries

### Rankings

Time Higher Education rank  
TU Dublin in Top Young  
Universities Worldwide



### Employment Prospects



Graduates in employment  
or in further education,  
within 9 months of  
graduating

Infinite  
Possibilities



# Sample of TU Dublin Start-up Companies





## TU Dublin Campuses

- City (*1887*)
- Blanchardstown (*1999*)
- Tallaght (*1992*)



# Grangegorman Campus 2020

The largest Irish investment in Higher Education in a century, Grangegorman will be home to 10,000 TU Dublin students by September 2020



Central Quad



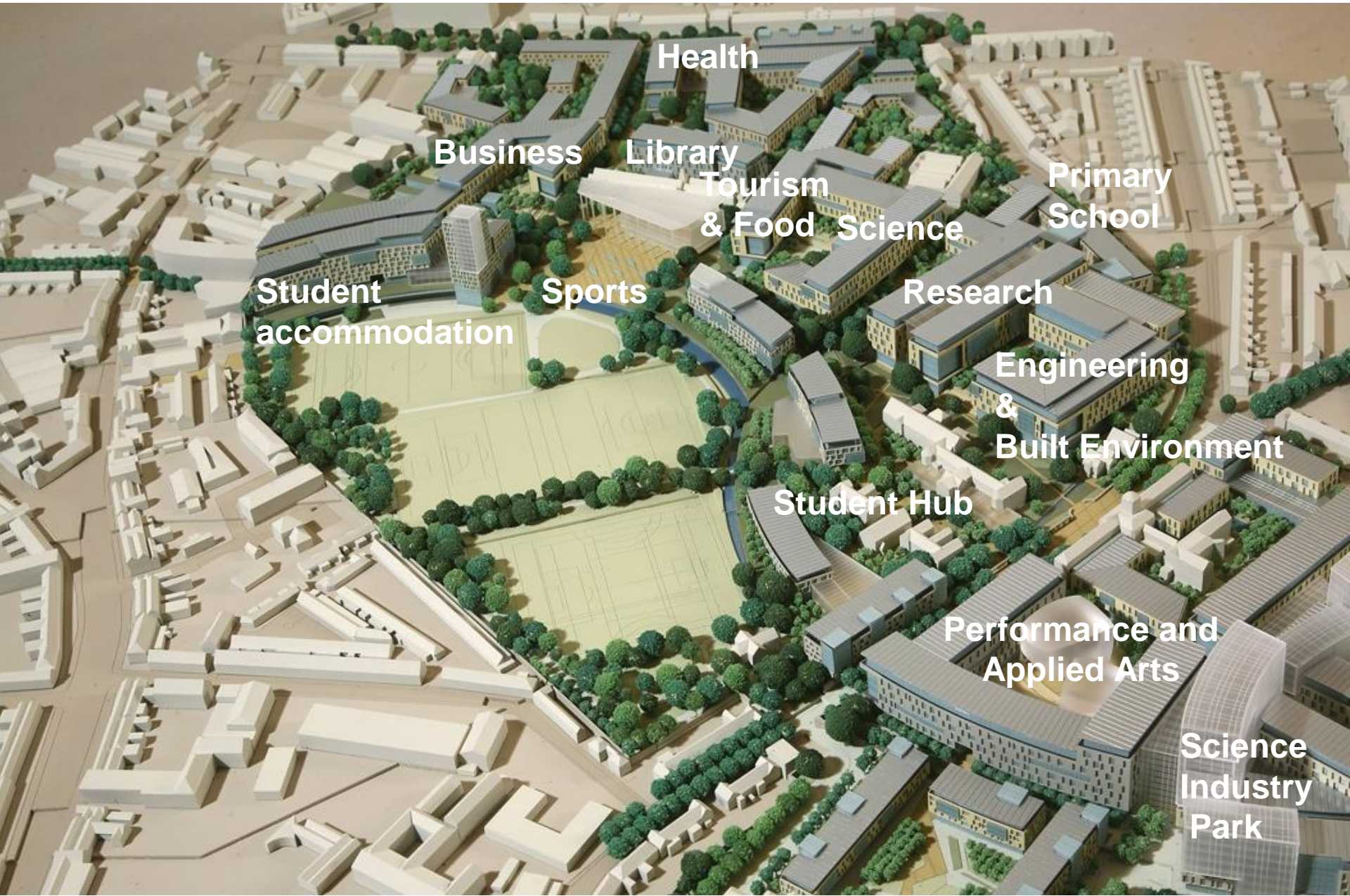
East Quad

# Grangegorman 1950s





# Grangegorman Campus - Masterplan



Health

Business

Library

Tourism

& Food

Science

Primary School

Student accommodation

Sports

Research

Engineering &

Built Environment

Student Hub

Performance and

Applied Arts

Science

Industry

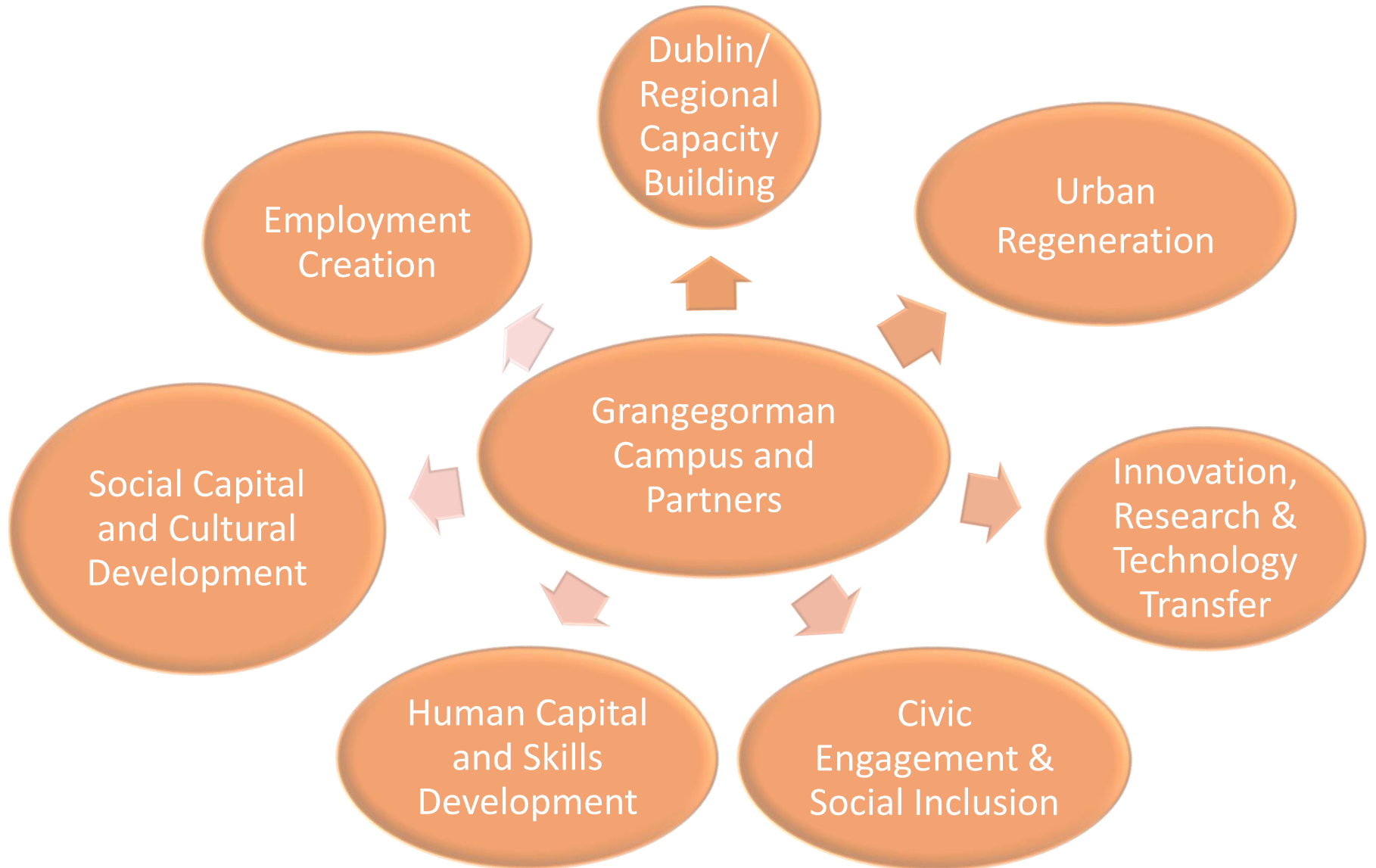
Park



# Grangegorman - Campus Development



# Driving Urban Regeneration





# TU Dublin

## Strategy, Impact & UN SDG's

### SUSTAINABLE DEVELOPMENT GOALS

The SDG pillars which were most strongly emphasised by stakeholders for TU Dublin 2030 were:

- Planet
- People
- Partnership



# TU Dublin - Infinite Possibilities!

**T** OLLSCOIL TEICNEOLAÍOCHTA  
BHAILE ÁTHA CLIATH  
**DUBLIN**  
TECHNOLOGICAL  
UNIVERSITY DUBLIN



**THANK YOU**