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Ellen Hazelkorn

Technological University Dublin, ellen.hazelkorn@dit.ie

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Vocational Education and Universities: building collaboration and pathways for local/regional development

Professor Ellen Hazelkorn

Vice President, Research and Enterprise, and Dean of the
Graduate Research School

Head, Higher Education Policy Research Unit,
Dublin Institute of Technology, Ireland



‘Rather than more World-class Universities, what we really need in countries everywhere are more world-class technical institutes, world-class community colleges, world-class colleges of agriculture, world-class teachers colleges, and world-class regional state universities. The United States doesn’t have a world-class higher education system because it has many world-class universities; instead it has world-class universities because it has a world-class higher education system.’

(Birnbaum, 2007)



Global Regions and Higher Education

- As the distribution of economic activity has gone global, regions now compete on global terrain (Florida, 2008);
- Successful cities/mega-regions:
 - Depend on specialized clusters of HE and research institutes that interact with creative enterprise, exchanging ideas and personnel (OECD, 2006),
 - Have HEIs that either already have, or are growing, an international reputation and have close relationships with businesses based on the particular specialism of the institution (Hutton, 2006),
 - Because most OECD countries face talent shortages, successful cities attract international students and researchers (OECD, 2006, p122).

Creating a World-Class System

- Open and competitive system, offering the widest chance to the broadest number of students. It should not be a vehicle for perpetuating social and economic inequality;
- Diverse and coherent portfolio of horizontally differentiated high performing, regionally-engaged institutions – providing a breadth of educational, research and student experiences;
- Develop knowledge and skills that citizens need to contribute to society throughout their lives, while attracting international talent. This means ensuring the right scale and quality;
- Graduates should be able to succeed in the labour market, fuel and sustain personal, social and economic development, and underpin civil society;
- Operates successfully within the global market, international in perspective, and responsive to change – systematically benchmarking objectives and performance worldwide.

Diversity is Broad

- *Institutional mission and core tasks*: emphasis on teaching, basic and applied research, services, continuing education or professional development, outreach;
- *Research*: spectrum from basic/fundamental to national/policy relevance, across all disciplines, and curiosity driven & user-led, multi/inter-disciplinary;
- *Student profile*: ethnic, religious, or social background, gender, qualifications;
- *Staff profile*: ethnic, religious background, gender, previous academic and professional qualifications, functional emphasis, e.g., time spent on education, research, continuing education, innovation services;
- *Internal organisation*: governance, functional orientation of different units, funding mechanisms, reward structures;
- *Programme and pedagogical profile*: programme level (professional and academic diversity of disciplines and their interactions, pedagogical programme profiles).

(adapted from Reichart, EUA, 2009)

Learning Lessons

Strategies of successful mega-regions (*e.g.* Florida, Sassen): attract the key resources of talent and capital, in sufficient quantity, to support state-of-the-art buildings and social networking infrastructure essential to enable ‘firms and markets to have global operations’;

Innovation clusters (*e.g.* Porter, Nelson, Lundvall, Etzkowitz and Leydesdorff): Competitive advantage is built through developing clusters of activity, because innovation results from ‘interactions within a network of different actors’ and is rarely ‘the result of efforts within a single firm’;

Mode 2 research networks (*e.g.* Gibbons, Nowotny *et al.*): Research is conducted increasingly through bi-lateral, inter-regional and global networks, with inter-locking innovation systems because complex problems require collaborative solutions;

Biodiversity (*e.g.* Rosen, Wilson): Within the eco-system, each species plays a critical role, mutually supporting each other, without which the entire system may collapse.

Victoria, Australia

- Structure of tertiary 'system'
 - TAFE: vocational tertiary/post-secondary education colleges/institutes;
 - Dual-Sector Universities: universities offering vocational/university programmes;
 - (classical) Universities: undertaking research/awarding higher degrees.
- Articulation between TAFE/university improving but remains a challenge:
 - Post-1988 universities admit most low-SES students; Go8 admit least;
 - ~11% of commencing university students offered places in 2007 on the basis of TAFE award, with higher rates, from dual-sector universities;
- Good practice:
 - Credit transfer arrangements between TAFE/universities, RPL or advanced entry
 - Cross-sectoral and multi-stakeholder collaborations, e.g. educational campuses & mix-used development (e.g. Monash@ Gippsland, GOTAFE/LaTrobe @ Shepparton, Swinburne UoT/Knox City Council: Knox Central Urban Design Framework)

Catalonia, Spain

- Structure of tertiary 'system'
 - Principally university system w/ emphasis on classical academic provision;
 - Higher vocational schools w/ 13% of the age cohort concentrated in services sector;
 - Specialist institutions, e.g. arts, music
- Articulation between Higher Vocational/university is a challenge:
 - Students enrol on a particular programme but can be difficult to transfer to another programme or field of study or institution;
 - Limited data available on level and performance.
- Good practice:
 - Higher Vocational Schools are located immediately adjacent to UVR, UdG and the UdL campuses;
 - Pre-university initiative introduces students to university (e.g. UAB)

Challenges

- Performance funding models usually measure and reward HEIs on student entry qualifications and graduation rates, etc. – which discourages recruitment of low SES, advanced entry, etc. students;
- Universities have been slow to change curriculum and pedagogy to respond to the transformation from elite to mass to universal education;
- University leaders tend to be rewarded on the basis of making their institutions more elite – moving up in rankings.
- However, such practices while understandable from an institutional viewpoint are not acceptable from a societal viewpoint:

‘From a society point of view, a tertiary education system is therefore more valuable if it can accept and educate students with a lower scholastic aptitude without compromising quality’

Ederer, P., P. Schuller and S. Willms, 2008, *University Systems Ranking: Citizens and Society in the Age of the Knowledge*, Lisbon Council, p. 11.

Best practice

- Qualifications Framework;
- Formal articulation procedures at state/national level rather than simply at programme or institutional level;
 - Flexible programmes and curriculum
 - Advanced Entry/Recognition of Prior Learning/Accumulation and credit transfer
- Targeted Summer Programme – introduce students to education/research activity
- Shared Educational Campus:
 - Between multi-level institutions, e.g. secondary, FE and HE;
 - Mixed-used development between FE/HE and city/industry.
- Tertiary Education Council