Universities in the Knowledge Economy: Higher Education Organisation and Global Change

London: Continuum. 1997

Edited by Henry Etzkowitz and Loet Leydesdorff


**Publisher’s Summary:**

Universities and industry, formerly separate and distinct institutional spheres, are now assuming each other’s tasks in the development of new technologies. A new social contract is being drawn up between the university and the larger society, in which public funding is made contingent upon a more direct contribution to the economy. This text questions whether economic development has become a function of the university in addition to teaching and research. It states that, as the university crosses traditional boundaries through links to industry, it must devise ways to make its multiple purposes compatible with each other. The book discusses elements such as: the industrial activities of individual academics in forming firms, which take on a collective force as they become increasingly common; the organizational initiatives of academic administrators in establishing procedures and administrative offices for university-industry relations; and conflict of interest controversies over linkages with industry. The contributors to this study recommend a new spiral model of innovation to capture multiple reciprocal linkages at different stages of the capitalization of knowledge. They ask how these developments in the knowledge infrastructure affect the intellectual organization of the disciplines, and whether there is co-evolution between new technologies and developments in their cognitive and institutional environments. Finally, they discuss the degree to which academic-industrial collaboration changes the role of the university as a source of disinterested expertise.

(source: Nielsen Book Data)
Contents:

- Introduction - universities in the global knowledge economy, Henry Etzkowitz and Loet Leydesdorff


- Part 2 The coevolution of technologies and institutions: when worlds collide - patents in public sector research, Andrew Webster and Kathryn Packer-- emerging environments of biotechnology, Maureen McKelvey-- the desktop model of innovation in digital media, William N. Kaghan and Gerald B. Barnett.

- Part 3 The operation of the triple helix: crossing boundaries - the emergence of research technology communities, Terry Shinn-- negotiating a new science - artificial intelligence, Petra Ahrweiler-- the new communication regime of university-industry-government relations, Loet Leydesdorff.

- Part 4 Universities in knowledge based economies: universities and industrial competitive advantage, Magnus Gulbrandsen-- Japan - from technology to science policy, Morris Low-- the entrepreneurial university and the emergence of democratic corporatism, Henry Etzkowitz.

- Part 5 Epilogue: a triple helix of university-industry-government relations, Loet Leydesdorff and Henry Etzkowitz.

(source: Nielsen Book Data)