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**CENTRE FOR INFORMATION
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PUBLICATIONS LIST

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*SPRU Centre for Information and Communication Technologies:
A Centre of the Economic and Social Research Council*

INTRODUCTION

This list comprises all of the work produced by the SPRU Centre for Information and Communication Technologies between January and June 1993, organised by research project. Earlier work is compiled in two publications lists: one for the period *January-December 1992* and one for the period *1986-1991*. Both are available free of charge from the address in the last paragraph below.

In some cases an entry ends with a number in parenthesis, e.g., (S32). These are reference numbers from the 1992 list. Hence the entry they follow is a revised version of an earlier work or the bibliographic details are sufficiently altered to warrant a new entry, e.g., a paper submitted to a journal has been published.

Only items marked with an asterisk (*) are available from the Science Policy Research Unit (SPRU). All other items can be obtained from bookshops or libraries.

To obtain items marked with an asterisk write to the SPRU Publications Office, Mantell Building, University of Sussex, Falmer, Brighton BN1 9RF, East Sussex, UK. Payment in Sterling drawn on a British Bank (made payable to the 'University of Sussex') is required with order. *CICT Working Papers* cost £20.00. The *SPRU CICT Report Series* are priced individually. All other material is charged on a sliding scale depending on length: 1-10pp £6.00, 11-20pp £7.00, 21-30pp £8.00, and so on, increasing by £1 for every 10 pages. Charges include postage and packing within the UK and Europe and are subject to revision.

The Centre for Information and Communication Technologies (CICT) is funded by the UK Economic and Social Research Council's Programme on Information and Communication Technologies (PICT). CICT aims to inform debate on public and industrial policy issues by undertaking innovative social science research on the social and economic implications of information and communication technologies. For further information about the work of the Centre write to the Information Officer, Centre for Information and Communication Technologies, Science Policy Research Unit, Mantell Building, University of Sussex, Falmer, Brighton BN1 9RF, East Sussex, UK. Tel: 0273 686758 or 678165 (direct).

NETWORKS, INDUSTRIAL RESTRUCTURING AND POLICY: DEVELOPMENTS IN THE 1990s

This research is funded under Phase II of the PICT Programme (April 1991 to March 1995). It aims to develop conceptual and empirical work on the social and economic determinants of network development, and their implications for industrial restructuring and competitiveness in the UK, the European Community and internationally. The first project, 'Electronic Trading Networks and Interactivity: The Route to Competitive Advantage', was completed in March 1992. Project 2, 'From Telecommunications to Telematics: Policies for European Infrastructures' looks at the implications for policy and regulation in the UK and the European Community of the growing demand for a more complex public and private telematics (telecommunication and information processing applications) infrastructure.

- 93/1* Constantelou N, 'Liberalising telecommunication markets: political externalities in the Greek case', Brighton: SPRU, May 1993, 33pp, presented at the PICT National Conference, Kenilworth, 19-21 May 1993, forthcoming *Telecommunications Policy*, August 1993.
- 93/2* Constantelou N, 'The Greek road to reforms in telecommunications: how far can the UK experience be useful?', Brighton: SPRU, April 1993, 20pp, prepared for the International Association of Mass Communication Research (IAMCR) Conference, Political Economy Section, Dublin, 24-26 June 1993.
- 93/3 Hawkins R and Mansell R, 'Issues in Earth Observation Data for Europe: A User Perspective in European Policy and Technical Institutions', *SPRU CICT Report Series No 5*, December 1992, 36pp. £10.00 (Original report for Logica Space & Communications Ltd produced March 1992: S20)
- 93/4* Jenkins M, 'Understanding the Mercury perspective on new entrant strategies and public policy: the UK pricing, access and interconnect debates 1990-1993', Brighton: SPRU, May 1993, 24pp, presented at the PICT National Conference, 19-21 May 1993, Kenilworth.
- 93/5* Jenkins, M, 'Information and telecommunication - infrastructure policies for trade efficiency. Discussion document', Brighton: SPRU, May 1993, 78pp, prepared for the UNCTAD "Workshop on Information Flows to Build Trade Efficiency".
- 93/6 Mansell R, *The New Telecommunications: A Political Economy of Network Evolution*, London: Sage Publications, forthcoming November 1993, 288 pages.
- 93/7 Mansell R, 'Innovation in telecommunication: bridging the supplier-user interface', Brighton: SPRU, revised 1 February 1993, 18pp, forthcoming in M Dodgson and R Rothwell (Eds) *Handbook of Industrial Innovation*, Cheltenham: Edward Elgar Publishing, 1993.
- 93/8 Mansell R, 'From telecommunication infrastructure to the network economy: realigning the control structure', chapter in V Mosco, M Pendakur and J Wasko (Eds) *Illuminating the Blindspots: Essays in Honor of Dallas Smythe*, Norwood NJ: Ablex Publications, 1993, pp181-195. (S12)

- 93/9 Mansell R, 'Tariffs: Who Should Pay for the Telecommunication Network?' *Telecommunications International*, Vol 27 No 2 February 1993, pp19-24.
- 93/10 Mansell R, 'European telecommunication, multinational enterprises and the implications of "globalisation"', Brighton: SPRU, 1993, 28pp, forthcoming in *The International Journal of Political Economy*, 1993.
- 93/11* Mansell R, 'A networked economy: unmasking the "globalisation" thesis', Brighton: SPRU, May 1993, 32pp, presented at the PICT National Conference, 19-21 May 1993, Kenilworth.
- 93/12 Mansell R, 'Trans-European telecommunication: user perspectives on the prospects and problems', *ENCIP Working Paper Series No 4*, March 1993, 27pp. Available from ENCIP, BP 4167-34092 Montpellier, Cedex 5, France.
- 93/13 Mansell R and Paltridge S, 'The Earth observation data market: industrial dynamics and policy', Brighton: SPRU, February 1993, 18pp, forthcoming *Space Policy*, November 1993.
- 93/14 Mansell R, Paltridge S and Hawkins R, 'Satellite Remote Sensing: Industrial Dynamics and Pricing Policy', *SPRU CICT-CIRCIT Research Report No 4*, Melbourne: CIRCIT, April 1993 75pp. Available from CIRCIT, 1st Floor, 4 Riverside Quay, South Melbourne 3205, Victoria, Australia.
- 93/15 Mansell R, Holbrook B and Darmaros T, 'Telematics services for the less favoured regions of the European Communities: a political economy of development', Brighton: SPRU, 20 June 1992, revised 1 February 1993, 40pp, forthcoming in B Mody (Ed) *Planning Communication Technology Development: Alternatives for the Periphery*, Sage Publications, forthcoming 1993. (S48)
- 93/16* Mansell R and Jenkins M, 'Electronic trading networks: implications for the European telecommunication infrastructure', Brighton: SPRU, January 1993, 43pp, report prepared for the Commission of the European Communities RACE II Project R2089, 'Socio-Economic and Technological Impact Assessment and Forecasts. (Interim Report: S41)
- 93/17* Mansell R and Jenkins M, 'Coherence and Diversity of Systems of Innovation. Electronic trading systems: the emergence of new productive systems', Brighton: SPRU, 28 February 1993, 42pp, report prepared for the Commission of the European Communities FAST project on "Coherence and Diversity of Systems of Innovation" and LATAPSES, Sophia Antipolis (S43)
- 93/18 Mansell R and Jenkins M, 'Telecommunication strategies: incremental change in Europe', Brighton: SPRU, 1993, 24pp, chapter prepared for C Antonelli, F Bar, L Caby and G Pogorel (Eds) *Global Telecommunications Strategies and Technological Changes*, Amsterdam: Elsevier, forthcoming 1994.
- 93/19* Mansell R and Jenkins M, 'Electronic Trading Networks: The Route to Competitive Advantage? Case Studies', *SPRU CICT Report Series No 4*, December 1992, 173pp. £25.00 (S6)

- 93/20* Mansell R and Hawkins R, 'Issues in Earth Observation Data Policy for Europe: Economic Analysis', *SPRU CICT Report Series No 6*, December 1992, 36pp. £10.00 (Original report for Logica Space & Communications Ltd produced March 1992: S21)
- 93/21* Mansell R, Paltridge S and Hawkins R, 'Issues in Earth Observation Data Policy for Europe: Industrial Dynamics and Pricing Policies', *SPRU CICT Report Series No 7*, December 1992, 73pp. £10.00 (Original report for Logica Space & Communications Ltd produced March 1992 and revised October 1992: S66)
- 93/22* Tang P and Mansell R, 'Telecommunication, multinational enterprises and globalization: implications for future network development', Brighton: SPRU, 10 February 1993, 58pp + diagrams, report prepared for Rank Xerox Cambridge Europarc.

TELECOMMUNICATION STANDARDS AND THE EVOLUTION OF MOBILITY IN PUBLIC AND PRIVATE NETWORKS

Work on this theme began in October 1991 as part of PICT Phase II research on 'Networks, Industrial Restructuring and Policy: Developments in the 1990s'. The research examines the role of standards for the integration of fixed and mobile services in public and private networks. The research is contributing to an empirically grounded understanding of how the standardisation process works within formal standards setting agencies.

- 93/23* Hawkins R, 'Beyond the Year 2000 - Numbering for UPT', Brighton: SPRU, June 1993, 12pp, a presentation to the IBC Information Technology conference on "Numbering, National and International Issues: Planning for the Year 2000 and Beyond", 24 June 1993, London.
- 93/24 Hawkins R, 'Public standards and private networks: some implications of the "mobility imperative"', *ENCIP Working Paper Series No 3*, March 1993, 41pp. Available from ENCIP, BP 4167-34092 Montpellier, Cedex 5, France.
- 93/25* Hawkins R, 'The user role in the development of technical standards for telecommunication', Brighton: SPRU, April 1993, 39pp, submitted to *Technology Analysis and Strategic Management*.
- 93/26* Hawkins R, 'Technical standards and the institutional framework of information and communication networks. Briefing note for the UNCTAD Special Programme on Trade Efficiency', Brighton: SPRU, 13 April 1993, 8pp.
- 93/27* Hawkins R, 'Changing expectations: voluntary standards and the regulation of European telecommunication', Brighton: SPRU, March 1993, 34pp, submitted to *Communications & Strategies*. (S18)
- 93/28* Hawkins R, 'Regional standards, national priorities, and international markets: some observations from the telecommunication and information technology sectors, Brighton: SPRU, March 1993, 10pp, prepared for the Eunetic Workshop on "Globalization Versus National or Local Systems of Innovation", Strasbourg, 11-12 March 1993.

SOFTWARE: THE INTERFACE BETWEEN TECHNOLOGICAL CHANGE AND SOCIAL SYSTEMS

This research is funded under Phase II of the PICT Programme. It began in April 1991 and will continue until April 1995. It examines the social and institutional factors which mediate the introduction of software engineering in differentiated software development projects and settings. Four long-term case studies which observe the processes of change over a two year period (which may be extended) are in progress.

- 93/29* Quintas P, 'Software and systems development practice: patterns of technological change and interactions with use', Brighton: SPRU, April 1993, 15pp, presented at ITAP93: International Conference on Information Technology and People, Moscow, 24-28 May 1993 and published in the *Proceedings Part II*, pp102-111.
- 93/20 Quintas P, 'Software engineering policy and practice: lessons from the Alvey program', Brighton: SPRU, April 1993, 35pp, forthcoming in *The Journal of Systems and Software*.
- 93/21 Quintas P (Ed), *Social Dimensions of Systems Engineering: People, Processes, Policies and Software Development*, forthcoming Ellis Horwood: Hemel Hempstead, Summer 1993.
- 93/22 Quintas P, 'Living the lifecycle: social processes in software development', Brighton: SPRU, March 1993, 17pp, introduction to P Quintas (Ed) *Social Dimensions of Systems Engineering: People, Processes, Policies and Software Development*, forthcoming Ellis Horwood: Hemel Hempstead, Summer 1993.
- 93/23 Quintas P 'Social dimensions of software engineering: the experience of the UK Alvey Programme', Brighton: SPRU, March 1993, chapter 4 in P Quintas (Ed) *Social Dimensions of Systems Engineering: People, Processes, Policies and Software Development*, forthcoming Ellis Horwood: Hemel Hempstead, Summer 1993.
- 93/24* Quintas P, 'A product - process model of innovation in software development', Brighton: SPRU, January 1993, 38pp, submitted to the *Journal of Information Technology*.

THE HOUSEHOLD AND THE CONSUMPTION OF COMMUNICATION AND INFORMATION TECHNOLOGIES

Phase II of this PICT project continues until October 1994. The research is undertaking a systematic review and analysis of the factors affecting the consumption and use of ICTs in the home. The first year of the project, which ended in September 1992, investigated teleworking households. The second year, now underway, is looking at the consumption and use of ICTs in single parent households. The final phase of the project will examine these issues in households of the elderly.

- 93/25* Haddon L, 'Researching Gender and Home Computers', published in O Vershinskaya (Ed), *Informatization in Social Sphere, Proceedings of the Russian-English Seminar*, Russian Academy of Sciences Institute for Population Studies, 1993, pp60-73.
- 93/26 Haddon L, 'Interactive games', in P Hayward and T Wollen (Eds) *Future Visions: New Technologies on the Screen*, London: British Film Institute Publishing, 1993.
- 93/27 Haddon L, 'Telework and new technologies', *Intelligent Home Newsletter*, Vol 4 No1
- 93/28* Haddon L and Silverstone R, 'Teleworking in the 1990s: a view from the home', a report on the ESRC/PICT study of Teleworking and Information and Communication Technologies, Brighton: SPRU, July 1993, 159pp.
- 93/29* Haddon L and Silverstone R, 'Telework and the changing relationship of home and work', Brighton: SPRU, May 1993, 15pp, presented at the PICT National Conference, 19-21 May 1993, Kenilworth.
- 93/30* Silverstone R and Haddon L, 'The individual and social dynamics of information and communication technologies: present and future', Brighton: SPRU, May 1993, 68pp, a report prepared for the Commission of the European Communities, Socio-Economic and Technical Impact Assessments and Forecasts, RACE Project 2086.
- 93/31 Silverstone R, 'Domesticating the revolution: information and communication technologies and everyday life', Brighton: SPRU, May 1993, 15pp, presented at the PICT National Conference, 19-21 May 1993, Kenilworth.
- 93/32 Silverstone R, *Television, Technology and Everyday Life: An Essay in Media Theory*, Routledge, forthcoming 1994.