

Introduction by Carl Shapiro and Hal R. Varian	12
Foreword – The European Communication Council	14
1. The Internet Economy as a Strategic Challenge	17
1.1 Ten Theses Relating to the Internet Economy	17
1.2 Perspectives	21
2. Fundamental Principles of the Network Economy	25
2.1 A Classification of Revenue Types and Revenue Models	25
2.2 The Concept of Value Chains	31
2.3 New Markets – Old Data: The Problem of Assessing Revenue Potential	33
3. The Media and Communications Sectors: A Review Looking Forward	38
3.1 Kings of Content – An Analysis of the Media Sector	38
3.1.1 Structure and Development of European Media Markets	39
3.1.2 Revenue Types and Revenue Models in the Media Sector	47
3.1.3 Value Chains in the Media Sector	52
3.1.4 Using the Revenue Potential of Profit Windows	60
3.2 Rulers of the Waves – An Analysis of the Telecommunications Sector	63
3.2.1 Size and Structure of European Telecommunications Markets	64
3.2.2 Liberalisation of Telephone Markets in Europe	67
3.2.3 Netheads versus Bellheads: The Fusion of Data and Voice Communication	77
3.2.4 Revenue Types and Revenue Models in the Telecommunications Sector	94
3.2.5 Value Chains in Telecommunications	96
3.3 Digital Data Crunchers – An Analysis of the Information Technology Sector	101
3.3.1 Size and Structure of European IT Markets	102
3.3.2 From Mainframe Computer to Internet-PC	105
3.3.3 Revenue Types and Revenue Models in the IT Sector	125

3.3.4 Value Chains in the IT Sector 126

3.3.5 Information Technology and Productivity – A Paradoxon? 128

3.4 Trailblazer for the Internet Economy – The Convergence of the Media and Communications Sectors 130

4.1 Decisive Factors in the Emergence of the Internet Economy 137

4.1.1 Central Role of Information in Markets 138

4.1.2 Explosive Rise in Information and Communications Technology Capacities 139

4.1.3 Causes of the Internet Revolution 141

4.1.4 Virtual Markets as a Result of Digital Infrastructure 146

4.2 Consequences of Technological Evolution – An Economic Revolution? 153

4.2.1 New Rules of the Game: A New Economic Market Model. 154

4.2.2 Media and Information Goods: The Near Zero Marginal Cost Issue 162

4.2.3 New Revenue Strategies. 164

4.2.4 The Erosion of Traditional Value Chains by Multimedia Value Networks 171

5.1 Strategic Consequences for Media and Communications Companies 177

5.1.1 New Competition Strategies – Creating Business Webs 177

5.1.2 New Product Strategies – From Windowing to Versioning. 184

5.1.3 New Price Strategies – Follow the Free. 188

5.1.4 New Communication Strategies – One-to-One Marketing 191

5.1.5 Strategic Development of Content in the Internet Economy 196

5.1.6 Perspectives for the Internet Economy 202

5.1.7 Hang on a minute... – Critical Comments 210

5.2 An Integrated View of User Behaviour	214
5.2.1 Basic Ideas and Fundamental Principles	214
5.2.2 Towards Media Integration in the Private Household.	229
5.2.3 Financing and Implementing the Integrated Offer	243
5.3 The Internet Economy and Regulation	252
5.3.1 Political Implications of the Internet Economy: Why regulate, after all?	252
5.3.2 Realms of Governance: What remains to be regulated?	255
5.3.3 Structures and Institutions: Who should be responsible?	263
6. Facts & Figures	269
6.1 Basic Population and Economic Data	272
6.2 Distribution Infrastructure and Household Equipment ..	280
6.3 Research and Development, Production and Supply	289
6.4 Spending on Information and Telecommunication Technologies	301
6.5 Advertising Markets	307
6.6 Selected Media Markets	314
References	321