2

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Motives for regulating can be distinguished from technical justifications for regulating. Governments may regulate for a number of motives—for example they may be influenced by the economically powerful and may act in the interests of the regulated industry or they may see a particular regulatory stance as a means to re-election. Different commentators may analyse such motives in different ways and a variety of approaches to such analysis will be discussed in Chapter 3. To begin, though, we should consider the technical justifications for regulating that may be given by a government that is assumed to be acting in pursuit of the public interest.⁴

Many of the rationales for regulating can be described as instances of 'market failure'. Regulation in such cases is argued to be justified because the uncontrolled market place will, for some reason, fail to produce behaviour or results in accordance with the public interest.' In some sectors or circumstances there may also be 'market absence'—there may be no effective market—because, for example, households cannot buy clean air or peace and quiet in their localities.

Monopolies and Natural Monopolies

Monopoly describes the position in which one seller produces for the entire industry or market. Monopoly pricing and output is likely to occur and be sustained where three factors obtain:³

See Gellhorn and Pierce, Regulated Industries, 36–7 and Chapter 15 below. On regulating monopolies generally see C. Foster, Privatisation, Public Ownership and the Regulation of Natural Monopoly (Oxford, 1992), ch. 6; Ogus, Regulation, 30–3; Breyer, Regulation and Its Reform, 15–19; Francis, Politics of Regulation, ch. 3; E. Gellhorn and W. Kovacic, Antitrust Law and Economics (St Paul, Minn., 1994), chs. 3 and 4.

For detailed reviews of public interest reasons for regulating see S. Breyer, Regulation and Its Reform (Cambridge, Mass., 1982), ch. 1; A. Ogus, Regulation: Legal Form and Reconomic Theory (Oxford, 1994), ch. 3; E. Gellhorn and R. J. Pierce, Regulated Industries (St Paul, Minn., 1982), ch. 2; J. Kay and J. Vickers, Regulatory Reform: An Appraisal, in G. Majone (ed.), De-Regulation or Re-Regulation? (Landon, 1989); B. Mitnick, The Political Economy of Regulation (New York, 1980), ch. 5; C. Sunstein, After the Rights Revolution (Cambridge, Mass., 1990), ch. 2; C. Hood, Explaining Economic Policy Reversals (Buckingham, 1995).

a single seller occupies the entire market;

the product sold is unique in the sense that there is no substitute

substantial barriers restrict entry by other firms into the industry sufficiently close for consumers to turn to;

and exit is difficult.

cient. From the public interest perspective, the problem with a firm occupycharges a single price for its product, additional sales will only be achieved ing a monopolistic position is that in maximizing profits it will restrict Where monopoly occurs, the market 'fails' because competition is defiby higher revenue derived from increased price on the units still sold. by lowering the price on the entire output. The monopolist will forgo sales its output and set price above marginal cost. It will do this because if it output, higher prices, and transfer of income from consumers to producers. The effects of monopoly, as compared to perfect competition, are reduced to the extent that lost revenue from fewer sales will be compensated for One response to potential monopolies is to use competition (or anti-

scale available in the production process are so large that the relevant tion. Where a 'natural monopoly' exists, however, the use of competition trust) laws so as to create a business environment conducive to competimarket can be served at the least cost by a single firm. It is accordingly law may be undesirable. A natural monopoly occurs when economies of many. Thus, rather than have three railway or electricity companies laymore efficient to give one firm a monopoly subject to regulation of such ing separate networks of rails or cables where one would do, it may be less costly to society to have production carried out by one firm than by a firm is in a position of natural monopoly then, like any monopoly, it uct with the extent of the economies of scale available in production. If natural monopoly exists requires a comparison of demand for the prodmatters as prices and access to the network. Determining whether a will present problems of reduced output, higher prices, and transfers of competition law is not, however, an appropriate response since compewealth from consumers to the firm. Restoration of competition by use of level that competitive conditions would have induced. order to encourage the natural monopolist to expand its output to the price near incremental cost (the cost of producing an additional unit) in output as well as access may be called for. The regulator will try to set tition may be socially costly and thus regulation of prices, quality, and

only one part of a given process-for instance the transmission of, say, As Ogus points out, the economies of scale phenomenon may affect Not all aspects of a supply process may be naturally monopolistic

competitive forces.7 and regulators (at least those committed to minimalist regulation) is to electricity, rather than its generation.6 The task of many governments these can be regulated while other aspects are left to the influence of identify those parts of a process that are naturally monopolistic so that

Windfall Profits

a rich seam of an easily extracted mineral; by coming upon a material from the windfall. transfer profits to taxpayers or to allow consumers or the public to benefit been flooded. Regulation may be called for when it is desired either to denly escalates in value—for example a boat in a desert town that has efficiency in a production process; or by possessing an asset that sudthan that available in the market place." It may do so by, say, locating or excess profit) where it finds a source of supply significantly cheaper A firm will earn a windfall profit (sometimes called an 'economic rent'

individuals to store boats in order to cope with periodic floods. retained. Even in the desert town it may be desirable to encourage some demand, there is a case for allowing windfall or 'excess' profits to be to create incentives to search for new efficiencies, products, or areas of Where such investments have taken place or where society might want accident rather than planned investments of money, effort, or research. The rationale for regulating is strongest where the windfall is due to

co Externalities

clean-up costs are left out of account. The resultant process is wasteful arising from the manufacturing process into a river. The price of the tyres of car tyres might keep costs to consumers down by dumping pollutants and excessive consumption accordingly results.9 Thus, a manufacturer a product does not reflect the true cost to society of producing that good The reason for regulating externalities (or 'spillovers') is that the price of many tyres are made and sold) and too few resources are devoted by the will not represent the true costs that production imposes on society if because too many resources are attracted into polluting activities (too

poly (Oxford, 1988), ch. 2, Foster, Privatisation, ch. 6.2.
S Ogus, Regulation, 31. On natural monopolies see M. Waterson, Regulation of the Firm and Natural Mono-

G. Yarrow, 'Regulation and Competition in the Electricity Supply Industry', in J. Kay, C. Mayer, and D. Thompson, Privatiantion and Regulation (Oxford, 1986).
T See Chapter 16 below, and the White Paper, Privatising Electricity, Cm. 322 (London,

See Breyer, Regulation and Its Reform, 21. On the 'windfall tax' see below, pp. 233–5.
See Breyer, Regulation and Its Reform, 23–6; Ogus, Regulation, 35–8.

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methods. The rationale for regulation is to eliminate this waste—and to manufacturer to pollution avoidance or adopting pollution-free production the internalization of spillover costs-on 'polluter pays' principles protect society or third parties suffering from externalities—by compelling

4. Information Inadequacies

ciently well informed to evaluate competing products.10 The market may, ive to produce information may accordingly be low. There may also be producer of information, however, may not be compensated by others who ing the effects of a product, such as a drug, may prove expensive). The of reasons: information may cost money to produce (e.g. because researchhowever, fail to produce adequate information and may fail for a number Competitive markets can only function properly if consumers are suffiincentives to falsify information-where, for example, consumers of the use that information (e.g. other manufacturers of the drug). The incentconsumer lacks the expertise required to render technical data useful. not be of sufficient assistance to the consumer—for instance because the give rise to this problem. The information produced may, in addition, in which consumers purchase a type of product very infrequently may ies for damages suffered or where they face high costs in doing so. Areas product are ill-positioned to challenge the falsification and seek remederal hazards or deficiencies associated with a product. Breyer notes that reduce the flow of information below the levels consumers might want Finally, collusion in the market place, or insufficient competition, may unavailable to most buyers in that country concerning the durability of until the US Government required disclosure, accurate information was Producers, as a group, may thus fail to warn consumers about the genrequirements for textiles.11 light bulbs, nicotine content of cigarettes, fuel economy for cars, or care

competitive markets. and the consequences thereof and may encourage the operation of healthy and affordable, may protect consumers against information inadequacies Regulation, by making information more extensively accessible, accurate,

Continuity and Availability of Service

In some circumstances the market may not provide the socially desired levels of continuity and availability of service. Thus, where demand is

cross-subsidizations effected may be criticizable as inefficient and unfair or more geographically disperse groupings of customers. Regulation may be justified in order to produce socially desirable results even though the most profitable customers—and services may be withdrawn from poorer skimming'-the process in which the producer chooses to supply only the dard. In the unregulated market, however, competition may lead to 'creamthese should be generally available at least to a certain minimum stanwater services-it may be considered, as a matter of social policy, that of social policy. In the case of some products or services-for example however, raise issues of equity to be considered alongside questions the business cycle. The subsidizing of off-peak by peak travellers will, caused by the processes of closing and opening services in response to the extra costs imposed on consumers by pricing rules are less than those covering of fixed costs through lean periods. This would be justified where troughs-for example by setting minimum prices at levels allowing the ing operations.13 Regulation may be used to sustain services through cyclical (for example, as with passenger air transport to a holiday island waste may occur as firms go through the processes of closing and reopen-

Anti-competitive Behaviour and Predatory Pricing

of anti-competitive behaviour. aim for regulators is to sustain competition and protect consumers from ingly, allow it this period of comfort before new competition arises. The must be able to maintain prices well above costs for long enough to recover to outlast its competitors once prices are cut below variable costs and it a rational firm to engage in predatory pricing are: that it must be able of domination, and then using its position to recover the costs of predathe ill-effects of market domination by outlawing predatory or other forms its prior losses. The costs of entry to and exit from the market must, accordtion and increase profits at the expense of consumers. Preconditions for in the hope of driving competitors from the market, achieving a degree not conducive to healthy competition. A principal manifestation of such they may produce undesirable effects because firms behave in a manner Markets may be deficient not merely because competition is lackingbehaviour is predatory pricing. This occurs when a firm prices below costs,

Public Goods and Moral Hazard

benefits and be generally desired. It may, however, be very costly for those Some commodities, e.g. security and defence services, may bring shared

Regulation and Its Reform, 26-8; Ogus, Regulation, 38-41.

11 Breyer, Regulation and Its Reform, 28. 10 See F. Hayek, 'The Use of Knowledge in Society', (1945) 35 Am. Econ. Rev. 519; Breyer

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paying for such services to prevent non-payers ('free-riders') from enjoying the benefits of those services. As a result, the market may fail to encourage the production of such commodities and regulation may be required—often to overcome the free-rider problem by imposing taxes.

Similarly, where there is an instance of moral hazard—where someone other than the consumer pays for a service¹⁸—there may be excessive consumption without regard to the resource costs being imposed on society. If, for example, medical costs are not met by the patient, but by the state or an insurer, regulatory constraints may be required if excessive consumption of medical services is to be avoided.

8. Unequal Bargaining Power

One precondition for the efficient or fair allocation of resources in a market is equal bargaining power. If bargaining power is unequal, regulation may be justified in order to protect certain interests. Thus, if unemployment is prevalent it cannot be assumed that workers will be able to negotiate effectively to protect their interests (even leaving aside informational issues) and regulation may be required to safeguard such matters as the health and safety of those workers.

9. Scarcity and Rationing

Regulatory rather than market mechanisms may be justified in order to allocate certain commodities when these are in short supply. In a petrol shortage, for example, public interest objectives may take precedence over efficiency so that, instead of using pricing as an allocative instrument, the petrol is allocated with reference to democratically generated lists of priorities.

Distributional Justice and Social Policy

Allocative efficiency attempts to maximize welfare but is not concerned with the distribution of that welfare amongst individuals or groups within society. Regulation may be used to redistribute wealth or to transfer resources to victims of misfortune (e.g. injured parties).14

Distrust of individuals' rationality or wisdom may also underpin another rationale for regulation—paternalism. As a matter of policy

4 See Ogus, Regulation, 46-51.

society may decide to overrule individuals' preferences on some issues and regulate—for example by demanding that seat belts be worn in motor vehicles. In the strongest form of such paternalism, the decision is taken to regulate even where it is assumed that the citizens involved are possessed of full information concerning products. ¹⁵ On a series of other issues, governments may regulate simply in order to further social policies such as the prevention of discrimination based on race, sex, or age.

11. Rationalization and Coordination

In many situations it is extremely expensive for individuals to negotiate private contracts so as to organize behaviour or industries in an efficient manner—the transaction costs would be excessive. If The firms in an industry may be too small and geographically dispersed to bring themselves together to produce efficiently. (This might happen when small fishing concerns in a sparsely populated area fail to make collective marketing arrangements.) Enterprises may, moreover, have developed different and incompatible modes of production. In these circumstances regulation may be justified as a means of rationalizing production processes (perhaps standardizing equipment in order to create effective networks) and in order to coordinate the market. Centralized regulation holds the advantage over individual private law arrangements where information can be more efficiently communicated through public channels and economies of scale can be achieved by having one public agency responsible for upholding standards."

It is noteworthy that this rationale for regulation is based more on the desire to enable effective action to take place than on the need to prohibit undesirable behaviour.

12. Planning

Markets may ensure reasonably well that individuals' consumer preferences are met but they are less able to meet the demands of future generations or to satisfy altruistic concerns (e.g. the quality of an environment not personally enjoyed).¹⁸ There is also, as far as altruism is

15 Ibid, 51-4,

* See Ogus, Regulation, 41-2; S. Breyer and P. MacAvoy, The Federal Power Commission and the Coordination Problem in the Electrical Power Industry' (1973) 46 S. Cal. LR 661.

¹⁷ In the transportation sector coordination and regulation by a central agency may be needed in order to organize a route network—see S. Glaister, Deregulation and Privativation: British Experience (World Bank, Washington DC, 1998).
¹⁶ See Ogus, Regulation, 54; R. B. Stewart, Regulation in a Liberal State: The Role of Non-Commodity Values' (1983) 92 Yale LJ 1537; Sunstein, After the Rights Revolution, 57–61.

See generally G. Calabresi, The Cost of Accidents: A Legal and Economic Analysis (New 1970)

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concerned, a potential free-rider problem. Many people may be prepared to give up some of their assets for altruistic purposes only if they can be assured that a large number of others will do the same. The problems and costs of coordination mean that regulation may be required in order to satisfy such desires.¹⁸

Conclusions: Choosing to Regulate

There are, as seen above, a number of well-recognized reasons commonly given for regulating. It should be stressed, however, that in any one sector or industry the case for regulating may well be based not on a single but on a combination of rationales. As Breyer points out, to health and safety regulation, for example, can be justified with reference to a number of rationales—for example externalities, information defects, unequal bargaining, and paternalism.

A second point, to be borne in mind in considering whether to regulate, is that the market and all its failings should be compared with regulation and all its failings. Any analysis of the need to regulate will be skewed if it is assumed that regulatory techniques will operate perfectly. We will see during this book that all regulatory strategies have strengths and weaknesses in relation to their implementation as well as their design. Regulatory and market solutions to problems should be considered in all their varieties and with all likely deficiencies and side-effects if true comparisons are to be effected.

18 Ogus, Regulation, 54.

Breyer, Regulation and Its Reform, 34.

Table 1. Rationales for regulating

Monopolies and natural monpolies	Counter ten dency to raise prices and lower output. Harness benefits of scale economies.	Utilities.
	Identify areas genuinely monopolistic.	
Windfall profits	Transfer benefits of windfalls from firms to consumers or taxpayers.	Firm discovers unusually cheap source of supply.
Externalities	Compel producer or consumer to bear full costs of production rather than pass on to third parties or society.	Pollution of river by factory.
Information inadequacies	Inform consumers to allow market to operate.	Pharmaceuticals. Food and drinks labelling.
Continuity and availability of service	Ensure socially desired (or protect minimal) level of 'essential' service.	Transport service to remote region.
Anti-competitive and behaviour predatory pricing	Prevent anti-competitive behaviour.	Below-cost pricing in transport.
Public goods and moral hazard	Share costs where benefits of activity are shared but free-rider problems exist.	Defence and security services. Health Services.
Unequal bargaining power	Protect vulnerable interests where market fails to do so.	Health and Safety at Work.
Searcity and rationing	Public interest allocation of scarce commodities.	Petrol shortage.
Distribution justice and social policy	Distribute according to public interest.	Victim protection.
	Prevent undesirable behaviour or results.	Discrimination.
Rationalization and Coordination	Secure efficient production where transaction costs prevent market from obtaining network gains or efficiencies of scale.	Disparate production in agriculture and fisheries.
Planning	Protect interests of future generations.	Environment,

In explaining how regulation arises, develops, and declines, a number of broad approaches can be adopted. These approaches may set out merely to describe and account for regulatory developments; they may be prescriptive and offer a view on how regulation should be organized; or they may serve a combination of these functions. Similarly, accounts of regulation may constitute commentaries on regulatory developments that are delivered with detachment from the sidelines or, together with their proponents, they may participate on the field of play and, intentionally or otherwise, may contribute themselves to regulatory changes.

The part that ideas can play in influencing regulatory developments is itself an issue for debate. Thus, Christopher Hood sees the 'force of ideas' approach as one of four main ways of explaining policy (or regulatory) developments. The essences of the four types of explanation can be set out thus:²

 Where stress is placed on the force of new ideas that upset the status quo in some way—perhaps through demonstrations of experimental evidence, logical force, or rhetorical power.

Where emphasis rests on the pressures of interests that act in pur suit of developments that suit their own purposes.

Where changes are seen to flow from changes in habitat that make old policies obsolete in the face of new conditions—thus economic changes or technological advances may be seen to be driving policy revisions.

. Where policies are said to destroy themselves because of internal problems—as where bureaucratic failings or integral deficiencies of strategy defeat the initial policy and produce changes.

¹ For a detailed review of the myriad varieties of regulatory theory see B. Mitnick, The Political Economy of Regulation (New York, 1980), ch. 3 and for a briefer account, R. Horwitz, The Irony of Regulatory Reform: The Deregulation of the American Telecommunications Industry (Oxford, 1989).

See C. C. Hood, Explaining Economic Policy Reversals (Buckingham, 1994), ch. 1 (Hood's analysis refers to 'policy reversals' but is applied here to policy developments generally).

It can be seen that the first three approaches focus on 'external' influences on regimes, the fourth looks to internally generated factors. Of course, accounts of changes in regulation may not fall always neatly into the above categories since, as Hood acknowledges," overlaps and combinations are inevitable (as where, for instance, powerful interests are seen to produce changes by pressing certain ideas against a background of technological advances). In looking at explanations of regulation, however, the above categorization does assist in teasing apart the elements within different approaches and in clarifying the roles played by those approaches in regulatory developments. We may, for instance, consider not only the relative emphases that particular explanations or schools of thought place on the role of ideas, interests, habitats, or internal factors but also the political and practical influence of those explanations or schools and the nature and origins of the forces that drive such explanations.

Most theories of regulatory origin and development can be seen as types of interest theory, though the force that can be exerted by ideas and arguments is recognized in a number of accounts. Among interest theories a broad distinction can be drawn between 'public', 'group', and 'private' versions.

1. Public Interest Theories

Public interest theories centre on the idea that those seeking to institute or develop regulation do so in pursuit of public interest related objectives (rather than group, sector, or individual self-interests). Proponents of regulation thus act as agents for the public interest. Regulation's purpose is to achieve certain publicly desired results in circumstances where, for instance, the market would fail to yield these. (The grounds given for such action are likely to involve reference to one or more of the reasons for regulating outlined in Chapter 2.)*

Consistent with such a vision is an emphasis on the trustworthiness and disinterestedness of expert regulators in whose public-spiritedness

1 Ibid. 36

* See e.g. J. M. Landis, The Administrative Process (New Haven, 1938); R. E. Cushman, The Independent Regulatory Commissions (New York, 1941). For a British public interest account see I. McLean and C. Foster, The Political Economy of Regulation: Interests, Ideology, Voters and the UK Regulation of Ruilways Act 1844' (1992) 70 Pub. Admin. 313 at 329: 'Our test of seven hypotheses about the origins of regulation has shown that the best-supported is that both Gladstone and the MPs who voted on his bill were moved by their perceptions of the public interest.'

⁵ Public interest visions of regulation may complement 'functionalist' accounts of regulatory origins and developments in so far as functionalism sees regulation as largely driven by the nature of the task at hand (as identified in terms of public needs and interests) rather than by private, individual, or self-interests.

ment rather than abandonment of this vision." proach is still defended by some commentators who argue for the developand efficiency the public can have confidence.6 The public interest ap-

contend, regulation generally takes place amidst a clashing of images of ception of the public interest may be hard to identify. Instead, many might account such clashes.* beset the public interest view. A first difficulty is that an agreed conthe public interest. Public interest theories are said to fail to take into A number of problems, theoretical, practical, and political, however

expertise, and efficiency that the public interest approach attributes to often become (or, in some versions, begin life) subject to the influence of regulation. Thus, it is argued that regulatory polices and institutions understates the degree to which economic and political power influences to.11 Finally, capture theorists may suggest that public interest theory because training needs and disciplinary emphases are poorly attended rewards and career structures may lack the requisite attractiveness or not be sufficiently high to yield public interest ends-perhaps because be cast on the competence of regulators, which, it may be alleged, may regulation is biased by the pursuit of personal interests. 10 Doubts may also venality and be corrupted by opportunities for personal profit so that regulators." Thus, it has been argued that regulators may succumb to so that regulation serves the interests of these parties or sectors rather powerful regulated parties, or even politicians or sectors of consumers, than those of the wider public.13 A further problem stems from doubts concerning the disinterestedness

objectives, the public interest vision may only be persuasive in relation regulatory regimes are sometimes established in pursuit of public interest to the earliest stages of the life-cycle of regulatory affairs.13 Even for those capture theorists who are prepared to concede that

on the basis that regulation often seems to fail to deliver public interest With regard to results,14 the public interest perspective is prone to attack

See Landis, Administrative Process.

or a trade-off concept; or as national, social, or particularistic goals see Mitnick, Political 8. On the public interest as a balancing of different interests; as a compromising approach See C. Sunstein, After the Rights Revolution (Cambridge, Mass., 1990).
See J. G. Francis, The Politics of Regulation: A Comparative Perspective (Oxford, 1993).

Economy of Regulation, 92-3.

Railroads and Regulation (Princeton, 1965); Mitnick, Political Economy of Regulation, 111-20 * See G. Stigler, "The Theory of Economic Regulation" (1971) 2 Bell J. of Econ. 3; G. Kolko

Mitnick, Political Economy of Regulation, 94.

See Landis, Administrative Process, 66.

13 See M. H. Bernstein, Regulatory Business by Independent Commission (New York, 1955) See E. S. Redford, Administration of National Economic Control (Landon, 1952), 251-2

¹⁴ On which the most telling comment is perhaps that of newly appointed football manager John Bond, who said: T promise results, not promises. Quoted, B. Fantoni, Private (life-cycle theory is discussed below at p. 25). Eye's Colemanballs (London, 1982).

> ure and that policies of deregulation should be looked to designed.15 The message for others is that regulation is doomed to failmust be learned from failures so that better regulatory regimes can be outcomes. Some observers see this as an indication that appropriate lessons

Interest Group Theories

group interest approaches. in pursuit of the public interest.17 Such visions bridge public interest and compromises but are seen by participants, nevertheless, to be endeavours consumers, businesses, and other affected parties-missions that effect out missions that legislators have negotiated between interest groups, spiritedness but as a competition for power. Some accounts ('Group Public interest. Thus, Bernstein points to the role of regulators in carrying est that take on board competitions between different versions of that Interest Approaches')16 do, however, offer explanations of the public interaccounts in not seeing regulatory behaviour as imbued with publicstate. Such theorists generally differ from proponents of public interest relationships between different groups and between such groups and the Interest group theorists see regulatory developments as the products of

variation on interest group theory is that offered by Leigh Hancher and there is an interplaying of interests concerning regulation.20 regulatory regimes that exclude non-participating interests.19 A recent successful groups are taken into partnership with the state and produce and elections as won by coalitions of groups who use their power to shape Michael Moran, who employ the concept of 'regulatory space' within which regulatory regimes. In contrast, corporatists emphasize the extent to which to corporatism.15 Pluralists see competing groups as struggling for power Versions of interest group theories range from open-ended pluralism

Private Interest Theories

A third broad approach to regulation stresses the extent to which regulatory developments are driven by the pursuit not of public or group but

See C. R. Sunstein, 'Paradoxes of the Regulatory State' (1990) 57 Unit. of Chicago LR 407

See Mitnick, Political Economy of Regulation, 100.

Seo M. H. Bernstein, Regulating Business by Independent Commission (New York, 1955).

^{**} Francis, Politics of Regulation; G. Wilson, Interest Groups (Oxford, 1990); for a pluralist analysis of government see P. Self, Political Theories of Modern Government (London, 1990).

See O. Newman, The Challenge of Corporatism (London, 1980).
 L. Hancher and M. Moran (eds.), Capitalism, Culture and Regulation (Oxford, 1989).

interest', 'public choice', 'special interest', and 'capture'. going under a number of names, notably 'economic', 'Chicago', 'private of private interests. This general approach thus encompasses theories

approaches. Thus, Kolko argued that US regulation originated in selfregulation was established to serve private business interests in the first There was no diversion or capture from a public interest mission because mental action in order to maximize their profits and stabilize markets.²¹ interested pressure exerted by business groups who sought such govern-Some economic theories hover between group and private interest

group (say, users of legal services). The commodity of regulation would interests (say, solicitors) would usually win at the expense of a diffused so as to benefit from a 'regulatory rent' and there would be a market or the existence of monopoly, there would be monopoly profit which the Sam Peltzman²² suggested that where there was a failure of competition, as well informed as possible and learn from experience; and it also assumed of consumers. This economic approach assumed that all parties involved ter served by regulation than the (more diffused, less organized) masses go to those who valued it most and producers would thus tend to be betlator and, more generally, that in political contests, compact, organized industry since industry would have more to lose or gain than the regufor regulation. This meant that the regulator would be captured by the lated industry thus would have an incentive to influence the regulator legislature would give the regulator the power to dispose of. The reguthat regulation is costless (hence overall efficiency will not be affected votes to maximize their cash incomes); it assumed that all parties are in regulation are income maximizers (politicians, for instance, seeking by levels of regulation).23 The 'Chicago' theory as seen in the writings of George Stigler and

own welfare.24 Organizations and bureaucracies thus fall to be analysed understood by viewing all actors as rational individual maximizers of their with reference to the competing preferences of the individuals involved theories that stress the extent to which governmental behaviour can be The economic approach, as outlined, is thus consistent with public choice

of Government Regulation' (1992) 15 J. Law and Econ. 151. G. Becker, 'A Theory of Competition among Pressure Groups for Political Influence' (1983) 98 Quarterly J. of Econ. 335. W. A. Jordan, 'Producer Protection, Prior Market Structure and the Effects (1969) 21 Stanford LR. 548; id., 'Theories of Economic Regulation' (1974) 5 Bell. J. of ²¹ G. Kolko, The Triumph of Conservatism (New York, 1977).
²² Stigler loc. cit. n. 9 above; S. Peltzman, Towards a More General Theory of Regulation' (1976) 19 J. Law and Econ. 211. See also R. Posner, 'Natural Monopoly and Regulation'

E Cf. Peltzman loc. cit. n. 22 above.

utility positions.26 cial regulatory goals and substitute ends that are self-serving and to act latory regimes. Policies are put into effect so as to enhance wealth or to a small role in the establishment, operation, and development of reguthe accumulation of personal wealth. The public interest is thus relegated in pursuit of such ends as job retention, aggrandizement, re-election, or Emphasis is placed on the propensity of such actors to circumvent offi-

and regulatory bureaucracies may have lives beyond the sums of their in a manner that interferes with the realization of private preferences consumers of services, career strategists, or professional designers of sonality limits, prejudices, and moral stances.27 tant motives as ideologies, policy goals, emotional identifications, per parts. Public choice theories, moreover, ignore or underrate such imporexpertise, or commitment. Interest groups' activities may affect regulation vented from acting in rational, self-serving ways by lack of information, regulatory policies. Regulators or bureaucrats may, moreover, be premay behave in different ways according to the roles they adopt as, say, have altruistically in certain important respects. They may, for instance, preferences on political or regulatory issues and individuals may be identify with legislative, group, agency, or bureaucratic objectives and 'markets' for regulation proves difficult. Parties may lack determinate Thus, explaining the nature and origins of preferences in the posited Such approaches have been open to question on a number of fronts.26

developments? the 1970s if concentrated business interests were in control of regulatory velopments thus seem difficult to account for in terms of the economic interest theories as it does for public interest accounts. Deregulatory detheory. Why, for instance, was there a strong deregulation movement in Experience, furthermore, seems to pose as many problems for private

3

mid-1980s.36 He argues that regulation tends to produce incentives for developments, particularly in the period between the mid-1970s and rethink the economic approach and assess its power to explain regulatory have not given up without a fight. Sam Peltzman himself has sought to be returned to in the next section. Private interest theorists, however, firms to dissipate their wealth (e.g. when faced with controlled prices at interests, played a crucial role in moves to deregulate—a contention to On this point, one explanation might be that ideas, rather than pure

21 Self, Government by the Market!, 46

In governmental decisions, in stark contrast to public interest accounts; see A. Ogus. Regulation: Legal Form and Economic Theory (Oxford, 1994), 58-71. 24 Public choice theories thus emphasize the force of private interests and preferences

See A. Downs, An Economic Theory of Democracy (New York, 1957).
See Hood, Explaining Economic Policy Reversals, 24 and, generally, P. Dunisavy, Democracy, Bureaucracy and Public Choice (London, 1991), P. Self, Government by the Market?

Brookings Papers in Macroeconomics 1. 26 S. Peltzman, 'The Economic Theory of Regulation after a Decade of Regulation' (1989)

can tell a coherent story about most of the examples of deregulation (the tinued regulation. Peltzman concludes that although the Chicago theory prior to regulation becomes more attractive to regulated parties than conby regulation itself. A point can thus arrive when a return to the position a time when costs increase) and that regulatory rents can be eradicated instance about 'the design of institutions and their adaptability'.29 it does, nevertheless, leave some important questions unanswered—for latter being explicable in terms of the disruption of regulatory rents)

centrated, opponents of regulation might be expected to be better organopponents and proponents of regulation find it difficult to organize ing regulation and, in the case of generally diffused interests, both the instance, opponents of regulation might organize as easily as those seekof public regulation are either concentrated or diffused. In the former be expected to be far less pronounced when both the benefits and costs stake population. Lobbying for favourable regulation might, however, influence regulation that are unmatched by those of the diffused, low-In this scenario, the concentrated, high-stake group has incentives to transfers at the expense of a diffused group with low per capita stakes.30 group with high stakes is able to secure regulation and favourable wealth to be set up to serve the interests of the regulated where a concentrated has built on the Stiglerian vision to argue that regulation is most likely most likely to press for, and obtain, favourable regulation. Thus, Wilson able from monopolistic or protected positions in the market would be more detail the circumstances in which those seeking the profits extractized and more forceful than those pressing for regulation.31 Finally, where the benefits of regulation are diffused and costs are con-Others have sought to refine the economic approach by considering in

commentators, as an antidote to the idea of parties as rational wealth and of any account of the role played by institutional arrangements in the vote maximizers. Such institutional positions will be returned to shortly. shaping of regulation. Examining this role is essential, say a number of to grips with one of the core problems mentioned by Peltzman-the lack Such refinements of the economic approach fail, nevertheless, to come

disciplines. Motives can be seen in less simple terms than mere wealth explained quite differently from the perspectives encountered in other diversion of regulation away from public interest objectives may be maximization—to include, for instance, ideological, bureaucratic, or social The economic approach offers one view of regulatory capture but the

S. Peltzman, 'The Economic Theory of Regulation after a Decade of Regulation' (1989)

The Logic of Collective Action (Cambridge, Mass., 1965) and Hood, Explaining Economic Brookings Papers Macroeconomics in 40.
Brookings Papers Macroeconomics in 40.
New York, 1980), 357–94. See also M. Olson, Policy Reversals, 24-6.

31 See Hood, Explaining Economic Policy Reversals, 25-6.

and scope of competencies of the agency.34 so as to create job satisfaction⁸³ or to maximize the political influence to seek to maximize agency budgets,32 or to engage in 'bureau-shaping' objectives. Stress, thus, can be placed on the propensity of bureaucrats

sought, 36 votes, ideologies, and other preferences) that are all alleged to be being it is difficult to attribute relative weights to the various factors (money, in broader terms is, however, that a loss of predictive power results and of moving beyond wealth maximization and seeing utility maximization of expected votes or ideological ends as well as cash and which gives of political economy which sees legislators and regulators as pursuers greater prominence to the interplay of pressure groups. 25 The problem maximize their personal wealth—and the position of the 'Virginian' school school of law and economics-that legislators and regulators seek to Contrasts have been drawn between the assumptions of the Chicago

old age, the fourth stage, arrives to be charactized by debility and decline ity to industrial rather than public interests. resort to ever more judicialized procedures, and the agency giving priorof industry. As vitality declines, the agency relies more and more upon objectives dies away, maturity follows and devitalization sets in. Regulaenced regulatory body is outmanœuvred by the regulatees but operates of a regulatory body. Second there follows youth in which the inexperiregulatory declines.*7 Writing in 1955, Bernstein described an ageing precedent when taking decisions and adopts a reactive stance. Finally, tion becomes more expert and settled but as the agency moves out of the with a crusading zeal. As the first flush of political support for agency tion typically begins, on this view, as a policy response to a political call to process in which public interest regulation gave way to capture, Regulareference to a variety of forces (internal and external) in accounting for political mainstream it begins to pay increasing attention to the needs life—termed gestation—concerns about a problem result in the creation protect the public from undesirable activity. In the first of four stages of on economic interests. Marver H. Bernstein's 'life-cycle' theory makes Perhaps the best-known capture theory of all does not focus principally

See W. A. Niskanen, Bureaucracy and Representative Government (Chicago, 1971).
See Dunleavy, Democracy, Bureaucracy and Public Choice, 174–209.

of Regulatory Policymaking in Europe and the United States' (1991) 11 J. Publ. Pol. 76. 14 See G. Majone, Regulating Europe (London, 1996), 65; id., 'Cross-National Sources

poly (Oxford, 1992), 386-8; M. A. Crew (ed.), Deregulation and Diversification of Utilities (Dordrecht, ** See C. D. Poster, Privatisation, Public Ownership and the Regulation of Natural Mono-1989), 5-20.

н Foster, Privatisation, 387.

^{**} Bernstein, Regulating Business. For criticism of the life-cycle theory see e.g. L. L. Jaffe, The Independent Agency—A New Scapegont' (1956) 65 Yale LJ 1068; see also P. Quirk, Industry Influence in Federal Regulatory Agencies (Princeton, 1981).

Force of Ideas Explanations

regulation did not stem so much from the pressing of private interests The deregulatory programmes of the Reagan and Thatcher adminisought to control business'.)10 Ideas might be distorted by political conto intellectual conceptions 'which express how and why the government as from the force of ideas.38 (In such contexts 'ideas' are taken to refer trations prompted some commentators to argue that certain changes in of assumed social realities whereby political leaders explain and justify siderations when being applied but: 'they provide the essential basis "realistic" options within narrow limits', 40 their policies to the public, backed by a media which keeps the range of

ate, benefited from the deregulation.) This argument might itself have ducer interests. 41 (Residential consumers, the evidence was said to indicto benefit dispersed consumer groups at the expense of concentrated proan intellectually guided process of economic rationalism that managed in the Reagan era, was driven not by interest group pressures but by of their own, the force of ideas approach does usefully qualify economists' of deregulation,42 but in so far as it is conceded that ideas possess a force arated conceptually from interests, or in accounting for the patchiness difficulty in explaining why certain ideas take root, how ideas can be sepprogressions.43 emphasis on the market as the key factor in understanding regulatory It has been contended that deregulation, as seen in the United States

of public choice ideology see Self, Government by the Market?, ch. 3, esp pp. 65-7. On ideas and policy processes generally see P. A. Hall, Policy Paradigms, Social Learning and the Political Change (Ithaca, NY, 1993). J. Goldstein and R. Keshane (eds.), Ideas and Foreign Policy: Benefits, Institutions and State: The Case of Economic Policy-making in Britain' (1993) 25 Comparative Politics 275 The Politics of Regulatory Change (2nd edn., New York, 1996), esp. ch. 1; on the influence Hood, Explaining Economic Policy Reversals, 29; see R. A. Harris and S. M. Milkis

Harris and Milkis, Politics of Regulatory Change, 26.
• Self, Government by the Market?, p. xii; see also P. G. Hall (ed.), The Political Power

of Economic Ideas (Princeton, 1989).

intellectual and political elites in establishing a new regulatory regime' (p. 25); on the role of ideas in European integration and regulation see H. Wallace and W. Wallace (eds.), Policy of the Reagan revolution' (p. 18). Harris and Milkis refer to 'the leadership role played by tory of the underlying ideas and institutions if we are to understand deregulatory outcomes Harris and Milkis, Politics of Regulatory Change, who argue: 'we must appreciate the his Making in the European Union (3rd edn., Oxford, 1996), 22-4. " See M. Derthick and P. Quirk, The Politics of Deregulation (Washington, 1985) and

Movement' (1984) Public Choice 103; L. W. Weiss and M. W. Klass (eds.), Regulatory Reform. 50 Journal of Politics 31; also T. E. Keeler, Theories of Regulation and the Deregulation Ideas' (1995) 47 World Politics 283; P. Quirk, 'In Defence of the Politics of Ideas' (1988) 41 See Hood, Explaining Economic Policy Reversals, 29, J. K. Jacobsen, 'Much Ado about

What Actually Happened (Boston, 1986)

uersois, 29-33; Keeler, loc. cit. n. 42 above; Peltzman loc. cit. n. 28 above; Weiss and Klass. Regulatory Reform ** For counter-explanations of deregulation see Hood, Explaining Economic Policy

Institutional Theories

strongly within institutionalism than in, say, interest theories. of the public interest or competitive bargaining between different private frameworks.45 Regulation is thus seen as shaped not so much by notions ences that are influenced by institutional procedures, principles, exrather than as pure rational choice maximizers, and as having preferof individuals' preferences. "Individual actors are seen by institutionalments, as well as social processes, significantly shape regulation—that Forces acting within regulatory bodies are thus emphasized more pectations, and norms that are encountered in cultural and historical ists as influenced by rules as well as organizational and social settings theorists centre on the notion that institutional structure and arrangetional actor model encountered in the economic approach. Institutionalist A further group of commentators has been highly sceptical of the rainterests but by institutional arrangements and rules (legal and other). there is more driving regulatory developments than mere aggregations

officials encounter when they have to place the implementation of pubbeen paid to principal-agent problems and the difficulties that elected on the individual.48 Thus, within the socio-legal literature attention has roots but share a common scepticism about atomistic accounts focusing lic programmes in the hands of unaccountable officials and agencies.47 A 'New institutionalist' approaches come from a variety of disciplinary

'rational choice' assumptions familiar in economics literature see M. J. Horn, The Political "But for a 'transactions cost' approach to institutional choices, which does make

Sconomy of Public Administration (Cambridge, 1995).

as Instruments of Political Control' (1987) 3 J. Law Econ. Org. 243; 'Structure Process Politics Sci. 588. For criticism see J. L. Mashaw, 'Explaining Administrative Process: Normative B. R. Weingart, 'A Theory of Political Control and Agency Discretion' (1989) 83 Am. J. Pol. Virginia LR 431 (McNollGast I and II respectively); R. L. Calver, M. D. McCubbins, and Institutionalism' see Powell and Di Maggio, p. 11 and March and Olsen loc. cit. n. 44 above.) Levy and Spiller, Regulations, Institutions and Commitment. For a European view see M. Bergman and J. Lane, Public Policy in a Principal-Agent Framework (1990) 2 J. of Theoretical and Policy: Administrative Arrangements and the Political Control of Agencies' (1989) 75 Political Institutions: The Neglected Side of the Story' (1990) 6 J. Law Econ. Org. 213 Positive and Critical Stories of Legal Development (1990) 6 J. Law Boon. Org. 267; T. Moe. 4 See M. D. McCubbins, R. G. Noll, and B. R. Weingast, 'Administrative Procedures " See W. Powell and P. Di Maggio, New Institutionalism, esp. ch. 1. (On the birth of New

lysis: Institutional Approaches to Regulatory Decision-Making (1997) 19 Law and Policy 53 R. L. Jepperson, 'Institutions, Institutional Effects, and Institutionalism', ibid.; T. A. Koelble, P. Di Maggio (eds.), The New Institutionalism in Organizational Analysis (Chicago, 1991); 'The Adolescence of Institutional Theory' (1987) 32 Admin. Sci. Qty. 493; W. Powell and See J. March and J. Olsen, 'The New Institutionalism: Organisational Factors in Political Life' (1984) 78 Am. Pol. Sci. Rev. 734; J. Meyer and B. Rowan, 'Institutionalised Organical Life' (1984) 78 Am. Pol. Sci. Rev. 734; J. Meyer and B. Rowan, 'Institutionalised Organization'. Cathedral' (1997) OJLS 699; 'New Institutionalism and Nationalism in Socio-Legal Ana- B. Levy and P. T. Spiller, Regulations, Institutions and Commitment (Cambridge, 1996).
 See also the discussion in J. Black, 'An Economic Analysis of Regulation: One View of the The New Institutionalism in Political Science and Sociology' (1995) Comparative Politics isations: Formal Structure as Myth and Ceremony' (1977) Am. J. Sociol. 340; W. Scott,

solve the problem of eroding legislative coalitions McNollGast hypoimportant constituents in agency decision-making processes."48 Thus, to used to mitigate the informational disadvantages faced by politicians are inherently difficult to control but a solution lies in the use of the bureaucratic deviations from the desires of politicians and legislatures because of coalitional and bureaucratic 'drifts'. Their argument is that ives established in the original legislative compromise and may do so agencies and bureaucrats may tend to act in ways contrary to the object-(McNollGast) on this front. McNollGast's concern is that administrative notable contribution has been made by McCubbins, Noll, and Weingast in dealing with agencies. Second, procedures can be used to enfranchise the two central problems of political control: First, procedures can be 'administrative process'. Elected officials can design procedures to solve to preserve the thrust of the original policy position (or mandate) in the (i.e. rig these) in favour of the original winning coalition. The effect is thesize that legislators will 'stack the deck' of administrative procedures the policy. face of declining cohesion in the original political alliances that produced

Other commentators have sought to add to McNollGast by arguing that problems of bureaucratic and legislative drift can be controlled not merely by using administrative procedures but also by 'stacking' organizational structures and designs. Jonathan Macey, to instance, has contended that the structure and design of agencies can be manipulated in ways that reduce the chance that future changes in the political landscape will upset the terms of the original understanding among the relevant political actors' Regulatory outcomes are, on such a view, said to be influenced by agency structures which affect the kinds of political pressure that various groups are able to exert on the bureaucrats within the agency.

New institutional economists have, for their part, sought to qualify the standard assumptions of microeconomic theory by focusing on the transaction and arguing that individuals may seek to maximize in accordance with certain preference orderings but they do so in the face of cognitive

Politics 339. For a review of principal-agent theories in regulation see M. Barrow, Public Services and the Theory of Regulation' (1996) 24 Policy and Politics 263.

** See McNollGast I, 244. On bureaucratic and coalitional drifts see M. J. Horn and K. A. Shepsle, 'Commentary: Structure, Process, Politics and Policy' (1989) Va. LR 499.
** J. R. Macey, 'Organisational Design and Political Control of Administrative Agencies'

(1992) 8 J. Law Econ. Org. 93.

¹⁰ Ibid. On the role of institutional structures in explaining regulation in the EU see G. Majone, 'The Rise of the Regulatory State in Europe' (1993) West European Politics. In their comparative study of telecommunications regulation, Levy and Spiller (Regulations, Institutions and Commitment) emphasize that regulatory performance is affected by the political and social institutions encountered in a country. They urge (controversially) that regulation can only be efficient and satisfactory if adequate state mechanisms are in place to restrain arbitrary administrative action by regulators; see pp. 1, 120.

> limits, incomplete information, and difficulties in monitoring and enforcing agreements.⁵³

From the political science perspective, a special concern is the nature of collective action and the way that political structures, institutions, and decision-making processes shape political outcomes. A number of writers focus on the mechanics of legislating, the way that this affects substantive results, and the efforts of different political groupings to control each other (e.g. committees of the legislature and regulatory agencies). 13

In sociology and organization theory, the new institutionalism involves not only a rejection of rational actor models but also an interest in institutions as independent variables; in cognitive and cultural explanations; and in units of analysis that are more than aggregations of individuals' preferences, attributes, or motives. Sociologists have devoted particular attention to the nature and conceptualization of institutions and how certain forms of behaviour and understandings become institutionalized. A sociological approach to capture is thus offered by Grabosky and Braithwaite, who suggest that the closer the regulatory institution is to the regulated firm in terms of experience, outlook, and class (the smaller the 'relational distance') and the greater the frequency of agency to firm contacts, the more likely it is that cooperative arrangements and capture will result. Organizational theorists have tended to focus on the

¹¹ See K. A. Shepsle, 'Institutional Equilibrium and Equilibrium Institutions', in H. Weisburg (ed.), Political Science: The Science of Politics (New York, 1986). T. Moe, 'An Assessment of the Positive Theory of Congressional Dominance' (1987) 12 Legislative Stud. Q. 475; id., 'Political Institutions: The Neglected Side of the Stary' (1990) 6. J. Law Econ. Org. 213. For an economic approach to issues of political control see R. L. Calver, M. D. McCubbins, and B. R. Weingast, 'A Theory of Political Control and Agency Discretion' (1989) 33 Am. J. Pol. Sci. 588.

tion' (1989) 33 Am. J. Pol. Sci. 588,
⁵⁰ See W. H. Riker, 'Implications from the Disequilibrium of Majority Rule for the Study of Institutions' (1980) 74 Am. Pol. Sci. Rev. 432; K. A. Shepsle and B. Weingast, 'Structure-Induced Equilibria and Legislature Choice' (1981) 37 Public Choice 503; Shepsle and Weingast, 'The Institutional Foundations of Committee Power' (1987) 81 Am. Pol. Sci. Rev. 85; B. Weingast and W. Marshall, 'The Industrial Organisation of Congress' (1986) 96 J. Pol. Econ. 132; E. Ostrom, 'An Agenda for the Study of Institutions' (1986) 48 Public Choice 3; K. A. Shepsle loc. cit. (1986) n. 52 above; T. Moe, 'Interests, Institutions and Positive Theory: The Politics of the NLRB' (1987) 2 Studies in American Political Development 236.

Theory: The Politics of the NLRB' (1987) 2 Studies in American Political Development 236.
See e.g. J. Meyer and B. Rowan, 'Institutionalised Organisation: Formal Structure as Myth and Ceremony' in Powell and Di Maggio, New Institutionalism. S. Crawford and E. Ostrum, 'A Grammar of Institutions' (1995) 89 Am. Pol. Sci. Rev. 582. R. L. Japperson, 'Institutions, Institutional Effects and Institutionalism', in Powell and Di Maggio, New Institutionalism.

⁴⁶ P. Grabosky and J. Braithwaite, Of Manners Gentle: Enforcement Strategies of Australian Business Regulatory Agencies (Melbourne, 1986). On relational distance see D. Black, The Behavior of Law (New York, 1974), 40–8.

⁵¹ See Powell and Di Maggio, New Institutionalism, 3, and L. Putterman, The Economic Nature of the Firm (Cambridge, 1986); O. Williamson, The Economic Institutions of Capitalism (New York, 1985); D. C. North, 'Government and the Cost of Exchange in History' (1984) 44 J. of Econ. History 255; R. Matthews, The Economics of Institutions and the Services of Growth' (1986) 96 Economic Journal 903; Horn, The Political Economy of Public Administration.

and understandings.66 choices are guided by shared organizational experiences, expectations national, or international scope and the extent to which individual role of organizational structures and processes that are of industry-wide

istics that makes it more fruitful to focus on the complex and shifting contests between public authorities and private interests and argue that cultural, and organizational elements is that represented by Leigh stitutions come to inhabit a shared 'regulatory space' that is marked out relationships between and within organizations involved in regulation. regulation involves an intermingling of public and private character-Hancher and Michael Moran, 57 who question portrayals of regulation as by a range of regulatory issues subject to public decision. Hancher and Moran thus look to understand the way that different in-One strand of regulatory theory that has socio-legal, sociological

even-handed and effective regulatory regimes across national borders.69 control (or encouragement) of regulatory capture; and the production of in explanations of regulation and attention may be paid to relations gulatory competition on such matters as: the rigour of standards; the borders.68 In such analyses questions arise concerning the effect of rebetween domestic institutions as well as regulatory competition across How regulatory regimes compete is a further, and distinct, focal point

of institutionalism. The former tend to give weight to the influence of opments.99 The latter look to the influence on institutions of informal past decisions, practices, and procedures in explaining regulatory devel-Finally, mention should be made of the historical and cultural strands

in P. Grabosky and J. Braithwaite (eds.), Business Regulation and Australia's Future esp. their chapter 'Organising Regulatory Space'. See also T. Daintith, 'A Regulatory Space Agency' (1989) 9 OJLS 534 and C. Shearing, 'A Constitutive Conception of Regulation' See Powell and Di Maggio, New Institutionalism, 9-10. See L. Hancher and M. Maran (eds.), Capitalism, Culture and Regulation (Oxford, 1989).

Regulation', in S. Picciotto, J. McCahery, C. Scott, and B. Bratton (eds.), International Regu-J. Pelkmans, 'Regulatory Competition in the Single Market' (1970) do de Communications Studies 67; C. Scott, 'Competition and Co-ordination in US and EC Telecommunications Europe' (1983) 9 Oxford Rev. of Econ. Policy 15. H. Siehert and M. J. Koop, Institutional Competition Versus Centralisation: Quo Vadia latory Competition, Externalisation and Jurisdiction' (1993) 34 Harv. J. of Int. Law 49 Rules in the Single European Market (Landon, 1994); J. P. Trachtman, International Regulatory Competition and Co-ordination (Oxford, 1996); S. Woolcock, Competition among (Canberra, 1993) See Chapter 13 below; G. Majone, Regulating Europe (London, 1996); J. M. Sun and 'Regulatory Competition in the Single Market' (1995) 33 J. Common Market

** On comparing regulation across borders see R. Baldwin and T. Daintith, Harmonisa

in S. Steinmo, K. Thelen, and F. Longstreth (eds.), Structuring Politics: Historical Institutionalism in Comparative Politics (Cambridge, 1992), I. McLean and C. Foster, The Political tion and Hazard (London, 1992) and below, Chapter 11. 1844' (1992) 70 Pub. Admin. 313. Economy of Regulation: Interests, Ideology, Voters and the UK Regulation of Railways Act See K. Thalem and S. Steinmo, 'Historical Institutionalism in Comparative Politics'

> as rule systems in determining social and regulatory developments.83 analyses, have stressed the importance of institutions and groups as well anlayses in accounting for developments in government and, in using such (low grid, high group). Commentators have sought to apply grid-group group), 'individualist' (low grid, low group), and 'sectarian' or 'egalitarian' of life: 'fatalist' (high grid, high group); 'hierarchist' (high grid, low bounded units). Combining these two dimensions gives four basic ways degree to which relations are governed by externally imposed rules) and distinction between two basic dimensions of organizations;" 'grid' (the Influential within cultural approaches to institutions is Mary Douglas's tionships between ideas, images or symbols, and practical responses.61 cognitive processes, the cultural frameworks of perception, and the rela-'group' (the extent to which individuals are incorporated into broader, rules, procedures, conceptions, myths, ideologies, theories, shared values beliefs, expectations, and understandings. More particular concerns are

actions of autopoietic systems, et come to be analysed in terms of the nature, compatibilities, and interto self-generate and reproduce.64 Regulatory developments, accordingly, its own rationality yet to be able to react with its environment so as poietic. Each system (law, economy, politics, religion, etc.) is seen to have differentiated functional systems into which society is divided are autoapproaches are consistent with systems theory and the idea that the In emphasizing the self-productive aspect of institutions such cultural

42 M. Douglas, In the Active Voice (London, 1982).

of Public Sector Growth', in J. E. Lane (ed.), State and Market (London, 1985) (discussed ss See e.g. Thompson, Ellis, and Wildavsky, Cultural Theory and A. Wildavsky, The Logic

Hood, Explaining Economic Policy Reversals, 98-9).

** See G. Teubner (ed.), Autopoietic Law: A New Approach to Law and Society (Berlin, 1988); id., Juridification of Social Spheres (Berlin, 1987); id., Law as an Autopoietic System (Oxford, 1983); N. Lahmann, 'Law as a Social System' (1989) 83 NWULR 136; M. King, (1986) 59 MLR 24 and for an introduction, King, The Truth about Autopoiesis' and A. Febbrajo (eds.), State, Law and Economy as Autopoietic Systems: Regulation and Autonomy in New Perspective (Milan, 1992); on autopoiesis and self-regulation see J. Black, mentation as an Autopoietic Interaction of Autopoietic Organisations', in G. Teubner The Truth about Autopoiesis' (1983) 20 J. of Law and Society 218; W. H. Clune, 'Imple-

Febbrajo, State, Law and Reonomy. Strategic Models of Post-Regulatory Law", in Teubner (ed.), Dilemmas of Law in the Welfare State (Berlin, 1985); M. Wilke, 'Societal Regulation through Law", in Teubner and ⁶⁵ See Black, loc. cit. n. 64 shove and G. Teubner, 'After Legal Instrumentalism?

⁽Boulder, Colo., 1990). Institutions Think (London, 1986); M. Thompson, R. Ellis, and A. Wildavsky, Cultural Theory 1988), G. M. Thomas, Revivalism and Cultural Change (Chicago, 1989); M. Douglas, How Century National Research in Sociology (London, 1988); id., 'Society without Culture: A Nineteenth Structure (London, 1987); J. Meyer, 'Conceptions of Christendom', in M. Kohn (ed.), Cross-⁶³ See Jepperson loc. cit. n. 54 above; J. Meyer, J. Boli, and G. Thomas, 'Ontology and Rationalisation in the Western Cultural Account', in G. Thomas et al. (eds.), Institutional Legacy', in F. O. Ramirez (ed.), Rethinking the Nineteenth Century (New York

able predictions can be made about all or most regulatory processes.46 even rash, to suggest that such theories can be synthesized so that relinot exhaustively account for the host of potential theories available. It A review of major approaches to the explanation of regulation may and context. What can be said is that in seeking to explain particular ries more conviction than another without reference to a particular issue phasis encountered in the regulatory literature. It would be optimistic necessary for applying and testing them. underpinning those theories, and to identify the kinds of information regulatory developments, an awareness of the variety of available exlittle sense to say whether one explanation or type of explanation caring applications and uses as explanatory tools. For this reason it makes Different theories exist at differing levels of generality and have varyferent theories, to develop a sense of the limitations of and assumptions planations does help the observer to evaluate the insights offered by difhowever, to indicate the main tensions and differences of em-

as a governmental activity and as a subject for party political attention to supplement previously dominant 'borrowings' from across the Atlantic."3 from a British perspective, a healthy indigenous literature has developed to political science" and anthropology, "I Regulatory studies have taken on has come to draw from an ever wider range of sources, from legal theory disciplines as law, political science, and economics.68 Regulatory theory and traditional academic boundaries have been crossed between such years.⁶⁷ Thus, interdisciplinary approaches have become more widespread but also as a focus of academic interest. regulatory studies" but regulation is set to grow in importance not merely Themes and approaches do remain to be developed within the body of board new issues and concerns—such as attend the topic of risk"—and The study of regulation has developed in many promising ways in recent

Table 2. Explaining regulation

Public Interest Type of Theory

100	Personal ve Seamont	
-	Main Emphasis	Key Problems
2311	Regulator acting in pursuit of public rather than private	Difficult to agree a conception of public interest.
	interests. Regulator disinterested and expert.	Scepticism concerning disinterestedness, and public- spiritedness of regulators.
		Understates influence of economic power and prevalence

groups	relatio	Regula
bru	mship	ition
WE	96 be	as p
2043	tween	roduc
state.		t of

economic power.

Understates role of private

outcomes often full to result

Concern that public interest

power amongst groups.

Understates competition for

of capture in regulation.

Interest Group

		*
 regulation.	interests in driving	Role of private economic

Private Interes

Incentives of firms to secure benefits and regulatory rents by capturing regulator.	
--	--

	eas
regulatory developments.	Role of ideas in steering

Force of Id

regulation	rule and	Influence
P	social s	of orga
	etting on	nizational

Institutional

rule an	prefere	action,	individa	Actors
d social	nce by o	knowled	aals but	seen no
environ	rganiza	ige, and	88 sha	t purely
ments.	tional	1	ped in	888

control of implementation

problems of democratic Principal-agent issues and changes.

Role of groups and institutions preferences of parties. regulation are rational Assumes that parties in may be underemphasized. Possibility of altruism and Difficulty of identifying maximizers of own welfare. BCUOIS. limit self-interestedness of public-spiritedness. nformational limitations may

force of ideas from the role of It may be hard to separate the economic interests.

explanations with others in accounting for regulatory How to balance institutional

difficult

Explaining deregulation may be

See M. E. Levine and J. L. Furrence, Regulatory Capture, Public Interest and the Public Agenda: Towards Synthesis' (1990) J. Law Econ. Org. 167.

tion (Oxford, 1998), ch. 1. See the discussion in R. Baldwin, C. Scott, and C. Hood (eds.), A Reader On Regula

See e.g. D. Helm (ed.), British Utilities Regulation (1996).

See e.g. the works of Teubner and Black at n. 64 above.

¹⁰ See e.g. Hood, Explaining Economic Policy Reversals; R. A. Harris and S. M. Milkin

The Politics of Regulatory Change (2nd edn., New York, 1996).

1 See e.g. M. Douglas, 'Risk as a Forensic Resource' (1990) 119 Davidulus 1. 22 See below, Chapter 11 and e.g. Royal Society, Risk: Assessment, Perception, Manage-

M. Armstrong, S. Cowan, and J. Vickers, Regulatory Reform: Economic Analysis and British ment (London, 1992) (containing a useful bibliography of risk studies).

13 See e.g. A. Ogus, Regulation: Legal Form and Economic Theory (Oxford,

Experience (London, 1994).

14 For discussion see Baldwin, Scott, and Hood, Regulation, ch. 1.

15

Price Setting in Natural Monopolies

This and the following four chapters are concerned with economic regulation of the utilities sector. This chapter focuses on the nature and implications of natural monopoly—a condition that governs the costs of many activities undertaken by utilities, especially their distribution networks. Natural monopoly can be defined as a situation in which the market can most cheaply be supplied by a single firm. (A gas distribution network is a good example.) A natural monopolist, left to itself, would for reasons discussed below be likely to charge excessive prices and there is accordingly a need for some form of price regulation, and scope for debate about the kind of price regulation that is appropriate.

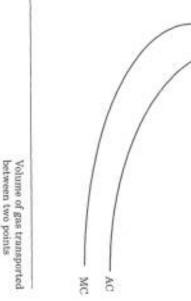
Not all activities undertaken by utilities are naturally monopolistic, though historically the markets may for policy reasons have been supplied by a single firm, typically a public enterprise. In such cases, decisions have to be made about where, how, and when to liberalize the market and allow competition to enter. It is therefore necessary to discuss how to manage the transition to competition and the implications for regulating entry, prices, and quality of service. These issues are tackled in the following four chapters which deal, respectively, with the complementary roles of competition and regulation (Chapter 16), methods of price control (Chapter 17), the measurement of efficiency (Chapter 18), and regulating quality of service (Chapter 19).

Series

What is a Natural Monopoly?

A natural monopoly arises when the market is served most cheaply by a single firm, rather than by a multiplicity of competing firms. In cases where

See M. Armstrong, S. Cowan, and J. Vickers, Regulatory Reform: Economic Analysis and British Experience (London, 1994), chs. 2-3; S. Berg and T. Tschirhart, Natural Monopoly Regulation (Cambridge, 1988); W. W. Sharkey, The Theory of Natural Monopoly (Cambridge, 1982); C. D. Foster, Privatisation, Public Ownership and the Regulation of Natural Monopoly (Oxford, 1992), ch. 6.



As the volume of gas transported increases, there is a fall in the average cost (AC) of transportation—both operating costs and investment or capital costs. This implies that the cost of moving an additional unit (the marginal cost or MC) always fies below the average cost: what drags the average down is the (low) additional cost of transporting an extra or marginal unit.

Fig. 2. Average and marginal cost in a natural monopoly

volume transported increases. which shows how average cost (AC) per unit transported falls as the gas between two points, the situation can be represented in Figure 2, the firm is producing a single product or service—for example, transporting

is shown in Figure 2 by the marginal cost curve (MC). not only falling itself but also less than the average cost. This situation incurred by the pipeline operator on transporting each further unit is An implication of declining average cost is that the additional cost

or by being able to employ more specialized and efficient personnel. A also be able to reduce costs by having proportionately lower overheads gas, telecommunications, and water services to final users is associated increase in investment cost. Firms with a larger scale of operation may lines, the capacity of the pipe can be increased without a commensurate unnecessary duplication of a major part of the distribution network. serving half of them. This is because the latter arrangement requires to all the houses in an area than to have two competing networks each household basis for a single distribution company to deliver electricity with what are called economies of density. Thus, it is cheaper on a per further important consideration in networks for distributing electricity. Possible sources of declining unit costs are many.3 In the case of pipe-

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petitors in spite of the theoretical advantage of the monopoly. it may in practice be cheaper to have the market supplied by two comefficiency under a monopoly may, however, be very weak, and as a result, unit cost than two or more competing firms can achieve. Incentives to theoretically be possible for a monopolist to serve a market at a lower operation of social and economic factors within the enterprise. It might only on engineering factors but also upon management processes and the Whether an activity is a natural monopoly of this kind depends not

separate products, have the effect of reducing the number of firms in an scope, which typically arise from the use of common assets to produce single firm provides both services, it can do so more cheaply than two industry. firms can when using separate distribution networks.3 Economies of infrastructure-the trenches and ducts which contain the cables. If a telecommunications and cable TV companies utilize much of the same broadcast entertainment services and telecommunication services. Both tions industry is provided by cable television networks which deliver both be provided by a separate firm. A good example from the communicaor more related products and services together, than for each of them to tered in many industries when it is cheaper for one firm to provide two for cost reduction arises through economies of scope, which are encoundescribed above are one aspect of natural monopolies. A second reason The declining unit costs associated with economies of scale of the kind

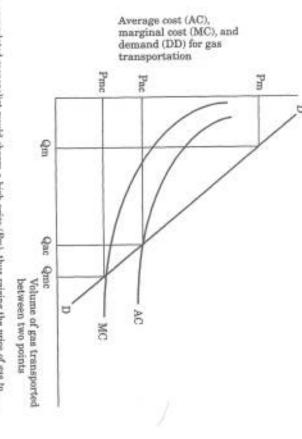
significant number of markets are served by the same monopolist. vices. Acting in combination, they may generate a situation in which a the latter encourage each firm in the market to produce a range of serreduce the number of firms producing each service individually, while economies of scale are combined with economies of scope. The former The tendency towards natural monopoly is most pronounced when

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distribution systems, however, appear to be well rooted struct fixed link networks. The natural monopolies of energy and water the local exchange, is a natural monopoly has been significantly weakened the access network or local loop which connects households and firms to by the development of new technologies based on wireless distribution. development. Thus, the argument that telecommunications, particularly These give customers access to the exchange without the necessity to conis a complex process. Natural monopolies are vulnerable to technological Determining whether a particular area of activity is a natural monopoly

Oxford, 1991), ch. 2. * See D. A. Hay and D. T. Morris, Industrial Economics and Organization (2nd edn.

cations', (1996) 12 Oxford Rev. of Econ. Policy 100. * M. Cave and P. Williamson, Entry, Competition and Regulation in UK Telecommuni-



An unregulated monopolist would charge a high price (Pm), thus raising the price of gas to consumers. The ideal price would be Pmc, where the demand curve (DD) cuts the marginal cost curve (MC). If this price were charged, gas prices would be based as a charge for transportation which reflected the true marginal cost to the economy of transporting the last or marginal unit. regulator must ensure that the firm breaks even, this is the best price available not survive in the long run. The lowest price consistent with the firm breaking even is Pac. If the However, a price equal to Prac would fail to cover the firm's average cost (AC); hence the firm could

Fig. 3. Pricing options for a natural monopolist

Implications for Pricing

absence of intervention, and what prices should regulators try to attain? can be tackled by asking two questions: what price would emerge in the The implications for pricing of services provided by a natural monopoly The first question can readily be answered in relation to Figure 3. This

how demand for gas pipeline services varies with the price charged. If the price of transportation is high, the implied price of gas made

reproduces Figure 2, with the addition of a demand curve DD, which shows

retail level, and demand for gas and for gas transport will rise. As gas transport prices fall, this will be reflected in lower prices at the available to consumers will be high, and gas consumption will diminish

average cost and hence delivers a monopoly profit.4 As a result, gas prices maximize its profits by setting a relatively high price, Pm, which lies above In these circumstances, a monopolist controlling the pipeline will

benefit of shareholders in the monopoly who will enjoy excess profits. paid by consumers will be high, and those consumers will suffer, to the

curve, exactly equals the marginal cost to the economy of producing that expanded up to the point where the buyers' willingness to pay for an addimand curve cuts the marginal cost curve (Pmc in Fig. 3), output has been such as gas transport. This is desirable because at a price where the desuch as gas purchased by households or to an intermediate product should be set at their marginal costs,6 whether they apply to final demand The best price for the service is, therefore, a price equal to marginal cost. last unit of output is greater than the buyers' willingness to pay for it price lower than this, the marginal cost to the economy of providing the to pay would exceed the marginal cost of providing an extra unit. At a final unit of output. At a price higher than this, the buyers' willingness tional unit of the service provided, shown by the height of the demand lator set? Ideally the prices of goods and services sold in the economy regulation of prices, but what price for gas transport should the regu-This unsatisfactory state of affairs can clearly be mitigated by the

services were priced at Pmc, then the price charged would fail to cover the average cost of service. As a result, the firm would make a loss. As inspection of Figure 3 demonstrates, however, if gas transport

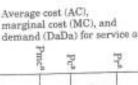
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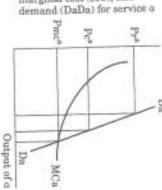
equal to marginal cost, Pmc. satisfactory than the monopoly price Pm, but less efficient than a price appropriate regulated price is shown by Pac in Figure 3. This is more state aid or another form of subsidy would, however, go out of business. If the firm is constrained to avoid losses and break even, then the most taxation. A privately owned single product firm which did not receive If it were a public enterprise, that loss could be made up from general

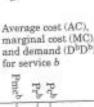
common inputs such as capital equipment, and as a result it will not and this gives more flexibility in the pricing process. It is not possible is held constant. increasing the output of any service when the output of other services vice, by identifying the increases in overall costs associated with It will, however, be possible to establish the marginal cost of each serbe possible to attribute all costs unambiguously to individual services for the separate services, because those services will typically have in the case of a multi-product firm to identify individual average costs to average costs. Most regulated firms, however, produce several services, product firm which has to break even should seek to drive prices down The implication is that a regulator who is setting prices for a single

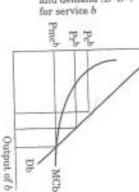
demand curve Da Da or Db Db crosses the marginal cost curve (MCa or MCb), as illustrated by Pmc^a and Pmc^b in Figure 4. As before, the most efficient price for each service occurs where the

⁽⁴th edn., London, 1998) * For how that price is determined, see D. Begg, G. Fischer, and R. Dormbusch, Economics









The ideal prices are where the demand curves (Da Da and Db Db) cut the marginal cost curves (MCa and MCb). A firm charging such prices would, however, make lesses as both products are produced in conditions of economies of scale. Hence the need for a mark-up over marginal costs. One proportionate mark-up on 5, where demand is more responsive to price (Pr proportionate mark-up on service a, where domand is unresponsive to price (Pr*) and a low much mure for 5 than for a. A preferred option is so-called Ramsey pricing, which involves a high Pet. Such prices, though, have different distorting offects on demand for the two services; it falls possibility would be to have an equal mark-up to cover cussmon and fixed costs; i.e. to choose Pc* and

Fig. 4. Efficient pricing for a multi-service utility

service at a price equal to its marginal cost, the firm will incur losses. In order to break even, it must, therefore, charge a mark-up above marginal We face once again, however, the problem that, if the firm sells each

just allows the firm to break even. These prices are shown in Figure 4 contain an equal proportionate mark up on each service, of a size which stances, however, to set a proportionate mark-up over marginal cost cost pricing for the single product firm. It is preferable in most circumas Pc" and Pc' respectively. This is the solution consistent with average for each service which varies from service in accordance with demand One simple way of achieving this objective would be to fix prices that

conditions. sponsive to price, and a high mark-up can be charged without that markare also known after their inventor as Ramsey prices.6 The logic behind up having a major effect on consumption, compared with the case where them is as follows. In the case of service a, demand is relatively unredistortion of the amount consumed much more as price rises. A high mark-up on service b will lead to a major price is equal to marginal cost. Demand for service b by contrast, falls These preferred prices are illustrated in Figure 4 by Pr^{-} and Pr^{+} ; they

Price Setting in Natural Monopolies

mark-up over marginal cost. minimum the harmful effects of distortion in output caused by the This enables common costs to be recovered in a way that reduces to a should have a higher than average mark-up over their marginal costs mark-up, while services where demand is relatively unresponsive to price ive to price should generally have a lower than average proportionate to allow the firm to break even. Services where demand is relatively responsembody the minimum mark-ups over marginal costs that are necessary because it is privately owned-is required to break even, they should a regulated monopoly which produces a variety of services and which-To express this principle more generally, when prices are being set for

Conclusions

likely to lead to dominance of the market by a single multi-product firm. evidence. A combination of economies of scale and economies of scope is advantage over its competitors, and is hence likely to become a monoarise from economies of scale, which mean that the largest firm has a cost market is most cheaply served by a single producer. Natural monopolies This chapter has defined natural monopoly, which occurs when a by a single firm than separately by two firms, economies of scope are in polist. Where two or more products or services are produced more cheaply

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price and smaller where it is relatively responsive even constraint should lead to differential mark-ups on services. Such mark-ups should be greater where demand is relatively unresponsive to time is equal to average cost. In the case of a multi-product firm, a breakmost satisfactory regulated price which can be imposed at any point in the case of a single product firm, if the firm is required to break even, the excessive profit. The natural regulatory response is to control prices. In Such a firm has the market power to charge prices which generate

undertake the prior, and crucial, process of determining whether regulaalso assumed that regulators know the costs of the firms they regulate show how they can reduce their costs and keep them down tion of price and other aspects is in fact necessary. Our discussion has ing rules for a natural monopoly. Utility regulators in practice have to In practice they do not, and they need to develop incentives for firms to This analysis has allowed us to identify what might be efficient pric-

See Armstrong et al., Regulatory Reform, 47-51; G. T. Brown and D. S. Sibley, The Theory of Public Utility Pricing (Cambridge, 1996), 39-44.

and Sibley, Public Utility Pricing, ch. 7. For an implementation of Ramsey pricing to the telecommunications sector, see Brown