The European Socioeconomic Classification

A prolegomenon

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troduction

In 1999, as part of its Statistical Harmonization Programme, Eurostat (the Statistical Office of the European Com munities) commissioned an Expert Group to make recommendations for the development of a new statistical tool for understanding differences in social structures and socio-economic inequalities across the European Union (EU). In its subsequent report to Eurostat (Rose et al. 2001) the group recommended the development of a common socio-economic classification for all EU Member States based on the concept of employment relations (see below) and outlined a work programme to achieve this objective.

countries: Germany, Ireland, Italy, the Netherlands, Sweden and the UK. Statistics and Economic Studies (INSEE), and academic researchers from six duction of the new 2008 version of the International Standard Classification of Occupations (ISCO), the harmonized classification used across the EU for to implement the classification, subject to the resolution of a number of in September 2006, it was recommended that NSIs across the EU should seek www.iser.essex.ac.uk/research/esec). At a Eurostat meeting in Luxembourg written advice (see below and also the project website for further details: across Europe, participated in the two project conferences and also provided Most of the other EU NSIs, as well as additional academic experts from Office for National Statistics (ONS) and the French National Institute for involved a consortium of two National Statistical Institutes (NSIs), the UK under Framework Programme 6, and was completed in 2006. This project European Socio-economic Classification (ESeC) commenced in 2004, funded reporting occupational statistics (see Elias and Birch 1994a, 1994b). changes in national occupational classifications arising through the introoutstanding statistical issues. These included the need to align the ESeC with A research project to develop a prototype version of a harmonized

While Eurostat has, quite appropriately, taken responsibility for the final stages of the work involved in implementing the ESeC as a harmonized variable within the European Statistical System, the success of this indicator in fundamental interpretabilities across the EU depends upon

of the ESeC consortium and report the findings of their work for the project. purpose of this book. The chapters that follow are all written by members demonstrating its value as an analytical tool. That is the fundamenta

rules and variants. In the final three sections of the chapter we examine commence with an explanation of what we mean by a socio-economic validation issues in relation to ESeC as a precursor to explaining the plan of we explain the conceptual underpinnings of ESeC and describe its categories, and social scientific instrument. In the fifth and sixth sections respectively, why a clear conceptual basis is crucial if an SEC is to be a useful statistica the third and fourth sections, by an account of why ESeC is necessary and cations (SECs) and the particular form that ESeC takes. This is followed, in begin with a discussion of terminology regarding socio-economic classifthe book, discussing the other chapters and drawing some conclusions. We follows. In the second section, largely for the benefit of non-aficionados, we In this chapter we set the scene in terms of both ESeC and the rest of what

What is a 'socio-economic classification'?

of different measures designed to reflect how societies are stratified. Social inequality. First there are occupational scales which tend to measure the of an SEC. Two broad approaches exist, reflecting different aspects of common the idea that in market economies it is market position, and society is organized, to its socio-economic structure. SECs all share in stratification refers to social inequalities that may be attributed to the way a becomes how we use occupation as an indicator of social position in terms structure is viewed as the spine of the stratification system. The question then whatsoever. I Consequently it may be applied as a generic term for a variety that is, in and of itself it has no theoretical, conceptual or analytic status and/occupation/is taken to be its central indicator; that is, the occupational and families are largely determined by their position in the labour market mental to the generation of social inequalities. The life-chances of individuals especially position in the occupational division of labour, which is funda-The term 'socio-economic classification' (SEC) is merely a descriptive one; intended to measure relational as well as distributive issues. distributive aspects of inequality, and second, there are categorial schemas

categories or social positions. Others prefer measures that allow for 'an some favour SECs that divide the population into a discrete number of economic classification and those who prefer continuous measures. That is, in one dimension' represented by a single parameter (Ganzeboom et al which assume that 'differences between occupational groups can be captured unlimited number of graded distinctions between occupational groups' become divided between those who favour (categorial approaches) to socio-1007. 2 At Washall briefly evamine these two anninaches, while noting As Ganzeboom and his colleagues (1992) have noted, social scientists have

'a link between the organization of society and the position and behaviour

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and Joye 2001; Hauser and Warren 1997). Svallfors 2006: ch. 2; Rose 2005; Ganzeboom and Treiman 2003; Bergman discussions of the different types of SEC see Lareau and Conley 2008: ch. 1; that each uses occupational information for its derivation (for further

commonest explicit description of a socio-economic measure (and, conassociated with the status attainment form of mobility research) remains the income became a matter of definition. This type of approach (commonly economic statuses. Thereby, the correlation of status with education and occupation was simultaneously estimated in terms of both its social and and education and income on the other. Thus, the overall status of each In Duncan's view, the SEI made a link between occupation on the one hand an attempt to predict status from information on education and income. inequality (see Egidi and Schizzerotto 1996). For example, Duncan's (1961) occupations. Their primary aim is to reveal the distributive aspects of social income, i.e. they summarize social and economic variables relating to the sense that they combine information on occupation, education and continuous measures might be seen as more avowedly 'socio-economic' in umbrella term of socio-economic status or SES measures. At first sight, these socio-economic scales, scores or indices, generally referred to under the developed (see Ganzeboom et al. 1992). fusingly for what follows, is often termed a measure of class position in the prestige) measures of occupations with educational and income measures in 'Socioeconomic Index' or SEI brought together 'social' (in this case status or USA: see Lareau 2008). An internationally comparable SEI measure has been American research post-1945 led to attempts to construct quantitative

concentrates on the relational aspects of inequality as well as the distributive educational attainment, health, material rewards, economic security and resources, and thus similar structural positions, will share comparable positions they occupy and consequently face a range of possibilities and ones, In other words, individuals possess certain resources by virtue of the social structure in terms of social and economic power and thus also which sees individuals as being distributed across a range of positions in the construction of indices that combine education, income and occupation rather than exploring their interconnections via multivariate analysis (see than gradational aspects of SES measures that worry many analysts, i.e. the dimensions relating to social stratification. Indeed, it is the synthetic rather scientists would prefer to see occupation, education and income as separate is rather different from Duncan's synthetic, unitary approach. Many social Accordingly, in this approach, the structural base of social power provides social mobility). Therefore, they may also be expected to act in similar ways. possibilities and constraints in terms of 'life-chances' (e.g. chances for constraints in terms of their behaviour. Those who share comparable Lareau 2008: 11-12 and passim). Hence, the alternative approach is one However, there is another tradition in socio-economic classification that 5

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of individuals' (Breen and Rottman 1995a: 455, emphasis added; see also Wright 2008; Egidi and Schizzerotto 1996; Goldthorpe and Marshall 1992). While there are many bases of social power, such as race, gender and social status, it is generally agreed among sociologists that the most important in modern market economics is that of social class, i.e. social power based on market or economic power (see e.g. Crompton 2008; ch. 2; Wright 2008, 2005; Marshall 1997; ch.1; Scott 1996; Breen and Rottman 1995b). Thus, we can also see categorial social class measures as being 'socio-economic' classifications.

and post-industrial societies. The classes themselves (i.e. the categories within a class schema) are seen as 'sets of structural positions, Social structural position, as objectively defined in this manner, affects life-chances, emphasis added). Empirical research then addresses the issue of how occupants of these positions. They are "empty places" (Sørensen 1991: 72, firms define these positions. Class positions exist independently of individual relationships within markets, especially within labour markets, and within of SEC, a typological classification, aims 'to arrange a set of entities into This tradition is one influenced by the theories of both Marx and Weber (see and life-chances cross-nationally. This is what ESeC provides, but why is it now there has not been an equivalent European classification which would allow researchers to compare the relationship between social organization deprivation, poverty and so on (see Grais 1999: Appendix 2). However, untiexpand on these points later. We may also note that a number of NSIs in the groups, so that each group is as different as possible from all other groups, instantiation of it. It is therefore this approach to the meaning of the term been developed, commonly known as the Erikson-Goldthorpe-Portocarero official socio-economic classifications which they use to illustrate the socia European Economic Area employ this typological approach in their own 'socio-economic classification' that we advocate in what follows. This form (EGP) class schema (see Erikson and Goldthorpe 1992) and EseCis a new Lareau 2008: 19, n. 17). Again, a comparable international measure has Social class is fundamental to the distribution of life-chances in industrial but each group is as internally homogeneous as possible' (Bailey 1994). We patterns associated with a variety of life-chances such as health, education,

Why is an ESeC needed?

Taking the approach to SECs that we advocate, a harmonized ESeC may be used by NSIs to provide univariate and bivariate tabulations for both comparative and (where a national SEC is lacking) national purposes relating to other key variables such as income, health status and education. That is, the ESeC should be a vehicle with which we may monitor social structure and social change, one of the most crucial purposes of social structure and social change, one of the most crucial purposes of social structure.

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the impact of social and economic policy on different social groups (see e.g. Cabinet Office 2009; Manza and Brooks 2008; Aldridge 2001; Egidi and Schizzerotto 1996: 249–250; see also Marshall *et al.* 1997), an ESeC should prove a useful diagnostic tool in this regard. Moreover, as Grais (1999: 1) has observed:

Classifications of the socio-economic categories (SECs) in use in a certain number of European Union Member States have demonstrated their broad explanatory capacity and acted as an unparalleled integrating factor in social statistics at national level. A harmonised European classification of socio-economic categories could play the same unifying role by providing a common language for improving the integration of social statistics within the Community, horizontally in each Member State and vertically at European level.

There is, however, a tension between the requirements of NSIs, who tend to eschew theory and favour a general or empiricist socio-economic classification for univariate and bivariate descriptive analysis; and those of academics who need a more specific instrument which captures the class concept and may be used for multivariate explanatory analysis. Although ESeC may be used descriptively by NSIs, it is because of this latter purpose that ESeC is not contaminated by education or income measures. That is, it is a pure class measure: 'one concept, one measure' is the rule that ESeC follows. This allows academic researchers to explore how far we are from the goal of greater equality and why. How are social inequalities generated? How far is social structure (in terms of the ways in which employment is socially organized) implicated? How might inequalities be reduced? To begin to tackle these questions, we need a classification that is authoritative positions and hence this crucial aspect of social organization. We shall develop this point in the next section.

So, to be truly useful, ESeC should not only help us to describe but also to understand how socio-economic position relates to relevant key social indicators, variables and social domains (see Part III of this volume; and see Breen and Rottman 1995a, 1995b; Goldthorpe and Marshall 1992). These comprise not only the sixteen indicators identified for the Eurostat Statistical Harmonization Programme (see Ostby et al. 2000; Everaers 1998), but also those analytic benefits of an ESeC identified by NSIs and experts during the ESeC project. These include the improvement of social statistics for the purposes of international comparison and dialogue.

Among the areas where the ESeC should prove to be a useful discriminatory analytic tool for both policy and academic purposes are: fertility, mortality, morbidity, consumption, social behaviour, education, equal opportunities in age, gender and ethnicity, labour market processes, income, social exclusion, social stratification, social reproduction, mobility and

various cultural practices. In all of these areas, a common measure such as provide a common language for international comparisons in relation to and whether class is changing in importance over time. ESeC should thus in the sense of structural position in the labour market, are significant ESeC will allow us to see if the effects on life-chances of social organization,

such as education (e.g. Breen et al. 2007, 2009a, 2009b; Lupton et al. 2009; a range of other relevant investigations using SECs in central policy fields Erikson and Jonsson 1996); health (e.g. Sassi 2009; Atherton and Power some more general comparative work regarding SECs and their uses (e.g. Goldthorpe 1992); and employment (McGovern et al. 2007; Oesch 2006; 2002; Layte et al. 2001); social mobility (Breen 2004; Erikson and 2003; Kunst 1996; Ostberg 1996; Vagero and Lundberg 1995; Kunst and 2007; Erikson 2005b; Krieger et al. 2005; Drever et al. 2004; Fitzpatrick Marshall et al. 1997; Egidi and Schizzerotto 1996). Lareau and Conley 2008; Goldthorpe 2007c, passim; Svallfors 2005, 2006 Gallie et al. 1998; Elias and McKnight 1997, 2003). We can also indicate Mackenbach 1994); poverty (Whelan and Maître 2008; Layte and Whelan Apart from the analyses reported in Part III of this book, we can point to

applied social research. It will therefore have a wide field of applications tor ground variable in social statistics as well as an explanatory tool in basic and for international comparison and explanation. As one respondent to Grais' national and international datasets, given its principal purpose as a means both NSIs and academic researchers. It will be applicable to a range of (1999) questionnaire put it: In summary then, we can say that ESeC should serve as a general back-

comparative SEC severely hampers the progress which can be made in require the introduction of an occupational class variable, both for its Most rigorous analyses of trends in employment and unemployment In the growing area of comparative European research, the lack of a intrinsic importance and as a control for the analysis of other factors.

The importance of conceptual approaches

approach and now we expand on the reasons for this. If we wish to use ESeC non for a comparative classification such as ESeC. Grais (1999: Annex) notes it must be clear what it is measuring. A clear conceptual basis is a sine qua the cross-national patterns of life-chances revealed by its application mean, to examine life-chances across different national populations and show what We have several times mentioned the importance of a clear conceptual mana common In our view there are never decirable even in a national Institutes (NSIs): the 'theoretical' and the 'intuitive/empirical'. The latter are two contrasting approaches to the derivation of SECs by National Statistical

> in purpose. Only an explicit conceptual approach will suffice. to create SECs that are applicable cross-nationally and are thus comparative observer, national social structures are 'visible'. This is not so when we wish context. However, they are rendered possible because, to an astute inside

setting targets for reducing health variations between states that can be cannot get a handle on causal pathways, then it is not apparent how recomable to understand the causal pathways which lead to the regular patterns to be realized, as we explain throughout the book. target deprived groups. Needless to say, any SEC must also be used and these persistent variations. Examples include the difficulties encountered in empirical regularities: see Breen and Rottman 1995a). In addition, if we revealed by the use of an SEC in research (that is, the processes that generate transparency. That is, without a clear conceptual rationale, we shall not be SEC will have the capacity to display variation, it will not have analytic For now we will observe that although almost any sensibly derived intuitive broader methodological issues and the concerns of Parts I and II of this book. interpreted correctly by analysts if the benefits of analytic transparency are linked to achievable policies and, more generally, in developing policies to mendations can be provided on relevant policy actions that might address We shall return to this matter later in relation to measurement and

variables when searching for explanations of remaining differences. and well-validated SEC removes some barriers to the explanation of both Nevertheless, we would argue that a conceptually clear, properly constructed social stratification, only one of which, social class, is measured by ESeC. particular SEC is measuring. As we noted earlier, there are many forms of barriers to explanation. Not everything can be explained in terms of what a the distribution of life-chances and welfare. It also facilitates a focus on other empirical regularity and cross-national variability in respect of issues such as Obviously, a clear conceptual rationale does not thereby remove all

measure what it is supposed to (criterion validity) and that it usefully conceptual base, they should be concerned about the maintenance aspects standably be less concerned with the explanatory issues relating to a clear dated to assist with maintenance over time. While NSIs might undervalidity). In addition, once (criterion) validated, a measure may be re-validiscriminates other variables in theoretically predicted ways (construct chapter, validation involves both demonstrating that a measure does indeed harder, if not impossible. As we shall explain in the final sections of this classification impossible and of maintaining a classification over time much Finally, the lack of a conceptual rationale renders the task of validating a

are derived in relation to the underlying conceptual model describing its categories and their variants, and illustrating how the classes ceptual underpinnings before discussing its operationalization, outlining and We will now turn our attention to ESeC itself. We begin with its con-

The ESeC classes explained

Conceptual basis

social class schema (see Erikson and Goldthorpe 1992; cf. Breen 2005). The and thus place themselves under the authority of their employer. Any SEC As mentioned earlier, ESeC is based conceptually on the widely-used EGP analytic classification. We begin with employee positions. (involuntarily) or are long-term unemployed. We now need to see how these are barred from an employment relationship because they have never worked have allowed for a fourth basic class position, the 'excluded', i.e. those who institutions of private property and a labour market. In addition, in ESeC we these positions exist should be obvious for any society based on the relationships at work) must include these three basic class positions. Why based on employment relations (i.e. which defines positions in terms of social their own labour to an employer; and (3) employees, who sell their labour (2) self-employed (or 'own account') workers, who neither buy labour nor sell labour of others and assume some degree of authority and control over them; primary distinction made by EGP is that between: (1) employers, who buy the positions may be further differentiated for the purposes of developing a useful

Employees

our conception of an ESeC is a further level of distinction relating to the of the explicit and implicit terms of employment contracts. There is class positions. That is, employers do not treat all employees alike in respect of the active population. Clearly, however, they do not all hold identical employment relations of employees. How, therefore, do we make conceptual differentiation in employers' relationships with employees. Thus, crucial to In the EU Member States, employees account for anything up to 90 per cent employee positions? distinctions to reflect this and hence to produce class differentiation among

situation refers primarily to location in systems of authority and control at work, although degree of autonomy at work is a secondary aspect (see market situations and work situations as expressed through employment among employees is another way of saying that they occupy different labour contracts. Labour market situation equates to issues such as source of see in the final sections of this chapter, variation in employment contracts Lockwood 1958/1989). Hence, in this conceptual construction, as we shall are regulated by employers through employment contracts) (see Goldthorpe as defined by social relationships in the workplace (i.e. by how employees categories must thus distinguish broadly different positions (not persons) provides the main basis for establishing ESeC's construct validity. The ESeC income, economic security and prospects of economic advancement. Work To state that there are quite diverse employment relations and conditions

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argument, different modes of regulating employment emerge on account of extent depending on the kind of work and positions to which employees are human asset specificity. These problems may occur to a greater or lesser two contractual hazards faced by employers: those of work monitoring and more details; cf. McGovern et al. 2007: 19-28). Summarizing Goldthorpe's as a response by employers to certain problems or moral hazards they distinguished: the labour contract and the service relationship. Each is seen employers. Two basic forms of contract or employment regulation are contract they have with, and thus the way their work is regulated by, face in ensuring employees perform as required (see Goldthorpe 2007a for Employees are thus subdivided into classes according to the type of

easily be contrasted with, for example, assembly line work which, with higher professional and higher managerial occupations. This situation can quality of work cannot be scrutinized directly or easily, as in the case of its standardized work tasks and fixed production pace, may be easily Monitoring problems-are particularly difficult when the amount and

and/or the investments by the employer in employees' work competences. skills, expertise and knowledge ('human capital') required by employees be interested in long-term employment relationships. Where amounts are high, both employers and employees are encouraged to Asset specificity concerns the amounts of job- or organization-specific

elements, such as salary increments, occupational pensions, expectations of employing organization comprises a salary and important prospective and higher managerial work), the 'service relationship' is a more adequate case of 'unskilled' ('manual') work. In contrast, for work situations with efficiently handled by a 'labour contract' in which a quantity of labour is monitoring problems and low asset specificity can be adequately and specificity issues in different work situations. Work situations with low responses to the weaker or stronger presence of monitoring and asset career opportunities. continuity of employment (or at least of employability) and promotion and and better suited response; that is, a contractual exchange of a relatively high monitoring problems and high asset specificity (e.g. higher professional purchased on a piece- or time-rate basis, the most typical example being the long-term and diffuse kind in which compensation for service to the Different forms of employment relationship are conceived as viable

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occupations (lower sales, services and clerical) in the case of the labour to occur with lower technical ('skilled') occupations and routine non-manual degrees (see Erikson and Goldthorpe 1992: 43; Goldthorpe 1997: 42). service relationship and labour contract may each be actualized to different higher level technicians in terms of the service relationship. That is, the contract; and lower level professional and managerial occupations and Modified versions of these basic forms of employment regulation are likely

A third, intermediate or 'mixed' form of employment regulation, that combines elements of both the labour contract and the service relationship, is also identified by Goldthorpe. Mixed forms are especially prevalent in large, bureaucratic organizations and are typical for clerical occupations, as well as for some sales and service, technical and lower supervisory occupations, in the intermediate classes 3 and 6. Figure 1.1 (adapted from Goldthorpe 1997: 118) illustrates the assumed class-specific work situation and the contractual response for the labour contract (the working classes in 7, 8 and 9), the service relationship (the professional/managerial/higher technician classes 1 and 2) and mixed forms (classes 3 and 6). Table 1.1 outlines the ESeC classes themselves. Chapter 4 provides some analysis of how the ESeC classes actually relate to their assumed positions in Figure 1.1 (and cf. McGovern et al. 2007: 69–80).

Finally, it should be noted that the contrast between the service relationship and the labour contract is *ideal-typical*. In the real world, actual employment relations may only approximate these types. This is not only why we recognize the third ('mixed') form of intermediate employment regulation, but also why we should recognize in the actual classification 'attenuated' forms of both types (e.g. classes 2 and 8). Erikson and Goldthorpe (1992: 42) have also noted that the distinction between the service relationship and the labour contract is similar to the conventional distinctions made in several European countries. France distinguishes between *cadres* or *employés* and *ouvriers*; Germany between *Beannte* or *Angestellte* and *Arbeiter*; and the UK between *staff* and *workers*.

Specificity of human assets

Figure 1.1 Difficulty of monitoring, specificity of human assets and the ESeC classes

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Table 1.1 The European Socio-economic Classification

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	ESeC class	Соттоп term	Employment regulation
	Large employers, higher grade professional, administrative and managerial occupations	Higher salariat	Service relationship
2	Lower grade professional, administrative and managerial occupations and higher grade technician and supervisory occupations	Lower salariat	Service relationship (modified)
u	Intermediate occupations	Higher grade white-collar workers	Mixed
4	Small employer and self- employed occupations (exc. agriculture, etc.)	Petite bourgeoisie or independents	Not applicable
S	Self-employed occupations (agriculture, etc.)	Petite bourgeoisie or independents	Not applicable
6	Lower supervisory and lower technician occupations	Higher grade blue-collar workers	Mixed
7	Lower services, sales and clerical occupations	Lower grade white- collar workers	Labour contract (modified)
တ	Lower technical occupations ^a	Skilled workers	Labour contract (modified)
9	Routine occupations ^a	Semi- and non-skilled workers	Labour contract
10	Never worked and long-term unemployed	Unemployed	Not applicable

Note

Employers and the self-employed

ESeC must also separately identify categories for the other two basic class positions: employers and the self-employed. Employers need to be divided between 'large' and 'small'. The distinction here is between employers who delegate at least some managerial tasks ('large') and those who tend to undertake these tasks themselves ('small'). Similarly, owing to their different

^a If analysts wish to identify agricultural workers separately from others, classes 8 and 9 may be subdivided into 8a, 8b, 9a and 9b. In each case subclasses 8b and 9b would be for farm workers. ISCO minor groups 600 and 610–613 go to 8b. 614 and 615 could go here if analysts wished to include forestry and fishing workers in 8b. ISCO 920 and 921 form class 9b. Readers should note that in cases where we refer to minor groups ending with a zero (e.g. 600, 610, 920), this refers to the convention that this code is employed where it is not possible (either because of lack of information or because of the need to ensure respondent anonymity) to code occupation more precisely to a particular minor group.

to the self-employed. and non-professional small employers. This latter consideration also applies market and work situations, we must also distinguish between professional

The excludea

schema. The excluded comprise the long-term unemployed and those who excluded from paid employment. This category was not specified in the EGP have never worked but would wish to. The fourth basic position in the ESeC model is for those involuntarily

In the next section, these will be related to a discussion of the ESeC So we can summarize all of the above by the following brief descriptions.

The labour contract

slightly more favourable) forms for 'lower white-collar' and 'skilled' work situation which pertains for the whole working class, although its most basic between employers and employees of money (a wage) for effort. This is the form is found in the case of 'non-skilled' occupations, with modified (i.e. Labour contracts involve a relatively short-term and specific exchange

The service relationship

of contract involves a longer term and more diffuse exchange in which The service relationship, however, is typical for higher managerial, professional and senior administrative positions, with a slightly less favourable employees render service in return for both immediate and future comform in the lower levels of managerial and professional groups. This form

Mixed or intermediate forms of employment regulation

defined as intermediate in terms of employment regulation, having contracts with elements of both the service relationship and the labour contract lower supervisors (i.e. higher grade white- and blue-collar workers) are Other types of employee, for example, clerical and technical workers and

The ESeC classes described

en far as overall economic status is concerned, classes 1 and 2 are advantaged relationships, 'the classes are not consistently ordered according to some schema is designed to capture qualitative differences in employment inherent hierarchical principle' (Erikson and Goldthorpe 2002: 33). However, The model we have outlined gives us the classes shown in Table 1.1. Since the

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cf. Chapters 4 and 8, this volume). Nevertheless, we should not become of a rising income over the life course (see Goldthorpe and McKnight 2006; since they are not dependent on overtime pay and so on; and a better prospect that other mechanisms are at work which require further investigation. analyses indicate that classes do not fit the assumed hierarchy, this may signify obsessed with the idea that classes must form a hierarchical order. When being less likely to be made redundant; less short-term fluctuation of income over classes 3, 6, 7, 8 and 9 in terms of greater long-term security of income

Operationalizing the model

empirical instrument, we need an algorithm that maps occupations and and ESeC is one of socio-economic positions as defined by employment places and subsequently validate the classification (see Goldthorpe 1997). status within the matrix. Only then can we allocate people to the empty employment relations for each combination of occupation by employment derivation matrix. In turn, to create this algorithm we require data on employment statuses on to the schema's categories; that is, we need a classification is a schema, a conceptual construction. To convert it into an relations (i.e. of empty places and not of persons). It is in this sense that the We observed previously that the form taken by classifications such as EGP

The information required to operationalize the ESeC model relates to occupation, employment status and, mainly for employers, size of estabmost datasets on which researchers would be likely to want to use ESeC (see higher and lower-managers. All of this information is readily available in distinguish between large and small employers and, in some cases, between managers, supervisors and employees. Size of organization is used to variable is constructed to distinguish between employers, the self-employed, harmonized EU occupational classification. A simple employment status Chapters 2 and 3 for more detail; cf. Harrison and Rose 2006). lishment or organization. Occupations are coded to ISCO-88 (COM), the F 1001 wel 3)

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(ESeC') or with only information on occupation ('simplified ESeC'). employment status and establishment size. As we shall see in Chapters 2 and are given in the cells. Relevant SPSS syntax based on the matrix is supplied to employment relations indicators taken from UK Labour Force Survey data this position was initially determined by the average combined scores of assigned an ESeC class position. For employees, supervisors and managers 3, the classes may also be constructed in the absence of data on size ('reduced researchers so that they may then derive the classes from data on occupation, information in the columns (c). Class allocations for each r by c combination ISCO occupational groups in the rows (r) and employment status and size between classes 1 and 4. A class derivation matrix table is constructed with For employers, size of organization is the determining factor for allocations (see below and Chapter 2; cf. Rose and Pevalin (with O'Reilly) 2005; ch. 6). Each combination of occupation, employment status and size is then

The non-employed

in terms of that of the family of origin and thus the household reference them not to be included in ESeC. The class position of students is best seen employment, for example, but we do not think this very useful and prefer potentially be treated similarly if desired, by reference to part-time classified according to their last main occupation. Full-time students could such as the retired, the short-term unemployed, the sick and disabled, are long-term unemployed in class 10)) most of those not in paid employment, Harrison and Rose 2006: 18; cf. Rose and Pevalin 2003: 21-24). Those person in the family home (HRP: see Chapters 3 and 13, this volume; member for their life-chances and so (contrary to our original advice given this situation, the more they will come to depend upon another household in respect of their former main occupation. However, the longer they are in married or living as such and looking after the home could also be classified Leaving aside those we have termed the excluded (the never worked and e.g. Chapters 9 and 10, this volume). researchers must think about how they classify both the excluded and the the class of the HRP. Thus, it is possible to classify most of the adult in Harrison and Rose 2006: para 3.2), they should perhaps rather be given other non-employed in relation to the research problem being examined (see population within the ESeC (and see Chapters 3 and 13, this volume), but

Further details about operationalization are on the project website and in the ESeC User Guide (ibid.) which also explains how a household-level ESeC may be created (op. cit.: 18; see also Chapters 3 and 13, this volume; cf. Bakker and Jol 1997; Erikson 1984). We will now examine the classes in more detail and see how each is typified by a particular form of employment relationship. Example occupations are also given for each class.

The ESeC classes

Class 1: Large employers, higher grade professional, administrative and managerial occupations: 'the higher salariat'

Large employers are allocated to class 1 on the assumption that their businesses involve a similar degree and exercise of managerial authority to that of higher managers. In this sense, they are seen as different from small employers in classes 4 and 5. Nevertheless, it might still be asked why large employers are placed in the same class as higher managers and professionals rather than in a separate class. Partly it is because they are too small a group for separate analysis (less than 0.1 per cent of those in employment). Equally, the majority are not 'heroic' capitalists. Most employ fewer than 50 people. In addition, ownership and control are difficult to disentangle in larger businesses. For example, owners of companies may be formally employed as 'manager' of them. That is the distinction between being an employer and

a chief executive or a managing director is often blurred. For all these reasons, it makes social scientific as well as pragmatic sense to include large employers in class 1. Because of the ISCO size rule used in its major group 1 (see below and Chapter 2), *faute de mieux* a size rule of 1–9 and 10+ employees is used to distinguish small from large employers.

Higher grade professional occupations: Since they have both high levels of asset specificity and are difficult for the employer to monitor, these occupations are regulated through a service relationship. Examples of professional occupations which would be typical of class 1 are lawyers, medical practitioners, scientists, higher education teaching professionals and professional engineers. The self-employed and small employer higher professionals are allocated to the same class as employees in their profession; that is, we regard professional status as paramount. Professional self-employment is different in nature from non-professional self-employment. Professionals who are self-employed generally have more control over their market situations than do non-professionals. They also share more in common with employed professional occupations there is often movement into self-employment or partnership as careers progress.

Higher grade administrative and managerial occupations: Again, and for similar reasons to higher professionals, regulated via a service relationship, the most typical occupations in this part of class 1 are chief executive officers, other company directors and the most senior levels of the Civil Service or state bureaucracies. For other managerial occupations it is much more difficult operationally to distinguish higher from lower grade positions. However, ISCO Minor Group 123 ('specialist' managers) is more likely to have a preponderance of higher grade managers (e.g. finance managers).

Class 2: Lower grade professional, administrative and managerial occupations: higher grade technician and supervisory occupations: 'the lower salariat'

In the case of *lower professionals*, skills are more readily transferable and less organizationally specific. Hence they do not have the full service relationship but a modified form of it. Most educational, welfare and health professionals (e.g. schoolteachers, social workers, nurses, medical ancillaries) are thus allocated to class 2, as are aircraft pilots and journalists for other examples. The self-employed and small employer lower professionals are also allocated to class 2.

For administrators and managers (and also higher grade supervisors) asset specificity is likely to be high in the sense that people in such occupations possess an elevated degree of organization-specific knowledge. Here the modified service relationship derives from the fact that work is more routinely monitored. Of course, people working in these occupations will often have career ladders that, if successful, would take them to more senior

positions in class 1. Production and operations managers seem to be good examples. All managers in small (<10 employees) organizations are also in class 2.

Higher grade technicians are more similar to lower grade managers; that is, it is the degree of asset specificity rather than difficulty of monitoring which is paramount and leads to a modified service relationship. Examples would be computing technicians, physical and engineering science technicians and civil engineering technicians.

Class 3: Intermediate occupations: 'higher grade white-collar ("non-manual") workers'

This class contains some elements of the service relationship, although overall the form of employment relationship is mixed. The problem here for the employer is not asset specificity but monitoring. Positions in this class exist on the borders of bureaucratic structures and share similar conditions to managers and administrators in terms of being salaried, having incremental pay scales and some autonomy with regard to time. Typical occupations here include most clerical work (but see class 7) and administrative assistants, occupations which involve working alongside managers and professionals in ancillary roles. There is no career structure comparable to that found in classes 1 and 2 (other than, perhaps, into supervisory or very junior ('first line': see Hales 2005) managerial class 2 positions). Often these positions involve employees in adhering to and carrying through bureaucratically defined rules with little in the way of discretion but some emphasis on efficiency.

Classes 4 and 5: Small employers and self-employed in non-professional occupations: 'petite bourgeoisie or independents'

Small employers and the self-employed form two of the basic positions in the class schema. Employers buy labour and so have some authority and control over employees. The self-employed neither buy nor sell labour. Small employers are distinguished from large employers by the size rule 1–9 and 10+ employees. However, professional and higher technician small employers and self-employed go to the same class as employees in their occupation (classes 1 or 2). Hence class 4 refers to non-professional occupations (excluding agriculture, etc.) only. Class 5 covers the self-employed and small employers in agriculture, fisheries and forestry.

Class 6: Lower supervisory and lower technician occupations: 'higher grade blue-collar ("manual") workers'

This class, like class 3, has a mixed form of employment regulation, but in distinction from class 3, class 6 has mixed regulation because of problems employers have with asser specificity (i.e. employees in class 6 possess an

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important element of organization-specific skills, especially in terms of knowledge of organizational needs). For this reason, some facets of an internal firm labour market operate for these occupations.

Lower supervisors are found in occupations which, for employees, would place them in classes 7, 8 or 9. Again they have a certain degree of asset specificity. Lower technicians have greater organization-specific skills than other 'manual' employees. Typical occupations are telegraph and telephone line installers, precision instrument makers and electronics fitters.

Class 7: Lower services, sales and clerical occupations: 'lower grade white-collar ("non-manual") workers'

This class is regulated via a modified labour contract. The precise reasons for this situation may not be immediately apparent since, *prima facie*, it might be thought that there would be no real monitoring problems for occupations in this class, nor any great issues of asset specificity. However, this class does have raised levels of both asset specificity and monitoring problems. It is possible that the expansion of the service and retail sectors and the high amount of part-time employment in many occupations in this class has led to a worsening of overall employment contracts compared with class 3, where many of these occupations might once have been placed (e.g. retail assistants, in many countries the largest of all the ISCO occupational unit groups), but nevertheless better contracts prevail here than in class 9. Equally, for many occupations in this class there may be some positive employment relations effects of working in large organizations in the public and private sectors. Typical occupations are shop workers (retail assistants) and care workers.

Class 8: Lower technical occupations: 'skilled workers'

A modified labour contract is also typical for occupations in class 8. Here the employer has some monitoring problems with employees in terms of work quality, but asset specificity is also high. There might be a need to induce employees to invest in developing skills that are important to the employer and so to retain their services. Those working in 'skilled' or *lower technical occupations* are thus likely to have organization-specific skills and/or skills in short supply in the labour market. For all these reasons, some modifications to the basic labour contract are required. Typical occupations in class 8 would be tool makers, fitters, plumbers and locomotive drivers.

Class 9: Routine occupations: 'semi- and non-skilled workers'

In this class, a basic labour contract prevails since there are no real issues relating to either monitoring or asset specificity. Work is paid for by either the piece or by time (hourly paid). Both the quality and quantity of work are

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readily monitored and employees are easily replaced without serious loss of productive value to the employer. Having nothing beyond statutory notice periods, they are also easy to lay off. Typical occupations here include cleaners, labourers, drivers of motor vehicles, assemblers, machine operators, porters and messengers.

Class 10: Never worked and long-term unemployed: 'unemployed

This class is defined in terms of involuntary exclusion from employment relations. Thus, members of this class seek work but have either never been employed or have been unemployed for a considerable period of time (six months or more is what we recommend, although the EU uses a 12-month rule). If analysts do not wish to implement this class, then the long-term unemployed are reclassified to their last main paid job and the never worked to their household class.

The non-employed

Reiterating our earlier comments, in order to improve population coverage, ESeC treats those who are not currently in paid employment by allocating them via their *last main paid job*. Thus, for most non-employed persons (the unemployed, the retired, those on government employment or training schemes, the sick and disabled), the normal procedure is to classify them in this way. The main exceptions to this rule are those looking after the home and full-time students who are given their household class (indeed students are best excluded from ESeC); and the never worked/long-term unemployed who go to class 10 (see above).

Nine, six, five and three class models

Runciman (1990) once asked 'How many classes are there?' Not being essentialists (see below), Erikson and Goldthorpe (1992: 46) gave a nominal response to this question: 'As many as are required for the analytic purpose at hand.' ESeC follows this advice: It is an *instrument de travail* (cf. Chapter 13). Hence, as illustrated in Table 1.2, the principal 10-class model may be collapsed to nine, six, five or three classes. At each stage of collapsing, we respect the basic divisions between the three forms of employment regulation; we never collapse across these and only the three-class model eliminates a self-employed/small employer class. The nine-class model does not operationalize the never worked and long-term unemployed in class 10. In the six-class model, classes 1 and 2 are combined into a single 'salariat' class; classes 3 and 6 combine into an 'intermediate employee' class; classes 4 and 5 become a single class of 'small employers and self-employed'; classes 7, 8 and 9 remain as separate classes. To make the five-class model, classes 7, 8 and 6 in the six-class model are combined into a single class of 'lower

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Table 1.2 Collapsing ESeC from 10 to 6 to 5 to 3 class models

ESeC class	10-class version	6-class version	5-class version	3-class version
Higher salariat	<u>⊢</u>	1+2	1+2 €	1+2
Lower salariat	2			
Higher white collar	w	3+6	3+6 ~	3+4+5+6
Petite bourgeois	4	4+5	4+5 ₃	
Small farmers	Sı			
Higher grade blue collar	6	-3+6	3+6	
Lower white collar	7	7	7	7+8+9
Skilled manual	œ	8	8+9	
Semi-/non-skilled	9	9		
Unemployed	(10)	(10)	(10)	(10)

Note

technical and routine occupations'. In relation to the 10-class model, the three-class model combines classes 1 and 2 = salariat; 3, 4, 5 and 6 = intermediate; 7, 8 and 9 = working class. Class 10 may be added as an additional category in any of the models, if desired. However, note that class 10 is *not* a dump code for cases which cannot otherwise be classified.

The derivation of the ESeC model

Given the distinctions in the model between employers, the self-employed, employees and the excluded; and the further distinctions within the categories of employers (large and small, professional and non-professional), the self-employed (professional and non-professional) and employees (according to employment relations), class derivation is as given in Figure 1.2.

The validation of ESeC

Once derived using the methods described earlier, the ESeC had to be validated; that is, two crucial issues required to be demonstrated. First, it had to be shown that ESeC is an adequate measure of employment relations (as defined and discussed earlier) and that it has internally homogeneous categories, each as different as possible from one another. Second, we had to establish that ESeC adds value by offering an improved understanding of other variables (such as health, income, employment, poverty and education variables). The first issue is that of <u>criterion validation</u> and the second of <u>construct validation</u>. Construct validation would also involve other issues, such as an assessment of ESeC as a comparative measure. In addition, of course, we had to show that ESeC has <u>operational validity</u>, that, in simple operational terms, it 'works' in the sense that it can be constructed and deployed on a variety of datasets. Chapters 2 and 3 are those primarily

^a A 7-class version could be created by not combining classes 1 and 2, of course.

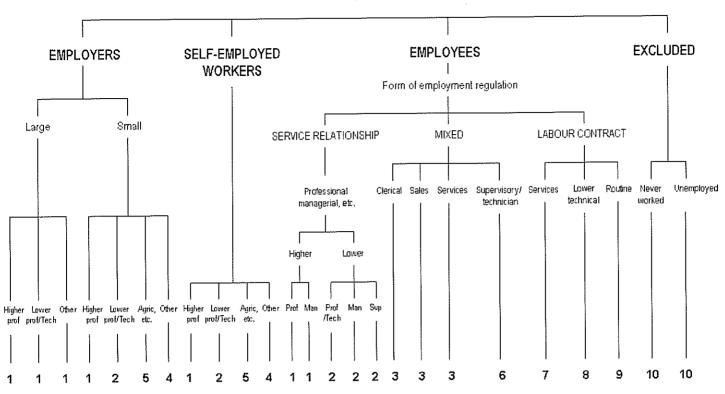


Figure 1.2 The conceptual derivation of ESeC

al. 2001: ch. 8) is a more distinct national classification that may be 'mapped' directly on to for instance, the UK, Ireland, France, the Netherlands and Germany, there majority of cases, these are based very closely on ISCO, but in a few cases, States initially code to their own national occupational classifications. In the as in subsequent chapters which use them in analysis. Individual EU Member European Social Survey (ESS), all of which are discussed in Chapter 3 as wel the Survey on Income and Living Conditions (EU-SILC), as well as in the datasets covering the European Research Area; the Labour Force Survey This is the harmonized variable that is included in the main comparative these allow (see Rose 2005). By far the most important is ISCO-88 (COM). variables and as a result can only be operationalized within the limits that As noted earlier, ESeC has to be derived from existing harmonized European ISCO through a conversion table or 'crosswalk' (see Chapter 2; cf. Rose et LFS), the European Community Household Panel (ECHP) and its successor,

and duties. As shown in Table 1.3, ISCO has four nested tiers reflected in the duties designed to be executed by one person. Jobs are then grouped into numbering of the occupational codes: occupations according to the degree of similarity in their constituent tasks level is the unit of classification, a job, which is defined as a set of tasks or ISCO organizes occupations into a hierarchical framework. At the lowest

Major groups form the top-level, broad definitions of occupation,

Sub-major groups form the second-level definition of occupation, providing the first digit of the ISCO code. providing the first two digits.

Unit groups give the most detailed definition of occupation, providing Minor groups are at the third level of definition, providing the first three the complete four-figure ISCO code

cient information for the most detailed coding at OUG level may not allow such precise coding. These and other measurement issues codes may be aggregated to comply with rules on confidentiality; crosswalks This can happen for a number of reasons: respondents may supply insuffi-In practice, datasets usually contain ISCO coded to fewer than four digits. to be achieved:

Operational validity

chapters. Further details about the three forms of validity may be found in However, again, aspects of all types of validation are touched upon in most

Rose and Pevalin (with O'Reilly) (2005: Appendix 8)

measurement issues. Construct validity is examined in Chapters 8 to 12. it. Chapters 2 and 4 to 7 are germane to criterion validity and other related

concerned with this issue, although most of the chapters are also relevant to

Table 1.3 Hierarchical structure of ISCO-88 (COM)

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in manufacturing	į			
Productions and operations managers	1222			
Production and operations managers		122		
Corporate managers			12	
managers				
Legislators, senior officials and				
111111111111111111111111111111111111111	group	group	group group	group
Unit Group title	Unit	Minor	Major Sub-major Minor	Major

why the ESeC derivation matrix uses three-digit ISCO minor groups. We 3. Here we would simply note that the ISCO coding problems are the reason shall return to the chapters relating to operational validity in the final relating to operational validity are discussed in more detail in Chapters 2 and

Criterion validation

of the ESeC, therefore, we need to know that it is a reasonably adequate what it purports to measure . . . Validity concerns the crucial relationship A measuring instrument 'is valid if it does what it is intended to do. An constructed in order for its criterion validity to be assessed.⁴ sections. There are two methods by which the ESeC could have beer index of the conceptualization of the class structure set out in previous between concept and indicator' (Carmines and Zeller 1979: 12). In the case indicator of some abstract concept is valid to the extent that it measures

and so on, i.e. explicit and implicit aspects of employment contracts as undertaken for the creation of the UK National Statistics Socio-economic specified in the previous sections. Issues of adequacy could also have been job security, career opportunities, job autonomy, occupational perquisites, analysis of aspects of employment relations such as form of remuneration, found and agreement reached. It would have entailed the measurement and with Eurostat and NSIs and then initiate, even if funding could have been a costly exercise and would have taken some considerable time to arrange cases for national analyses at the OUG level. This would clearly have been achieved only through a large survey such as the EU-LFS, yielding sufficient the level of OUG/employment status combinations. This could have been across the whole EU in which we directly measured employment relations at together according to the model of employment regulation and classes been designed to measure the extent to which occupations may be grouped Classification (NS-SEC: see Chapter 2). An exercise such as this would have The first method would have involved a special data collection exercise

applied to employment status categories. We could have investigated, for

small employers. We could also have examined whether a special employsector. This sort of exercise is feasible, as demonstrated in the UK case (see ment status category is required for part-time employees or for the public to us or the influence we had Rose 1998), but was not logistically possible within the resources available Rose and Pevalin (with O'Reilly) 2005; Rose and Pevalin 2003; O'Reilly and example, the adequacy of a size cut-off of 10 employees between large and

in fact, the method we used, as explained in subsequent chapters. guesswork than the alternative one of directly measuring employment as advice from experts in NSIs, sociology, economics and industrial official and academic data on terms and conditions of employment, as wel geneous in terms of employment relations. The best available evidence from that it is supposed to capture conceptually' (Goldthorpe 1997: 42). This was, in this way, succeeds 'in capturing empirically the differentiation of classes kind would be designed to see how far the ESeC schema, as operationalized to criterion validation using independent data. An analytic exercise of this relations. For this reason, once the matrix is created, it has to be subjected However, this method entails a greater degree of subjective judgement and relations, would then guide the actual allocation of ESeC values to the cells derivation matrix in which each cell is assumed to be internally homo-The second method would involve, first, the construction of an ESeC

employment relations would also be similar. Thus, it was reasonable to begin occupational and industrial structures across the EU, we expected that developing a comparative measure of social structure similar to ESeC, the employment relations data at the level of occupational groups, the UK NSemployment relations data. by creating an ESeC derivation matrix with cell values based on UK 13, this volume). Given the broad similarities of market economies and project which produced EGP (see Erikson and Goldthorpe 1992; cf. Chapter Comparative Analysis of Social Mobility in Industrial Societies (CASMIN) SEC. We were also able to build on previous European research aimed at already been created and validated using the first method of collecting Of course, we were fortunate in having a measure similar to ESeC that had

consortium members. These individuals were supplied with the fullest submitted to experts from across the EU Member States as well as similar exercise to that conducted by the CASMIN team. The matrix was They each supplied a report that was examined by the consortium. In they were requested to provide evidence in line with the allocation criteria flagged any allocations they thought incorrect for their state. In these cases, fallacious ones). The experts then independently examined the matrix and the correct allocation criteria in mind (rather than their own, possibly was crucial so that each expert, when examining the matrix allocations, had validation exercises that underpinned the draft ESeC derivation matrix. This possible brief about the proposed ESeC, including details of the UK How could the resulting ESeC then be validated? Here we employed a

However, subjecting ESeC to the test of independent data in order to see if it measures the concepts that underlie it in terms of employment relations was not an easy task. The exercise revealed the limitations of existing crossnational data (see Chapters 2, 3, 5 and 6).

Employment relations indicators

As the previous discussion of the conceptual model suggests, the most important indicators of the type of employment regulation contained or implied in contracts are form of payment (incremental salary against weekly wage calculated by time worked or payment by the piece), perquisites (final salary pension, private healthcare, company car, profit-related bonuses, etc., or none of these), control over working time/pace of work (whether this is determined mainly by the employer or the employee), job-security (for example, length of notice required to terminate contracts, protection against redundancy) and promotion/career opportunities (an internal organizational career ladder), i.e. the types of measure that were used to construct the UK NS-SEC (see Chapter 2; Goldthorpe 1997). However, such indicators are not readily available in either European or national datasets.

Hence, two different types of indicator were used to validate ESeC, as will be seen in Chapters 2, 4 to 6 and 13: (1) indicators that capture the weaker or stronger *presence of the basic problems* of monitoring and asset specificity; (2) indicators that relate to the assumed *response to these problems*, i.e. indicators for the assumed contractual relationship, given by a labour contract or a service relationship.⁵ Examples include:

- 1 Measuring aspects of the *autonomy* employees have in their work situation to indicate the presence of *monitoring problems* at their place of work.
- 2 Measuring the *qualifications required* from employees and the training given in order to indicate the extent of *asset specificity* immanently required for performing work tasks.
- 3 Measuring career prospects and long-term employment that are understood as core elements of the presence of a service relationship contract.
- 4 Indicators of the presence of *piece-wise* or time-related compensation of work in order to examine the presence or absence of *labour contract* elements in contractual arrangements.

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We discuss the chapters relating to criterion validity in the penultimate section.

Construct validation

Once the ESeC matrix was agreed upon, the classification could also be applied to the analysis of relevant data. Here the issue was whether ESeC adds value to the explanation of life-chances. In this respect, does it improve upon current comparative instantiations of the EGP schema? How does it compare with existing national socio-economic classifications? How useful is it for the investigation of relevant problems? These are issues of construct validation, namely: judging a concept and its measurement in terms of empirical consequences:

If the variable is intended to reflect a particular *construct*, to which attach certain *meanings*, then hypotheses can be constructed and tested based on what we understand about the construct. In other words, 'construct validity focuses on the assessment of whether a particular measure relates to other measures consistent with theoretically derived hypotheses concerning the concepts (or constructs) that are being measured'.

(Rose and Pevalin (with O'Reilly) 2005: Appendix 8)

example, health inequalities are differences between ESeC categories in on the material and symbolic advantages that derive from it. Thus, for and families depend mainly on their position in the division of labour and economic security, stability and prospects and the life-chances of individuals shape the lives, indeed the livelihoods of their occupants. That is, the social differences in health). public policy and monitoring issues (e.g. government targets for reducing therefore linking health with social organization. This is vital for a range of respect of morbidity and mortality. The study of these inequalities renders recognized. Conceptually, the ESeC is based on a well-defined sociological the social factors in the production of health outcomes more visible. We are individuals who occupy them at any particular time, but they condition and The positions defined by the ESeC categories exist independently of the delineating the structure of socio-economic positions in modern societies. proposition that employment relations and conditions are central to Hence, in all construct validation exercises, the following issues had to be

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To be sure, one may use other independent variables than an SEC to study outcomes. Examples that have been used in research include income, education level, housing tenure and other aspects of consumption (e.g. car ownership). However, as we explained previously, none of these alternatives measures the basic structuring principles of a market society in quite the way that an SEC does (and cf. Ostberg 1996; ch.1). Thus, when we pose questions about how the social structure shapes prospects, outcomes or life-chances,

separation will allow us to examine the mechanisms that link the SEC to our SEC variable should prove to be of prime importance. Hence, again, we possible consequences that the occupancy of a SEC position may give rise to need to keep the idea of what the SEC measures analytically distinct from the (e.g. income, consumption or housing: see Breen and Rottman 1995a). This

in line with a class-causal narrative. Therefore we need first to think not of statistically. We need an explicit causal or explanatory narrative formed into and most importantly, we have to think theoretically before we think a relationship might diminish or become weaker when other variables are understanding of health outcomes. On the contrary, such a finding would be to conclude that this reduces the contribution that ESeC makes to our to reduce the direct effects of ESeC position, but it would be a mistake then not have a common metric (see e.g. Breen and Goldthorpe 1999: 7). Third not to set up a 'variable race' between different independent variables that do measurement issues, i.e. are our procedures technically correct and approthis might mean. Second, we also have to think of the basic modelling and have argued, first, we accept that there may be situations where, for example, as will be discussed in detail in Chapter 10 below. As Rose and Pevalin (2000) measuring a crucial form of social relationship. relations between variables, but of social relationships; and ESeC is, precisely, into a model investigating the ESeC-health relationship may then be expected derive from class position. Introducing life-chance or deprivation measures with aspects of health; but it might also be mediated via the life-chances that position. It could certainly be argued that ESeC might have direct relations would contend that these variables are themselves conditioned by ESeC variables such as housing tenure and income as explanatory variables, we testable hypotheses about the class-health relationship. In analyses using priate to the problem? For example, we should be careful in our analyses introduced into a model. Equally, however, we need to be clear about what Take, once more, the example of the relationship between ESeC and health.

control and autonomy a person has at work are important factors in explaining heart disease (Bosma et al. 1997). The service relationship's such as diet and exercise, more choice over medical treatment and so on narratives. For example, there is growing evidence that the amounts of alternative mechanisms linking class and outcome', i.e. specifying causa and test a number of different intervening variables that would represent autonomy at work, more self-esteem, greater self-care with regard to factors top managers and professionals has components such as greater control and employment hierarchies who are most stressed (Bosma et al. 1997; Marmot which show that, contrary to popular belief, it is those at the bottom of This we have learned, for example, from the Whitehall Studies in the UK Breen and Rottman (1995a: 467) have pointed to the need to 'hypothesize 'prospective perspective' associated with secure, career employment among Thus, clear causal narratives are vital to construct validation exercises.

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attainment of a theoretically expected kind (and cf. Chapter 12). classification such as that we propose to display variations in educational et al. 1991; see also Davey-Smith et al. 1997, 1998). Similarly, Jonsson (1993) and Jonsson et al. (1996) have demonstrated the capacity of a

it should also be noted that the use of SECs in research is not simply to act different outcomes with what the ESeC and its components measure. Finally, must thus construct and test different models designed to link a range of class has its effect will vary according to what it is we wish to explain. We use SECs because they are measures designed to help us identify essential as a proxy for income where income data themselves are unavailable. We effects of ESeC position are mediated via specific intervening variables. How forms of social relations to which income is merely epiphenomenal. What we require, therefore, are multivariate analyses that show how the

The contributions to this book

retrospect and prospect. validation studies. Part IV draws conclusions regarding ESeC in both other measurement issues in relation to ESeC. Part III contains five construct issues of operational validity. Part II is concerned with criterion validity and This volume comprises four parts, Part I introduces ESeC and also deals with

we took regarding their allocations to classes. schema - managerial, supervisory and 'skilled manual' - and the decisions discuss the three most problematic groups of occupations for the ESeC manner we examine collapsed forms of ESeC (see Table 1.2). Finally, we largely within rather than across forms of employment regulation. In similar between classes as a result of lack of detailed operational information are pleasingly high correspondence between versions of the schema. Switches Using ESS data, we show the consequences for ESeC distributions and the conditions of incomplete information using its reduced and simplified forms. discuss ESeC's flexibility, concentrating on how it may be operationalized in coding and mappings from national classifications into ISCO. We then ISCO-88 (COM) and some of the problems of cross-national occupational was developed over the course of the project. There is further discussion of such, each of these chapters acts as a supplement for researchers to The ESeC forms of the classification and employ different cross-national datasets. As as the effects on ESeC distributions when we use reduced and simplified issues involved in constructing ESeC from EU harmonized variables, as well ESeC in both NS-SEC and EGP and we also relate more details of how ESeC User Guide (Harrison and Rose 2006). In Chapter 2 we trace the origins of In the remainder of Part I, Chapters 2 and 3 illustrate some of the main

set can fulfil these requirements and with what consequences for ESeC the information requirements for the creation of ESeC, how far each datawithin three major datasets: EU-LFS, ECHP and ESS. They examine in detail In Chapter 3 Davies and Elias concentrate on the application of ESeC

datasets to produce broadly similar class distributions. ESeC can be successfully implemented across the principal European missing information are also fully aired. Overall, the chapter shows that schema and again the distributional outcomes. The problems of dealing with distributions. They also discuss the allocation of the non-employed to the

There is no indication of a UK bias to ESeC. varying economic and social structures, the results are again promising countries, and thus ask whether ESeC is equally suited to countries with examination of ESeC as a measure of employment relations for different of greater advantages over other classes than EGP I. When they turn to an indicator of wage growth for women; and ESeC class 1 produces a picture results of UK employment relations data. It also performs better as an measure of employment relations, no doubt because it benefits from the outperform EGP to any significant extent, but it does appear to be a better Given their shared conceptual base, naturally one would not expect ESeC to and why. The tighter ESeC definition of class 1 is shown to be beneficial. similar class distributions of ESeC and EGP and indicate where they differ in Chapter 4 by Bihagen, Nermo and Erikson. Using ESS data, they show the its origins, as explained in this and the next chapter. This is the central issue the two compare and also whether there is an inherent UK bias to ESeC given Given that ESeC is a new instantiation of EGP, it makes sense to ask how and thus bearing on criterion validation, but also other relevant matters Part II comprises four chapters relating to the measurement of social class

matrix for each country (see Lambert et al. 2005), a point to which we return raises the issue of whether ESeC should have a different or specific derivation more optimal version for Germany. Of course, by implication Chapter 5 pronounced. Indeed, the international variant is judged to come close to the version of ESeC. The differences between the two versions are not that then compared it with the comparative, or as they term it 'international' categories of workers and a very different education system compared with institutionally distinct modes of employment relations between different study. Given that Germany is a conservative welfare state and the UK is a origins as a UK measure, but this time by using Germany as a critical case specificities? Again this question is asked against the background of ESeC's particularities in relation to employment law, practices and cultural is a good comparative measure. Can it really cope with the range of nationa and her colleagues also go further than Bihagen et al. in asking whether ESeC in the final chapter. al. created a 'German' ESeC which takes account of national specificities and liberal one, and also that Germany has a more regulated labour market, the UK, can ESeC deal equally with both situations? To test this, Wirth et Chapter 5 asks a similar set of pertinent questions concerning ESeC. Wirth

raised in Part I, namely the operationalization and measurement of supervisory status.⁶ Pollak et al. show that the proportion of supervisors identified Chapter 6 is concerned with one of the problematic measurement issues

> to the different harmonization procedures of the LFS and the ESS. They also in cross-national surveys according to the overall rules specified for as well as the extent to which different countries succeed in implementing it in different surveys depends on the wording of the relevant question asked visors, but possibly some false negatives. 2006) produces fewer false positives in terms of identifying 'true' super-ESeC recommended version (see Chapters 2 and 3; cf. Harrison and Rose izing supervisory status in surveys. This indicates that a modified form of the perform their own experiment to investigate alternative ways of operationalharmonizing measures by survey designers. They demonstrate this in relation

excursus before we discuss the French chapter in more detail. consortium, it may be helpful at this point to take a short methodological differences between the INSEE approach to SECs and that of the rest of the the INSEE group. In order to explain some of the underlying reasons for the rest of this book, Chapter 7 is something of a dissenting report on ESeC by It will not take a very perspicacious reader to notice that, in relation to the

accordance with nominal principles and as already stated, ESeC is an observations. Nevertheless, concepts are tools that must be evaluated. The way. It is with hypotheses that we should be ultimately concerned. However, others. As Goldthorpe (1990) has noted, a conceptual approach such as that neither true nor false in an empirical sense. must always be judged in terms of their empirical consequences. They are illuminating results? This is why construct validation is important. Concepts concern us? Do they allow us to pose interesting questions and obtain to ask: How well do our concepts aid the investigation of the problems that instrument de travail and should be judged accordingly. Therefore, we need best way of evaluating them is in terms of how useful they are. Thus, in we need a conceptual schema before we can hypothesize and make relevant from a hypothesis, which is a real proposition that says the world is a certain proposes that the world should be viewed in a certain way. This is different proposed for EGP and ESeC is advanced as a nominal proposition. It Social scientists are more often in dispute over conceptual issues than any

as purely instrumental (i.e. words that are merely a useful instrument of construction of SECs and the inductive forms of analysis which the French description), as we explained previously in this chapter. team offers. In contrast, we regard a term like 'socio-economic classification' Chapter 7 and leads both to the brand of methodological approach to the intrinsic or essential meaning that may be investigated. This is clear from classification', the French tendency is to assume that the term has a real, matter of convenience. For example, in referring to a 'socio-economic the essence of something rather than, as with nominalism, being simply a idealism: see Popper 1960) where a concept or definition is seen to indicate Opposed to nominalism is essentialism (alternatively known as realism or

French approach and that advocated by other authors in this book is perhaps Another important and pertinent methodological difference between the

a comparative measure such as ESeC. Emic approaches would prove to be values of a particular society in terms meaningful to actors, again someturally specific and intrinsic. It concentrates on describing the indigenous reasons already stated, we believe the latter approach is a sine qua non for representation collective, takes the emic form8 and EGP the etic one. For cf. Desrosières 1998: 264-268), itself something of a Durkheimian across a number of societies. The French national SEC, Professions et neutral and extrinsic. It applies broader theoretical models applicable thing clear from the discussion in Chapter 7. An etic approach is culturally science (see Harris 1980: 29-45; cf. Pike 1967). An emic approach is culsomething of a cul-de-sac in these terms. Catégories Socioprofessionnelles (PCS: see Desrosières and Thévenot 2002; best expressed in the distinction between emic and etic accounts in social

at the final ESeC project meeting in Bled: approach by reference to the following statement made by a French delegate Perhaps we can best encapsulate these latter differences in methodological

quality of self-classification. able to implement tests of questionnaires capable of measuring the him/herself in the classification. Through 'pilot' surveys one would be necessary to check that the proposed nomenclature of the classification will play an important role in social debate. It appears, therefore, denominations. In as much as the proposed tool has a descriptive aim it In its current version the (ESeC) classification is based on very theoretica is easily understood and that it allows each respondent to classify

(See the Report of Proceedings: 14, emphasis added)⁹

evaluate. For example, the cluster analysis of the many soi disant 'employchapter is not transparent and so the main arguments are often difficult to employment conditions in general rather than contractual relations. describe employment relations suggests that the French team have examined specific aspects of work conditions. Indeed, the use of 68 variables to schema could deliver, such as capturing and being responsive to dozens of treated, how the analysis was done, what the results are and how they can they relate to the different employment relations dimensions, how they were ment relations' items is difficult to follow. Precisely what the items are, how ESeC against claims that have never been made for it and that no class be interpreted are all rather opaque. In its critical tone the chapter also judges however; there are also other aspects of Chapter 7 that concern us. First, the French team's approach to classification in general and ESeC in particular, Chapter 7. Not only do we disagree with the methodological focus of the All of these considerations need to be borne in mind when reading

and especially Chapter 6 make clear, depends on the form of supervisory for those with supervisory status. This is an old issue and, as Chapters 2, 3 Second, much is also made of the supposed high mobility rates observed

The European Socio-economic Classification: a prolegomenon 33

to supervisors, as Drexel et al. (2003: 5) have noted: eliminated. There may, however, be some French particularities with regard of supervisors in strategic decision-making is being enhanced rather than be becoming more complex, but there is cross-national evidence that the role Drexel et al. 2003; Mason 2000; Gallie et al. 1998: ch. 3). Supervision may other evidence that casts doubt on this position (see e.g. Hales, 2000, 2005; combination of the post-industrial and management theories, but there is decades (see Rose et al. 1987: 7-9). The French team appears to offer a industrial and Marxist theorists (as well as many management gurus) for 'death of supervisors' argument which has been promulgated by both postbut also whether it still exists in reality. This, of course, is a variation on the supervision as envisaged in the EGP/ESeC approach is any longer significant, canard. Referring to French research, Brousse et al. ask not only whether supervision still exists tout court is beginning to become something of a them into account. Similarly, the doubts they raise about the extent to which validation studies relating to supervision, they do not appear to have taken question asked. Although the French team saw all the findings from the other

and the more numerous career opportunities for workers, emanating technicians offer and the reduced recruitment capacities of companies; between the opportunities the rapidly growing supply of highly qualified industrial supervisor) and the qualification level of higher technicians, between the pay band of the maîtrise (the French equivalent to the higher technicians as industrial supervisors; a tormal correspondence from the greater role medium-level positions play in contrast to other laid down in the collective agreements; the necessity to create a balance The French situation is characterized by the customary employment of

al. have noted (1987: 22): always be with us, no matter how difficult it may be to measure. As Rose et Regardless, there are good grounds for believing that supervision will

necessity rather than an historical anachronism. employees share in a predominantly pecuniary orientation to work. So the majority of employees. Most routine manual and nonmanual relations of production fail to induce great enthusiasm for labour among Industrial sociologists demonstrate repeatedly that capitalist social long as this is the case then first-line supervisors will remain a functiona

at any one time. 10 Moreover, claims that the ESeC might be undermined their failure to separate class positions from the individuals that occupy them patterns revealed in the French analyses, there are problems that arise from by such findings as the amount of 'mobility' between classes 7 and 9 for Finally, even when it comes to the discussion of the social mobility

usefully recall that Weber (1920/1968a: 302) once defined social classes in employment relationship, is what we would expect. 11 In this context, we can any other similar movements which are between classes but within forms of welfare sectors. Equally, the pattern of mobility between classes 1 and 2, or casualized and more likely to work for large organizations in the health and class 7 have a modified labour contract, predominantly because they are less and no doubt there is much exchange between them. However, carers in normal. They are very similar occupations, both are in the working class, misunderstanding. This is hardly a world-shattering result; indeed, it is occupations such as carers and domestic cleaners show a fundamental mobility is easy and typical'. terms of clusters of 'class situations within which individual and generational

respect of a range of outcome variables in theoretically predicted ways discussions by Goldthorpe (2007c passim); Goldthorpe and McKnight unemployment risks, and educational attainment. More details on the link hve issues respectively: wage growth, poverty and deprivation, health, appeal of social class schemas is their ability to structure and discriminate in Erikson and Goldthorpe (2002); and Breen and Rottman (1995b). (2006); Rose and Pevalin (with O'Reilly) (2005); Rose and Pevalin 2003. between the conceptual model and life-chances may be found in the relevant (cf. Lareau and Conley 2008). In this volume, Chapters 8 to 12 focus on We now turn to the chapters in Part III. One element of the enduring

construct validity tests of a class schema must show that, Recalling the underlying concept of employment relations, inter alia

economic futures that together condition both their life chances and both income and employment and differing expectations as to their sources and levels of income, also have differing degrees of stability of membership of the classes it distinguishes, as well as having differing many aspects of their attitudes and patterns of action.

(Goldthorpe 2000: 1578-1579)

deprivation, Chapter 11 with stability and security of employment, and national and cross-national contexts. Chapter 8 deals with stability of Chapters 8 to 12 tackle these and related issues in varying and critical security, economic stability, economic prospects and their consequences. both of which have strong relationships with livelihood, of course. Chapters 10 and 12 with life-chances in relation to health and education, income, Chapter 9 with stability and prospects in respect of poverty and In other words, class positions should discriminate in terms of economic

stability (see Goldthorpe and McKnight 2006: 116-121). They discuss the schema) clusters occupations and the outcomes in relation to an analysis of relative success with which ESeC (but also EGP and SEI, the Swedish class between class and income, i.e. the link between class position and economic In Chapter 8, Bihagen and Nermo provide a direct test of the relationship

> are very similar, but that the latter is to be preferred because it is more wage growth. They conclude that the predictive powers of EGP and ESeC flexible and user-friendly, as well as having a better defined higher salariat

cross-national variations. employed and small employers has an impact, too, including in terms of effects, equally its employment status element in relation to the selfhypothesized. While the hierarchical aspects of ESeC do have expected relation to the problem at hand before analysing data, again an issue we unemployment is an important factor affecting their dependent variables. analysis and they reserve ESeC class 10 for the never worked only, since previously. Both individual and household measures of ESeC are used in advantage of the hierarchical component of the ESeC schema referred to income to occasional episodes of poverty and deprivation and then to poverty and deprivation. In particular they wish to explore the sustained than income and does vary in its effects in the manner the authors had Chapter 9, class is shown to be more strongly related to lifestyle deprivation raised in an earlier section of this chapter. Summarizing the findings in Here we see an example of the importance of thinking about the schema in persistent poverty than to persistent deprivation. In their analyses they take persistent forms. They also expect class to be more strongly related to that class will become ever more important as attention moves from low impact of class position as revealed by panel data. Their main hypothesis is data to investigate the constraints and opportunities of class in relation to prospects (see Goldthorpe and McKnight 2006: 121-129). They use ECHP In Chapter 9, Watson, Whelan and Maître examine economic stability and

application too, of course, and we commend them (see Chapter 13). concerning what is required of a measure such as ESeC and how it may best be used by health researchers. These observations have a more general ESeC in terms of cross-national and national research on health inequalities particularly strong appeal with health researchers). They note the general hold measures and ESeC's hierarchical component (hierarchy having a NS-SEC validation: see Cooper and Arber 2003): self-assessed health. in relation to a key health inequality measure (and one also used in the (cf. Krieger et al. 2005). They also make extremely useful comments lack of class measures in EU countries, and thus the potential advantages of Like Watson and her colleagues, they too use both individual and house-In Chapter 10, Kunst and Roskam, again using ECHP data, look at ESeC

relationship. They conclude that ESeC performs in a manner which health reduce the effect of class on health, they by no means eliminate the introduce income and education measures as controls. While these measures researchers will find useful. Fundamental relationships between class and Southern countries are observed for women. Kunst and Roskam also in all 11 countries considered, but different patterns between Northern and Their results show a strong relationship between class and health for mer on the individualization thesis (see Beck and Beck-Gernsheim 2002). analysis. Lucchini and Schizzerotto also suggest that their results cast doubt working classes (7, 8 and 9). The hypothesis is broadly confirmed by the to the service classes (1 and 2), the intermediate classes (3 and 6) and the monotonically as attention moves from the self-employed (classes 4 and 5), ECHP data, they examine the hypothesis that unemployment risk increases macro-economic variables affecting unemployment. Using eight waves of of labour market regulation and welfare state regimes, the most significant relationships hold across countries with very different economies, patterns schema. In similar vein to Chapters 4 and 5, Chapter 11 asks whether such and unemployment, just as Gallie et al. (1998) had previously using the EGP SEC, Elias and McKnight (2003) found a strong relationship between class in which class positions affect economic security. In the validation of the NSobserved, the risks of job loss and unemployment are the most obvious ways unemployment risks. As Goldthorpe and McKnight (2006: 113) have In Chapter 11, Lucchini and Schizzerotto consider ESeC in relation to

study the relationship between class and educational inequality. They ask our earlier comments concerning Chapter 10, this suggests that ESeC may are encouraging. Employing data from five waves of the Italian Household whether ESeC can reproduce results that are consistent with what is known might be: an improved operationalization of the underlying employment well be suited to the Southern European case (and cf. Ballarino et al. 2008) case as well as confirming what is generally known for other countries. Giver Panel (ILFI), they conclude from their analyses that ESeC does succeed in results previously found when using the latter. In both respects, their findings between ESeC and EGP by inquiring whether the former can replicate the relations model. In addition, they suggest that ESeC may be better suited Moreover, they find ESeC superior to EGP and indicate why they think this identifying features of educational inequality that are unique to the Italian for Italy, but also, as in Chapter 4, concentration focuses on a comparison than EGP to the situation of post-industrial societies. Chapter 12, by Barone, Schizzerotto and Barone, uses the Italian case to

Conclusions

In this chapter we have discussed the purpose and importance of SECs, their policy and social scientific uses. We have discussed why an ESeC is needed and why it is essential that it has a clear conceptual basis. We have explained the employment relations approach and the associated class theory. We have described the prototype ESeC schema and shown how it is

derived. We have also dealt with the central validation issues that are the concern of subsequent contributions to this volume. Many more details may be found on the project website.

Of course, ideally, additional research should be undertaken before we can be completely confident that we have the best possible categorial SEC for the EU context. In particular we would wish to conduct further criterion and construct validity analyses for Southern, Central and Eastern EU Member States. We shall also have to re-base the classification on the new version of ISCO, ISCO-08. Moreover, we could pursue further analysis on the second level of ESeC, 'socio-economic groups', which separately identify the component elements of each class so that analysts may look within the classes as well as between them. All of these matters are discussed further in Chapter 13. Now, however, in Chapters 2 and 3, we turn to a more detailed assessment of operational validity.

Notes

1 In fairness, we should note that the French team would not agree with this definition of an SEC, as is apparent from some of their comments in Chapter 7. We shall return to this matter when we discuss the other chapters in this book.

The article by Krieger *et al.* is particularly interesting since it successfully adapts the UK NS-SEC to analyse health disparities in the USA and shows how it provides 'a better gauge of access to health services and socioeconomic characteristics than the conventional U.S. occupational classifications based on status and skill' (2005: 227). This also demonstrates the facility with which an etic approach (see below), such as provided by the EGP family of class schemas, 'travels' (cf. Goldthorpe 2007a: 122–124).

3 Using data from the survey Working in Britain in the Year 2000 (WiB), McGovern et al. provide a direct test of the version of the EGP schema as implemented in the UK NS-SEC. They employed 12 items from WiB to measure difficulty of monitoring work and five items measuring asset specificity to produce an empirically generated class map to compare with the schema set out in Figure 1.1. Scores were obtained for each NS-SEC category on the two dimensions of the EGP model from regressions in which membership of a category was predicted by their monitoring difficulty and asset specificity indicators. This produced scale scores that indicate distances between the NS-SEC groups. Modestly, the authors claim an 'encouraging' result for supporters of the EGP approach. In fact, it is more than that. Not only was the model in large part empirically confirmed, in the sense that monitoring difficulty and asset specificity were positively correlated in the manner suggested by Figure 1.1, but a stepwise structure emerged between NS-SEC groups (2007: 78, fig. 3.2). As the authors express it:

In short, the model of the class structure . . . is somewhat like a green stick: it bends at particular points but is still continuous. Occupational groups are differentiated first according to one principal (*sic*) and then according to another. Groups similar in terms of monitoring difficulty are differentiated by their degree of human asset specificity; and those with the same level of human asset specificity are differentiated in terms of monitoring difficulty. Some occupations seem to belong to one group in terms of one criteria and a second according to the other. There is nothing 'contradictory' about this;

it is a natural outcome of employers finding it rational to offer different contractual conditions to groups who differ along one or more 'problem' dimensions.

(McGovern et al. 2007: 79)

Chapter 4 contains a similar analysis, but one constrained to use more indirect indicators of the model's dimensions than those available to McGovern *et al.*, as indicated in our discussion of criterion validity below.

- 4 A third method, proposed by the French team and discussed in Chapter 7, was rejected by the rest of the consortium for reasons we have already alluded to (a disinclination towards inductively derived, synthetic measures).
- 5 For a succinct discussion of some of the problems with proxy measures of employment relations, see Goldthorpe (2005a) in response to Erikson (2005a).
- For a discussion of the importance and problems of the measurement of supervisory status in relation to both official statistics and class schemas, see Rose et al. (1987).
- 7 Some of the differences in approach between the French team and the other consortium members are illustrated by an exchange available on the project website: http://www.iser.essex.ac.uk/research/esec/events/validation-conference-validation-conference-supplementary (accessed 10 March 2009). For further insights into the French approach see Desrosières (1991, esp. pp. 206–209).
- As Maloutas (2007: 445) has observed, the PCS are

tightly linked to the local socio-political context, which attributes particular importance to collective bargaining in determining occupational status. (For instance, under the CSP (sic), menial jobs in the public sector have a relatively upgraded status due to the increased power of collective bargaining.) Furthermore, their main categories are widely used in the media and everyday life. This means they are the major scheme through which French society shapes its own class avareness.

Again, this helps to illustrate differences between the French team and the rest of the consortium as revealed in Chapter 7 and also in the documents referred to in both the previous note and the following one. For an extended comparative and historical discussion of British, American and French traditions in social classification, see Szreter (1993).

- 9 Indeed, this whole section of the *Report of Proceedings* of the ESeC Conference held at Bled further illuminates the French position (see pp. 12–14 of http://esec.esec.events/nsi-conference). For an attempt by INSEE to discover whether people are able to classify themselves to ESeC see: "(section 4)">http://circa.europa.eu/Public/irc/dsis/ssd/library?l=/task_force_esec/2007_interim_reports&vm=compact&csb=Title>"(section 4)">http://circa.europa.eu/Public/irc/dsis/ssd/library?l=/task_force_esec/2007_interim_reports&vm=compact&csb=Title>"(section 4)">http://esection 4). Both sites accessed 10 March 2009.
- 10 In addition, there are well-known occupational measurement errors (see Chapter 3) which can be compounded in longitudinal surveys and which *might* explain some of the French mobility results. Respondents may describe the same occupation in different ways at different waves, leading to a change of occupational coding. Equally, different coders at each wave may code the same occupation in alternative ways. Whether the French team took these possibilities into account we cannot be certain; so much in their chapter remains opaque.
- 1 See Constructing ESeC: A Paper from INSEE and a Response from the Consortium: http://www.iser.essex.ac.uk/research/esec/events/validation-conference-supplementary (accessed 10 March 2009).

ch 12). Not being inhibited in this way in the EU context, this group of

2 From derivation to validation

Evidence from the UK and beyond

Eric Harrison and David Rose

This chapter examines a series of issues relating to the operational and criterion validity of the ESeC classification. The first section discusses the derivation of the ESeC and its roots in the UK's NS-SEC. The second and third sections deal with the processes involved in adapting a nationally based classification to produce a comparative instrument based on an international harmonized framework of occupational measurement, ISCO-88 (COM). In the fourth section we offer some illustrations of how the schema holds up at different levels of data quality and precision. The final section focuses on three groups within the occupational structure, namely managers, supervisors and skilled workers, which were considered problematic in the construction of the classification and discusses how these problems were investigated and resolved.

From EGP to NS-SEC to ESeC

SEC rather than being created as a separate class (see Rose and Pevalin 2003. was constrained to become part of class 6 (semi-routine occupations) in NS and combines the semi- and non-skilled in class 9. In addition, EGP class IIIb arate classes. Being unconstrained in this way, ESeC reverts to EGP practice skilled occupations, which EGP combines in its class VII, be placed in septime-series that depended on them. This necessitated the semi- and non-NS-SEC was constrained by the need for sufficient 'backwards compara-Social Class) and socio-economic groups (SEGs). The development of the SECs: social class based on occupation (RGSC, formerly Registrar General's required some departures from EGP. NS-SEC replaced two UK government SEC. Both ESeC and the NS-SEC are new instantiations of the EGP schema. (a largely feminized class of lower services, sales and clerical occupations bility' with the previous SECs to ensure the integrity of the many national However, the NS-SEC was created under particular conditions which the EGP (Erikson-Goldthorpe-Portocarero) class schema and the UK's NSit is important to know something about its origins in, and relation to, both In order to understand how and why the ESeC schema takes the form it does.