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Integrating Welfare and Production Typologies: How Refinements of the Varieties of Capitalism Approach call for a Combination of Welfare Typologies

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Integrating Welfare and Production Typologies: How Refinements of the Varieties of Capitalism Approach call for a Combination of Welfare Typologies

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Abstract

This article argues that existing typologies on production and welfare regimes should be combined into a typology unifying the study of production and distribution in advanced capitalist countries. The article utilises a principal component and cluster analysis to show that such a typology indeed reflects the empirical diversity of countries. This is further illustrated by a brief literature review of different typologies. It is then shown how the integration of the two approaches helps to resolve problems addressed in the new literature on the varieties of capitalism approach, notably how welfare arrangements relate to production systems. Thereby, the relevance of an integrated typology for policy-makers in the fields of welfare and production will be illustrated. Lastly, some thoughts follow on how an integrated typology allows for a perspective that explains the development of various welfare and production regimes based on the common historical heritage of families of nations.

Introduction

Typologies of capitalist diversity have advanced well beyond classification to a focus on identifying causal connections. Analysing welfare and production regimes together suggests that it is possible and useful to combine theories of capitalist diversity. Specifically, a combination of the typologies by varieties of capitalism (Hall, 2006, 2007; Hall and Soskice, 2001b; Soskice, 2007) and by Esping-Andersen's (1990, 1999) welfare typology appears to be theoretically promising. This claim will be supported by statistical evidence and an assessment of existing typologies (Amable, 2003; Boyer, 2004a, 2004b, 2004c), in which their different angles of analysis and their surprising degree of overlap in delineating 'families of nations' is highlighted. Not only is the argument made that we should integrate different typological approaches to get a full understanding of capitalist diversity in terms of arrangements for production *and* welfare distribution, but I also argue that the varieties of capitalism approach can benefit from explanations about the emergence of different welfare regimes

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and vice versa. In short, integrating insights from welfare typologies into the framework of varieties of capitalism suggests important questions concerning the shared common heritage of capitalist countries: a factor lately cited as key to understanding varieties of capitalism (Becker, 2007; Hancké *et al.*, 2007). In turn, integrating insights from varieties of capitalism into welfare typologies can thus help us to understand the cultural framework in which welfare arrangements are operating. This is not to say that we should stop using typologies centred on isolated aspects of capitalism, such as welfare or production regimes. If singular aspects of capitalist countries are to be analysed for their own sake, and in an isolated way, then the typologies we already possess are sufficient. However, if we want to understand capitalist diversity from a macro-historical perspective, then it is fruitful to integrate typologies along the lines that will be proposed here.

I will first show in what way varieties of capitalism (VOC) and Esping-Andersen's welfare state research (WSR) differ in their epistemological approach. That the integration of VOC and WSR is empirically justified will be shown in the section that follows. The article then highlights the ways in which some of the most important typologies can be combined. In the last section, I discuss the benefit of such a synthesis for the study of advanced economies, by hinting at hypotheses that a combination of the two approaches would allow for.

VOC and WSR - commonalities and differences

The most recent version of the varieties of capitalism approach, developed by Hall and Soskice (Hall, 2006, 2007; Hall and Soskice, 2001a, 2001b; Soskice, 2007), analyses how production takes place in two diametrically opposed institutional settings. The typology is essentially rooted in a functionalistic explanation of institutions: they are upheld as long as they support competitive advantage. By analysing the institutional fields of industrial relations, vocational training, corporate governance, corporate financing, inter-firm relations and relations of firms with employees, the authors establish a dualistic classification of ideal-typical production systems, which they name 'coordinated' and 'liberal' market economies. Whereas the allocative efficiency of the market is the all-pervasive advantage of the liberal regime type, the capacity to coordinate production strategically is the advantage of coordinated market economies.

Esping-Andersen's typology of welfare states (1990, 1999; but also see Scharpf, 1999; Scharpf and Schmidt, 2000a, 2000b) captures capitalist diversity from a very different angle, namely seeking to understand 'under what conditions the class divisions and social inequalities produced under capitalism can be undone by parliamentary democracy' (Esping-Andersen, 1990: 11). Consequently, Esping-Andersen's account of capitalist diversity relies not on functionalism but on a perspective rooted in class conflicts, with the key question centred on the manner in which various coalitions involving the working class led to the development of

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different welfare states (Esping-Andersen, 1990: 18). In Scandinavia, the working class was able to form a coalition with small, capital-intensive and politically well-organised farmers and then take the middle class on board by providing high-quality social services and public jobs. In Great Britain, where the middle classes could largely care for themselves on the market, the welfare state became residual in that it cared only for the poor. In continental Europe, labour-intensive large-scale farmers were already in a coalition with the conservatives to isolate the labour movement. The middle classes were tied to the state by a stateadministered system of welfare benefits that functioned as insurance against social risks. So Esping-Andersen not only uses different variables and causal mechanisms than VOC, he also performs his analysis to distinguish welfare regimes with different indicators. Countries with social programmes providing high population coverage and homogeneity of benefits at a high level are seen as 'social democratic' welfare states. Those with the highest scores on private contribution to health and retirement schemes as well as the highest degree of means-tested welfare programmes are seen as 'liberal' welfare states. Countries with a 'conservative' welfare state score highest on segmentation of welfare programmes along occupational status lines. Esping-Andersen has somewhat refined and rearranged these classifications in later works, but the basic concept has remained the same (cf. 1990: 69-77 as opposed to 1999).²

Whereas VOC wants to understand how firms deal with institutional environments that vary between production systems of different countries, Esping-Andersen analyses modes according to which welfare is distributed based on rights and duties of individuals vis-à-vis the state. Importantly, though, both typologies arrive at very similar country groupings, since 'virtually all liberal market economies are accompanied by "liberal" welfare states' (Hall and Soskice, 2001a: 50) and all coordinated market economies are accompanied by either a social democratic or a conservative welfare arrangement.³ These two typologies are the point of departure for the idea that I now wish to elaborate on.

To what extent can VOC and WSR be integrated?

Yet before any attempt to integrate Hall and Soskice's VOC and Esping-Andersen's WSR typologies can be made, we need to be sure that countries indeed group in families when their welfare and production regimes are analysed together. Why, in short, is it justified to speak of 'families of nations' at all? After all, there is a vast literature which argues against families of countries as the basis of typologies, be it because national arrangements are said to erode in the face of international homogenisation (Cerny, 1997; Cerny et al., 2005; Deeg and Jackson, 2007: 154ff.), or because every country is argued to be a unique case (Crouch, 2005a, 2005b; Kasza, 2002), or because families of nations are different from what WSR or VOC propose (Deeg and Jackson, 2006; Ferrera, 1996; Leibfried, 1992; Lessenich, 1994).

To illustrate that, in spite of these criticisms, empirical evidence suggests that it nonetheless makes sense to use typologies (and in this case to combine them), I will analyse indicators that reflect the welfare and production system of different countries. The indicators, which are shown in Tables 1 and 2, reflect the structure of labour markets (for example, participation rates, specialisation of the labour force, rigidity of labour market regulations), the financial system (for example, protection of investors, importance of the stock market, importance of bank credit), income distributions (Gini coefficient, comparison of the richest 10 per cent of the population to the poorest), industrial relations (for example, power of union and employer associations, coverage and strength of collective bargaining) and the form of the welfare state (for example, wage replacement rates, welfare expenditures). These are the main variables on which typologies of production and welfare regimes are based (cf. the indicators used in Esping-Andersen, 1990, 1999; Hall and Gingerich, 2004; Hall and Soskice, 2001a). It now remains to be seen if these indicators are systematically more similar between certain countries. It is conceivable, for example, that most countries with a strong union movement also have a more extensive welfare state and more organised wage bargaining. If this is the case, many of the variables will correlate.

I will now test this claim using a principal component analysis:⁴ a statistical data reduction tool used to develop condensed dimensions on the basis of the relational structure of a set of observed variables (for more details on this method, cf. Dunteman, 1989; Jolliffe, 2002). If variables in the dataset do indeed correlate, a first factor will emerge that correlates with many of the variables. The remaining variables can then be loaded on a second factor, with each additional factor explaining somewhat less of the dataset. Thus, a principal component analysis necessarily has to make a compromise between parsimony (explaining many variables with few components) and accuracy (explaining as much of the variance within the dataset as possible). A 'scree plot' illustrates how each additional factor explains less variance than the preceding one. The sharp fall after the fourth factor in the scree plot (see Figure 1) suggests that four factors should be used for the analysis, as the use of more factors adds little accuracy while causing a sharp decrease in parsimony. The first of the four factors shows that organised industrial relations, a strong welfare state and evenly distributed income go together. The second factor displays indicators of the labour market and the power of left parties. The third factor is charged with indicators of the financial system, while the fourth factor mainly takes up variables of the health system. The four factors together explain 71 per cent of the variance within the dataset.

In the next step, these factors are subjected to a hierarchical cluster analysis that checks whether some of the countries systematically have values that are close to each other. After having calculated a hierarchical cluster analysis on these factors, I plotted its results in a so-called dendogram (see Figure 2).⁵ Expressing

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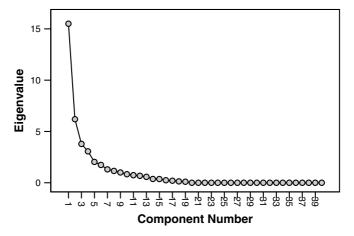


Figure 1. Scree plot for factor loadings.

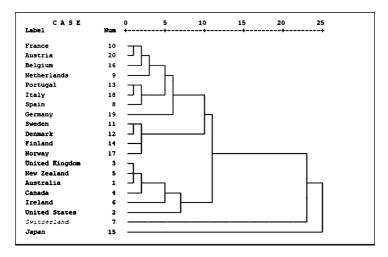


Figure 2. Dendogram of hierarchical cluster analysis.

the proximity of the factors graphically gives a visual measure of whether and to what degree countries can be grouped in families of nations.

We can see that, judging from a quantitative analysis of empirical indicators that reflect countries' welfare and production regimes, some countries are closer to each other than others. Based on this method, we can state that some countries' welfare and production regimes combined are remarkably similar within certain families of nations. The way that countries group into distinct families of nations confirms the original typologies by Esping-Andersen and Hall and Soskice; it also suggests that the two typologies show potential for being combined. On the one side, we can see Esping-Andersen's familiar clustering of countries in an

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Anglo-American, Scandinavian and continental European variety, whereas Switzerland and Japan do not belong to any specific group. We also see that the group of Scandinavian countries stand, together with the group of Continental European countries, against the Anglo-American ones, which reflects the distinction by Hall and Soskice (2001b) between coordinated and liberal market economies.

Nevertheless, caution has to be exercised in this sort of empirical undertaking. First, the data used are somewhat historical and might not reflect newest developments. Also, using slightly different variables and methods of calculation for the factor analysis, the Mediterranean countries and Finland end up in separate subgroups. Other potential outliers are Norway, Ireland and Great Britain. However, there are also a number of recurring groupings that are relatively robust, even when adding or leaving out individual indicators and altering the methods of calculating the components and clusters. This provides evidence that differences between and similarities within regimes are somewhat robust. Thus, the existence of a distinct Anglo-American cluster was usually confirmed. In addition, a further stable result is that Switzerland and Japan usually formed separate clusters. Overall, the continental European cluster was most often the one that could be divided into subgroups, which is interesting, because, as we will see later, this is what is usually done by different typologies on capitalist diversity.

The foregoing analysis is not at odds with Crouch's (2005a) claim that every country is to a certain degree unique in its socio-economic configuration, a claim that has also been validated by case studies of single countries (Crouch and Streeck, 1997; Scharpf and Schmidt, 2000a, 2000b). Also, the results corroborate Crouch's forceful critique against the VOC approach, that one should not conflate ideal typical models with national cases (cf. Becker, 2007: 265). Yet the approach adopted here allows us to argue that some countries, when analysed quantitatively, are more similar than others and that these cases group in families of nations that are similar to those proposed by both typologies of production and welfare arrangements. However, given the limitations of the empirical analysis performed above, the next section advances a similar argument based on the literature on capitalist diversity.

Typologies and their congruence

Apart from the typologies based on modes of distribution of welfare from Esping-Andersen (1990, 1999) and based on production from Hall and Soskice (Hall, 2006, 2007; Hall and Soskice, 2001a; Soskice, 2007), there are a number of typologies on capitalist diversity that use different approaches, yet come to similar conclusions: notably that of Robert Boyer (2004a, 2004b, 2004c), which is rooted in the tradition of the 'regulation theory', and that of Bruno Amable (2003), who utilises an empirical approach like the one used above, yet in a much

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more comprehensive way. I will briefly outline these here, to show to what extent they would support the proposed integration of VOC and WSR.6

Robert Boyer (2004a, 2004b, 2004c), arguably the most prominent proponent of the French 'regulation school', proposes a typology based on different regulation regimes that come along with historically different 'growth trajectories' of countries. Following the tradition of the regulation school, Boyer sees capitalism as inherently unstable and analyses institutions that deal with this instability. Boyer's typology is based on five institutional domains: the wage-labour nexus, forms of competition, the monetary regime, state-economy relations and international trade embeddedness (Boyer, 2004a: 13, 21). With these aspects, partly similar to those of VOC and WSR, Boyer arrives at a typology that relies on four regime types. Apart from a market-based capitalism, Boyer not only sees a social democratic alternative, but also a state-coordinated continental European form of capitalism and an Asian 'meso-corporatist' variety.

Amable (2003) takes yet another approach to map out capitalist diversity, building a typology based on a quantitative assessment using a principal component and cluster analysis of five institutional domains. The domains examined are product market competition, the wage-labour nexus and labour market institutions, the financial sector and corporate governance, social protection and the welfare state, and the education sector (Amable, 2003: 14). Using multiple indicators in each domain, Amable performs an analysis separately for each domain, employing the same method as used in the foregoing section in a more elaborate form. What distinguishes Amable's analysis from other approaches is that he refrains from forming any country groupings ad hoc or on theoretical grounds; he instead performs his statistical analysis with an open outcome and then builds his families of nations on it. Thus, what he does is the opposite of what Hall and Soskice do by conflating countries to ideal types and aligning all other countries on a scale between these two types (cf. this critique Crouch, 2005b). Nonetheless, the analysis largely reproduces the outcome of existing typologies, but with a greater degree of precision as seen in the addition of types similar to the ones that Boyer proposed and an additional Mediterranean variety of capitalism, which has also been proposed by scholars of welfare state research as a possible extension of Esping-Andersen's typology (Ferrera, 1996; Leibfried, 1992; Lessenich, 1994).

The common picture behind different typologies

To sum up, Hall and Soskice's perspective on VOC highlights two ideal-typical ways to organise capitalist production, which has implications for competitiveness in certain sectors. Esping-Andersen instead stresses that the distribution of social rights follows at least three distinct patterns. Boyer highlights how countries, understood as accumulation regimes, use a variety of regulatory institutions to deal with the instability of capitalism, leading to four regime types. Amable

instead performs a strictly quantitative and open outcome analysis with a wide range of statistical indicators. The crucial point is that even though all these approaches analyse capitalist diversity from a distinct angle, they nonetheless arrive at broadly similar classifications of countries, which are compatible to the welfare typology proposed by Esping-Andersen. This is the crucial point that should be highlighted here.

To the degree that they have analysed them, all authors see the United States, the United Kingdom, New Zealand, Australia, Ireland and Canada as pertaining to a liberal or market-based regime. The only difference between the typologies is how many other regimes are distinguished from this. The most parsimonious classification is that of VOC, which takes Austria, Germany, Belgium, the Netherlands, Switzerland, Sweden, Denmark, Norway, Finland and Japan and labels these coordinated market economies. Esping-Andersen's (1999) typology then splits Sweden, Denmark, Norway and Finland out of the group of coordinated market economies and calls these the social democratic regimes, whereas other countries of the group of coordinated market economies and some of the ambiguous cases in VOC are seen as conservative welfare states. However, Esping-Andersen (cf. 1999) is not certain about where to place the Netherlands and Japan. Taking Japan out of the group of coordinated conservative countries yields Boyer's (2004a) typology, with an additional variety that he labels meso-corporatist, essentially establishing a new model for Japan. The remaining countries (the group of conservative or coordinated market economies) are subsumed under the label of 'state capitalism' in his typology. However, Boyer sees Norway as partially belonging to the liberal cluster. Amable (2003) then simply adds a (fifth) Mediterranean capitalism by splitting Spain, Italy, Portugal and Greece out of the model of state capitalism, and distinguishes these countries from continental European capitalism, but also mentions that Switzerland as well as Norway might require a sixth type of capitalism (2003: 172). This might sound quite complicated, yet the ensuing scheme is as simple as Figure 3 portrays.

Therefore, even though different typologies propose a varying number of families of nations, based on different approaches to analyse capitalist diversity, the outcomes are 'nested' within each other, related like the famous Russian matryoshka dolls. In this sense, if the category of coordinated market economies is opened, we find in it countries that have this form of production system flanked by conservative or social democratic welfare arrangements. Again, this is not to argue that conservative and social democratic welfare states are the same. It also does not imply that, for example, there is no difference between state capitalism and meso-corporatist capitalism, only because both are seen to have a conservative welfare state and are coordinated market economies. Instead, the foregoing analysis suggests that integrating VOC with a perspective based on welfare regimes is a fruitful enterprise for the reasons given below.

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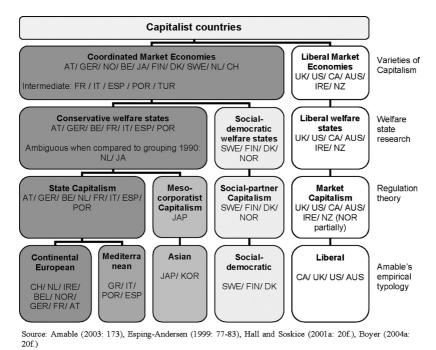


Figure 3. Typologies and their congruence.

The added value of adding typologies: the utility of a vertical perspective

Even if, as I have argued, we can integrate typologies of production and welfare regimes, the question remains why this should be done. First, as a rather fundamental answer to this, it can be argued that an approach that labels itself varieties of capitalism (and not varieties of production systems), should analyse complete capitalist configurations, of which welfare arrangements are an integral part and not only an appendix to the way production is organised (cf. Estevez-Abe et al., 2001). Second, examining similarities associated with the vertical dimension of Figure 3, it becomes apparent that these have largely been overlooked as research has concentrated on differences on the horizontal level. Questions associated with this line of research consisted in asking how many forms of production systems or welfare states could be discerned. Indeed, if production systems or welfare arrangements are to be studied in isolation, one should keep typologies separated for this purpose. Yet it is where the aspects of welfare and production intersect that a vertical approach to analysing capitalisms can be useful. Because after having established that welfare and production systems covary, we can pose the important question as to why this is the case. Maybe certain welfare and production arrangements cause each other, or maybe an underlying third

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variable has an influence that aligns them. I will briefly touch on both debates to show how the approach that this article advocates can contribute to them.

One current debate centres on the question of whether capitalist configurations have emerged through (and rely on) class struggles, or whether they can survive because they inhibit complementarity. Whereas the first position is the power resource approach used in the literature on welfare states and represented by the work by Gøsta Esping-Andersen's (1990, 1999) and Walter Korpi (1985, 2006), the second position is one of the foundations of the VOC school (Mares, 2001a, 2001b; Soskice and Iversen, 2001; Swenson, 2002). Tracing up and down the rightmost vertical column of Figure 3 indicates that all approaches include a liberal model. Nevertheless, as just mentioned, they each have a distinct take on why that model evolved, what its core elements are, and what the causal processes that perpetuate the model are. In addition, the liberal model is quite stable, whereas the non-liberal models can be split into a number of subgroups, depending on the specific angle from which capitalist diversity is analysed. We might therefore start to wonder how the different non-liberal capitalisms relate to each other on the vertical line: for example, in what way are the social democratic and the conservative welfare states different in their mode of coordination of production? Overall, the relationships highlighted by the vertical dimension of Figure 3 suggest a number of puzzles that demand further examination, and suggest that combining VOC and WSR research into an overall typology may offer additional leverage in explaining these dimensions of complementarities. A first step in answering these questions has been taken by the literature stressing complementarity between liberal welfare states and production regimes, as well as coordinated production regimes and more extensive welfare states (Ebbinghaus, 2001; Estevez-Abe et al., 2001; King and Wood, 1999; Manow, 2001a, 2001b; Mares, 2001a, 2001b; Soskice and Iversen, 2001; Swenson, 2002; Vogel, 2001; Wood, 2001). The most important but hitherto unconnected explanations why strong welfare states and coordinated production systems support each other are the following.

If welfare benefits exceed a minimum level, then the question arises who should profit and how. Trade unions have a privileged position to acquire information on workers; they are therefore apt to administer extensive welfare schemes. In order to do so, however, they need to be organised. If organisation of trade unions occurs, this can then lead to a similar coordination of employers' organisations. The associational structure that is necessary to coordinate an economy can therefore be induced by extensive welfare arrangements (cf. Manow, 2001a, 2001b). Accordingly, there is a negative correlation (r = -0.713) between the power of a trade union in a country and the degree to which the welfare state of that country is liberal.⁷

Once an organised labour movement is employed to govern a production system, it may use this privileged position to push further towards a welfare state that

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conforms to its aims, and in times of financial austerity it may veto its retrenchment. To the degree that welfare arrangements are seen to support competitive advantage, business associations can do the same (cf. Mares, 2001a, 2001b).

High and uniform social benefits by the welfare state make it easier for companies to cooperate, as poaching by company-centred welfare schemes becomes more difficult when these are dwarfed by public benefits. An extensive welfare state can thus level the ground for coordination between companies (cf. Martin and Swank, 2001; Swenson, 2002; Thelen, 2000). Accordingly, the degree to which labour is 'decommodified' correlates with the coordination of the economy in different countries (r = 0.683).

Equity-based pension systems and a rich top income stratum increase investments in stock markets. The stock market offers firms capital if these adopt a shareholder value-oriented form of corporate governance that is characteristic of liberal market economies. Therefore, corporate financing, an important aspect of the way production systems work, can be a function of the stratification and pension system of a society, which is part of welfare arrangements (cf. Deeg and Jackson, 2006; Vitols, 2001).

Employees may be prevented from learning highly specific skills as these confine their employability to certain firms or industries. Yet specialised skills are important for coordinated market economies. Generous wage replacement rates are offered by conservative and social democratic welfare states as incentives for the acquisition of specific skills, thus providing a functional equivalent for lost income in case of layoffs. Skills, which determine what production system a country can develop, therefore depend on welfare arrangements (cf. Iversen and Soskice, 2006; Soskice and Iversen, 2001). Accordingly, the strength of employment protection rules of countries is correlated with the degree to which the respective economies are coordinated (r = 0.751).

A welfare state that promotes inflexible labour market arrangements can induce a preference for long-term contracts. This renders investments in skills more rational and allows an economy to embark on a high skill/high wage equilibrium, which is characteristic of coordinated market economies. In turn, it deprives liberal market economies of the flexibility that they need (cf. Estevez-Abe et al., 2001; Wood, 2001).

Generous pre-retirement programmes allow employee layoffs without violating loyalty necessary for the trust-based relationship between management and workforce that is needed in production modes with a longer time horizon. Extensive pre-retirement programmes as part of the welfare state therefore support the functioning of coordinated market economies (cf. Ebbinghaus, 2001; Hall, 2001). Accordingly, the pension replacement rate of countries correlates with the degree to which the respective economies are coordinated $(r = 0.713)^{10}$

The high costs imposed on production systems within the social democratic and conservative welfare states lead to pressure to specialise in highly profitable

production techniques, which usually entail more coordination than mass production. Conversely, they rule out arrangements that rely on cheap and/or flexible labour. A costly welfare state thus promotes coordinated production systems and impedes liberal ones. Accordingly, there is a correlation between the public social expenditure of countries and the coordination of their respective economies (r = 0.644).¹¹

This list should show the fruitfulness of combining WSR and VOC by making it possible to connect the as yet unconnected aspects mentioned above. So not only can there be complementarity (or dysfunctionality) within the production system, as has been stressed in the literature on production regimes, but this complementarity may also exist between the production system and welfare arrangements. This combination of causal links between production and welfare arrangements is of obvious relevance to social policy-makers. By focusing on causal links between the two domains, it must be taken into account that changes in social policy also affect the production system and vice versa.

A combination of VOC and WSR is also helpful because VOC increasingly needs the conflict-based perspective on which the analysis of welfare regimes is built. The most recent contributions to VOC urge us to 'consider the origins of different forms of coordination and different models of capitalism ... by examining the cross-class coalitions that underpin the different modes of coordination' (Hancké *et al.*, 2007: 37). Wondering where the production arrangements that distinguish VOC came from, Becker mentions that

[f]unctionality (which is a more appropriate term than complementarity) in a political economy is related to a reference frame of which competitiveness is only one, though existential, goal. A reference frame is comprised of existential as well as historically evolved but contested, political goals such as (more) income equality, welfare for everybody, participatory rights and environmental protection. (Becker, 2007: 280)

Thus, if certain conceptions of social justice prevail in a given country or in a number of countries, then it should come as no surprise if these conceptions not only permeate welfare but also production regimes, transcending both spheres through attention to the conflicts surrounding the labour movement. In this perspective, class coalitions that forged welfare arrangements might also have forged production arrangements according to similar conceptions, thus linking certain welfare arrangements to certain production arrangements. However, on a more fundamental level, certain 'conceptions' that we might call cultural-historical ideas may have shaped what is seen as appropriate and legitimate in terms of welfare state *and* production regime organisation, and thus in turn have shaped the goals and strategies of class coalitions.

Discussion

In this regard, Fligstein's (2001) notion of 'conceptions of control' offers one route to extend the analysis of production arrangements to social policy. According

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to Fligstein, conceptions of control provide actors with a conception about how a particular market should be organised. The innovation would be to see conceptions of control not only as pertaining to specific markets, but also to the way production and welfare arrangements are organised writ large. In other words, if Max Weber (1988 [1904]) was right and a certain culture has given birth to capitalism, could it not also be possible that similarities in culture within families of nations have caused welfare and production arrangements to align to similar principles in these? Not only has a certain culture brought about capitalism, it is also responsible for different capitalisms and the similarity between welfare and production regimes within a certain capitalism. Culturally influenced ideas towards a certain economic policy, so the argument would go, might penetrate to welfare arrangements, which is why these covary. In that sense, differences in culture between families of nations explain why other families of nations show different *elective affinities* between welfare and production systems. For example, Frank Dobbin argued in his seminal work on industrial policy that certain national traditions, namely those that prevailed in organising political life, later came to shape industrial policy (Dobbin, 1994: 2).12 Therefore, in France, the state took over central planning of the railway system. Contrary to that, in the United States, industrial policy consisted mainly of ensuring wellfunctioning markets without the domination of particular actors, whereas, in Britain, entrepreneurs were enabled to shape markets. This is because Britain and the United States saw 'economic self-determination as integral to economic order' (Dobbin, 1994: 20). To the degree that these liberal conceptions of how an economy has to be run were a 'hegemonic belief system' (Lehmbruch, 2001: 41), should it not come as a surprise if the welfare system turned out to be shaped by completely contrarian values? The mechanism here might be that when faced with challenges, actors look back in their history to what has worked and apply those principles to a new domain. It might therefore be more than a coincidence that, in the US, the welfare system is largely built on the same principles as the production system: a market on which people can assure their well-being by contracting. Contrary to that, in France, confidence towards the state is not only put forward in the organisation of production, but also in the management of welfare arrangements. In Britain, not only are companies shielded so that they can survive in markets, but social policy under the label of a 'third way' takes a similar approach in welfare arrangements, by trying to give people what it takes to survive in markets instead of providing long-term transfer income. In Germany, in turn, a perception of markets as inherently unstable could have established a preference for institutions that stabilised the economy (Lehmbruch, 2001) and a preference for a welfare system that provides long-term stability by statusstabilising wage conservation. In the Scandinavian countries, a general mindset seems to have been acquired that redistribution and market success can entail rather than mutually prevent each other, by economy-wide concertation and an

extensive welfare system (Rothstein, 1998). These cultural conceptions do not single-handedly influence welfare/production constellations, but do shape how social policy-makers think about challenge, crisis and change, meaning certain options are automatically off the table and others are seen to be more legitimate. That still leaves a range for choice (agency), such that the regimes are neither culturally nor institutionally pre-determined.

It implies, however, that a general mindset concerning the efficiency and equitability of state intervention, markets, firms and other governance modes not only influences industrial policy. Instead, to the degree that industrial and welfare policy are products of the same 'hegemonic belief systems' (Lehmbruch, 2001: 41) of countries and families of nations, it can also be the underlying reason for elective affinities between welfare and production policies. It is important to avoid the trap of cultural determinism, however. Beliefs about how a production and welfare system should be run are not carved in stone. Rather, the perspective advocated here is intended to open the door to new questions about how interests, ideas and institutions in the sphere of production have had an influence on the sphere of welfare and vice versa.

Conclusion

In this article, I have argued that typologies on modes of production and welfare arrangements can be combined, as families of nations that the two approaches discern are nested in each other. The systematic occurrence of certain welfare with certain production regimes forces us to take into account how welfare and production regimes systematically reinforce each other's mode of functioning in the form of complementarities. By analysing the 'vertical dimension' of different regime types, we can ask additional questions which seldom have been posed up to now. The most important issue is whether there are 'hegemonic belief systems' that not only influence production, but also welfare arrangements and thereby align these to similar principles, causing them to covary.

In following this path, this article has used a variety of methods, since the documentation of similar production/distribution regimes can rely on quantitative data, while their explanation calls for qualitative in-depth studies of political culture that might unearth explanations of homogeneity of production and welfare regimes. For this latter part, however, this article could only have been a starting ground.

However, if production and welfare arrangements are intertwined, as mentioned above, social policy-makers and analysts may better understand the principles underlying social policy if they look at the principles underlying production regimes. Thus, the legitimacy and efficiency of social policy cannot be judged without reference to the broader social system in which it is embedded.

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TABLE 1. Factor loadings for principal component analysis.

	Industrial Relations/ Welfare State/ Income Distribution	Structure Labour Market/ Left Parties	Financial System	Health Care
Structure of the labour market Labor force participation rate for persons aged 15–64 years – Data for 2004 (OECD, 2005a:		,767		
238).				
Employment in industry as share of all employment – Data for 2004 (OECD Website 2005) URL: http://dx.doi.org/ 10.1787/808800743257		-,781		
Employment in the service sector as share of all employment – Data for 2004 (OECD, 2005b) URL: http://dx.doi.org/10.1787/808800743257		, 813		
Contribution to total economy gross value added: wholesale and retail trade, restaurants and hotels (ISIC 1) – Data for 2003 (OECD, 2005b) URL: http://dx.doi.org/		-,545		
10.1787/872852212688 Contribution to total economy gross value added: Education, health, social work and other services (ISIC 6) – Data for 2003 (OECD, 2005b) URL: http://dx.doi.org/				
10.1787/872852212688 Isic 6 employment (CE and DE) – 2003 end of the 90s, OECD Data for 1997–2003. (OECD, 2006) URL: http://www1.oecd.org/scripts/cde/DoQuery.asp	- ,754			
Employment in the public sector (government, social security institutions, non-profit sector and public enterprises) as share of all employment – Data for 1997–2003 (ILO Website 2003) URL: http://laborsta.ilo.org	,615	,518		
Labour market regulation Employment protection (composite index of legal restrictions on the ability of employers to lay off or fire regular employees) – Data for 2003 (OECD, 2004: 117).	,770			
Employment Law Rigidities, index by Porta et al. (2004). Social security laws index to measure decommodification by the pension- healthand unemployment-system (Porta, et al.,		-,704		
2004: 1362f.). Employment laws index to measure the protection of employed workers (Porta, et al., 2004: 1362f.).	,845			
Income distribution Gini Index – data stretching from 1993–2000 (World Bank, 2006).	-,661			

TABLE 1. Continued

	Industrial Relations/ Welfare State/ Income Distribution	Structure Labour Market/ Left Parties	Financial System	Health Care
Percentage share of income or consumption for poorest 20 percent of population – Data stretching from 1993–2000 (Worldbank,	, 587			-,540
2006). Percentage share of income or consumption for richest 20 percent of population – Data stretching from 1993–2000 (Worldbank, 2006).	-,634			
Industrial relations				
Employer Centralization – Average for 1979–1995 (Martin/Swank, 2001: 899).	,740			
Employer Coordination – Average for 1979–1995 (Martin/Swank, 2001: 899).	,704			
Enterprise Cooperation – Average for 1979–1995 (Martin/Swank, 2001: 899).	,637			
Central Union Power Density – Average for 1979–1995 (Martin/Swank, 2001: 899).	,649			
Collective Bargaining – Average for 1979–1995 (Martin/Swank, 2001: 899).	,751			
(Matthi Walks, 2001, 1997). Trade Union Members as percentage of total workforce – Data for 2000 (OECD, 2004: 145).	,645			
Coverage of collective wage bargaining – Data for 2000 (OECD, 2004: 145).	,839			
Index of dominant level of bargaining: o company or individual; ,25 company/plant; ,5 industry; ,75 industry and central; 1 central. Data for 2004 – (EIRO Website 2005) URL: http://www.eiro.eurofound.eu.int/ and (OECD, 2004: 151)	,601			
Co-determination index, made of indices: employees appoint board members; employee participation required by law; works council's decision rights – Data for 2002 (OECD, 2003: 47f.) URL: www.oecd. org/dataoecd/58/27/21755678.pdf	,814			
Collective relations laws index to measure the power of labor unions over working conditions (Porta, <i>et al.</i> , 2004: 1362f.).	,561			
Welfare state				
Average net income replacement rate for fully ensured single worker with APW wage and couple with two children and one APW wage – Data for 1999 (Allan/Scruggs, 2004: 500)	,598			

TABLE 1. Continued

	Industrial Relations/ Welfare State/ Income Distribution	Structure Labour Market/ Left Parties	Financial System	Health Care
Deduction (percent) of wage due to taxes and social security contributions for married couple, two children, one average wage — Data for 2001 (OECD Data 2006) URL: http://www.nationmaster.com/graph-T/tax_tot_tax_wed_sin_wor	,848			
Deduction (percent) of wage due to taxes and social security contributions for single worker, no children, average wage – Data for 2001 (OECD Data 2006) URL: http://www.nationmaster.com/graph-T/tax_tot_tax_wed_sin_wor	,835			
OECD summary measure of unemployment benefit as percentage of old wage – Data for 2003 (OECD Website 2006) URL: http:// www.oecd.org/dataoecd/25/31/34008592. xls).	,660			
Pension replacement rate – Net mandatory pension programs replacement rates as percentage of pre-retirement net-earning for men with average wage – Data for 2003 (OECD, 2005c).	,604			
Taxes (including all social security contributions) on the average production worker (average wage, no children) – Data for 2004 (OECD, 2006).	,814			
Total tax revenue (no social security payments) as share of GDP – Data for 2003 (OECD, 2006) URL: http://puck.sourceoecd.org/vl = 7267625/cl = 26/nw = 1/rpsv/factbook/data/09-03-01-to1.xls).	,835			
Public social expenditure (cash benefits, provision of goods and services and tax breaks with social purposes) – Data for 2001 (OECD, 2006) URL: http://thesius. sourceoecd.org/vl = 30620998/cl = 14/ nw = 1/rpsv/factbook/data/09-02-01-to1.xls).	,785			
Share of means-tested social transfers on all social transfers in percent – Data for second half of 90s (Eurostat Website 2003 and Gough, et al., 1997 for Non-European Countries).	-,569			
Total government expenditure as share of GDP – Data for 2004 (CIA World Factbook Website 2005) URL: www.cia. gov	,790			

TABLE 1. Continued

	Industrial Relations/ Welfare State/ Income Distribution	Structure Labour Market/ Left Parties	Financial System	Health Care
Health Care				
Private health care expenditure as share of total health care expenditure – data for 2003 (OECD, 2005b) URL: http://dx.doi.org/10.1787/530538806724				,679
Financial system				
Index of protection for investors (ownership disclosure, measures that reduce expropriation, and disclosures to help investors) – Data for 2005 (Worldbank, 2006).			-,697	
Deposit money bank credits to the private sector as a share of GDP – Average for 1980–1995 (Levine, 2000: 43).			,888	
Overall size of the stock market in U.S. dollars as a percentage of GDP – Data for 2004, 2000 for Belgium (Worldbank, 2006)			,502	
Value of domestic equities listed on domestic exchanges divided by GDP – Average for 1980–1995 (Levine, 2000: 43).	-,667			
Political power				
Years in which chief executive and largest party in congress have left or center political orientation from 1928–1995 (Porta, <i>et al.</i> , 2004: 1362f.).		,724		

Note: 71 % of the variance of the dataset explained. All factor loadings below +/- ,5 are suppressed.

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TABLE 2. Data used for factor loadings in Table 1.

	IRE	POR	ESP	AUS	CH	DK	NOR	SWE	CA	US	UK	NZ	FIN	NL	JA	AT	BE	FR	GER	IT
Labour participation	68.6	72.9	69.7	73.6	81.0	80.2	79.1	78.7	78.2	75.4	76.2	76.6	73.8	76.6	72.2	70.2	65.3	69.5	72.7	62.5
Share industry	27.7	31.4	30.5	21.4	23.7	23.7	20.9	22.6	22.3	20.0	22.3	22.7	25.7	20.3	28.4	27.8	24.9	23.0	31.0	31.0
Share service	65.9	56.5	64.0	74.9	72.6	73.1	75.6	75.2	75.0	78.4	76.4	69.8	69.3	76.6	67.1	67.2	73.1	72.6	66.6	64.5
Isic 1	12.0	17.2	18.9	13.6	15.4	13.5	10.4	12.0	13.6	15.5	15.4	15.4	11.9	14.2	12.7	17.6	13.8	12.4	11.8	16.4
ISIC 6 value	13.3	17.7	14.6	15.4	8.6	20.2	17.9	20.3	14.0	15.8	17.4	13.0	17.1	17.2	17.4	13.9	16.5	15.5	15.7	14.3
ISIC 6 employment	20.80	19.10	19.30		23.40	16.20	18.80	16.60	23.95	21.90	19.70	21.90	14.85	19.85	22.70	21.35	15.40	14.60	17.05	17.10
Employment public	20.02	14.27	15.56	15.50	15.87	33.80	37.64	34.37	18.59	16.60	19.98	19.81	25.50	26.48	8.70	31.20	31.12	21.52	15.70	14.96
Employment protection	1.30	3.50	3.10	1.50	1.60	1.80	2.60	2.90	1.10	0.70	1.10	1.30	2.10	2.30	1.80	2.20	2.50	2.60	2.50	2.40
Employment laws	49	79	70		36	25	41	50	34	22	28	32	55	54	37	30	48	42	51	59
Employment laws	0.34	0.81	0.74	0.35	0.45	0.57	0.69	0.74	0.26	0.22	0.28	0.16	0.74	0.73	0.16	0.50	0.51	0.74	0.70	0.65
Social security laws	0.71	0.74	0.77	0.78	0.82	0.87	0.83	0.84	0.79	0.65	0.69	0.72	0.79	0.63	0.64	0.71	0.62	0.78	0.67	0.76
Gini World Bank	34.3	38.5	34.7	35.2	33.7	24.7	25.8	25.0	32.6	40.8	36.0	36.2	26.9	30.9	24.9	29.1	33.0	32.7	28.3	36.0
Lowest 20	7.4	5.8	7.0	5.9	7.6	8.3	9.6	9.1	7.2	5.4	6.1	6.4	9.6	7.6	10.6	8.6	8.5	7.2	8.5	6.5
Richest 20	42.0	45.9	42.0	41.3	41.3	35.8	37.2	36.6	39.9	45.8	44.0	43.8	36.7	38.7	35.7	37.8	41.4	40.2	36.9	42.0
Employer centralisation	-0.09			-0.52	-0.09	-0.09	1.11	1.11	-1.68	-1.68	-0.09	-0.09	1.11	-0.09	-0.09	-0.09	-0.09	-0.09	1.11	-0.09
Employer coordination	-1.13			-1.13	1.13	1.13	1.13	1.13	-1.13	-1.13	-1.13	-1.13	1.13	0.00	0.00	-1.13	0.00	0.00	1.13	-1.13
Enterprise cooperation	-1.01			-1.01	0.44	0.44	0.44	0.44	-1.01	-0.89	-0.92	-1.01	0.90	-0.92	1.48	0.44	0.44	-0.20	0.90	1.04
Union power	-0.08			-0.24	-0.74	0.82	1.24	1.47	-0.56	-0.95	-0.32	-0.34	0.43	-0.18	-0.71	1.65	0.28	-1.06	-0.60	0.07
Collective bargaining	-0.30			0.83	-0.30	1.13	1.60	1.35	-1.02	-1.15	-0.52	-1.40	0.68	0.58	-0.30	-0.30	0.29	-0.30	-0.30	1.10
Union density	38	24	15	25	18	74	54	79	28	13	31	23	76	23	22	37	56	10	25	35
Coverage collective wage bargaining		80	80	80	40	80	70	90	32	14	30	25	90	80	15	95	90	90	90	80
Index level of bargaining	0.75	0.75	0.50	0.25	0.25	0.25	0.50	0.25	0.00	0.00	0.00	0.00	1.00	0.50	0.00	0.50	0.50	0.50	0.50	0.25
Index codetermination	0.00	0.50	0.67	0.00	0.00	1.00	0.33	0.67	0.00	0.00	0.00	0.00	0.50	0.67	0.00	0.83	0.67	0.33	1.00	0.17
Collective relations laws	0.46	0.65	0.59	0.37	0.42	0.42	0.65	0.54	0.20	0.26	0.19	0.25	0.32	0.46	0.63	0.36	0.42	0.67	0.61	0.63
Income replacement unemployment	43	,	33	46	77	79	70	73	66	58	32	43	65	76	56	64	62	71	66	47
Tax family	12.8	24.2	31.0	13.1	17.9	31.3	27.2	41.1	20.5	19.4	17.8	16.8	38.8	32.4	20.4	29.4	40.2	39.4	32.6	35.6
Tax single	25.8	32.5	37.9	23.1	29.5	44.2	37.0	48.6	30.2	30.0	29.7	19.6	45.9	42.3	24.2	44.7	55.6	48.3	50.7	46.2
Unemployment benefit	38	41	36	22	33	50	34	39	15	14	16	28	36	53	8	32	42	24	29	34
Pension replacement rate	37	80	88	52	67	54	65	69	57	51	48	40	79	84	59	93	63	68	72	89



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Table 2. Continued

•																				
	IRE	POR	ESP	AUS	СН	DK	NOR	SWE	CA	US	UK	NZ	FIN	NL	JA	AT	BE	FR	GER	IT
Taxes worker	23.8	32.6	38.0	28.6	28.8	41.5	36.9	48.0	32.3	29.6	31.2	20.7	43.8	43.6	26.6	44.9	54.2	47.4	50.7	45.7
Tax revenue	29.7	37.1	34.9	31.6	29.5	48.3	43.4	50.6	33.8	25.6	35.6	34.9	44.8	38.8	25.3	43.1	45.4	43.4	35.5	43.1
Social expenditure	13.75	21.10	19.57	18.00	26.41	29.22	23.90	29.78	17.81	14.73	21.82	18.53	24.80	21.75	16.89	25.96	24.72	28.45	27.39	24.45
Share means tested	26.6	8.8	11.5		6.6	3.0	3.7	12.4	18.9	39.8	15.8	100.0	11.5	11.4	3.7	5.9	3.2	3.1	9.6	4.3
Share private health	0.25	0.30	0.29	0.33	0.41	0.17	0.16	0.24	0.30	0.56	0.17	0.21	0.23	0.38	0.18	0.30	0.29	0.15	0.22	0.25
Expenditure of GDP	50.25	42.32	41.21	36.24	55.74	76.49	63.83	78.15	14.08	42.87	19.90	39.04	60.81	57.04	46.68	57.21	55.28	62.18	55.04	50.97
Investors protection	9	7	4	8	1	7	7	2	8	7	10	10	6	4	6	2	8	10	5	7
Bank credit		0.63	0.66	0.47	1.44	0.42	0.48	0.44	0.48	0.65	0.74	0.41	0.67	0.74	1.04	0.83	0.37	0.82	0.86	0.51
Market capitalisation 2004	62.8	43.8	90.5	121.8	231.0	62.7	56.6	108.8	120.4	139.4	132.6	44.2	98.8	107.5	79.6	29.4	79.9	90.7	43.6	47.1
Market capitalisation	0.27	0.08	0.18	0.43	0.71	0.22	0.15	0.38	0.46	0.58	0.76	0.40	0.18	0.41	0.73	0.07	0.26	0.20	0.19	0.12
Left power	0.00	0.09	0.31	0.35	0.69	0.74	0.71	0.85	0.69	0.71	0.28	0.46	0.79	0.26	0.01	0.24	0.09	0.34	0.29	0.32
Factor 1	-0.775	0.213	0.227	-0.897	-0.654	1.149	1.003	1.526	-1.232	-1.781	-1.267	-1.455	1.178	0.359	-0.683	0.589	0.734	0.506	0.839	0.421
Factor 2	-0.695	-2.143	-1.583	0.138	0.790	1.550	1.226	1.427	0.831	0.527	0.494	0.214	0.460	0.107	0.042	-0.468	-0.379	-0.316	-0.654	-1.568
Factor 3	-0.827	-0.115	0.560	-0.690	3.001	-0.744	-0.417	-0.134	-0.143	0.024	-0.812	-1.403	-0.043	0.396	1.702	0.283	-0.997	-0.114	0.891	-0.420
Factor 4	-1.141	0.452	0.746	0.181	1.138	0.028	-0.801	0.361	0.371	1.470	-0.323	-0.434	-0.261	1.315	-3.050	0.425	0.304	0.059	-0.931	0.090

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Notes

- 1 In this article, the term 'regime' will be used to refer to arrangements that span over a number of countries, for example the social democratic (Scandinavian) welfare regime. I use the term 'system' or 'arrangement' when I speak of specific countries, for example Germany's welfare or production system/arrangements.
- 2 I use Esping-Andersen's classification from 1999, seeing the Netherlands as part of the group of continental European countries.
- 3 However, this by no means implies that social democratic and conservative welfare regimes are the same.
- 4 I used a simple principal component analysis, without rotation of the factors.
- 5 I used 'average linkage between groups' as the clustering method and 'squared Euclidian distances' as the proximity measure.
- 6 Among those typologies not included in the analysis is that of Ebbinghaus (1999), as it basically reproduces Esping-Andersen (1990) with the addition of a southern European welfare model, which has in turn been rejected by Esping-Andersen's later works (1999). I will also not address the work of Katzenstein (1985), focusing on the distinction between liberal, statist and corporatist countries, as the study refers to the beginning of the 1980s, is centred on an analysis of small states and is somewhat reproduced in Schmidt's (2000, 2002) approach. The typologies developed by the literature on corporatism (Lehmbruch and Schmitter, 1979, 1982; Shonfield, 1969) will also not be analysed, as this strain of analysis is further refined and contained in VOC (cf. Hall and Soskice, 2001a: 3ff.). Vivien Schmidt's (2000, 2002) approach will not be analysed as she does not really provide a typology as such, but provides case studies for three countries. The same is true for Albert's (1992) distinction between a 'Rhine model' and an Anglo-American model of capitalism. Lastly, Whitley's (1999) distinction of different business systems is left out as it does not provide a typology of capitalisms, but of local production systems.
- 7 The degree of liberalism of 18 welfare states (of the 20 countries as used before, minus Spain and Portugal, for which data were not available) was measured according to data from Esping-Andersen (1990: 74). The degree to which a trade union is powerful in these countries was taken from the indicator in Martin and Swank (2001: 899). The Pearson correlation coefficient between the two indicators is significant at the 0.01 level (2-tailed).
- 8 The degree to which labour in countries is decommodified has been taken from Esping-Andersen (1990: 50). The degree of coordination for different economies has been taken from Hall and Gingerich (2004: 14). The Pearson correlation coefficient between the two indicators is significant at the 0.01 level (2-tailed).
- 9 The degree of employment protection of a country is a composite index of legal restrictions on the ability of employers to lay off or fire regular employees; data are from the OECD Employment Outlook (2004: 117). The index used to measure coordination, the number of cases (n) and the level of significance of the correlation are similar to that in note 8.
- 10 The pension replacement rate of countries has been operationalised according to the net mandatory pension programmes replacement rates as percentage of pre-retirement net earnings for men on an average wage (OECD, 2005c). The index used to measure

- coordination, the number of cases (n) and the level of significance of the correlation are similar to that in note 8.
- 11 Public social expenditure is defined as cash benefits, provision of goods and services and tax breaks with social purposes as listed in the *OECD Factbook* (2006). The index used to measure coordination, the number of cases (*n*) and the level of significance of the correlation are similar to that in note 8.
- 12 It is important to note, though, that Dobbin (1994) does not treat 'culture' as some enduring, primordial trait, but as a collection of practices, experiences and values that are somewhat amorphous but endure over time.

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