Corporate Law and Economics 3: Does law matter for finance?

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New institutional economics

- institutions, understood as rules, practices and routines of varying degrees of formality and embeddedness, matter to economic performance (North, Aoki)
- legal rules affect economic growth according to how far they support market access, contract enforcement and and the protection of property rights (La Porta et al.)

'Law matters'

- A higher degree of shareholder protection through law encourages stock market development and dispersed share ownership (La Porta et al. 1998)
- Rules protecting creditor rights promote banking development and the growth of private credit (Djankov et al, 2008)
- Labour protection, by contrast, is mostly driven by rent-seeking (the protection of vested interests) and results in inefficiencies (higher unemployment and lower productivity, as well as a larger informal economy) (Botero et al., 2004)

The 'anti-director rights index'

- 6 core variables: 'proxy by mail allowed', 'shares not blocked before the meeting', 'cumulative voting', 'oppressed minorities mechanism', 'pre-emptive rights to new issues', and 'share capital required to call an extraordinary shareholder meeting'.
- Also: 'one share one vote' and 'mandatory dividend'
- On the basis of data collected for 49 countries in the mid-1990s, low scores on the ADRI were associated with higher concentration of ownership and a lower degree of stock market activity, in particular in French-origin systems
- 'legal systems matter to corporate governance and ... firms have to adapt to the limitations of the legal systems that they operate in' (La Porta et al. 1998).

Countries	La Porta et al.'s ADRI
Argentina	0.66667
Brazil	0.50000
Canada	0.83333
Chile	0.83333
France	0.50000
Germany	0.16666
India	0.83333
Italy	0.16667
Japan	0.66667
Mexico	0.16667
Malaysia	0.66667
Pakistan	0.83333
South Africa	0.83333
Spain	0.66667
Switzerland	0.33333
United Kingdom	0.83333
United States	0.83333

The 'labor regulation index'

- Over 100 variables, covering employment protection, collective labour relations, and social security law, for 85 countries, in the late 1990s
- Common law systems have lower scores than civil law ones particularly in relation to employment protection
- Higher scores on the labour regulation index are correlated with lower male employment rates, higher youth unemployment, and a larger informal economy (Botero et al., 2004)

Updated measures (mid-2000s): anti self-dealing index, prospectus index, creditor rights index

- Higher scores on the anti-self dealing index are correlated with increases in the stock-market/GDP ratio, the number of listed firms, and in ownership dispersion
- The prospectus index scores are linked to lower control premia
- Higher scores on the creditor rights index are correlated with an increase in the private credit/GDP ratio

	Anti-self dealing index	Prospectus disclosure	Creditor rights	Labor regulation
French legal origin	-0.3334***	-0.3928***	-0.8394***	0.2654***
German legal origin	-0.3454***	-0.2370**	-0.1714	0.2337***
Scandinavian legal origin	-0.3830***	-0.2867***	-0.9345*	0.3978***
GDP per capita	0.0728***	0.0618**	0.2022**	-0.0083

The 'new comparative economics'

- There are significant variations across national regimes in all the areas of law which have been examined using the coding methods developed by LLSV, and these differences map on to the divide between common law and civil law legal families
- Systems of common law origin provide higher levels of shareholder and creditor protection than those of the civil law and regulate the labour market less intensively

Families of legal systems

English common law	42	UK, USA, British Commonwealth
French civil law	84	Most of western Europe, Latin America, sub-Saharan Africa, parts of Asia
German civil law	19	Most of central and eastern Europe, parts of Asia
Scandinavian civil law	5	The 'Nordic' countries

The legal origin hypothesis

 The content of legal rules is influenced by the infrastructure of the legal system, i.e., the way that disputes are resolved, the relationship between the courts and the legislature, and the capacity of legal rules for adaptation. The nature of this 'legal infrastructure' varies across national systems, with the principal point of difference being the divide between the common law and civil law legal families (La Porta et al. 1997-2007).

Different approaches to market regulation

 'We adopt a broad conception of legal origin as a style of social control economic life... Civil law is associated with a heavier hand of government ownership and regulation than common law...[and with] greater corruption, higher unemployment and larger informal economy... common law is associated with lower formalism of judicial procedures and greater judicial independence than civil law...[and] with greater contract enforcement and greater security of property rights' (La Porta et al., 2008: 286).

Aggregate economic outcomes

- Mahoney: faster GDP growth in common law countries than civilian ones post-1945
- But, German-origin systems grew faster than common law ones (with French-origin ones growing most slowly)
- And Mahoney's result largely disappears when standard controls (e.g. years of schooling) are put in (LLS, 2008)
- Moreover, the result doesn't hold for developed systems up to 1980 (Hall and Soskice)
- Although common law systems have enjoyed faster growth than civil law ones since 1980, overall growth rates in 1980-2000 period are half those in the period 1960-1980 (Blankenburg and Plesch)
- 'The Legal Origins Theory does not say that common law always works better for the economy (LLS, 2008: 309)

Criticisms of the methods used to generate the empirical findings

- Some values were incorrect and the approach to coding inconsistent (Cools, Braendle, Spamann)
- Implicit weightings in the LLSV indices were not explained (Ahlering and Deakin) (cf, LLS, 2008: 291: 'an important feature of [the cross-country] studies is that all countries received the same weight')
- Selection bias in the definition of the core variables (Siems)
- Original results disappeared with more consistent coding (Spamann)... new approaches were tried including use of questionnaire evidence, apparently restoring the findings (Djankov et al., 2008; La Porta et al., 2008)... but these new data sources are also open to question
- Over-reliance on cross-sectional data (but see LLS 2008: 299, reviewing some recent longitudinal studies)

Criticisms of the explanations given for the observed effects

- The description of the difference between the civil law and common law systems given in the new comparative economics is a caricature: 'a superficial and outdated image of the differences between the common law and the civil law' (Mattei)
- Legislation is highly significant as a source of norms for the common law systems in the area of economic regulation (Ahlering and Deakin; but see above, response of LLS).
- Civil law judges arguably have greater power to control outcomes than their common law counterparts, through the use of general clauses and similar interpretive devices (Pistor)

Tentative conclusions

- Legal systems are autonomous institutional phenomena with the potential to influence long-run patterns of economic development
- But, the conventional distinction between the common law and the civil law is too crude to bear the weight being placed on it
- The strong-form legal origin hypothesis seems hard to support because of legal variation over time and the lack of a consistently clear link between law and economic outcome variables
- There is no straightforward relationship between the degree of regulation and whether a country has a common law or civil law origin; much depends on the legal context (contrasting results for shareholder and worker protection)
- A weak-form version of the legal origin hypothesis may be plausible: the
 origins of legal infrastructure in a given system may make a difference to
 the substance of rules and to economic outcomes, but legal systems are
 likely to be endogenous, to some extent, to the political and economic
 contexts within which they operate, and the implications of origin for
 efficiency are unclear a priori

Some questions

- Can we adequately quantify differences in the content of legal rules?
- What conclusions can be drawn from econometric analysis of correlations between legal change and economic outcomes?
- What are the normative implications of the legal origin hypothesis?

Empirical case study: does company law influence economic growth?

- What is the contribution of financial markets to economic growth in developed and developing countries?
- What is the contribution of the legal system in general, and of corporate law/governance in particular, to financial development and economic growth?

Governance, finance and growth: the critical questions

- What is the contribution of financial markets to economic growth in developed and developing countries?
- What is the contribution of the legal system in general, and of corporate law/governance in particular, to financial development and economic growth?

Legal origin and growth

- Firms grow faster where they can access external finance (Levine, 1997)
- Thus legal origin theory supports the claims that (1) legal reform is a means of promoting financial and economic development, and that (2) common law systems are better placed than civil law ones to generate market-driven growth, underpinned by law

How law influences finance

- A higher level of shareholder protection in a given country is correlated with more dispersed share ownership, a larger listed company sector, and a higher ratio of stock market values to GDP (La Porta et al. 1998)
- 'Legal systems matter to corporate governance and... firms have to adapt to the limitations of the legal systems that they operate in' (ibid.)
- High scores on creditor protection index linked to growth of private (bank-based) credit: Djankov et al., 2007
- But, these findings mostly based on cross-sectional data and inadequate coding of laws

Three hypotheses

- Convergence hypothesis: systems are converging at the level of formal law (formal convergence) and in terms of effects of law on financial development (functional convergence)
- Complementarity hypothesis: legal and financial institutions co-evolved in a complementary way, reflecting local diversity
- Transplant hypothesis: transfer of legal models from common law world to civil law world likely to encounter resistance

New evidence on law and financial development

- The datasets constructed by LLSV are deficient in presenting only a cross-sectional view of differences in the law across countries, as well as suffering from some coding errors
- The development of more recent, longitudinal datasets by the CBR (Cambridge Centre for Business Research) makes it possible to introduce time-series element into the analysis of law and financial development:

http://www.cbr.cam.ac.uk/research/programme2/project2-20output.htm

SPI and CPI, 25 countries, 1995-2005

The business judgment rule

- In the United States, the courts have articulated the 'business judgment' rule, according to which the courts will not, in general, review decisions of the board taken in good faith in the interests of the company, with adequate information, and according to normal standards of prudence (similar conventions operate in the UK).
- But the rule will not apply where there is self-dealing; and takeover bids may be special cases.

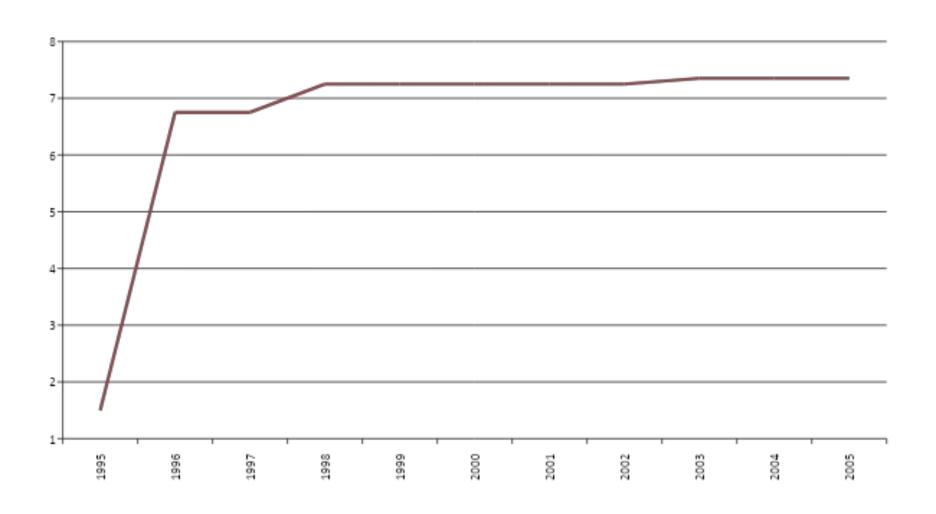
Shareholder protection index

- 1. Powers of shareholder meeting
- 2. Agenda setting power
- 3. Proxy voting facilitated
- 4. One share one vote
- 5. Independent directors
- 6. Director dismissal
- Derivative action
- 8. Action against majority shareholder
- 9. Mandatory bid
- 10. Block disclosure

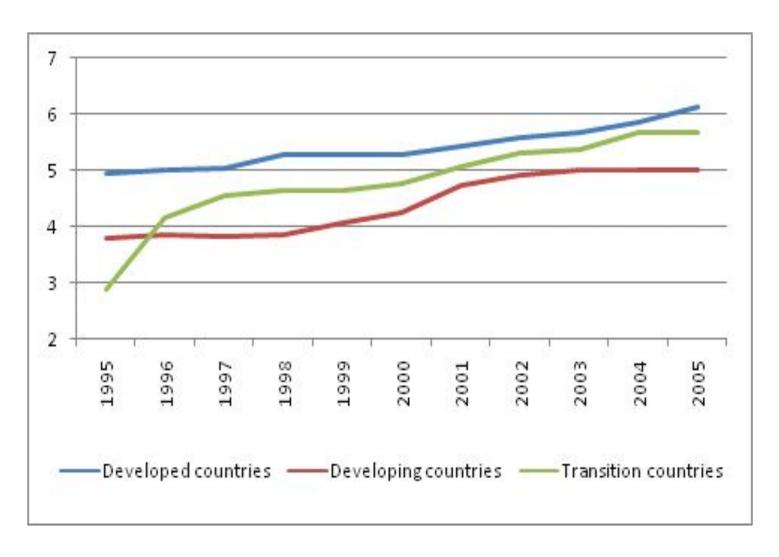
Country-level data (1)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Var. 1	0	1	1	1	1	1	1	1	1	1	1
Var. 2	0	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Var. 3	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Var. 4	1	1	1	1	1	1	1	1	1	1	1
Var. 5	0	0	0	0	0	0	0	0	0.6	0.6	0.6
Var. 6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Var. 7	0	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Var. 8	0	1	1	1	1	1	1	1	1	1	1
Var. 9	0	1	1	1	1	1	1	1	1	1	1
Var. 10	0	0.25	0.25	0.75	0.75	0.75	0.75	0.75	0.25	0.25	0.25
Russia	1.5	6.75	6.75	7.25	7.25	7.25	7.25	7.25	7.35	7.35	7.35

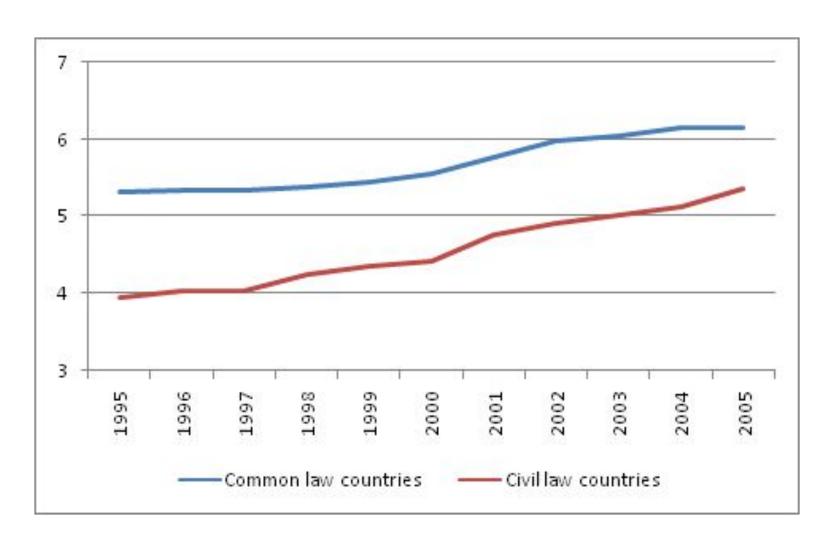
Country-level data (2)



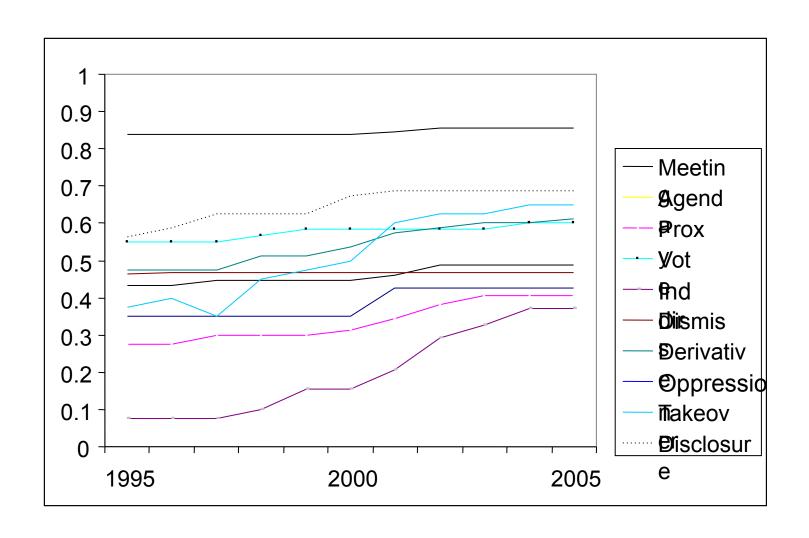
SPI by level of development



SPI by legal origin



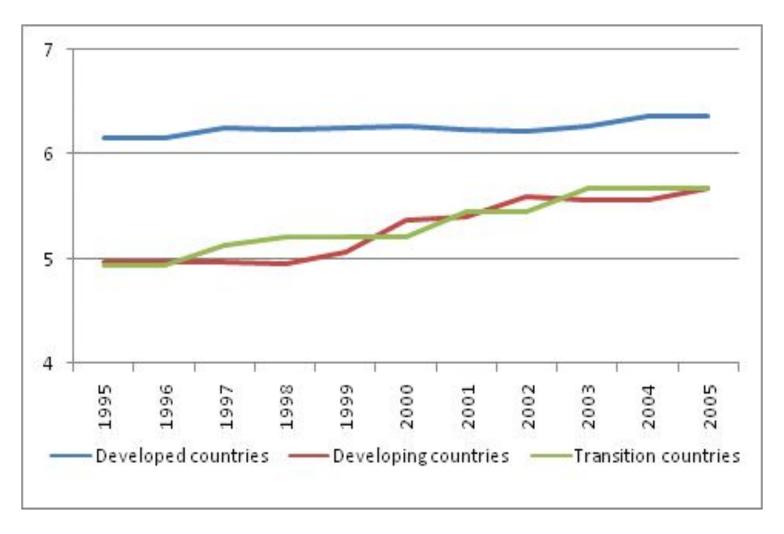
Change in indicators over time



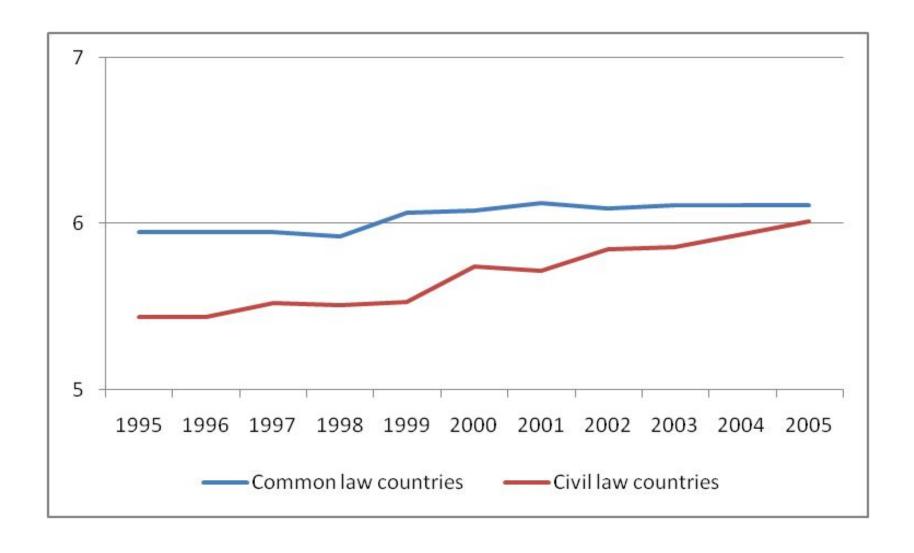
Creditor protection index

- 1. Minimum capital requirement
- 2. Dividend restriction
- 3. Directors' duties to creditors
- 4. Security: scope
- 5. Security: registration
- 6. Security: enforcement
- 7. Entry to insolvency/corporate bankruptcy
- 8. Stay of secured creditors
- 9. Outcome of insolvency proceedings
- 10. Ranking of secured claimants

CPI by level of development



CPI by legal origin



Econometric analysis

- Panel VAR Granger causality tests carried out to see whether changes in the SPI or CPI cause or are caused by financial development (as measured by stock market capitalisation/turnover and bank credit respectively), after controlling for rule of law, GDP level
- Panel data estimation (GMM) technique used to clarify the nature of impacts (positive or negative)

Model

p q r
(1)
$$X_{it} = \sum \lambda_j X_{i, t-j} + \sum \psi_k Y_{i, t-k} + \sum \pi_j Z_{i, t-l} + \alpha + \beta.RULE_{it} + \gamma.DOT_t + \epsilon_{it}$$

 $j = 1$ $k = 1$ $l = 1$

where Y is GDP per capita (in natural log), LPCY, RULE is the rule of law index, DOT is a dummy for dotcom bubble which takes the value zero for 1995-2000 and 1 for the period, 2001-2005, a is the fixed effect common across the panels and e_{it} is the error term varying across time and panels. To choose the lags (p, q and r in the regression model) which indicate how many past years are to be considered, a number of possible approaches available (such as the sequential modified LR test statistic (LRM), the final prediction error approach (FPE), the Akaike information criterion (AIC), the Schwarz information criterion (SC), and the Hannan-Quinn information criterion (HQ)). Different criteria often choose different lag lengths and we have considered the maximum lag length. Similarly, to test whether X causes Z we interchange the position of X and Z in the above equation.

Main finding

 No evidence of law influencing financial development (or vice versa) for sample as a whole, but there are impacts if the sample is split by reference to level of development and legal origin

Effects by level of development and legal origin

- Increased shareholder protection linked to stock market growth in developing countries
- But, increased shareholder protection linked to stock market bubbles in developed, common law countries

Table 1. Relationship between Shareholder and Creditor Protection and Financial Development, 1995-2005: Panel VAR Granger Causality Tests. Table 1c. Developing countries

Dependent variable: financial indicator	Excluded variable: legal index	Chi-square	Dependent variable: legal index	Excluded variable: financial indicator	Chi-square
marketcap lag =3	SPI	8.9586*	SPI	marketcap	4.8162
sharestraded lag = 5	SPI	4.5469	SPI	sharestraded	14.2443*
turnoverratio lag = 2	SPI	1.4009	SPI	turnoverratio	0.9437
listed lag = 2	SPI	0.7572	SPI	listed	0.8878
bankcredit lag = 5	СРІ	6.8047	СРІ	bankcredit	1.9443
privcredit lag = 5	СРІ	8.6555	СРІ	privcredit	26.8424*

Table 1d. Transition countries

Dependent variable: financial indicator	Excluded variable: legal index	Chi-square	Dependent variable: legal index	Excluded variable: financial indicator	Chi-square
marketcap lag = 4	SPI	2.0098	SPI	marketcap	6.0362
sharestraded lag = 5	SPI	6.4195	SPI	sharestraded	4.9790
turnoverratio lag = 4	SPI	6.5939	SPI	turnoverratio	7.1069
listed lag = 5	SPI	4.1690	SPI	listed	24.2963*
bankcredit lag = 5	CPI	11.3119*	CPI	bankcredit	5.9692
privcredit lag = 4	СРІ	5.0256	CP1	privcredit	2.9792

Table 1e. Common law countries

Dependent variable: financial indicator	Excluded variable: legal index	Chi-square	Dependent variable: legal index	Excluded variable: financial indicator	Chi-square
marketcap lag = 5	SPI	16.6203*	SPI	marketcap	0.8783
sharestraded lag = 5	SPI	16.2740*	SPI	sharestraded	5.6352
turnoverratio lag = 2	SPI	8.7912*	SPI	turnoverratio	1.2399
<i>listed</i> lag = 2	SPI	0.1205	SPI	listed	0.9630
bankcredit lag = 2	СРІ	4.4378	CPI	bankcredit	11.7242*
privcredit lag = 4	CPI	3.2676	CP1	privcredit	9.0261

Table 2. Relationship between Shareholder and Creditor Protection and Financial Development Indicators: Panel-data Estimation using the GMM Technique.

Table 2a. Dependent variable: stock market capitalization as a proportion of GDP (marketcap)

Independent	Common law	Developing
variable	countries	countries
SPI	0.333***	0.301***
	(0.107)	(0.075)
GDP per capita	0.222***	0.348**
(gdppercap)	(0.123)	(0.139)
dotcom dummy	-0.171	0.019
(dot)	(-0.198)	(0.184)
intercept (a)	0.558	-0.6 99
	(0.814)	(1.281)
R^2	0.659	0.329

Table 2c Dependent variable: turnover ratio (turnoverratio)

Independent	Common
variable	law
	countries
SPI	-0.359**
011	(0.144)
GDP per	0.246
capita	(0.229)
(gdppercap)	
dotcom	0.585**
dummy	(0.236)
(dot)	
intercept (a)	3.385
	(1.446)
R^2	0.227

Conclusions

- Indeterminacy of legal change in driving economic outcomes
- Formal, but not functional convergence
- Evidence of complementarity between legal and financial institutions
- Failure of transplanted laws to bed down in the civil law
- But, some evidence of beneficial impacts in the developing and transition countries
- Time to reassess Washington consensus? Need for more nuanced, context-specific approach