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The Interactive Dynamics of Transnational Business Governance:

A Challenge for Transnational Legal Theory*

Stepan Wood,^a Ken Abbott,^b Julia Black,^c Burkard Eberlein,^d and Errol Meidinger^e

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Abstract:

Conflict, convergence, cooperation, competition and other interactions among governance actors and institutions have long fascinated scholars of transnational law, yet transnational legal theorists' accounts of such interactions are for the most part tentative, incomplete and unsystematic. Having elsewhere proposed an overarching conceptual framework for the study of transnational business governance interactions (TBGI), in this article we propose criteria for middle-range theory-building. We argue that a portfolio of theoretical perspectives on transnational governance interactions should account for the multiplicity of interacting entities and scales of interaction; the co-evolution of social agency and structure; the multiple components of regulatory governance; the role of interactions as both influence and outcome; the diverse modes of interaction; the mechanisms and pathways of interaction; and the spatio-temporal dynamics of interaction. To suggest the value of these criteria, we apply them in a preliminary way to selected transnational legal scholarship and to the other articles in this special issue of *Transnational Legal Theory*.

Keywords:

Transnational law, transnational governance, interactions, legal theory, regulatory governance

JEL Classification codes: F23, F50, G23, G28, J80, K20, K33, L67, M14, N20, N30, N40

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1. THEORIZING INTERACTIVE DYNAMICS: AN INTRODUCTION

Conflict, convergence, cooperation and competition among legal systems, institutions, actors and rules have long fascinated scholars of transnational law. Indeed, understanding the dispersion of rule-making authority and managing the resulting overlaps and interactions are central problems of transnational law.¹ These problems have increased as transnational rule systems have proliferated and international law has fragmented. In this article we focus on an important subset of the phenomenon: interactions among actors and institutions engaged in the transnational governance of business conduct, or ‘transnational business governance interactions’ (TBGI). We propose criteria for theorizing these interactive dynamics and assess the articles in this special issue and other relevant transnational legal literature against them.

Scholars of transnational law frequently recognize the importance of governance interactions and address them from diverse perspectives. Yet with notable exceptions, their accounts are tentative, incomplete and unsystematic. Philip Jessup’s 1956 Storrs Lectures are illustrative. They show that interaction among legal orders has been a preoccupation of transnational law since its beginnings.² Jessup was concerned with the dispersion of ‘authority to make the rules men live by’, the transnational proliferation of law-making institutions and the interplay among rule systems.³ He saw the core problem for transnational law as determining which actors have effective authority to deal with which transnational situations and which rules prevail in cases of conflict. Jessup thus focused on rule conflict, primarily in the context of adjudication; his primary prescription was to authorize adjudicators ‘to choose from all of these bodies of law the rule considered to be most in conformity with reason and justice for the solution of any particular controversy’.⁴

Yet Jessup painted an incomplete picture. First, conflict is only one mode of interaction. Even within conflict of laws, cooperation abounds, through treaties, model laws, supranational legislation and mutual adjustment of national laws.⁵ Second, adjudication is only one component of regulatory governance; interaction also occurs at other stages. Most importantly, Jessup was frustratingly vague about the dynamics of interaction among normative orders. And although he recognized that non-state actors and institutions may promulgate legal rules, he barely explored their interactions with other legal orders.⁶

We argue for a more systematic, comprehensive analysis of the interactive dimension of transnational law. Our first step in this direction was to articulate a general analytical framework,⁷ summarized at the start of Part 3. Grounded in a regulatory governance perspective, the TBGI framework

¹ Eg Philip Jessup, *Transnational Law* (Yale University Press, 1956) 4–8.

² *Ibid.*

³ Jessup (n1) 8.

⁴ Jessup (n1) 106.

⁵ Eg Peter Stone, *EU Private International Law* (Edward Elgar, 2nd edn 2010).

⁶ The exception is a brief mention of maritime law as a mix of national laws, treaties and non-state rules. Jessup (n 1) 109–110.

⁷ Burkard Eberlein and others, ‘Transnational Business Governance Interactions: Conceptualization and Framework for Analysis’ (2014) 8 *Regulation and Governance* 1.

enables scholars to explore interactions among transnational, state and interstate rule systems; examine the effects of interactions on governance capacity, outputs, outcomes and impacts; and investigate how interactions can be steered to foster desired effects. It provides a common frame within which to identify knowledge gaps, plan research, compare results and generate descriptive typologies.

Yet an analytical framework can take us only so far. In the remainder of Part 3, we consider theory development. Given the complexity of transnational governance interactions, no single theoretical approach can be satisfactory. Thus, we aim to foster theoretical experimentation while encouraging the application of perspectives that are well suited to produce valuable insights in this complex field. For that purpose, we propose seven broad criteria for theory building: a portfolio or toolkit of theoretical perspectives on TBGI should account for the multiplicity of interacting entities and scales of interaction; the co-evolution of social agency and structure; the multiple components of regulatory governance; the role of interactions as both influence and outcome; the diverse modes of interaction; the mechanisms and pathways of interaction; and the spatio-temporal dynamics of interaction. To suggest the value of these criteria, we apply them in a preliminary way to the articles in this special issue and other relevant works.⁸

2. TRANSNATIONAL BUSINESS GOVERNANCE INTERACTIONS

Efforts to govern transnational activities have long existed in many domains of economic and social life, including weights and measures,⁹ products,¹⁰ accounting,¹¹ electricity,¹² and religious observance.¹³ With globalization, these efforts have proliferated. Today virtually every issue area, industry or profession that transcends national borders is the object of at least one transnational governance program. These range from straightforward technical coordination standards to the regulation of contentious production and consumption externalities.¹⁴

⁸ See also Stepan Wood, 'Transnational Governance Interactions: A Critical Review of the Legal Literature,' Osgoode Hall Law School Legal Studies Research Paper No. 35/2015, TBGI Project Subseries No. 21, <http://ssrn.com/abstract=2644465>. We engage with scholarship in international relations, political science and global governance in Eberlein, *ibid*.

⁹ Robert Tavernor, *Smoot's Ear: The Measure of Humanity* (Yale University Press, 2007).

¹⁰ John Perry, *The Story of Standards* (Funk & Wagnalls, 1955); Alan O Sykes, *Product Standards for Internationally Integrated Goods Markets* (Brookings Institute, 1995).

¹¹ Kees Camfferman and Stephen A Zeff, *Financial Reporting and Global Capital Markets: A History of the International Accounting Standards Committee 1973–2000* (Oxford University Press, 2006).

¹² Tim Büthe, 'Engineering Uncontestedness? The Origins and Institutional Development of the International Electrotechnical Commission (IEC)' (2010) 12(3) *Business & Politics* Article 4 <www.bepress.com/bap/vol12/iss3/art4> accessed 12 August 2014.

¹³ Mohammad Hashim Kamali, *Principles of Islamic Jurisprudence* (Islamic Texts Society, 3rd edn 2003); Timothy D Lytton, *Kosher: Private Regulation in the Age of Industrial Food* (Harvard, 2013).

¹⁴ Kenneth W Abbott and Duncan Snidal, 'International "Standards" and International Governance' (2001) 8 *Journal of European Public Policy* 345; Errol Meidinger, 'Beyond Westphalia: Competitive Legalization in Emerging Transnational Regulatory Systems' in Christian Brüttsch and Dirk Lehmkuhl (eds), *Law and Legalization in Transnational Relations* (Routledge, 2007).

With this multiplicity come increasingly complex interactions. In some domains, one governance scheme achieves dominance.¹⁵ In others, schemes address different issues (eg measuring greenhouse gas emissions vs the effectiveness of mitigation projects)¹⁶ or regulatory tasks (eg rule-making, enforcement and adjudication). In still others, schemes compete for ‘regulatory share’.¹⁷ They may compete on certain matters (eg rule stringency, transparency or verification) while cooperating or converging on others (eg general principles or design features). Competition and cooperation may lead to harmonization¹⁸ or to forum-shopping and persistent divergence.¹⁹ Interactions may foster experimentation, efficiency, innovation and learning, or engender duplication, inconsistency, confusion and ennui. In short, such interactive dynamics have important but little-understood implications for the legitimacy and effectiveness of transnational law and governance. They merit systematic study.

We begin by clarifying the concept of *transnational business governance interactions*. In *transnational* governance arrangements, non-state actors exercise significant authority in the performance of regulatory roles across national borders.²⁰ Like Gregory Shaffer and others, we focus on the transnational character of the actors and institutions that produce and apply law,²¹ not the activities or events that law addresses.²² The boundaries of the ‘transnational’ are necessarily fuzzy, and the literature abounds with definitions.²³ We emphasize the role of non-state actors and institutions in creating and exercising regulatory authority—a role that remains under-studied in comparison to that of state and interstate organisations. We accept the continuing importance of state and interstate actors, but focus on governance arrangements in which non-state actors play decisive roles, alone or with states or international organisations.

¹⁵ Bütthe (n 12) (electricity); John Braithwaite and Peter Drahos, *Global Business Regulation* (Cambridge University Press 2000) Chapter 11 (labour).

¹⁶ Eg Kenneth W Abbott, Jessica F Green and Robert O Keohane, ‘Organizational Ecology and Institutional Change in Global Governance’ (2016) *International Organization*, forthcoming.

¹⁷ Julia Black, ‘Legitimacy and the Competition for Regulatory Share’ (2009) LSE Law, Society and Economy Working Paper 14/2009 <<http://ssrn.com/abstract=1424654>> accessed 12 August 2014.

¹⁸ Eg Christine Overdevest, ‘Comparing Forest Certification Schemes: The Case of Ratcheting Standards in the Forest Sector’ (2010) 8 *Socio-Economic Review* 47; Timothy M Smith and Miriam Fischlein, ‘Rival Private Governance Networks: Competing to Define the Rules of Sustainability Performance’ (2010) 20 *Global Environmental Change* 511.

¹⁹ Eg Lars H Gulbrandsen, *Transnational Environmental Governance: The Emergence and Effects of the Certification of Forests and Fisheries* (Edward Elgar, 2010); Luc Fransen, ‘Multi-stakeholder Governance and Voluntary Programme Interactions: Legitimation Politics in the Institutional Design of Corporate Social Responsibility’ (2012) 10 *Socio-Economic Review* 163.

²⁰ Eberlein (n 7).

²¹ Gregory Shaffer, ‘Transnational Legal Ordering and State Change,’ in Gregory Shaffer (ed), *Transnational Legal Ordering and State Change* (Cambridge University Press, 2013) 1, 5.

²² Eg Henry J Steiner and Detlev F Vagts, *Transnational Legal Problems* (Foundation Press, 1968).

²³ Eg Jessup (n 1); Harold Hongju Koh, ‘Transnational Legal Process’ (1996) 75 *Nebraska Law Review* 181; Thomas Hale and David Held, ‘Editors’ Introduction: Mapping Changes in Transnational Governance’ in Thomas Hale and David Held (eds), *Handbook of Transnational Governance: Institutions and Innovations* (Polity, 2011) 1; Peer Zumbansen, ‘Transnational Legal Pluralism’ (2010) 1(2) *Transnational Legal Theory* 141.

We focus on the governance of *business*, which generates some of the most important challenges to (and developments in) global governance.²⁴ Business includes all trade and commerce, whether conducted by private or state actors. Crucially, business is a source, not merely a target, of regulatory governance. While targets always ‘co-produce’ regulation as they implement it,²⁵ we focus on arrangements in which business (often together with civil society groups and other non-state actors) *exercises authority* to perform regulatory roles, from agenda-setting and norm development to monitoring and enforcement. Interactions and the theoretical framework we propose may be equally relevant in domains where business is less central, such as terrorism, war, human rights, disease or education, but we leave these extensions for further research.

Within the expansive concept of *governance*, we focus particularly on the *regulatory variety*.²⁶ We understand regulation as:

the sustained and focused attempt to alter the behaviour of others according to identified purposes with the intention of producing a broadly identified outcome or outcomes which may involve mechanisms of standard-setting, information-gathering and behaviour-modification.²⁷

So conceived, regulatory governance encompasses a wide variety of instruments, control mechanisms and actors beyond authoritative legal rules promulgated and enforced by the state.²⁸ It presupposes no particular institutional arrangements, organisational forms or techniques. It incorporates not only goal-driven attempts at ordering, but also their failures and unintended consequences.²⁹ Regulatory governance is narrower than social control, as it operates through standards, rules, goals, targets or guidelines.³⁰ While it encompasses various gradations of coercion,³¹ it also includes the exercise of epistemic, persuasive and influential authority.³² Such authority is important in transnational governance, where regulators ‘have to promote a motivational response from those whose behaviour it is they seek to change, but often without the infrastructure of the state to fall back on’.³³

²⁴ Braithwaite and Drahos (n 15) 3.

²⁵ Julia Black, ‘Regulatory Conversations’ (2002) 29 *Journal of Law and Society* 163.

²⁶ Eg Errol Meidinger, ‘Multi-Interest Self-Governance through Global Product Certification Programmes’ in Olaf Dilling, Martin Herberg and Gerd Winter (eds), *Responsible Business: Self-Governance and Law in Transnational Economic Transactions* (Hart, 2008) 259; David Levi-Faur, ‘Regulation and Regulatory Governance’ in David Levi-Faur (ed), *Handbook on the Politics of Regulation* (Edward Elgar, 2011) 1.

²⁷ Black, ‘Regulatory Conversations’ (n 25) 170.

²⁸ Colin Scott, ‘Regulation in the Age of Governance: The Rise of the Post-Regulatory State,’ in Jacint Jordana and David Levi-Faur (eds), *The Politics of Regulation: Institutions and Regulatory Reforms for the Age of Governance* (Edward Elgar, 2004) 161–66.

²⁹ Eg Alan Hunt and Gary Wickham, *Foucault and Law: Towards a Sociology of Law as Governance* (Pluto, 1994).

³⁰ Christopher Hood, Henry Rothstein and Robert Baldwin, *The Government of Risk: Understanding Risk Regulation Regimes* (Oxford University Press, 2001) 25.

³¹ Eg Michael E Conroy, *Branded! How the ‘Certification Revolution’ is Transforming Global Corporations* (New Society, 2007).

³² Eg Patrick Glenn, ‘Persuasive Authority’ (1987) 32 *McGill Law Journal* 261; Mayo Moran, ‘Influential Authority and the Estoppel-Like Effect of International Law’ in Hilary Charlesworth and others (eds), *The Fluid State: International Law and National Legal Systems* (Federation Press, 2005) 156.

³³ Julia Black, ‘Constructing and Contesting Legitimacy and Accountability in Polycentric Regulatory Regimes’ (2008) 2 *Regulation & Governance* 137, 138–39.

We do not address the jurisprudential question of whether particular forms of normative ordering constitute *law*. Much of the transnational law literature remains preoccupied with this question.³⁴ As David Szablowski reminds us, law is a powerful label, reflecting collective aspirations for accountability, legitimacy, and right.³⁵ As a result, it is a powerful tool for legitimation and critique, and we are interested in how actors deploy the ‘law/not law’ distinction to buttress or contest claims of authority.

Interactions are mutual actions and responses of individuals, groups, institutions, structures or systems. They can be intentional or accidental, symmetrical or asymmetrical. Interactions in transnational business governance take many forms (eg competition, cooperation, meta-regulation), exploit different causal pathways (eg modeling, reciprocal adjustment, conditional rule referencing), produce different patterns (eg regulatory ensembles, orchestrations and ecosystems), and have diverse effects (eg strengthening or weakening democratic accountability; norm divergence or convergence; ratcheting up or down of standards). Interactions can be analyzed at a micro-level (among individual actors or norms), a meso-level (among regulatory schemes or regimes), or a macro-level (among regime complexes or populations).

While some may object that our definition of interaction includes everything (and therefore explains nothing), at this early stage in theory development it is important to maintain a broad definition so as to facilitate comparison across scales and levels, contexts and theoretical perspectives. Refinement of the concept can take place at the stage of operationalization.

To be sure, transnational (business) governance interactions are just one dimension of transnational law and governance. Our analytical framework and theoretical criteria do not purport to encompass transnational law as a whole and are not intended to displace general theories of transnational law. Rather, they are intended to extend, complement or challenge existing paradigms by insisting on the importance of interactive dynamics and by facilitating systematic theoretical attention to them.

Finally, although we focus here on criteria for explanatory and predictive theories, our analysis is informed by a normative agenda. We wish to understand the conditions under which governance interactions can advance democracy, justice, fairness, dignity, prosperity and environmental sustainability. We share with Boaventura de Sousa Santos, John Braithwaite, Peter Drahos and others a desire to understand and enhance the capacity of structurally disadvantaged interests to participate effectively in transnational governance.³⁶ How can governance interactions enhance popular sovereignty

³⁴ Eg Graft-Peter Calliess and Peer Zumbansen, *Rough Consensus and Running Code: A Theory of Transnational Private Law* (Hart, 2010); Nicole Roughan, *Authorities: Conflicts, Cooperation, and Transnational Legal Theory* (Oxford University Press, 2013).

³⁵ David Szablowski, *Transnational Law and Local Struggles: Mining, Communities and the World Bank* (Hart, 2007), 288; see also Stephen Clarkson and Stepan Wood, *A Perilous Imbalance: The Globalization of Canadian Law and Governance* (UBC Press, 2010) 26–27.

³⁶ Eg Boaventura de Sousa Santos, *Towards a New Legal Common Sense: Law, Globalization and Emancipation* (Butterworths, 2002); Boaventura de Sousa Santos and Cesar A Rodríguez-Garavito (eds), *Law and Globalization from Below: Towards a Cosmopolitan Legality* (Cambridge University Press, 2005); Braithwaite and Drahos (n 15) 103.

and ratchet up transnational standards in the interests of ordinary people and the planet?³⁷ When can interaction be a ‘weapon of the weak’³⁸ that empowers marginalized interests?

3. THEORIZING TRANSNATIONAL BUSINESS GOVERNANCE INTERACTIONS

Transnational governance is a dynamic, co-regulatory and co-evolutionary process involving state, non-state and hybrid actors and institutions at multiple levels. These actors and institutions have varied stakes and competencies, perform varied regulatory functions and interact in diverse ways. Our TBGI analytical framework has two axes, one representing dimensions of interaction, the other components of regulatory governance.³⁹ The resulting matrix enables researchers to decide which aspects of TBGI to analyze for what purposes, while leaving theoretical and methodological choices largely open.

The first axis of the framework identifies six features of interaction: the nature of the interacting entities; the drivers of interaction; the mechanisms and pathways of interaction; the character of interaction; the effects of interaction; and the temporal dynamics of interaction. Each of these features can be studied at different points in regulatory governance processes, which the second axis disaggregates into six components: problem definition and agenda-setting; norm development; implementation; monitoring and information gathering; enforcement; and review and evaluation. Although these components sometimes form a policy cycle, all are not always present; they have no necessary sequence; and they may or may not include feedback loops. These are empirical questions to be determined for each case.

The two axes produce a six-by-six matrix with 36 possible combinations. No study can be expected to address all 36 cells. Most studies will address just one or a few. The matrix prompts researchers to reflect consciously on which components and dimensions are relevant and facilitates comparison of results and identification of knowledge gaps.

The development and application of this framework provide important guidance as we move to theory building on TBGI. Fundamentally, the complexity revealed by the framework makes clear that a *portfolio* of theories is essential. Diversity of theoretical approaches should be encouraged, but to provide valid insights, each approach must recognize the complexity of the phenomenon even if it seeks to explain only a part of it. In our view, any theory of TBGI should take into account the following features of governance interactions and justify its focus within and among them:

1. The multiplicity of interacting entities and scales of interaction;
2. The co-evolution of agency and structure;
3. The multiple components of regulatory governance;
4. The intermediate position of interaction as both influence and outcome;
5. The diverse modes of interaction;

³⁷ Braithwaite and Drahos (n 15) 34–6.

³⁸ Braithwaite and Drahos (n 15) 626.

³⁹ Eberlein (n 7).

6. The mechanisms and pathways of interaction; and
7. The development of interaction over time and space.

These criteria are derived from our analytical framework, especially from the six features of interaction described above (interacting entities, drivers, mechanisms/pathways, character, effects, and temporal dynamics). Previously, we articulated these features mainly in terms of descriptive taxonomies.⁴⁰ Now, we elaborate deeper criteria for theory building. These criteria reflect substantive features of TBGI, not abstract attributes of theory such as verifiability, parsimony or robustness, which are also important. We take up these criteria in turn below, applying them to the special issue articles and to selected elements of the transnational legal literature.

3.1 Multiplicity of Entities and Scales

Any theoretical account of transnational governance interactions must specify who or what interacts.⁴¹ The special issue articles and legal literature identify numerous candidates, from individuals to social systems and from regulatory instruments to discourses. Choosing among these is an exercise in theory in which the researcher posits the nature of the interacting elements and specifies relevant units and levels of analysis. TBGI researchers should do this in a way that recognizes the heterogeneity of interacting entities, the often fuzzy and contingent character of their boundaries, the frequent multiplicity of their regulatory roles and the multi-scalar character of many of their interactions.

Many interacting entities are actors, such as individuals, governments, civil society organisations and business firms or associations. Individuals can play important roles as boundary-crossing norm entrepreneurs. Organisations are inherently complex, functioning simultaneously as actors and as arenas for interaction by individuals or other organisations.⁴²

Norms, instruments, and discourses also interact, as do regulatory schemes, regimes, systems and cultures. Their boundaries are even less clearly defined. Entities like these are both products of social action and social structures in which actions are embedded. Entities such as networks, epistemic communities and social movements exhibit characteristics of both actors and structures. No theory can encompass all actors, norms and social structures, but theories should recognize the heterogeneity of interacting entities and their roles.

Some illustrations from the legal literature show that there are many ways for theorists to accomplish this. Transnational legal process theory emphasizes interaction among norm entrepreneurs to articulate or interpret norms that guide future interactions, ultimately reconstituting actors' interests and identities.⁴³ Gregory Shaffer and Terence Halliday's transnational legal orders project examines interactions within the normative structure of transnational law (including legitimacy, clarity and

⁴⁰ Eberlein (n 7).

⁴¹ Eberlein (n 7) 8.

⁴² Hancher and Moran suggest that the most important regulatory interactions are between organisations. Leigh Hancher and Michael Moran, 'Organizing Regulatory Space' in Leigh Hancher and Michael Moran (eds), *Capitalism, Culture and Regulation* (Clarendon, 1989).

⁴³ Eg Harold Hongju Koh, 'Transnational Legal Process' (1996) 75 *Nebraska Law Review* 181; Harold Hongju Koh, 'Internalization through Socialization' (2005) 54 *Duke Law Journal* 975.

coherence), within national legal systems and between the two.⁴⁴ Liberal theories posit multi-level interactions among state, interstate, sub-state and non-state actors,⁴⁵ while rational-institutionalist theories of legalization combine interaction among actors and norms to explain the transnational spread of distinctively legal features.⁴⁶ Public international lawyers address interactions through concepts such as fragmentation,⁴⁷ ‘hard-soft’ law interaction,⁴⁸ and ‘trade and ...’ conflicts.⁴⁹ Regime complexity theory examines actor strategies within regime complexes.⁵⁰ These approaches remain primarily focused on state-based governance.

Other approaches emphasize non-state actors and institutions, including interactions between interstate and non-state law.⁵¹ Kenneth Abbott and Duncan Snidal locate interactions among diverse actors and institutions on a ‘governance triangle’ formed by the state, business and civil society.⁵² Abbott also applies regime complexity theory to non-state governance.⁵³ Theories of transnational private

⁴⁴ Gregory Shaffer, ‘The Dimensions and Determinants of State Change’ in Gregory Shaffer (ed), *Transnational Legal Ordering and State Change* (Cambridge University Press, 2013) 23; see also Terrence C Halliday and Gregory Shaffer (eds), *Transnational Legal Orders* (Cambridge University Press, 2015).

⁴⁵ Eg Anne-Marie Slaughter, ‘International Law in a World of Liberal States’ (1995) 6 *European Journal of International Law* 503; Andrew Moravcsik, ‘Liberal Theories of International Law,’ in Jeffrey L Dunoff and Mark A Pollack (eds), *Interdisciplinary Perspectives on International Law and International Relations: The State of The Art* (Cambridge University Press, 2013) 83.

⁴⁶ Eg Kenneth W Abbott and others, ‘The Concept of Legalization’ (2000) 54 *International Organization* 401; Kenneth W Abbott and Duncan Snidal, ‘Law, Legalization and Politics: An Agenda for the Next Generation of IL/IR Scholars’ in Dunoff and Pollack, *ibid*, 33.

⁴⁷ Eg Martti Koskeniemi and Päivi Leino, ‘Fragmentation of International Law? Post-Modern Anxieties’ (2002) 15 *Leiden Journal of International Law* 553; Margaret A Young (ed), *Regime Interaction in International Law: Facing Fragmentation* (Cambridge University Press, 2012); Harro van Asselt, *The Fragmentation of Global Climate Governance: Consequences and Management of Regime Interactions* (Edward Elgar, 2014).

⁴⁸ Eg Kenneth W Abbott and Duncan Snidal, ‘Hard and Soft Law in International Governance’ (2000) 54 *International Organization* 421; John J Kirton and Michael J Trebilcock (eds), *Hard Choices, Soft Law: Voluntary Standards in Global Trade, Environment, and Social Governance* (Ashgate, 2004); Gregory Shaffer and Mark Pollack, ‘Hard vs Soft: Alternatives, Complements and Antagonists in International Governance’ (2010) 94 *Minnesota Law Review* 706.

⁴⁹ Eg David W Leebron, ‘Linkages’ (2002) 96 *American Journal of International Law* 5; Joost Pauwelyn, *Conflict of Norms in Public International Law: How WTO Law Relates to Other Rules of International Law* (Cambridge University Press, 2003).

⁵⁰ Eg Kal Raustiala and David G Victor, ‘The Regime Complex for Plant Genetic Resources’ (2004) 58 *International Organization* 277; Laurence R Helfer, ‘Regime Shifting in the International Intellectual Property System’ (2009) 7(1) *Perspectives on Politics* 39; Kal Raustiala, ‘Institutional Proliferation and the International Legal Order’ in Dunoff and Pollack (n 45) 293, 294.

⁵¹ Eg Hanneke van Schooten and Jonathan Verschuuren (eds), *International Governance and Law: State Regulation and Non-State Law* (Edward Elgar, 2008); Math Noortmann and Cedric Ryngaert (eds), *Non-State Actor Dynamics in International Law: From Law-Takers to Law-Makers* (Ashgate, 2010).

⁵² Kenneth W Abbot and Duncan Snidal, ‘The Governance Triangle: Regulatory Standards Institutions and the Shadow of the State’ in Walter Mattli and Ngaire Woods (eds), *The Politics of Global Regulation* (Princeton University Press, 2009) 44.

⁵³ Kenneth W Abbott, ‘The Transnational Regime Complex for Climate Change’ (2012) 30 *Environment and Planning C: Government and Policy* 571; Kenneth W Abbott, ‘Strengthening the Transnational Regime Complex for Climate Change’ (2014) 3 *Transnational Environmental Law* 57.

regulation capture interactions within deterritorialized regulatory regimes,⁵⁴ but typically overlook inter-regime interactions, with notable exceptions including accounts of transnational meta-regulation.⁵⁵ Transgovernmental approaches explore cross-border interactions among courts, legislatures, regulatory agencies, subnational governments and international secretariats, often via networks.⁵⁶ Others examine the crucial role of intermediaries such as lawyers.⁵⁷ Comparative law has developed potentially fruitful analytical frameworks that combine the interaction of norm entrepreneurs, communities, legal structures and technological systems to explain legal transplantation and norm diffusion.⁵⁸

Contemporary theories of regulation and ‘new governance’ examine bargaining and intermediation among individuals and organisations that span the public-private divide.⁵⁹ John Braithwaite and Peter Drahos consider interactions among actors (individuals, organisations and states), normative principles and regulatory webs.⁶⁰ Theories of international regulatory competition and co-competition emphasize interactions between national legal systems⁶¹ but bring non-state actors in to a certain degree.⁶² In a similar vein, theories of multi-level governance involve horizontal, vertical and ‘diagonal’ interactions among actors and jurisdictions at different scales.⁶³ Robert Ahdieh’s concept of dialectical

⁵⁴ Eg Harm Schepel, *The Constitution of Private Governance: Product Standards in the Regulation of Integrating Markets* (Hart, 2005).

⁵⁵ Eg Jacco Bomhoff and Anne Meuwese, ‘The Meta-Regulation of Transnational Private Regulation’ (2011) 38 *Journal of Law and Society* 138; Colin Scott, ‘Beyond Taxonomies of Private Authority in Private Regulation’ (2012) 13 *German Law Journal* 1329.

⁵⁶ Eg Anne-Marie Slaughter, ‘The Accountability of Government Networks’ (2001) 8 *Indiana Journal of Global Legal Studies* 347; Kal Raustiala, ‘The Architecture of International Cooperation: Transgovernmental Networks and the Future of International Law’ (2002) 43 *Virginia Journal of International Law* 1; Anne-Marie Slaughter, *A New World Order* (Princeton University Press, 2004); Anne-Marie Slaughter, ‘A Global Community of Courts’ (2003) 44(1) *Harvard International Law Journal* 191.

⁵⁷ Eg Yves Dezalay and Bryant G Garth, *Dealing in Virtue: International Commercial Arbitration and the Construction of a Transnational Legal Order* (University of Chicago Press, 1996); Yves Dezalay and Bryant G Garth (eds), *Lawyers and the Rule of Law in an Era of Globalization* (Routledge, 2011).

⁵⁸ Eg Katharina Pistor, ‘Of Legal Transplants, Legal Irritants, and Economic Development’ in Peter Cornelius and Bruce Kogut (eds), *Corporate Governance and Capital Flows in a Global Economy* (Oxford University Press, 2003) 347.

⁵⁹ Eg Julia Black, ‘Proceduralizing Regulation, Part I’ (2000) 20 *Oxford Journal of Legal Studies* 597; Julia Black, ‘Proceduralizing Regulation, Part II’ (2001) 21 *Oxford Journal of Legal Studies* 33; Julia Black, ‘Decentering Regulation: Understanding the Role of Regulation and Self-Regulation in a “Post-Regulatory” World’ (2001) 54 *Current Legal Problems* 103; Christine Parker, *The Open Corporation: Effective Self-Regulation and Democracy* (Cambridge University Press, 2002); Scott (n 28); Orly Lobel, ‘The Renew Deal: The Fall of Regulation and the Rise of Governance in Contemporary Legal Thought’ (2004) 89 *Minnesota Law Review* 342; John Braithwaite, *Regulatory Capitalism: How It Works, Ideas for Making It Work Better* (Edward Elgar, 2008).

⁶⁰ Braithwaite and Drahos (n 15).

⁶¹ Eg William Bratton and others (eds), *International Regulatory Competition and Coordination: Perspectives on Economic Regulation in Europe and the United States* (Clarendon, 1996).

⁶² Eg Daniel C Esty and Damien Geradin, ‘Regulatory Co-opetition’ in Daniel C Esty and Damien Geradin (eds), *Regulatory Competition and Economic Integration* (Oxford University Press, 2001); Damien Geradin and Joseph A McCahery, ‘Regulatory Co-opetition: Transcending the Regulatory Competition Debate’ in Jacint Jordana and David Levi-Faur (eds), *The Politics of Regulation: Institutions and Regulatory Reforms for the Age of Governance* (Edward Elgar, 2004) 90, 112–14.

⁶³ Eg Hari M Osofsky, ‘The Geography of Climate Change Litigation: Implications for Transnational Regulatory Governance’ (2005) 83 *Washington University Law Quarterly* 1789; Robert A Schapiro, ‘From Dualist Federalism to Interactive Federalism’ (2006) 56 *Emory Law Journal* 1 (introduction to special issue on interactive federalism);

regulation focuses on inter-systemic interactions,⁶⁴ while experimentalist governance involves recursive interactions among central and decentralized units of various kinds.⁶⁵

Some transnational legal pluralists examine interactions among legal orders or cultures,⁶⁶ others among structural sites and strategic actors.⁶⁷ In Santos's conception of interlegality, hegemonic and counter-hegemonic legalities interact in collisions among 'rival normative ideas, knowledges, power forms, symbolic universes and agencies'.⁶⁸ Oren Perez studies interactions among state-based, non-state and hybrid organisations and regimes within a 'complex discursive labyrinth'.⁶⁹ Galf-Peter Calliess and Peer Zumbansen's theory of 'rough consensus and running code' involves interactions between actors and social structures, including norms, regimes, cultures and spaces.⁷⁰ Finally, at the structural end of the agency-structure continuum, Gunther Teubner's systems theory involves interaction among autopoietically closed social subsystems, including formal organisations and functionally differentiated societal subsystems.⁷¹

Halliday and Shaffer contend that the boundaries between interacting legal orders are fixed by discourses, ideological frames, subjective perceptions, alliances and conflicts.⁷² These elements are contestable and hard to measure, however. The fuzzy, permeable and contingent character of interacting entities can raise difficult issues of individuation, since 'interaction is often more like that between waves or clouds or rivulets than between hard, stable entities like rocks or billiard balls'.⁷³ Similar considerations

Hari M Osofsky, 'Is Climate Change "International"? Litigation's Diagonal Regulatory Role' (2009) 49 *Virginia Journal of International Law* 585 (2009).

⁶⁴ Robert B Ahdieh, 'Dialectical Regulation' (2006) 38 *Connecticut Law Review* 863; see also Robert A Schapiro, 'Federalism as Intersystemic Governance: Legitimacy in a Post-Westphalian World' (2007) 57 *Emory Law Journal* 115; Paul Schiff Berman, 'Dialectical Regulation, Territoriality, and Pluralism' (2006) 38 *Connecticut Law Review* 929.

⁶⁵ Charles F Sabel and Jonathan Zeitlin, 'Experimentalist Governance' in David Levi-Faur (ed) *The Oxford Handbook of Governance* (Oxford University Press, 2012) 169; Christine Overdevest and Jonathan Zeitlin, 'Assembling an Experimentalist Regime: Transnational Governance Interactions in the Forest Sector' (2014) 8 *Regulation and Governance* 22.

⁶⁶ Eg Sally Falk Moore, 'Law and Social Change: The Semi-Autonomous Social Field as an Appropriate Subject of Study' (1973) 7 *Law and Society Review* 719; John Griffiths, 'What Is Legal Pluralism?' (1986) 24 *Journal of Legal Pluralism and Unofficial Law* 1; Sally Engle Merry, 'Legal Pluralism' (1988) 22 *Law and Society Review* 869; Ralph Grillo, Roger Ballard, Alessandro Ferrari, André J Hoekema, Marcel Maussen and Prakash Shah (eds), *Legal Practice and Cultural Diversity* (Ashgate, 2009).

⁶⁷ Eg Francis G Snyder, 'Governing Globalisation,' in Michael Likosky (ed), *Transnational Legal Processes: Globalisation and Power Disparities* (Butterworths, 2002) 65.

⁶⁸ Santos, *New Legal Common Sense* (n 36) 472.

⁶⁹ Oren Perez, *Ecological Sensitivity and Global Legal Pluralism: Rethinking the Trade and Environment Conflict* (Hart, 2004) 259; see also Oren Perez, 'Private Environmental Governance as Ensemble Regulation: A Critical Exploration of Sustainability Indexes and the New Ensemble Politics' (2011) 12 *Theoretical Inquiries in Law* 543.

⁷⁰ Calliess and Zumbansen (n 34).

⁷¹ Eg Gunther Teubner, *Law as an Autopoietic System*, Anne Bankowska and Ruth Adler (trans), (Blackwell, 1993); Andreas Fischer-Lescano and Gunther Teubner, 'Regime-Collisions: The Vain Search for Legal Unity in the Fragmentation of Global Law' (2004) 25 *Michigan Journal of International Law* 999.

⁷² Halliday and Shaffer (n 44) 3, 30–31.

⁷³ William Twining, "Diffusion and Globalization Discourse" (2006) 47 *Harvard International Law Journal* 507, 513.

lead Fleur Johns to urge scholars to focus on the ‘hyphen’ between intersecting legal orders: the shifting spaces in which legal systems are constituted mutually by their encounters with one another.⁷⁴

Another important feature of interactions is the multiplicity of regulatory roles that actors often perform simultaneously. A business firm, for example, might implement standards and participate in standard-setting; a transnational governance scheme might set standards and also be subject to meta-rules. In short, transnational business governance involves ‘many kinds of actors which regulate while being regulated themselves’.⁷⁵

Finally, theoretical accounts of TBGI should recognize that interaction frequently occurs at and across multiple scales. Micro-level analyses examine how individual actors (people or organisations) interact within a regulatory scheme or jurisdiction to create, implement or enforce standards. Much of the theoretical literature on regulation,⁷⁶ especially transnational private regulation,⁷⁷ follows this approach, examining interactions among rule makers, targets, interpreters, enforcers or beneficiaries. Meso-level analyses examine how regulatory jurisdictions or schemes interact, in regimes or organisational fields, and how norms, discourses, cultures and other institutions enable and constrain action.⁷⁸ Finally, macro-level analyses explore how entire regimes or organisational fields intersect within larger complexes⁷⁹ or systems,⁸⁰ and how the latter entities interact with one another.

We argue elsewhere that meso-level analyses are initially the most fruitful, because they provide ‘sufficient abstraction to identify patterns and trends, without sacrificing empirical detail’.⁸¹ Yet we do not advocate an exclusive meso-level focus. Interactions often link different levels; they may occur

⁷⁴ Fleur Johns, ‘International Law-National Law: Thinking through the Hyphen’ in Hilary Charlesworth et al (eds), *The Fluid State: International Law and National Legal Systems* (Federation Press, 2005) 188; see also Janne Nijman and André Nollkaemper (eds), *New Perspectives on the Divide Between National and International Law* (Oxford University Press, 2007).

⁷⁵ Braithwaite and Drahos (n 15) 10.

⁷⁶ Eg Robert W Hahn and Roger G Noll, ‘Barriers to Implementing Tradable Air Pollution Permits: Problems of Regulatory Interactions’ (1983) 1 *Yale Journal on Regulation* 63; Ian Ayres and John Braithwaite, *Responsive Regulation: Transcending the Deregulation Debate* (Oxford University Press, 1992); Anthony Ogus, *Regulation: Legal Form and Economic Theory* (Hart, 2004); On Amir and Orly Lobel, ‘Liberalism and Lifestyle: Informing Regulatory Governance with Behavioural Research’ (2012) 3 *European Journal of Risk Regulation* 17.

⁷⁷ Eg Special Issue, *The Challenge of Transnational Private Regulation: Conceptual and Constitutional Debates* (2011) 38 *Journal of Law and Society* 1; Fabrizio Cafaggi (ed), *Enforcement of Transnational Regulation: Ensuring Compliance in a Global World* (Edward Elgar, 2012); Special Issue, *Transnational Private Regulatory Governance: Regimes, Dialogue, Constitutionalization* (2012) 13 *German Law Journal* 1269; Geoffrey P Miller and Fabrizio Cafaggi (eds), *The Governance and Regulation of International Finance* (Edward Elgar, 2013).

⁷⁸ Eg Errol Meidinger, ‘Regulatory Culture: A Theoretical Outline’ (1987) 9 *Law and Policy* 355; John and Valerie Braithwaite, ‘The Politics of Legalism: Rules versus Standards in Nursing-Home Regulation,’ (1995) 4 *Social & Legal Studies* 307; Julia Black, *Rules and Regulators* (Clarendon, 1997); Robert Baldwin and Julia Black, ‘Really Responsive Regulation’ (2008) 71 *Modern Law Review* 59.

⁷⁹ Eg Laurence R Helfer, ‘Regime Shifting: The TRIPs Agreement and New Dynamics of International Intellectual Property Lawmaking’ (2004) 29 *Yale Journal of International Law* 1; Raustiala and Victor (n 50); Laurence R Helfer, ‘Regime Shifting in the International Intellectual Property System’ (2009) 7(1) *Perspectives on Politics* 39; Raustiala, ‘Institutional Proliferation’ (n 50) 293; Abbott, ‘The Transnational Regime Complex for Climate Change’ (n 53); Abbott, ‘Strengthening the Transnational Regime Complex for Climate Change’ (n 53).

⁸⁰ Eg Teubner, *Law as an Autopoietic System* (n 71); Doorey, this issue.

⁸¹ Eberlein (n 7) 8.

simultaneously within a regulatory scheme (micro) and with other schemes (meso). Moreover, interactions frequently cut across geographic scales, from local to global. A fruitful theoretical portfolio should encompass the micro and meso levels, the meso and macro levels, or all three.

Table 1 provisionally (and contestably) locates a range of theoretical approaches on the continuum of scale. Strikingly, most approaches either squarely address the meso level or straddle that level and one or both of the others. This accords with our own recommendation and provides the basis for a fruitful theoretical portfolio.

Turning to the articles in this special issue, John Biggins and Colin Scott do not theorize interacting entities explicitly, but their account of TBGI in the field of financial derivatives is squarely actor-centred. Biggins and Scott focus on interactions among the key organisations involved in over-the-counter (OTC) derivatives regulation before and after the global financial crisis, including the International Swaps and Derivatives Association (ISDA), financial regulators, courts and financial firms. They examine simultaneous micro-level interactions within ISDA and meso-level interactions between ISDA and other organisations. These interactions cut across geographic scales, as between the global ISDA Master Agreement and national laws. Their case study invites further theorization of these interactions.

Karin Buhmann's study of the UN Guiding Principles on Business and Human Rights identifies a wide range of interacting entities, including organisations (eg UN Human Rights Council), societal segments (eg civil society), individuals (eg John Ruggie, the Special Representative of the UN Secretary General on business and human rights ('SRSG')), regulatory schemes (eg the UN Guiding Principles, UN Global Compact, OECD Guidelines, and national laws). Buhmann's focus on relationships among regulatory instruments is particularly intriguing.

Table 1. Micro-, meso- and macro-level theoretical perspectives on governance interactions

| Level of analysis/scale of interaction | Micro (Individual actors interact within a given jurisdiction or scheme) | Meso (Jurisdictions or schemes interact within regimes or fields; regimes, fields and discourses shape actors) | Macro (Regimes or fields interact within complexes or systems; complexes or systems interact with one another) |
|---|--|--|--|
| Examples of theoretical perspectives | Public and private interest theories of regulation Social norms Enrolment | Fragmentation of international law Orchestration Legalisation Institutional theories of regulation Regulatory competition, co-opetition Multilevel governance | Ensemble regulation |
| | Micro and meso International/transnational legal process Transnational legal orders Constructivist international relations/international law theory Liberal international relations/international law theory Transgovernmental networks (Transnational) private regulation Experimentalist governance (Global) legal pluralism Rough Consensus, Running Code | | Meso and macro Regime complexity Interlegality |
| | Micro, meso and macro Global business regulation Systems theory | | |

It is not always clear in this analysis who or what is interacting. In our terms, however, Buhmann offers a micro-level analysis of interactions at the rule formation stage, focusing on the SRSG's enrollment of private and public actors. Later, she presents a meso-level analysis of interactions between the UN Guiding Principles and other programs at the implementation stage, with a focus on mutual 'piggy-backing' by these programs to enhance their legitimacy and effectiveness. Her account shows that scales of interaction and analysis can shift as activity moves from one component of the regulatory process to another. It also invites theoretical attention to the relations among actors, instruments, institutions and discourses.

Kernaghan Webb also identifies a variety of interacting entities in his study of the International Organisation for Standardization's ISO 26000 social responsibility guidance standard. These include organisations (eg ISO and other instrument developers), individuals (eg Working Group experts), regulatory instruments (eg ISO 9000 and 14001; ILO Core Conventions), norms (eg due diligence and Plan-Do-Check-Act), issue areas (eg labour, human rights and environment) and societal sectors (public, private and civil society). While Webb paints a rich picture, it is again not always clear which of these are interacting at any specific point.

Webb's account shows that interactions can occur and be analyzed simultaneously at the micro, meso and macro levels. It also indicates, like Buhmann's, that the nature and scale of interaction can shift across regulatory governance components. At the rule formation stage, Webb traces a combination of micro-level interactions within ISO and meso-level interactions between ISO and competitor organisations. At the implementation stage, he describes meso-level interactions among ISO, states and business actors to solidify ISO 26000's status as a global custom, and macro-level interactions between this custom and domestic legal systems.

Webb also shows ISO to be a multi-level, multi-scalar arena for interaction. First, ISO is a meta-organisation of national standards bodies and international organisations. As a result, it is a powerful convener; interactions between ISO and other standard-setters occur both outside and within ISO, blurring the line between micro and meso. Second, ISO standards are drafted by individual experts acting in a personal capacity, while standards are approved by national standards organisations. Third, ISO is the pinnacle of a deep and broad standardization infrastructure spanning subnational, national and transnational spheres. Fourth, in developing ISO 26000, ISO organised experts into stakeholder categories, encouraging transnational collaboration within and between them. The process thus encompassed diverse cross-actor and cross-scale interactions. It would be fascinating to theorize these features, identify other organisations where they appear and investigate their role in TBGI.

David Doorey is alone among the authors in this special issue in devoting substantial attention to theory development. He identifies two categories of interacting entities in the development of a living wage norm in transnational codes of conduct for supply chains: organisations and social subsystems. He first examines interactions among diverse NGOs, labour unions, firms, trade associations, governments, and standards schemes within a TBG social subsystem. Doorey emphasizes heterogeneity within as well as between categories and even individual actors. He also examines interactions between the TBG subsystem and other subsystems in its environment.

Doorey develops a model of TBGI grounded in the theory of open systems. His model links the micro-level of interaction (among individuals, NGOs and firms) to the meso-level (among transnational regulatory schemes) and the macro-level (between societal subsystems). Here again, the scale of interaction shifts over time: from micro-level, conflictual interactions between NGOs and business; to meso-level competition between TBG schemes; and to multi-level interactions that facilitated the spread of the living wage norm from NGO-led to business-led schemes. Macro-level interactions among social subsystems conditioned all these interactions.

Doorey's individuation of the TBG subsystem raises some questions. Treating it as a single, functionally autonomous system might obscure both its in-between-ness⁸² and its internal heterogeneity.⁸³ This limitation notwithstanding, Doorey's model provides one possible answer to the theoretical challenge of capturing the multi-scalar and multi-level character of governance interactions.

⁸² See Johns (n 74).

⁸³ By contrast, Calliess and Zumbansen (n 34) identify numerous subsystems in the general space of transnational business governance.

3.2 Co-evolution of Agency and Structure

Theoretical frameworks that focus only on structural features such as institutions, discourses, cultures, technological systems or social systems without attending to actors and their interests and resources, or that analyze strategic action in isolation from the social structures in which it occurs, will fail to grasp all the dynamics of governance interactions. Structural elements help constitute actors' identities and possibilities for action, and are in turn constituted, reproduced and transformed by actors' actions. Whether a theoretical perspective emphasizes agency or structure, therefore, it should recognize this mutual constitution and co-evolution.

Theories that emphasize reflexivity, co-evolution and mutual interaction between agency and structure will have particularly strong purchase. This includes most institutionalist, experimentalist, socio-legal, pluralist and legal-process approaches described above.⁸⁴ It also includes constructivist theories of international law, which assume the mutual construction of social structures and actors' identities and choices.⁸⁵ In Jutta Brunnée and Stephen Toope's interactional theory, for example, normative structures are constructed, reproduced and transformed via interaction between intersubjective norm-creation and actors' ongoing practices of legality.⁸⁶

Other approaches to the agency-structure challenge can also be valuable. Consider the two theoretical perspectives in the bottom row of Table 1; both engage micro-, meso- and macro-level interactions simultaneously, yet offer contrasting perspectives on agency-structure interaction.

Braithwaite and Drahos seek to explain how micro-level actions 'constitute structural change, just as those micro processes are constituted and constrained' by macro structures.⁸⁷ They theorize micro-macro sequences of regulatory globalization in which entrepreneurs promote a regulatory innovation and enrol organisational power via webs of dialogue. The innovation spreads through modeling, eventually becoming a standard.⁸⁸ Braithwaite and Drahos also theorize a forum-shifting sequence.⁸⁹ In our terms, this is a meso-level phenomenon in which an actor moves a regulatory agenda from one forum to another, abandons a forum, pursues an agenda in multiple fora or blocks a forum from acting.⁹⁰

Forum-shifting is used by a range of state and non-state actors.⁹¹ Business groups' creation of their own forestry certification schemes to divert the forest certification agenda away from the multi-

⁸⁴ See Wood (n 8) for a detailed discussion.

⁸⁵ Eg Friedrich Kratochwil, *Rules, Norms and Decisions: On the Conditions of Practical and Legal Reasoning in International Relations and Domestic Affairs* (Cambridge University Press, 1989); Ian Johnstone, *The Power of Deliberation: International Law, Politics and Organizations* (Oxford University Press, 2011).

⁸⁶ Jutta Brunnée and Stephen J Toope, 'International Law and Constructivism: Elements of an Interactional Theory of International Law' (2000) 39 *Columbia Journal of Transnational Law* 19; Jutta Brunnée and Stephen J Toope, *Legitimacy and Legality in International Law: An Interactional Account* (Cambridge University Press, 2010).

⁸⁷ Braithwaite and Drahos (n 15) 14.

⁸⁸ Braithwaite and Drahos (n 15) 33, 551, 559–62.

⁸⁹ Braithwaite and Drahos (n 15) 564, 569–71.

⁹⁰ Braithwaite and Drahos (n 15) 29, 564.

⁹¹ Eg Laurence R Helfer, 'Forum Shopping for Human Rights' (1999) 148 *University of Pennsylvania Law Review* 285.

stakeholder Forest Stewardship Council (FSC) is an example.⁹² More recently, the FSC and its main industry-led competitor failed in a joint bid to block ISO from taking up the sustainable forestry standardization agenda,⁹³ while consumer and business interests succeeded in making ISO an alternative to the ILO as a forum for developing global labour-related standards.⁹⁴ A closely related strategy of institutional bypass has been used by non-state actors to get around intergovernmental fora.⁹⁵ Forum-shifting and institutional bypass are promising strategies by which micro- or meso-level interaction can produce macro-level change.

While Braithwaite and Drahos recognize the co-evolution of agency and structure, their account is fundamentally actor-centred.⁹⁶ They insist that ‘explanation is not indissolubly linked to social systems’, and they ‘take seriously the intentionality of agents and the ways in which their beliefs and desires can lead them to change their regulatory worlds’.⁹⁷ This has the advantage of clearly identifying the drivers of regulatory interaction (goal-seeking agency). Yet there are also other potentially fruitful avenues for investigation, including interactions among norms, discourses or social systems; logics of contradiction, juxtaposition and contingency; and uncalculated interactions such as institutional isomorphism.⁹⁸

Teubner’s theory of autopoietically closed systems offers a contrasting perspective on the agency-structure relationship.⁹⁹ Although this theory might appear to offer a purely macro-level analysis, it actually spans all three levels. Interaction takes place between societal subsystems (macro) and between organisations (micro and meso). Every attempt to regulate an organisation involves inter-systemic interaction; all inter-systemic interactions must pass through the ‘eye of the needle’ of individual

⁹² The main industry-led umbrella scheme, the Programme for the Endorsement of Forest Certification (PEFC), boasts a much larger total certified area despite having been created six years after the FSC and despite strong endorsement of the FSC by many civil society groups and academics (though the FSC’s total certified area is growing at a quicker rate). See generally Benjamin Cashore, Graeme Auld and Deanna Newsom, *Governing Through Markets: Forest Certification and the Emergence of Non-State Authority* (Yale University Press, 2004) 9–17; Overdeest (n 18). For growth in total certified area, see United Nations Environment Program, *Towards a Green Economy: Pathways to Sustainable Development and Poverty Eradication* (UNEP, 2011) 136.

⁹³ Joint Statement by the Forest Stewardship Council (FSC) and the Programme for the Endorsement of Forest Certification (PEFC) recommending ISO members to vote against the New Work Item Proposal *Chain of Custody of Forest Based Products-Requirements* (8 July 2013, copy on file with authors).

⁹⁴ Namely, ISO 26000 (social responsibility) and ISO 45001 (occupational health and safety). This development challenges Braithwaite and Drahos’s conclusion ((n15) 567, 572–4) that the ILO’s tripartite structure deters forum-shifting. Whether forum-shifting to ISO will undermine or strengthen the ILO remains to be seen. For a pessimistic assessment see Janelle M Diller, ‘Private Standardization in Public International Lawmaking’ (2012) 33 *Michigan Journal of International Law* 481. On ISO generally see Stepan Wood, ‘The International Organization for Standardization’ in Darryl Reed, Peter Utting and Ananya Mukherjee-Reed, *Business Regulation and Non-State Actors: Whose Standards? Whose Development?* (Routledge, 2012) 81.

⁹⁵ Steven J Hoffman and John-Arne Røttingen, ‘Dark Sides of the Proposed Framework Convention on Global Health’s Many Virtues: A Systematic Review and Critical Analysis’ (2013) 15(1) *Health and Human Rights* 117.

⁹⁶ Braithwaite and Drahos (n 15) 9, 16, 528–30.

⁹⁷ Braithwaite and Drahos (n 15) 17.

⁹⁸ Eg Teubner, *Law as an Autopoietic System* (n 71); John Law and John Hassard (eds), *Actor Network Theory and After* (Blackwell, 1999); Pierre Schlag, ‘The Aesthetics of American Law’ (2002) 115 *Harvard Law Review* 1047; Bruno Latour, *The Making of Law: An Ethnography of the Conseil d’État* (Polity, 2010).

⁹⁹ For a detailed discussion, see Wood (n 8).

communicative events.¹⁰⁰ Teubner's interactive mechanisms of blind co-evolution, information and interference¹⁰¹ operate simultaneously at all three levels. But autonomous human agents take a back seat. Social systems are constituted by communications, not by human beings.¹⁰² The theory of autopoietic systems thus offers a radically limited account of the co-evolution of agency and structure.

Doorey's use of open systems theory offers an alternative. It combines macro-level interactions among social subsystems with micro-level interactions among individuals and organisations. Within the TBG subsystem, actors interact via varied pathways and mechanisms to produce regulatory rules and behavioural change. Internal feedback loops link these outputs back to actors, while external feedback loops link them to economic, legal and other subsystems, which in turn provide inputs to the TBG subsystem.¹⁰³ The co-evolution of agency and structure is central to Doorey's model. Alignment or conflict among actors' goals, values and risk perceptions is a powerful driver of interaction, but actors' characteristics—and the choices available to them—evolve in response to structural forces. This approach suggests the possibility of breaking open the 'black box' of actor characteristics and examining their relation to social structures.¹⁰⁴

Calliess and Zumbansen's Rough Consensus and Running Code (RCRC) offers another systems theory-inspired perspective. On one hand, the fragmentation of society into autonomous, functionally differentiated, law-creating subsystems with competing rationalities creates the structures that shape actors' identities and possibilities for action (macro).¹⁰⁵ On the other hand, actors' interactions generate the rough consensus that congeals into a subsystem's running code and drives its continual evolution (micro).¹⁰⁶ The RCRC model provides a promising theoretical frame for analyzing interactions among actors, norms and social structures.

Turning to other articles in this special issue, Biggins and Scott hint at a subtle relationship between the ISDA and market-wide institutional structures. For example, the Master Agreement and close-out netting procedures devised by ISDA were adopted so widely that they became part of the institutional structure of the derivatives market. As such, they helped moderate the global financial crisis in that market, leading powerful states to enhance ISDA's agency further.

Buhmann hints at another agency-structure relationship. By combining an actor-centred negotiation history with discourse analysis, she illustrates the mutual construction of small-scale agency and large-scale discursive structures, including the strategic deployment of discourse to influence action.¹⁰⁷ Theorizing these agency-structure interactions would be a welcome next step.

¹⁰⁰ Gunther Teubner, 'Evolution of Autopoietic Law' in Gunther Teubner (ed), *Autopoietic Law: A New Approach to Law and Society* (Walter de Gruyter, 1988) 217, 236.

¹⁰¹ See Wood (n 8).

¹⁰² Gunther Teubner, 'Introduction to Autopoietic Law' in Teubner, *Autopoietic Law* (n 100) 1, 3.

¹⁰³ See Figure 1 in Doorey, this issue, for a depiction of the entire system.

¹⁰⁴ Doorey, *ibid*.

¹⁰⁵ Calliess and Zumbansen (n 34) 44–50.

¹⁰⁶ Calliess and Zumbansen (n 34) 135–6. We nonetheless place this theory in the micro-meso cell of Table 1 because the authors focus almost entirely on these levels.

¹⁰⁷ Buhmann, this issue.

3.3 The Components of Regulatory Governance

Our analytical framework identifies six components of regulatory governance: agenda-setting, norm formation, implementation, monitoring, enforcement and review.¹⁰⁸ Whatever theoretical frameworks they apply, researchers should recognize that regulatory governance has such components, and that interactions can occur within any of them. This divisibility also invites theory development. Each component ‘demands a different portfolio of resources or capacities, including financial resources, organisational capacity, expertise, legitimacy, and strategic position’.¹⁰⁹ Each can, moreover, involve different actors and display distinct interactive dynamics, as Buhmann and Webb show.¹¹⁰

Much of the legal literature examines only one or two components, most commonly norm formation¹¹¹ and enforcement (adjudication).¹¹² Margaret Young, Robert Howse and Ruti Teitel are among the scholars calling for attention to a broader range of regulatory processes.¹¹³ Analyzing interactive dynamics within and among different components will be a valuable area of theory building.

The articles in this issue illustrate the opportunities. Scott has elsewhere emphasized the importance of looking beyond standard-setting in transnational private regulation,¹¹⁴ and he and Biggins do so in their article. They trace how interactions expanded from agenda-setting and norm formation to implementation and enforcement. Interactions in agenda-setting and rule formation included micro-level bargaining among dealer banks to produce the ISDA Master Agreement and meso-level interaction in which ISDA drafted and governments enacted OTC derivatives-friendly legislation. Here the outputs of micro-level interactions (boilerplate contracts) were inputs to meso-level interactions, reinforcing ISDA’s lobbying for self-regulation. Once the ISDA self-regulatory regime achieved global dominance, governments implicitly endowed it with additional interpretative and adjudicative responsibilities, exercised mainly by newly formed credit derivatives determination committees (DCs). DCs have unusual significance because of their impact on the financial positions of states and their creditors.

Buhmann discusses all six components of regulatory governance, showing how the nature and scale of interaction change as activities shift from one component to another. During agenda-setting, micro-level interactions within the UN human rights apparatus evolved from competition to coordination. During rule formation, micro and meso interactions blended together, shifting to cooptation and meta-regulation as the UN Guiding Principles achieved dominance. During implementation, the focus shifted again, to meso-level mutual ‘piggy-backing’ by the UN Guiding Principles and other programs.

Doorey’s article illustrates how conflict during rule formation (over defining a living wage) can be diverted into cooperation at the implementation stage (where experimentation with implementation

¹⁰⁸ Eberlein (n 7) 6. The regulatory governance process can also be disaggregated in other ways.

¹⁰⁹ Eberlein (n 7).

¹¹⁰ See above, Part 2.1.

¹¹¹ Eg Calliess and Zumbansen (n 34).

¹¹² Eg Jessup (n 1).

¹¹³ Margaret A Young, ‘Introduction: The Productive Friction Between Regimes’ in Young (n 47) 1; Robert Howse and Ruti Teitel, ‘Beyond Compliance: Rethinking Why International Law Matters’ (2010) 1 *Global Policy* 127.

¹¹⁴ Scott (n 55).

strategies led to agreement on a ‘wage ladder’ approach). It also indicates, however, that the result may be merely to defer rather than to resolve conflict.

Webb’s study invites theorization on two points. First, the same interactions may affect multiple components of regulation simultaneously. For example, interactions over implementation of ISO 26000 occur partly within state and interstate norm development processes. One scheme’s implementation may thus be another’s norm formation, involving similar actors and interactions. Second, the article suggests that organisations’ pre-existing legitimacy endowments influence interactions across multiple components. ISO’s legitimacy as a global standards-setter facilitated its assertion of authority over social responsibility (SR) standards at the agenda-setting stage. During norm development, it allowed ISO to steer competition with rival SR standard-setters into co-opetition within ISO. During implementation, the widespread acceptance of the ISO management systems standards on which ISO 26000 was modelled facilitated business uptake of the new standard.

In sum, scholars of TBGI should turn their attention to theorizing interactions within and across the components of regulatory governance. Important questions for theory development include whether particular components have peculiar interaction dynamics; whether those dynamics change when interactions relate simultaneously to multiple components; how interactions in one component influence those in another; how linkages between components can be exploited to manage regulatory interactions; where feedback loops are likely to emerge; and how organisational legitimacy endowments influence interactions throughout the regulatory governance process.

3.4 The Intermediate Position of Interaction

Theories of transnational governance interaction must recognize that interactions occupy a dual position. On one hand, they are the results of conditions, forces and actions that influence who or what will interact, when and how. On the other hand, interactions affect the design of regulatory institutions, the nature and content of regulation, the perceptions and behaviour of regulated actors, and other downstream conditions.

A range of factors drives interaction.¹¹⁵ Actor-level drivers include alignment or conflict of goals, perceptions and interests, and overlapping scope of activity.¹¹⁶ System-level drivers include functional differentiation of society into subsystems with different logics;¹¹⁷ duplication or inconsistency of rules;¹¹⁸ and governance gaps created by globalization and the transformation of the state.¹¹⁹ Other relevant factors include problem structure,¹²⁰ industry structure,¹²¹ technical systems,¹²² discursive structures and cultures.

¹¹⁵ Eberlein (n 7) 9–10.

¹¹⁶ Eg Doorey, this issue.

¹¹⁷ Eg Gunther Teubner, “‘Global Bukowina’: Legal Pluralism in the World Society” in Gunter Teubner (ed), *Global Law Without a State* (Dartmouth, 1997) 3; Schepel (n 54).

¹¹⁸ Raustiala, ‘Institutional Proliferation’ (n 50) 309, argues that fragmentation and conflict, not proliferation and density per se, drive interaction.

¹¹⁹ Eg Calliess and Zumbansen (n 34).

¹²⁰ Eg Braithwaite and Drahos (n 15) 58; Abbott and Snidal, ‘Law, Legalization and Politics’ (n 46) 50.

¹²¹ Eg Cashore, Auld and Newsom (n 92).

Turning to effects, the ultimate goal of our research agenda is to explain and predict the impacts of governance interactions on social, political and environmental conditions.¹²³ However, such impacts are very difficult to determine, given the complexity of causal and other relations and the multiplicity of contributing factors beyond regulation (let alone regulatory interactions). These points have important implications for TBGI theory building. We focus here on two: choosing the object of inquiry and integrating drivers and effects.

First, if it is not practicable to assess directly the social impacts of governance interactions, what is the most fruitful proxy? The most common alternatives are outputs and outcomes.¹²⁴ Outputs of interaction include regulatory standards and institutional design features. Outcomes include changes in behaviour, values or perceptions. Ideally, scholars should seek to theorize how interactions affect the outputs and outcomes not only of single governance schemes but of entire governance regimes.

In studying outputs, theories of institutional isomorphism,¹²⁵ norm diffusion¹²⁶ and regulatory races¹²⁷ are relevant. Of particular interest are theories explaining how races become ratchets. Braithwaite and Drahos argue that certain principles can combine to prevent reversal of a regulatory race's direction, transforming a race into a ratchet.¹²⁸ They theorize the conditions for this to occur and give numerous illustrations. Multiple ratchets are particularly powerful. In forestry, for example, principles of rule compliance and continuous improvement in national law, ISO 14001 and the FSC create multiple ratchets, each driving regulatory standards up and all of them together preventing backsliding.¹²⁹

¹²² Eg Tony Porter, 'Technical Systems and the Architecture of Transnational Business Governance Interactions' (2014) 8 *Regulation & Governance* 110

¹²³ Eberlein (n 7) 13.

¹²⁴ Arild Underdal, 'Methodological Challenges in the Study of Regime Effectiveness' in Arild Underdal and Oran R Young (eds), *Regime Consequences: Methodological Challenges and Research Strategies* (Kluwer, 2004) 27.

¹²⁵ Eg Lars H Gulbrandsen, 'Sustainable Forestry in Sweden: The Effect of Competition Among Private Certification Schemes' (2005) 14 *Journal of Environment and Development* 338; Tim Bartley, 'Institutional Emergence in an Era of Globalization: The Rise of Transnational Private Regulation of Labor and Environmental Conditions' (2007) 113 *American Journal of Sociology* 297; Klaus Dingwerth and Philip Pattberg, 'World Politics and Organizational Fields: The Case of Transnational Sustainability Governance' (2009) 15 *European Journal of International Relations* 707; Luc Fransen, 'Why Do Private Governance Organizations Not Converge? A Political-Institutional Analysis of Transnational Labor Standards Regulation' (2011) 24 *Governance* 359.

¹²⁶ Eg William Twining, 'Diffusion of Law: A Global Perspective' (2004) 49 *Journal of Legal Pluralism and Unofficial Law* 1, 14; Donald W Jackson, Michael C Tolley and Mary L Volcansek (eds), *Globalizing Justice: Critical Perspectives on Transnational Law and the Cross-Border Migration of Legal Norms* (State University of New York Press, 2010).

¹²⁷ Eg David Vogel, *Trading Up: Consumer and Environmental Regulation in a Global Economy* (Harvard University Press, 1995); William W Bratton and Joseph A McCahery, 'The New Economics of Jurisdictional Competition: Devolutionary Federalism in a Second-Best World' (1997) 86 *Georgetown Law Journal* 201; Joel P Trachtman, 'Regulatory Competition and Regulatory Jurisdiction in International Securities Regulation' in Esty and Geradin (n 62) 290.

¹²⁸ Braithwaite and Drahos (n 15) 518–20.

¹²⁹ Braithwaite and Drahos (n 15) 616. Christine Overdeest (n 18) identifies a different upward ratchet in sustainable forestry standards, created by competition between the FSC and industry-led schemes. Abbott and Snidal, (n 46) 44, identify law itself as a ratchet due to its stickiness.

In addition to behavioural change, outcomes can include dialogue, information sharing, shared understandings, policy learning, and changed values, perceptions or expectations. They may also include heightened hostility or mistrust. As Doorey notes, such outcomes can emerge even without formal outputs such as rules.¹³⁰

We propose focusing on one outcome in particular: changes in the capacity of regulatory governance actors, schemes and systems.¹³¹ Scholars should investigate how interactions affect the mobilization of motivations, competences and resources along governance chains, and how capacities affect the performance of regulatory systems—in the narrow sense of making rules and shaping practices. The motivations, competences and resources that must be enrolled are controlled by a variety of actors, who may be unwilling or unable to contribute, leaving the regulatory system without essential capacities and jeopardizing its performance.

Do interacting schemes reinforce one another and promote diverse solutions¹³² through innovation, experimentation, learning and adaptability?¹³³ Or do they work at cross-purposes, facilitating forum-shopping for the least stringent rules?¹³⁴ What conditions—eg, shared interests, goals and cognitive understandings—are associated with successful mobilization and orchestration of actors and resources? Bruno Latour's concept of enrolment (the interactive process of mobilizing other actors and their resources in support of an actor's regulatory goals) should be fruitful here.¹³⁵ Yet questions remain, including which indicators of capacity to adopt, how to isolate the effects of interaction from other factors, and how to assess the independent effect of capacity constraints on regulatory performance. There is also a need to theorize the effects of interaction on governance capacity in deeper senses, including democracy, legitimacy, openness, transparency and accountability.¹³⁶

¹³⁰ Doorey, this issue.

¹³¹ Eberlein (n 7) 13.

¹³² Eg Abbott, 'The Transnational Regime Complex for Climate Change' (n 53); Benjamin Cashore and Michael Stone, 'Does California Need Delaware? Explaining Indonesian, Chinese, and United States Support for Legality Compliance of Internationally Traded Products' (2014) 8 *Regulation & Governance* 49; Lars H Gulbrandsen, 'Dynamic Governance Interactions: Evolutionary Effects of State Responses to Non-state Certification Programs' (2014) 8 *Regulation & Governance* 74.

¹³³ Charles F Sabel and Jonathan Zeitlin, 'Learning from Difference: The New Architecture of Experimentalist Governance in the EU' (2008) 14 *European Law Journal* 271; Robert O Keohane and David G Victor, 'The Regime Complex for Climate Change' (2011) 9 *Perspectives on Politics* 7.

¹³⁴ Eg Thomas Gehring and Sebastian Oberthür, 'The Causal Mechanisms of Interaction between International Institutions' (2009) 15 *European Journal of International Relations* 125; Tim Bartley, 'Transnational Governance and the Re-centered State: Sustainability or Legality?' (2014) 8 *Regulation & Governance* 93.

¹³⁵ Bruno Latour, 'The Powers of Association' in John Law (ed), *Power, Action and Belief: A New Sociology of Knowledge?* (Routledge, 1986); Bruno Latour, *Laboratory Life: The Social Construction of Scientific Facts* (Princeton University Press, 1986); Peter Grabosky, 'Using Non-Governmental Resources to Foster Regulatory Compliance' (1995) 8 *Governance* 527; Julia Black, 'Mapping the Contours of Contemporary Financial Services Regulation' (2002) 2 *Journal of Corporate Law Studies* 253; Julia Black, 'Enrolling Actors in Regulatory Processes: Examples from UK Financial Services Regulation' (2003) *Public Law* 62.

¹³⁶ Eg Errol Meidinger, 'Competitive Supragovernmental Regulation: How Could It Be Democratic?' (2008) 8 *Chicago Journal of International Law* 513; Calliess and Zumbansen (n 34) 264.

A second challenge for theory is to integrate a backward-looking focus on the drivers of interaction with a forward-looking analysis of its effects. The phenomena they capture are closely intertwined in the regulatory process. Problem structure, for example, is both a background condition that shapes interaction and at least partly the product of discursive interaction.¹³⁷ This challenge can be addressed in many ways, including applying a single theoretical frame to drivers and effects, and drawing on multiple theoretical tools to wrestle with drivers, effects or both.

In this special issue, Biggins and Scott offer a functional account of the drivers of governance interactions in derivatives markets. Increasingly complex financial transactions and the liberalization of state regulation created a governance gap, prompting demand from market actors for coordination and sporadic pressure from states for industry self-regulation. The resulting interactions between state and industry actors had three main effects: the emergence of a hybrid public-private governance regime; ISDA's consolidation as the dominant non-state regulator; and further enhancement of ISDA's regulatory role following the global financial crisis.

Drawing on Tim Büthe's study of the International Electro-technical Commission,¹³⁸ the authors explain ISDA's dominance as a result of state support and ISDA's neutralization of competitors, both explicitly interactive processes. They explain ISDA's remarkable resilience as a result of industry structure. They endorse Daniel Mügge's theory that industries dominated by highly organised producers can, despite exogenous shocks, define regulatory agendas and resist state intervention in complex areas by offering to tighten self-regulation in exchange for public oversight.¹³⁹

Governance interactions in the derivatives regime enhanced the regulatory capacities of both ISDA and states. ISDA was able to enroll states' legislative and enforcement capacities in support of its regulatory agenda. State endorsement conferred legitimacy on ISDA and facilitated its dominance. For their part, states enrolled ISDA's rulemaking and communication capacity to compensate for their limited expertise and legitimacy. The results are unstable, however. ISDA must walk a political tightrope between maximizing regulatory share and angering state policy makers, especially in systemically important areas like sovereign debt.

Buhmann also offers a functionalist account of drivers, but points additionally to actors' interests, values and perceptions. These can be manipulated, as with the SRS's discursive strategy of articulating stakeholders' interests in cooperation, which amplified their drivers to interact. Buhmann also cites differences in geopolitics and in institutional locus and mandates to explain why interaction was more collaborative under the SRS than previously.

The effects of interaction at the agenda-setting stage were a shared understanding of the need for a transnational governance instrument on business and human rights; at the norm-formation stage, the

¹³⁷ Eg Stepan Wood, 'Three Questions About Corporate Codes: Authorizations, Problematizations, and the Public/Private Divide' in Wesley Cragg (ed), *Ethics Codes, Corporations and the Challenge of Globalization* (Edward Elgar, 2005).

¹³⁸ Büthe (n 12).

¹³⁹ Biggins and Scott, this issue, citing Daniel Mügge, 'Private-Public Puzzles: Inter-firm Competition and Transnational Private Regulation' (2006) 11 *New Political Economy* 177.

result was the UN Guiding Principles themselves; and at the implementation stage, the effects were normative homogenization and mutually enhanced regulatory capacity. In the face of member states' reluctance to regulate business directly, the regulatory capacity of UN human rights organs was enhanced by enrolling non-state actors in rulemaking and by piggy-backing on other TBG schemes to complement the Principles' limited implementation and enforcement modalities. The piggy-backing also worked in the other direction: the UN Human Rights Council's endorsement of the Principles allowed other TBG initiatives that incorporated the Principles to expand their membership, audiences and regulatory space.

In contrast to these functionalist accounts, the drivers of interaction in Doorey's open systems model are actors' goals, values, risk perceptions, power and capacity, which evolve in response to internal and external forces. Doorey's main focus, however, is on the effects of interaction: the outputs and outcomes of the TBG subsystem. The main output was the transformation of the living wage norm from 'an outlier ... to a norm found in most leading TBG schemes targeting global supply chain labour practices'.¹⁴⁰ Despite this normative convergence, however, there is little evidence of behavioural change. Ironically, agreement on rules (outputs) is sometimes possible only because they require little behavioural change (outcomes). Finally, Doorey emphasizes the difficulty of measuring effects other than regulatory outputs, of isolating interactions from other causal variables, and of predicting whether interaction will have salutary or deleterious effects.

Webb's main contribution here is his examination, discussed above, of the effect of legitimacy endowments on the character and trajectory of interactions. This highlights the intertwined nature of drivers and effects. ISO's legitimacy endowment enabled it to attract unprecedented participation by intergovernmental organs, which in turn conferred legitimacy on ISO 26000. Webb also emphasizes the importance of institutional design. He argues that ISO's publicly accessible, transparent, multi-stakeholder consensus process mitigated dominance by any one actor category, enhanced ISO 26000's legitimacy, ensured that it genuinely approximated a global societal consensus, and facilitated widespread acceptance.

3.5 Modes of Interaction

While some legal scholars, like Jessup, focus on a narrow range of interactions such as conflict, harmonization, or cooperation,¹⁴¹ many identify greater variety.¹⁴² Theoretical approaches should embrace

¹⁴⁰ Doorey, this issue.

¹⁴¹ Eg Jessup (n 1) (conflict); Marianne Constable, 'Afterword: Conflicts as a Law of Laws?' (2008) 71:3 *Law and Contemporary Problems* 343 (conflict and harmonization); Mireille Delmas-Marty, *Ordering Pluralism: A Conceptual Framework for Understanding the Transnational Legal World*, Naomi Norbert (trans), (Hart, 2009) (ditto); Koskenniemi and Leino (n 47) (ditto); Harro van Asselt, 'Managing the Fragmentation of International Climate Law' in Erkki J Hollo, Kati Kulovesi and Michael Mehling (eds), *Climate Change and the Law* (Springer, 2013) 329 (conflict and inconsistency); Bratton (n 61) (competition and coordination); Esty and Geradin (n 62) (co-competition).

¹⁴² Eg Calliess and Zumbansen (n 34) (competition, cooperation, collaboration, antagonism, collision, contestation, conflict, harmonization, constitution, delegation, translation, transposition, integration, migration, co-regulation, meta-regulation and more); Robert Wai, 'Transnational Liftoff and Juridical Touchdown: The Regulatory Function of Private International Law in an Era of Globalization' (2002) 40 *Columbia Journal of Transnational Law* 109 ('liftoff' and 'touchdown'); Santos, *New Legal Common Sense* (n 36) 473–74 (violence, coexistence, reconciliation)

this diversity, treating the character of interaction as an empirical question, not an assumption. While descriptive typologies have value,¹⁴³ they do not capture all the observed complexity. The challenges for theory include explaining why interaction takes particular forms, how certain forms overlap or transform into others, and how forms vary across scales or levels of interaction. In the latter connection, theories of meso-level, inter-scheme interactions such as orchestration¹⁴⁴ and meta-regulation¹⁴⁵ are likely to be particularly fruitful.

In this special issue, Biggins and Scott show the complexity of even cooperative interactions. Interactions between ISDA and state actors included ISDA's enrolment of state regulatory capacity; its oversight of governments (through model laws, lobbying and strategic litigation); state recognition of ISDA self-regulation; implicit state delegation of authority to ISDA DCs; and state cooptation of potentially subversive non-state regulation through selective incorporation. Here the drivers of conflict and cooperation produced a delicate, continually renegotiated balance between state and non-state regulation.

Buhmann demonstrates how the character of interaction can change over time, across institutional settings, and among components of regulatory governance. Interactions shifted from conflict to cooperation at the agenda-setting stage and to cooptation and meta-regulation at the rule formation stage; cooptation largely continued during implementation. The earlier-described mutual enrolment and piggy-backing by the UN Guiding Principles and other TBG schemes suggests a form of symbiosis that may not

and conviviality); Snyder (n 67), 72 (equality, hierarchy, dominance, submission, creativity, imitation, convergence and divergence); Stepan Wood, 'Environmental Management Systems and Public Authority in Canada: Rethinking Environmental Governance' (2003) 10 *Buffalo Environmental Law Journal* 129 (steering, self-discipline, knowledge production, reward, command, benchmarking, challenge and borrowing); Errol Meidinger, 'Private Import Safety Regulation and Transnational New Governance' in Cary Coglianese, Adam M Finkel and David Zaring (eds) *Import Safety: Regulatory Governance in the Global Economy* (University of Pennsylvania Press, 2009) 233 (mimicry, accommodation, competition, and exchange); William Twining, 'Normative and Legal Pluralism: A Global Perspective' (2010) 20 *Duke Journal of Comparative and International Law* 473, 489 (symbiosis, subsumption, imitation, convergence, adaptation, partial integration, avoidance, subordination, repression, and destruction).

¹⁴³ Eg Anne-Marie Slaughter, 'Judicial Globalization' (2000) 40 *Virginia Journal of International Law* 1103 (identifying five forms of judicial interaction); David Trubek and Louise G Trubek, 'New Governance and Legal Regulation: Complementarity, Rivalry, and Transformation' (2007) 13 *Columbia Journal of European Law* 539 (identifying three kinds of interaction between non-state and state legal orders); Dinah Shelton (ed), *International Law and Domestic Legal Systems: Incorporation, Transformation, and Persuasion* (Oxford University Press, 2011) (identifying three categories of interaction between international and domestic legal systems); Eberlein (n 7) 11–12 (identifying four categories of TBGI).

¹⁴⁴ Kenneth W Abbott and Duncan Snidal, 'Strengthening International Regulation Through Transnational New Governance: Overcoming the Orchestration Deficit' (2009) 42 *Vanderbilt Journal of Transnational Law* 501; Kenneth W Abbott and Duncan Snidal, 'International Regulation without International Government: Improving IO Performance through Orchestration' (2010) 5 *Review of International Organizations* 315; Philip Schleifer, 'Orchestrating Sustainability: The Case of European Union Biofuel Governance' (2013) 7(1) *Regulation & Governance* 533–546; Kenneth W Abbott and Duncan Snidal, 'Taking Responsive Regulation Transnational: Strategies for International Organizations' (2013) 7 *Regulation & Governance* 97; Kenneth Abbott and others (eds), *International Organizations as Orchestrators* (Cambridge University Press, 2015).

¹⁴⁵ Eg Bomhoff and Meuwese (n 55); Scott (n 55); Paul Verbruggen and Tetty Havinga, "The Rise of Transnational Private Meta-Regulators," Osgoode Legal Studies Research Paper No. 71/2014, TBGI Project Subseries No. 20; available at <http://ssrn.com/abstract=2512843>.

be captured by conventional concepts of cooperation. These increasingly integrative interactions produced norm convergence, consolidation of the Guiding Principles' dominance and the resurgence of state authority in this field.

Doorey emphasizes the simultaneity of competition and cooperation. From the time NGOs formed the Workers' Rights Consortium as an alternative to industry codes of conduct, inter-scheme competition combined with dialogue and cooperation. Co-opetition continued even after the leading schemes defined common standards for pilot testing. The six participating schemes competed to have their standards adopted, yet also agreed to favour the highest standards within the six schemes—including a living wage clause.

Co-opetition also plays a key role in Webb's study. Co-opetition occurs when 'rule instrument developers that are in other respects in competition with each other, may for strategic reasons recognize an opportunity for collaboration for their mutual benefit'.¹⁴⁶ Webb investigates the drivers and effects of this mode of interaction. Drivers include competitors' desires to align their rule instruments, advance their own agendas through competitors' schemes, and enjoy the legitimacy-enhancing benefit of association with other schemes. In this case, co-opetition led to endorsement of ISO 26000 by intergovernmental organisations, governments, TBG schemes, transnational corporations and NGOs. It also produced regulatory synergies, with competitor schemes articulating general principles and ISO 26000 providing detailed standards and guidance.

The processes of normative convergence and diffusion described by Buhmann, Doorey and Webb deserve greater attention. Which norms spread to which governance schemes, and why? If norms do not spread, why not? Is co-opetition a special case, or a broader phenomenon? Is it more likely to strengthen or weaken regulatory standards, and to enhance or degrade regulatory capacity?

3.6 Mechanisms and Pathways of Interaction

Specifying and theorizing the mechanisms and pathways that link drivers, interactions and effects holds great promise for middle-level theory building. An understanding of mechanisms and pathways offers substantial purchase on interactive dynamics. Such understanding also helps identify the opportunities for structurally weak parties to remake their regulatory worlds.¹⁴⁷ At the same time, Abbott and Snidal warn that mechanisms are 'challenging analytical tools':

They are often difficult to identify and analyze in practice. They require the development of 'stylized facts,' so that detailed descriptions do not obscure analytical insights. They may be complex ... multiple mechanisms may be at work.¹⁴⁸

Mechanisms are normally defined in causal terms: they 'specify the micro-level elements ... through which causal factors operate'.¹⁴⁹ In the context of global business regulation, Braithwaite and

¹⁴⁶ Webb, this issue.

¹⁴⁷ Braithwaite and Drahos (n 15) 530, 563.

¹⁴⁸ Abbott and Snidal, 'Law, Legalization and Politics' (n 46) 50–51.

Drahos define them as ‘shortish causal chains’¹⁵⁰ ‘that increase the extent to which patterns of regulation in one part of the world are similar, or linked, to patterns of regulation in other parts’.¹⁵¹ In many accounts, actors exploit mechanisms instrumentally.¹⁵² Mechanisms may also operate unintentionally, as in Teubner’s ‘blind co-evolution’ of systems via quasi-biological mechanisms of variation and selection.¹⁵³ For our purposes, mechanisms and pathways emphasize causal logics, but can also accommodate broader forms of explanation.

Elsewhere, we canvass numerous mechanisms and pathways of TBGI, including norm entrepreneurship, enrolment, meta-regulation, experimentalism, rule incorporation, conditional rule referencing, benchmarking, peer review, overlapping membership, mimicry, learning and technical systems.¹⁵⁴ The legal literature reveals a range of others.¹⁵⁵ The main task for theory building, then, is to determine which mechanisms are most important in transnational business governance.

Braithwaite and Drahos have laid important groundwork for this exercise. Based on exhaustive study in thirteen fields spanning several centuries, they identify seven mechanisms through which business regulation has globalized: coercion, reward, modeling, reciprocal adjustment, non-reciprocal coordination and capacity-building.¹⁵⁶ Modeling is the most consistently important, followed by reciprocal adjustment.¹⁵⁷ There is no master mechanism, however; the globalization of regulation always involves multiple mechanisms.¹⁵⁸

A question for theory is to clarify the relationships among modeling, mimicry and isomorphism. Many scholars equate modeling and mimicry, but Braithwaite and Drahos distinguish them. For them, modeling entails observational learning, in which actors display, symbolically interpret and emulate

¹⁴⁹ *Ibid*; see also Peter Hedström and Petri Yikoski, ‘Causal Mechanisms in the Social Sciences’ (2010) 36 *Annual Review of Sociology* 49.

¹⁵⁰ Braithwaite and Drahos (n 15) 15.

¹⁵¹ Braithwaite and Drahos (n 15) 17; see also 532.

¹⁵² Eg Braithwaite and Drahos (n 15).

¹⁵³ Teubner, *Law as an Autopoietic System* (n 71), 80.

¹⁵⁴ Eberlein (n 7) 10–11. Some of these may be strategies rather than mechanisms. Enrolment, for example, may be a strategy that can be accomplished by a range of mechanisms including coercion, reward, modelling and capacity-building.

¹⁵⁵ Eg Teubner, *Law as an Autopoietic System* (n 71) (blind co-evolution, structural coupling, information and interference); Jeffrey L Dunoff and Joel P Trachtman, ‘A Functional Approach to International Constitutionalization’ in Jeffrey L Dunoff and Joel P Trachtman (eds), *Ruling the World? Constitutionalism, International Law and Global Governance* (Cambridge University Press, 2009), 3 (horizontal allocation of powers, vertical allocation of powers, supremacy, stability, fundamental rights, review, and democratic accountability); Paul Schiff Berman, *Global Legal Pluralism: A Jurisprudence of Law Beyond Borders* (Cambridge University Press, 2012) (dialectical legal interactions, margins of appreciation, limited autonomy, subsidiarity, hybrid participation, mutual recognition, safe harbour agreements, and regime interactions); Fabrizio Cafaggi, ‘The Architecture of Transnational Private Regulation,’ Osgoode CLPE Research Paper No 20/2012, <http://ssrn.com/abstract=2144407> (visited March 12, 2015) (contract and organisation); van Asselt (n 47) (cognitive interaction, behavioural interaction, interaction via commitment and impact interaction; this typology is borrowed from Gehring and Oberthür (n 134)).

¹⁵⁶ Braithwaite and Drahos (n 15) 25–6, 532–33.

¹⁵⁷ Braithwaite and Drahos (n 15) 30, 542–3, 546–7.

¹⁵⁸ Braithwaite and Drahos (n 15) 7, 30, 542.

regulatory models; imitation merely involves one actor matching another's actions, evidently without reflection.¹⁵⁹ Imitation, then, is restricted to unconscious isomorphism, where isomorphic pressures emerge from systems, cultures or mentalities.¹⁶⁰

Braithwaite and Drahos offer a detailed theory of modeling in which model missionaries promote a particular model because they believe in it; model mercenaries exploit the markets model missionaries open up; model mongers, lacking the resources to develop their own models, experimentally float numerous models in hopes of finding one that catches on; model misers adopt pre-packaged models (often floated by model mongers) to economize on the costs of model development; and model modernizers in the periphery adopt models from the centre to harness the legitimating power of a modern, progressive identity.¹⁶¹

Modeling is important because of bounded rationality: decision-makers are unable to address fully the limitless range of issues they face, so it often makes sense to adopt pre-packaged solutions that are good enough, rather than search for optimal solutions.¹⁶² Decision-makers frequently 'dither in a confusion of complexity they cannot grasp, which is why they can be led by entrepreneurs who encourage them onto a plausibly interest-enhancing path'.¹⁶³

Modeling is also important because it is one of the few mechanisms available to the weak. Structurally weak model mongers can devote their scarce resources to floating regulatory models until they land on one that catches a powerful adversary off balance; then they can pour all their resources 'into a feat of political ju-jitsu that flips the off-balance adversary'.¹⁶⁴ Yet Braithwaite and Drahos's conclusions about model mongering are not entirely persuasive. Most of their case studies suggest that the key actors are either model missionaries, who promote preferred models out of belief, or model mercenaries, who profit by promoting a particular model, rather than experimentalist model mongers.

Other significant mechanisms in TBGI include conditional rule referencing,¹⁶⁵ overlapping memberships and contracting.¹⁶⁶ Benjamin Cashore, Michael Stone and Lars Gulbrandsen show that rule referencing in forest certification creates interdependencies that enhance the capacities of state and non-state regulators: non-state schemes benefit from states' enforcement capacity, states gain non-state schemes' norm-generating capacity and each gains symbolic resources from the other.¹⁶⁷ Theories of transnational governance interaction should also acknowledge the multiplicity and interlinking of

¹⁵⁹ Braithwaite and Drahos (n 15) 25, 580–81.

¹⁶⁰ Paul J DiMaggio and Walter W Powell, 'The Iron Cage Revisited: Institutional Isomorphism and Collective Rationality in Organizational Fields' (1983) 48 *American Sociological Review* 147.

¹⁶¹ Braithwaite and Drahos (n 15) 585–92.

¹⁶² Braithwaite and Drahos (n 15) 589.

¹⁶³ Braithwaite and Drahos (n 15) 30; see also 548.

¹⁶⁴ Braithwaite and Drahos (n 15) 595.

¹⁶⁵ Eg James W Coleman, 'Unilateral Climate Regulation' (2014) 38 *Harvard Environmental Law Review* 87 (proposing conditional regulation and modelling as mechanisms to overcome disincentives from unilateral regulation).

¹⁶⁶ Eg Cafaggi (n 155); Calliess and Zumbansen (n 34) 54, 56, 165, 167.

¹⁶⁷ Eberlein (n 7) 13, citing Cashore and Stone (n 132); Gulbrandsen (n 132).

mechanisms, in line with Braithwaite and Drahos's observations.¹⁶⁸ More empirical and theoretical work on mechanisms is also needed. Even Braithwaite and Drahos's analysis of mechanisms is generic and synthetic. It is often unclear which mechanisms are employed, by which actors for what purposes, or how they operate.

Finally, scholars should investigate the structural factors that affect mechanisms and pathways. Santos identifies six structural places in society, each with its own interactive logic. The coexistence and overlap of structural places mean that interactions 'are often informed by different and mutually incongruent logics'.¹⁶⁹ Alternatively, pathways of interaction may coincide with or exploit the pathways of economic production and consumption.¹⁷⁰ Markets, hierarchies, networks and communities may have different logics that affect the availability or operation of mechanisms. For example, coercion may be more common and effective in a hierarchy than in a network.¹⁷¹ Braithwaite and Drahos observe that webs of dialogue are more common and more often effective than webs of reward and coercion,¹⁷² and that strategic wisdom lies in knowing 'which strand(s) to seek to tighten at which moment in order to tauten a web that floats in time and space'.¹⁷³ Networks themselves may be conceived as pathways of interaction or structures conditioning interaction. Variation in network characteristics may also influence the character of interaction between regulatory networks and conventional regimes.¹⁷⁴

In this special issue, Biggins and Scott identify five mechanisms of interaction in the case of derivatives: ISDA standard-setting; its lobbying and other activities designed to shape the regulatory regime for derivatives; its intervention in important court cases; its provision of advice on systemically important events; and its central role in reforming credit default swap settlement mechanisms after the global financial crisis. These are not mechanisms in our sense, however; they are case-specific strategies. Yet it may be possible to abstract more general mechanisms from these examples. For example, ISDA's standard-setting and lobbying, and states' passage of ISDA's model laws, may be instances of modeling, norm entrepreneurship and rule incorporation.

This point highlights the need to clarify what constitutes a mechanism or pathway, and how they are distinct from strategies, modes, drivers and shapers of interaction. For analytical purposes mechanisms must be abstracted from specific actions, but concrete enough to be recognizable. Braithwaite and Drahos, for example, focus not on higher-order, abstract mechanisms like reinforcement, but on lower-order, concrete mechanisms like reward and coercion.

Buhmann's article poses similar issues. She describes networks, discursive strategies and even TBG schemes as mechanisms of interaction. Yet her examples suggest the mechanisms of modeling,

¹⁶⁸ Braithwaite and Drahos (n 15) 542, 547.

¹⁶⁹ Santos, *New Legal Common Sense* (n 36) 378.

¹⁷⁰ Snyder (n 67).

¹⁷¹ Gerry Stoker, 'Public Value Management: A New Narrative for Networked Governance?' (2006) 31 *American Review of Public Administration* 41.

¹⁷² Braithwaite and Drahos (n 15) 537–9, 556–8.

¹⁷³ Braithwaite and Drahos (n 15) 550.

¹⁷⁴ Abraham L Newman and David Zaring, 'Regulatory Networks: Power, Legitimacy and Compliance' in Dunoff and Pollack (n 45) 244, 258.

mimicry, rule incorporation, learning and other cognitive interaction mechanisms.¹⁷⁵ Buhman also suggests that mechanisms at the evaluation and review stage include cross-scheme comparison of experiences, investigation of complaints, and governmental reporting. These resemble generalizable mechanisms of peer review, benchmarking, learning and experimentalism.

Doorey proposes a typology of four actor-level and three scheme-level mechanisms and pathways. In the first four, the pathways are actors who participate in multiple TBG schemes. These mechanisms include dialogue and norm entrepreneurship, with actors ‘like honeybees pollinating TBG schemes with ideas and norms’;¹⁷⁶ information distribution and knowledge sharing across schemes; supply chain coordination, with suppliers selecting or avoiding more stringent codes; and policy learning and diffusion, through education, research, and social networks. The relationship between dialogue and norm entrepreneurship, on one hand, and policy learning and diffusion, on the other, is not entirely clear: both involve actors spreading the ‘pollen’ of norms and knowledge. The first scheme-level mechanism is mimicry or mimetic isomorphism, in which a TBG scheme adopts successful designs or norms; Doorey seems to treat this as synonymous with modeling, raising the definitional issue discussed above. The final two mechanisms are conditional rule referencing and meta-regulation.

Webb’s description of ISO 26000 as a bridge suggests a master metaphor for several mechanisms of interaction. Webb identifies several bridging functions: top-down transposition of concepts from intergovernmental to non-state instruments; bottom-up transposition of concepts from narrow non-state standards to broader social responsibility activities; uniting public, private and civil society sectors in standards development and implementation; and the emergence of a global custom. However, the main mechanisms at work in the case are modeling, institutional isomorphism and conditional rule referencing.

Webb’s study indicates that these mechanisms may work top-down or bottom-up, and may amplify the source standard, not just duplicate it. Thus ISO 26000 extended the due diligence and Plan-Do-Check-Act approaches to all social responsibility activities, from human rights and management systems respectively. The case also highlights meta-regulation and contracting as coordination mechanisms. Contracting through Memoranda of Agreement between ISO and other instrument developers facilitated top-down transposition and normative convergence. Finally, the rich normative conversation achieved in the ISO 26000 drafting process appears to embody Doorey’s mechanism of dialogue.

3.7 The Development of Interactions over Time and Space

‘It is easier to call for a dynamic theory than to produce one,’ Abbott and Snidal remind us.¹⁷⁷ Yet theories of TBGI must seek to capture spatio-temporal dynamics.¹⁷⁸ Over time, institutional structures and processes converge and diverge; some norms and practices spread, others do not; standards are ratcheted up or down; states enter and retreat from governance fields; non-state regulatory authority

¹⁷⁵ Gehring and Oberthür (n 134).

¹⁷⁶ Doorey, this issue.

¹⁷⁷ Abbott and Snidal, ‘Law, Legalization and Politics’ (n 46) 40.

¹⁷⁸ Eberlein (n 7) 13–14.

waxes and wanes; conflicts transform into cooperation or vice versa; some TBG schemes wither away and others dominate. Change over time is a key dimension of our TBGI analytical framework, but the spatial dimension also merits more attention. Transnational business governance has an uneven geography that implicates disparities between legal centres and peripheries.¹⁷⁹

Theoretical approaches that integrate spatial and temporal dynamics into their conceptual apparatus should be especially fruitful—examples include the recursive dynamics in theories of experimentalism, transnational legal orders and open systems. Shaffer and Halliday theorize transnational legal ordering as a dynamic, recursive process of interaction among transnational and national law, characterized by mutual influences, temporary and contingent settlements, and periodic destabilizations triggering further recursive cycles.¹⁸⁰ Experimentalist governance involves recursive interactions between central and local regulating units.¹⁸¹ Doorey's open systems theory integrates change within its processual model of inputs, outputs and feedback loops. Calliess and Zumbansen's RCRC model emphasize ongoing processes of normative experimentation and recombination.¹⁸²

When addressing spatio-temporal dynamics, theories should seek to explain instances of governance failure, not just of success.¹⁸³ Meinhard Doelle and others, for example, apply David and Louise Trubek's concepts of complementarity, rivalry and transformation¹⁸⁴ to the failure of the Forest Carbon Standards Committee.¹⁸⁵ It would be instructive to examine whether interactions with other governance actors and schemes contributed to this failure.

All the articles in this special issue describe fascinating changes over time, including changes in the scale, character, mechanisms and effects of interaction over time and across institutional settings and components of regulatory governance. Doorey highlights another important aspect: tension between change at the level of norms and persistence at the level of on-the-ground practices, which may give rise to further rounds of interaction and the transformation of governance schemes. All these articles invite further theoretical elaboration of temporal and spatial dynamics.

4. CONCLUSION

Interactions among legal actors, institutions, norms and orders are central features of transnational law, yet transnational legal theory casts only fleeting or narrow glances at them. The time is ripe to make

¹⁷⁹ Eg Santos, *New Legal Common Sense* (n 36); Santos and Rodríguez-Garavito *Law and Globalization* (n 36).

¹⁸⁰ Halliday and Shaffer (n 44); Terence Halliday, 'Recursivity of Global Lawmaking: A Sociolegal Agenda' (2009) *5 Annual Review of Law and Social Science* 263.

¹⁸¹ Sabel and Zeitlin (n 65); Overdeest and Zeitlin (n 65).

¹⁸² Calliess and Zumbansen (n 34) 243.

¹⁸³ We are grateful to the participants in a Workshop on Power and Interactions in the Politics of Transnational Public-Private Governance, organised by Virginia Haufler and Oliver Westerwinter at the International Studies Association Annual Meeting, New Orleans, 17 February 2015, for drawing attention to the importance of studying governance failures.

¹⁸⁴ Trubek and Trubek (n 143).

¹⁸⁵ Meinhard Doelle and others, 'New Governance Arrangements at the Intersection of Climate Change and Forest Policy: Institutional, Political and Regulatory Dimensions' (2012) *90 Public Administration* 37, 41–42.

the interactive dynamics of transnational law the subject of sustained empirical and theoretical attention. Efforts to govern global business provide a useful context in which to do so. A rich body of interdisciplinary empirical research on this subject is emerging, but more theory building is needed to advance scholarly understanding of the dynamics and effects of transnational business governance interactions.

The relative lack of attention to theory in the special issue articles (with the notable exception of Doorey) is understandable at this stage in the TBGI research program, when the focus remains on rich empirical description. The articles demonstrate that our TBGI analytical framework provides a useful common language for conducting and comparing such research. But the framework's relative agnosticism as to theoretical and methodological approaches should not be mistaken as invitation to ignore theory. Quite the opposite: we hope to spur researchers to develop, test and refine theories.

The most fruitful theoretical approaches, we believe, will recognize the heterogeneity of interacting entities; emphasize meso-level interactions among regulatory authorities and schemes; explore the links between interactions at different scales, between agency and structure, among components of the regulatory process, between drivers and effects and among modes of interaction. They will also examine the impacts of interactions on the capacity and performance of regulatory systems, specify concrete interaction mechanisms and strive to capture spatio-temporal dynamics.

No single theory can accomplish all this. A variety of theoretical perspectives will be needed to illuminate this complex phenomenon. Theory building, then, can focus on middle-range generalizations about specific features of TBGI, with the aim of building up 'a "toolbox" of explanations that can be widely applied, gradually increasing the field's stock of understanding'.¹⁸⁶ There are many possible candidates, including: problem structures; interaction mechanisms such as modeling, conditional rule referencing and supply chain coordination; interlinkages among mechanisms; regulatory ratchets; indicators and determinants of regulatory capacity; meso-level processes like meta-regulation and orchestration; cross-scalar strategies like forum-shifting and norm entrepreneurship; and structural logics of action. Theoretical 'modules' like these are the building blocks of middle-range theory.¹⁸⁷ Thick descriptive research and inductivist middle-range theory building will allow us to understand better the impacts of governance interactions on regulatory outputs, outcomes and capacities and, ultimately, on what really matters—the social and economic performance of transnational business and the lives of ordinary people.

¹⁸⁶ Abbott and Snidal, 'Law, Legalization, and Politics' (n 46) 50.

¹⁸⁷ Abbott and Snidal, 'Law, Legalization, and Politics' (n 46); Jon Elster, *Nuts and Bolts for the Social Sciences* (Cambridge University Press, 1989).