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The Camel's Nose Is in the Tent: Rules, Theories, and Slippery Slopes

by

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ABSTRACT

“The Camel’s Nose Is in the Tent: Rules, Theories and Slippery Slopes”

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Slippery slopes have been the topic of a spate of recent literature. In this Article, the authors provide a general theory for understanding and evaluating slippery slope arguments (SSAs) and their associated slippery slope events (SSEs). The central feature of the theory is a structure of discussion within which all arguments take place. The structure is multi-layered, consisting of decisions, rules, theories, and research programs. Each layer influences and shapes the layer beneath: rules influence decisions, theories influence the choice of rules, and research programs influence the choice of theories. In this structure, SSAs take the form of meta-arguments, as they purport to predict the future development of arguments in the structure. Evaluating such arguments requires having knowledge of the specific content of the structure of discussion itself. The Article then presents four viable types of slippery slope argument, draws attention to four different factors that (other things equal) tend to increase the likelihood of slippery slopes, and explores a variety of strategies for coping with slippery slopes.

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“The question of questions for the politician should ever be – ‘What type of social structure am I tending to produce?’ But this is a question he never entertains.”

Herbert Spencer¹

Introduction

“If you accept a seemingly appropriate argument now, you will be more likely to accept an inappropriate argument later. And if you accept such an inappropriate

argument, you will be more likely to make a bad decision or perform a dangerous act.”

This is a common, general form of the so-called slippery slope argument. More specific slippery slope arguments occur in public policy (“Instituting a price ceiling on milk will lead to price controls on the sale of cows”²), in law (“Forbidding the Nazis to march in Skokie will lead to the forbidding of valuable speech that hurts the feelings of religious or ethnic groups”³), in ethics (“Acceptance of the abortion of a month-old fetus will lead to acceptance of the abortion of late third-trimester fetuses or even to infanticide”⁴), and, indeed, in almost every arena where decisions must be made.

Slippery slope arguments have been used by thinkers from across the political spectrum. These arguments can be found in the writings of twentieth and twenty-first century civil libertarians, opponents of euthanasia, opponents of some “frontier” medical procedures (including genetic engineering and cloning), and both advocates and

¹ Herbert Spencer, *The Man Versus the State* 44 (1982 [1884]).

² For an explanation of how price controls on milk can lead to further controls on the prices of the factors of milk production, see Ludwig von Mises, “Middle of the Road Policy Leads to Socialism,” in *Planning for Freedom* 22-3 (4th ed., 1980). See, more generally, Ludwig von Mises, *Human Action* 762-4 (3rd ed., 1966) for a description of the process by which some price controls on some goods and services lead to demands for price controls on other goods and services.

³ See, e.g., *Collin v. Smith*, 578 F.2nd 1197 (7th Cir. 1978).

⁴ “Infanticide (killing of newly born children), also called neonaticide, follows abortion like night follows day.” Tennessee Right to Life web page,

http://tennesseerighttolife.org/human_life_issues/human_life_issues_infanticide.htm, accessed Oct. 1, 2002. For a more objective analysis of slippery slope arguments in the context of abortion, see, e.g., Douglas Walton, *Slippery Slope Arguments* 45-50 (1992).

opponents of abortion rights. Perhaps the only thing the arguments have in common is that they are used to oppose some type of change in the status-quo. In that sense, and only in that sense, slippery slope arguments are usually employed for “conservative” purposes.

The scholarly literature on slippery slopes and their related arguments is not large. Recently, however, there have been some important contributions. Sanford Ikeda has analyzed the tendencies toward expansion that inhere in the state’s economic intervention.⁵ Eugene Volokh has produced a wide-ranging study of various possible slippery slope mechanisms in both judicial decision-making and legislative action.⁶ And Douglas Walton has critically analyzed the various forms of slippery slope arguments used in many types of public debate.⁷ None of these authors, however, has attempted to construct a unified framework in which such arguments can be studied and related to actual or potential slippery slope events. This is what we try to provide.

Sometimes slippery slopes seem to involve only actions: one action leads to another. But in the kinds of cases in which we are interested (law, ethics and public policy), the actions usually require justification. Hence, first and foremost, *slippery slopes are slopes of arguments*: one practical argument tends to lead to another which, in turn, means that one justified action, often a decision, tends to lead to another. When we say that one argument (and its supported action) *tends* to lead to another, we mean that it makes the occurrence of the subsequent argument more likely than otherwise, not that it

⁵ Sanford Ikeda, *Dynamics of the Mixed Economy: Toward a Theory of Interventionism* (1997).

⁶ Eugene Volokh, “The Mechanisms of the Slippery Slope,” forthcoming in 116 Harv. L. Rev. ____, September 16, 2002 draft, 10-38.

⁷ Douglas Walton, *Slippery Slope Arguments* (1992).

necessarily makes it highly likely or, still less, inevitable.⁸ Hence the transition between the arguments is not based on strict logical entailment.

The ubiquity of the slippery slope argument should not lead us to believe they are unproblematic and simple in structure. First, there is no *single* paradigm of a slippery slope argument. Walton⁹ has distinguished four types: sorites (continuity), precedent, causal and full (i.e., a complex combination of the first three). Our concerns do not exactly overlap these distinctions. In particular, our concerns do not extend to the purely causal argument. This is not to say that the causal mechanisms by which one external event leads to another are irrelevant, but that they must be mediated by arguments. We are interested in those realms of decision-making in which justification is the essence. Thus all of the arguments we consider are arguments about arguments – also known as “meta-arguments.” To put it another way, they are arguments about accepting or rejecting arguments for actions. They involve intellectual commitments that, as it were, take on a life of their own.

Second, there is the perplexing question of whether slippery slope arguments and their related slippery slope events involve some form of irrationality. Can “purely” rational thought produce a progression from the acceptance of a “correct” or persuasive argument to the acceptance of a clearly incorrect or unpersuasive argument? Slippery slope arguments appear to be vulnerable to the following three objections from the rational-choice perspective:

⁸ “A slippery slope argument claims that permitting the instant case – a case that it concedes to be fairly innocuous and that it linguistically distinguishes from the danger case – will nevertheless lead to, or *increase the likelihood* of, the danger case” Frederick Schauer, “Slippery Slopes,” 99 Harv. L. Rev. 361 at 369 (1985), emphasis added.

⁹ Walton (1992), supra ___ at 3-7.

- If the future decision (the “danger case,” as Schauer¹⁰ calls it) is bad, but the prior decisions are good, why not simply refrain from making the bad decision down the road? The slippery slope argument seems to rob our future selves of the ability to make reasoned decisions. It treats future decision makers as automata who for some reason cannot resist doing the wrong thing. We call this the *Automaton Objection*.
- If the consequences of a sequence of decisions are undesirable overall (that is, on net), then why are we tempted to “defect” from the right path now? Suppose, for instance, that undesirable future decisions will somehow flow with high probability from the present decision. Then unless we are simply ignorant of the causal chain, the undesirability of the final outcome should be imputed backwards to the initial decision, and the initial decision should thus not appear desirable after all.¹¹ The slippery slope argument seems to violate the assumption, taken for granted by many economists, of rational expectations. This we call the *Imputation Objection*.
- If there is an ultimate decision that is, *from today’s vantage point*, bad later, then why should we care about it *then*? After all, if we take that final step when the time arrives, it must look desirable at that time. The utility-maximizing individual is always forward looking. The slippery slope argument, then, appears to privilege the

¹⁰ Schauer (1985), *supra* ___ at 365.

¹¹ Some clarification of the idea of “somehow flow[ing] with high probability” is in order. In order to differentiate this objection from the Automaton Objection, we do not focus on the (in)voluntariness of the future decisions. Instead, we treat the high probability of undesirable future decisions as emanating from the inability of decisions makers to find relevant dissimilarities between a future case and the current one. Thus the imputation is epistemic rather than causal. It is the joint consequence of the decision-maker’s adherence to a principle of universalizability (“treating similar cases in a similar way”) and his inability to discern a relevant dissimilarity. “If we judge X to be right [wrong], and we can point to no relevant dissimilarities between X and Y, then we cannot judge Y to be wrong [right].” Tom L. Beauchamp and James F. Childress, *Principles of Biomedical Ethics* 120 (2nd ed., 1983).

previous standpoint, thereby ruling out the possibility that new values will exist at the moment of future decision. We call this the *Presentism*¹² *Objection*.

Perhaps because of these and similar objections, some analysts have concluded that slippery slope arguments are questionable or even fallacious. Nonetheless, we think they can constitute a valid form of argumentation. In this Article, we provide a general theory of slippery slope arguments that allows us, among other things, to evaluate their validity and explore strategies for avoiding the events they describe. In Section I, we outline the essential features of a slippery slope argument, and also clarify some terminology to avoid potential confusion. In Section II, we present a rubric for understanding the structure of discussion in which slippery slope arguments – and all other arguments for that matter – are made. This structure provides us with a foundation for analyzing particular types of slippery slope. In Sections III, IV, V, and VI, we discuss four different processes that could provide the basis for slippery slopes. (We call these the sorites and precedent process, the unanticipated consequences process, the separately validated propositions process, and the Humean beneficence process, respectively.) In Section VII, we respond to the three objections to slippery slope arguments presented above, explaining why we think they are not (always) valid. In Section VIII, we offer several propositions about factors that make slippery slopes more likely. Finally, in Section IX, we discuss various strategies employed by individuals and systems for

¹² “Presentism” refers to the stipulation that the individual never acts counter-preferentially. He always acts to maximize the satisfaction of his current preferences (including current preferences about the future). So at $t = 0$ the agent wishes mightily to avoid the “danger case,” but when the choice arrives at $t = 1$, with changed preferences, he embraces it (if he has not previously bound himself). Presentism excludes the possibility that agents may avoid certain choices simply because of previous preferences or a commitment to oneself based on them. See the discussion in Jed Rubenfeld, *Freedom and Time: A Theory of Constitutional Government* 103-130 (2001).

dealing with or reducing the likelihood of slippery slopes. We conclude with some general observations about the validity and invalidity of slippery slope arguments.

I. Definitions and Clarifications

A. Essential Characteristics of the Slippery Slope Argument

Although there is no paradigm case of *the* slippery slope argument (hereafter SSA), there are characteristic features of all such arguments. The key components of SSAs are three:

1. An initial, seemingly acceptable argument and decision;
2. A “danger case” – a later argument and decision that are clearly unacceptable;
3. A process or mechanism¹³ by which accepting the former argument and making the former decision *raise the likelihood* of accepting the latter argument and making the latter decision.

The “processes” invoked as the link between the initial case and the danger case can be quite varied. It is useful for our purposes to distinguish between processes that, in principle at least, can be *generated* by a single individual in isolation from the activities of others – in other words, a Robinson Crusoe process. We call these “micro processes.” For example, Robinson Crusoe might be susceptible to a slippery slope from accepting the virtue of relaxation from work to accepting the vice of laziness. (This slope might occur as a result of, say, Crusoe’s commitment to reasoning by analogy from past choices

¹³ In this Article, we choose the word “process” over “mechanism.” Although mechanism is, in some respects, more precise, it may convey a sense of automaticity or deterministic reaction as in the common use of the word “mechanistic.” We wish to avoid that connotation. In what follows, we do not intend to suggest that the processes discussed are completely deterministic.

to present ones.) Note that the defining feature of a micro process is not that it *must* be generated by a single individual, but that it *could* be; this point will become clearer later. There are also processes that, by their very nature, require the interaction of many individuals to generate the final result. These we call “macro processes.” For example, certain kinds of government regulation may distort the incentives of particular agents, as when price controls encourage suppliers to hold back production. This may produce unintended (unanticipated?) consequences for consumers who then try to remedy the situation by voting for controls on the prices the suppliers face, etc. In this Article, we will examine slope processes of both micro and macro varieties.

B. Slippery Slope Arguments and Slippery Slope Events

Considerable confusion can be forestalled by distinguishing between slippery slope arguments and slippery slope events. A slippery slope argument (SSA) is an *argument* about how the acceptance of one argument (regarding a decision, act, or policy) may lead to the acceptance of other arguments (regarding other decisions, acts, or policies). It has a hypothetical form: if this, then that – with increased likelihood. A slippery slope event (hereafter SSE), on the other hand, refers to the *actual manifestation* of the events (decisions, acts, policies) described in the SSA.

It is possible that the persuasiveness of an SSA may preclude the occurrence of an SSE. For example, if decision-makers are persuaded that allowing (on the basis of some initial argument) first-trimester abortions will lead with high probability to infanticide, they may never accept the initial argument for permitting first-trimester abortions. Thus, acceptance of the SSA may help prevent the more easily observable SSE.

The important point to grasp here is that there are, in principle, two distinct types of ideas in the social sciences: constitutive ideas and speculative ideas.¹⁴ *Constitutive* ideas are ideas that motivate the actions of individuals. *Speculative* ideas, on the other hand, are ideas that observers – such as social scientists or policy analysts – have about the actions individuals will take and the results that will follow. For instance, ideas that consumers have about the desirability of goods and services are constitutive ideas, as they affect the consumers' buying decisions. The ideas that economists have about the effect of consumers' decisions on market outcomes (such as the prices and quantities of goods sold) are speculative ideas. Although constitutive and speculative ideas are usually distinct, it is possible for a speculative idea to *become* a constitutive idea. To the continue the example: if economists predict that a recession is looming, and consumers believe them, then consumers may respond by altering their buying decisions.

SSAs are typically speculative ideas. They are predictions, made by observers, about how acceptance of some ideas (and resulting actions) can lead to acceptance of other ideas (and resulting actions). But an SSA can become a constitutive idea, if the SSA is accepted by individuals and affects their actions. Indeed, the person who formulates an SSA may do so with the intention of persuading others to change their behavior – that is, with the intention of making it a constitutive idea. Those who argue against voluntary euthanasia, on grounds that it will increase the likelihood of involuntary euthanasia, presumably hope their argument will prevent policies allowing voluntary euthanasia in the first place.

¹⁴ F. A. Hayek, *The Counter-Revolution of Science* 61-65 (1979 [1952]).

In short, an SSA is by nature an idea about other ideas. Like the theories and models used by social scientists, it makes a prediction about the behavior of people who are motivated by their own ideas.

II. The Structure of Discussion and Argument: Microanalytic Foundations of Slippery Slopes

A distinctive feature of most, perhaps all, SSAs is that they are arguments about arguments. That is, they are *meta*-arguments. The SSA relies on the notion that the argument (and decision) we take now will, at some time, make people more likely to accept another argument they would otherwise be less likely to accept.

Consider the illustrative case in which the Village of Skokie (Illinois) made it a misdemeanor to disseminate material promoting or inciting racial or religious hatred. This included, in the words of the local ordinance, the “public display of markings and clothing of symbolic significance.” Accordingly, the Village tried to stop a Nazi group from demonstrating peacefully, in uniforms and with banners, in front of Village Hall. In *Collin vs. Smith*¹⁵ the court struck down the ordinance. It argued that if it were permissible to graft an exception onto the First Amendment for a demonstration that might inflict “psychic trauma” on certain people (e.g., Holocaust survivors), it might also be permissible to halt any speech that generates “anger,” “unrest,” or “dispute.” At that point nothing would remain of the First Amendment. In our terminology, the court is saying that if it accepts an argument about the permissibility of the Skokie ordinance it would also have to accept (or at least be more likely to accept) other arguments about further speech restrictions. These arguments might allow, perhaps *seriatim*, restrictions

on the kind of speech that generates anger, then unrest, and then simple dispute. Having accepted the initial Skokie argument, the court would find the others “indistinguishable in principle.” It would then be led to accept an ultimate argument that, in today’s view, is clearly wrong.

In essence, the court is making an SSA that says if Argument #1 is accepted, then so will be Argument #2, and then Argument #3, and so on to, say, Argument #10 that would justify some clearly unacceptable outcome. Now, it cannot be the case that Arguments #1 and #10 are identical, for if they were, then the SSA would be redundant. If Argument #10 were clearly bad, and Arguments #1 and #10 were identical, then Argument #1 would be unacceptable on its face. So the question is on what basis can the analyst predict that *different* arguments will be made and accepted? How can he predict what he himself or later decision-makers will find similar or close to a previous argument? Only, it seems, if he understands the theoretical framework in which the judicial decision-makers operate.

To understand the SSA, then, it is necessary to think more carefully about the structure in which decisions are made. Our object in this section is to lay out a rubric for thinking about the structure of decision-making. We start by offering a discussion of the key concepts in this structure: rules, theories, research programs, and arguments.

A. Rules

A rule is a mapping from a type of factual situation or event to a desirable action. A rule's mapping seeks “to change or channel behavior” relative to what it would be

¹⁵ 578 F.2nd 1197 (7th Cir. 1978).

without the rule.¹⁶ In political analysis, the factual situation may be a social problem and the desired action a governmental policy. In law, the situation may be a justiciable dispute (a “case”) and the action a ruling. In ethics, the situation may be a set of moral options and the action a moral decision.

Three clarifications are in order. First, it is important to distinguish our use of the word “rule” from other meanings of the term. There is a difference between rule-conforming and rule-guided behavior.¹⁷ In the former, agents need not understand that they are acting or deciding in accordance with a rule. They simply exhibit a “regularity,” which the rule describes. Much animal behavior conforms to rules in this way. The laws of physics are of this nature. In rule-guided behavior, a rule is prescriptive in nature, as agents use the rule as a reason or justification for their decisions. It is the latter sense of the word “rule” that we employ here.

Second, it is worth noting that rules are often stated along with their rationales, i.e., as part of arguments (see below). But a rule *in its pure form* is simply a mapping. It is also true that rules can map situations to more than one desirable action. But, for simplicity, we shall think of rules as issuing in one fairly specific action.¹⁸

Third, any rule works by reference to a set of characteristics that describe a situation, and this set is necessarily a *subset* of all those that might be construed as describing it “fully.” Rules are unavoidably abstract, as they omit or abstract from many

¹⁶ Frederick Schauer, *Playing By the Rules: A Philosophical Examination of Rule-Based Decision-Making in Law and in Life*, Oxford University Press, 2 (1991).

¹⁷ Edward F. McClennan and Scott Shapiro, “Rule-Guided Behaviour,” in *The New Palgrave Dictionary of Economics and the Law* (ed. Peter Newman, 1998) 363, 363.

¹⁸ Compare, for example, Joseph Raz, “Legal Principle and the Limits of Law,” 81 *Yale L. J.* 823, 838 (1972) “The distinction between rules and principles of obligation both in law and outside of it turns on the character of the norm-act prescribed. Rules prescribe relatively specific acts; principles prescribe highly unspecific actions... The distinction is...one of degree, since there is no hard and fast line between acts that are specific and those which are unspecific.”

(probably an infinite number of) characteristics that could be used. Consider a legal rule that says, “Whenever a car gets rear-ended by another car, the car that came from behind is liable for damages.” This rule identifies one characteristic of the situation (which car came from behind) while effectively ignoring an endless number of other characteristics (the color of the cars, the time of the accident, the number of people in each car, whether their radios were on, *ad infinitum*)¹⁹. Of course, actual rules can be, and generally are, more complex. They may identify a very large number of characteristics. But no matter how many characteristics are identified, an infinite number of other characteristics are ignored. The choice of which characteristics to include, if it is not arbitrary, must be made on the basis of a higher-order conceptual entity, that is, a theory.

B. Theories

A theory is a system of ideas based on general principles designed to organize thought and to explain or justify something. A theory can be positive, normative, or both.

The most important role of theory, at least in the present context, is as a source of justifications for rules and decisions. In normative terms, a theory can justify a rule.²⁰ The normative and positive elements of a theory interact to produce arguments (see definition below) about how rules should be chosen and how decisions should be made. As suggested earlier, a rule itself does not necessarily carry with it any justification; it could be entirely arbitrary in the characteristics it identifies as relevant. But often, rules have

¹⁹ “A rule withdraws from the decision-maker’s consideration one or more circumstances that would be relevant to decision according to a standard.” Isaac Ehrlich and Richard Posner, “An Economic Analysis of Rulemaking,” 3 *Journal of Legal Studies* 257, 258 (1974).

²⁰ “Rule-based decision-making... is a form of decision-making arising *within* some theory of justification and existing only relative to it.” Schauer (1991), *supra* ___ at 86.

their basis in theories about what kinds of characteristics are positively and normatively relevant in a given context.

Consider again the rule that says, “Whenever a car gets rear-ended by another car, the car that came from behind is liable for damages.” The rule is not self-justifying. But it might be justified by a theory that emphasizes the capacity of law to induce accident prevention. If the driver of the car behind has greater control over whether a rear-ending takes place (a positive judgment), and it is desirable to minimize the sum of expected accident and accident prevention costs (a normative judgment or standard), then the theory, at least *prima facie*, justifies the rule.

Theories are closely related to the notions of “relevance” and “similarity.” The application of these ideas, far from being a matter of direct sense perception, is theory-laden. What is relevant according to one theory may be irrelevant to another. For example, an orange is similar to a banana, and a banana is similar to a cigar; therefore, can we say an orange is similar to a cigar? To answer affirmatively would be an example of invalid reasoning because the similarity relations used in the premises are not the same.²¹ The first similarity relation presumably derives from a theory that identifies an object's use or origin in nature as a relevant characteristic, whereas the second similarity relation presumably derives from a theory that identifies an object's shape or length as a relevant characteristic.

One implication of the theory-laden nature of “relevance” and “similarity” is that a theory can be either implicit or explicit. Even if someone claims not to have a theory in some context, his statements about similarity and relevance in that context belie his claim. He must have a theory, even if he does not realize what it is. Karl Popper

observes that any perceived “repetition” of events in the world involves the identification of relevant similarities, since there are no two events that are exactly alike in all respects.

Popper notes:

“Generally, similarity, and with it repetition, always presupposes the adoption of a point of view: some similarities or repetitions will strike us if we are interested in one problem, and others if we are interested in another problem. But if similarity and repetition presuppose the adoption of a point of view, or an interest, or an expectation, it is logically necessary that points of view, or interests, or expectations, are logically prior, as well as temporally (or causally or psychologically) prior, to repetition.”²²

In short, there cannot be any theory-free apprehension of “similarity” and “repetition.” They can only be apprehended by use of a (possibly implicit) theory.²³

C. Research Programs

“Research program” is a term we have borrowed from philosopher of science Imre Lakatos²⁴, who uses it to refer to a broad set of basic assumptions, premises, and methods shared by a group of scientists working in the same scientific tradition. A research program is sufficiently loose that it can encompass multiple theories held by different scientists, and those theories may contradict each other. The research program places constraints on the types of theories scientists can use without losing credibility in

²¹ Walton (1992), *supra* ___ at 131-32.

²² Karl Popper, *The Logic of Scientific Discovery* 421 (1980 [1959]).

²³ This point has not always been recognized, even by distinguished legal scholars. Edward Levi, for example, believed that the “basic pattern of legal reasoning is reasoning by example.” The pattern consists of three steps. First, “similarity is seen between cases; next the rule of law *inherent* in the first case is announced; then the rule of law is made applicable to the second case.” Edward Levi, *An Introduction to Legal Reasoning* 1-2 (1949), emphasis added. This deceptively simple procedure involves theory at every stage. “Similarity,” as we have seen, is dependent on a theoretical construct. Extracting the “inherent” rule of law depends on a theory that correctly identifies a set of factors. Finally, to apply a rule requires that we distinguish relevant and irrelevant characteristics of the new case. In fact, since a rule is first established in a particular factual context (never exactly repeated), it must change, even slightly, as it is applied. A theory establishes the framework of allowable changes in rules justified by the theory.

²⁴ Imre Lakatos, “Falsification and the Methodology of Scientific Research Programmes.” in *Criticism and the Growth of Knowledge* (eds. Imre Lakatos and Alan Musgrave) 91-196 (1970).

their community of scholars.²⁵ We use the phrase research program here in much the same way, except without the emphasis on science.²⁶ In law, the relevant community may be judges, legal scholars, and private actors subject to the law. In ethics, the relevant community may be much broader, including everyone within the same moral community.

A research program is not a theory in our (or the usual) sense, as it does not have enough content to provide meaningful predictions or explanations in applied contexts. Instead, it is a meta-theory, a theory about theories. A research program in the law places broad limits on what legal theories can assume, how they can differ, what sort of conclusions they can reach. Another way of putting this is that a research program sets the structure of allowable change and difference among theories, thereby indirectly affecting rules and decisions.

As an example of the sort of guidelines that may characterize a research program, consider Melvin Eisenberg's claim that replicability in legal decision-making requires that “the courts employ a consistent methodology across cases.” The use of a common methodology, Eisenberg argues, enables “private actors, within limits, to determine before they enter into a transaction the legal rules – including the ‘new’ legal rules – that

²⁵ There is an obvious similarity with Thomas Kuhn's idea of a scientific paradigm. See, generally, Thomas S. Kuhn, *The Structure of Scientific Revolutions* (2nd ed., 1970 [1962]). We prefer the concept of a research program to that of the paradigm, however. “Although Kuhn's detailed development of this view [the paradigm] – especially his emphasis on inarticulable skills, ‘disciplinary matrices’, and the like – can be challenged (and certainly stands in need of clarification), he was surely pointing in the direction of an important and then relatively neglected aspect of mature science. Imre Lakatos, with his notion of research program complete with ‘positive heuristic’, and Larry Laudan, with his notion of a research tradition, both later underlined the same point in slightly different (*and considerably sharper*) ways.” John Worrall, *Philosophy and the Natural Sciences in Philosophy 2: Further Through the Subject* 203 (ed. A.C. Grayling, 1998), emphasis added.

²⁶ This usage may appear awkward in the case of law since it seems that a research program should have something to do with research. Law, in fact, is generated by an intellectual framework with assumptions, premises, and methods. So in this sense, legal decisions *are* the result of “research” or the development of theories, rules, arguments within a “research program.”

will govern the transaction if a dispute should arise.”²⁷ Perhaps this conclusion is too strong, because a research program or “methodology” is an incompletely defined structure. It could not, therefore, provide a great deal of guidance for private actors attempting to predict outcomes in specific disputes. Nonetheless, the use of a common methodology places limitations on how far a legal decision-maker's approach could differ from those of the legal community at large

One example of a legal research program is the efficiency approach in law. The unifying (normative) premise of this research program is the notion that legal rules are (should be) chosen so as to maximize economic efficiency, understood as social wealth maximization.²⁸ There are a variety of factual assumptions inherent in this approach, mostly drawn from the field of economics, including: agents have relatively stable and well-defined preferences; agents change their behavior in response to legal incentives; wealth maximization is a relevant standard for measuring social welfare; and so forth. But within the efficiency approach, there exist differing theories. Richard Epstein²⁹, for instance, has emphasized the importance of simple, well-known rules that serve to guide expectations of litigants in a wide range of cases. Richard Posner³⁰, on the other hand, has placed more emphasis on the selection of rules that induce wealth-maximizing choices in specific circumstances. Their differing theories have yielded differing conclusions about which rules should be used in specific areas of law; for instance, Posner has generally supported negligence rules in the law of tort, whereas Epstein has leaned toward strict

²⁷ Melvin Eisenberg, *The Nature of the Common Law* 11 (1988).

²⁸ Social wealth maximization may be seen as a generalization of the more specific standard of minimized expected accident and accident prevention costs mentioned in the previous section on theories. Minimization of the latter does not necessarily imply maximization of the former in a model with more than two cost variables.

²⁹ See, generally, Richard Epstein, *Simple Rules for a Complex World* (1995).

³⁰ See, generally, Richard Posner, *Economic Analysis of Law* (5th ed., 1998).

liability rules. More generally, legal efficiency analysts can reach different conclusions because of their differing perspectives on the magnitude of transaction costs, the relevance of administrative costs, the elasticity of litigants' behavior with respect to expected punishments, the frequency distributions across cases of efficiency-relevant parameters, etc.

D. Arguments

For our purposes, an argument is a reason or sequence of reasons, usually defeasible, for acting in a particular manner. Often, an argument will take the form of a deductive justification:

If E occurs and has characteristics X, Y, Z, then one should do D.

Event E has occurred and has characteristics X, Y, Z.

Therefore, one should do D.

In other words, an argument provides a normative major premise for reaching a conclusion, and a decision-maker who wishes to apply the argument must verify or support the minor factual premise.

Again, some clarifications are in order. First, we employ the word “argument” in the sense of a *justification* for taking some action or accepting some proposition. This is distinct from other sorts of arguments, such as the use of empirical data to test a scientific theory. Second, it is important to distinguish a justificatory argument from a causal explanation of some agent’s action. Simply because the foregoing syllogism is valid, and even if its premises are true, the agent need not act in accordance with the conclusion. He obviously can ignore his duty (what he “should” do). Nevertheless, the argument

provides a structure for the justification of an action – a reason or set of reasons for acting in a certain way.³¹

We have saved the definition of argument for last because arguments can take place on many different levels of analysis. There can be arguments about the application of *rules*, there can be arguments about the application of *theories*, and there can even be arguments about the application of *research programs*. This point will become more apparent in the example provided below.

The structure we have outlined here consists of four levels, like so:

1. Decisions
2. Rules
3. Theories³²
4. Research Programs³³

At each level, there are arguments among the different items at that level, and some of those arguments consist of applying items at the next higher level. At level 1 (Decisions), there are arguments made about which decision to make, and some of those arguments involve the application of rules. At level 2 (Rules), there are arguments about which rule to select, and some of those arguments involve the application of theories. At

³¹ Not all arguments are deductive in form. A deductive argument such as that in the text presupposes that there is no problem interpreting an existing normative rule as the generalization in the major premise. It also presupposes that there is sufficient legal or normative warrant for the major premise in the first place. In a context where there are no explicitly stated rules, one must go beyond the “problem of interpretation” to determine whether there is sufficient warrant in the appropriate sources for the generalization (the “problem of relevance”). Establishing the correct interpretation or finding sufficient warrant for a rule is not arrived at by deductive argument. Other methods, such as analogous reasoning, may be used. See Neil MacCormick, *Legal Reasoning and Legal Theory* 19-72 (1978).

³² Theories can exist at multiple levels; a low-level theory might be a relatively specific normative standard. See comments in Section F, below.

³³ Research programs may include relatively general or abstract normative standards.

level 3 (Theories), there are arguments about which theory to employ, and some of those arguments involve the application of the research program.

E. Example: Make-Up Exam *Meshugas*

Suppose a student asks his professor, “Why did you refuse to give me a make-up exam?” The professor responds, “Because there is a rule that says absent a doctor's note, you may not be given a make-up exam. You don't have a doctor's note, so you don't get a make-up exam.” This is an argument at the decision level: it is a reason for deciding not to give a make-up exam. It is also the application of a rule.

Now suppose the student says, “But my great aunt Polly died. One purpose of the rule was to allow exceptions for students who have a good reason for missing the exam. A death in the family is a good reason, so the rule should have an exception for that.” This is an argument, but it is no longer at the decision level, but at the rules level. The student contends that the rule should be something other than what it is. To bolster his argument, he appeals to the justification for the rule, and in doing so he is applying a theory about how to select rules. He hopes the professor will share his normative judgment (that a death in the family is a good reason to miss an exam) as well as his understanding of a purpose of the make-up rule (to allow exceptions for good reasons). In short, the student hopes the professor will share his theory.

The professor might at this point advance theoretical arguments against the student's position. For instance, he might agree that one of the rule's purposes is to make exceptions for good reasons, but say that a distant death in the family (great aunt?) is not a good enough reason to expand the rule to include the present case. This argument, like

the student's, is about the correct application of the theory. That is, the student and professor are having a level 2 (Rules) discussion, where appeal is being made to a shared theory.

On the other hand, the professor might argue that a purpose of the rule is not merely to allow exceptions, but also to constrain his (the professor's) discretion. In making this argument, the professor posits an alternative theory of the justification for rules, and he thereby raises the discussion to level 3 (Theories) within a shared research program.³⁴

It would not be terribly surprising to hear any of arguments made so far. But it would certainly be surprising to hear the professor say, “The rationale of the theory underlying the rule is to maximize my personal satisfaction, and I don't want to administer make-up exams.” If he did, he would be raising the discussion to level 4 (Research Programs). A professor with this point of view would stand outside the research program in which most professors, students, and other members of the educational community operate.³⁵

The different levels at which arguments can be made are not hermetically sealed off from each other. As the example indicates, the different levels of argument can mingle, even within a single conversation. And sometimes, the level at which an argument is made may not be clear. For instance, suppose the student says, “You should let me take a make-up anyway, because my great aunt died.” If the professor agrees, has

³⁴ When there is discussion at a certain level, it may employ items derived from a higher level. A discussion at the decision level will employ rules (that are effectively taken for granted). The discussion at the rules level will employ theory (taken for granted). A discussion at the theory level will employ a research program (again taken for granted).

³⁵ Presumably the more common research program would include the normative standard of maximizing the joint welfare of students and professors or, less plausibly, the students alone.

the professor changed the rule (operating at the rules level), or has he simply chosen not to apply the rule in the present case (operating at the decisions level)? After all, arguments may be defeasible, so the choice not to apply a rule does not necessarily imply a modification of the rule. The argument for the application of the rule may be simply incorrect. But we contend that, at least in principle, it is possible to distinguish between levels of argumentation.

The structure we've described consisting of four levels (decisions, rules, theories, and research programs) is a simplification. What we've called the theories level may actually consist of multiple layers. Some theories are broader and more abstract, others narrower and more applied. In a discussion about choosing among theories (not merely applying them to choose rules), the arguments need not appeal to the research program, but merely to a higher level of theory.

Our broader point is simply that discussion and argumentation can take place at many different levels of analysis. Those things that are taken more or less for granted at a lower level can become objects of questioning and analysis at higher levels.

F. Arguments about Arguments

A distinguishing feature of an SSA is that it relies on the future acceptance of arguments not yet made or appreciated. But in order to predict, even roughly, the kinds of arguments that may be accepted, we must go beyond the level at which the initial argument is constructed. In terms of the structure just laid out, an SSA must go at least one step up in the decisions-rules-theories-research programs chain.

Consider the following hypothetical argument against socialized health care: “In a socialized system of health care, people are not confronted with the monetary costs of their risky behavior; consequently, a moral hazard problem is likely to result. People will take greater health risks than otherwise. In the aggregate, such behavior will drive up the costs of the system as a whole, fueling demands by taxpayers and legislators to restrain the behaviors that increase costs. Thus they will end up supporting the regulation of lifestyle choices, such as ‘unsafe’ sexual practices, indulgence in dietary fat and sugar, and so forth, on the grounds that some choices cost society more in healthcare expenses than others.”

The above argument may or may not be persuasive,³⁶ that is not the issue here. The point is the *form* of the argument. The proponent of the SSA is saying that the acceptance of an argument (that we should have socialized health care) will “cause” people to accept another argument (that lifestyle choices should be regulated) they would be less likely otherwise to accept. The proponent shifts our attention away from the initial argument itself to the *transition* between arguments. In this sense, he is making an argument about arguments, or a meta-argument.

The decisions could be made in isolation. But the proponent draws a connection between them. He claims that an affirmative answer to the first question about the desirability of socialized health care will lead to (or make more likely) an affirmative

³⁶ But see the more modest example of California’s motorcycle helmet law. Starting in 1992 all motorcycle riders were required to wear helmets in an attempt to reduce the number of injuries and fatalities arising out of motorcycle accidents. One of the reasons the state legislators adopted the law was to save taxpayer money. Most of the cost of crashes was borne by the taxpayer because fewer than half those hospitalized had private medical insurance. See Wendy Max, Brad Stark and Sharon Root, “Putting a Lid on Injury Costs: The Economic Impact of the California Motorcycle Helmet Law,” 45 *Journal of Trauma: Injury, Infection and Critical Care* 550 (1998). (“During the first two years of implementation of California’s helmet law, there were reduced costs for injuries and fatalities and large dollar savings to the state and other payers compared with the previous year.” *Id.* at 550.)

answer to the second regarding lifestyle restriction. On which grounds can this claim be supported? Socialized medicine will set in motion effects (e.g., higher external costs of gluttony) that will make certain other arguments – applicable to the question of lifestyle regulation – more persuasive than they otherwise would have been.

What would the proponent have to know to make this claim with reasonable support? He would need to know something about which arguments are likely to be made in the lifestyle debate, which factors increase or decrease their likelihood of acceptance, and so on. In short, he must have knowledge of *the structure of discussion and argument*. The arguments people will make in the future depend upon their rules, theories, and research programs, as well as the facts of the case.

An SSA relies on a model of how people construct, evaluate, and apply arguments. The validity of the argument depends on the accuracy of the model. Obviously, some models are correct and others not. The validity of the argument against socialized medicine above depends, in large part, on whether taxpayers and legislators do in fact consider the monetary costs of lifestyle choices to the community. In the next few sections, we outline some specific slippery slope processes, or models, that are valid at least some part of the time.

III. Micro Process: Sorites and Precedent

“Sorites” refers to a particular type of logical paradox that occurs in the presence of vague words and phrases. The word sorites derives from the Greek *soros* for “heap,” a reference to a classic example of the paradox. The paradox goes like so: If there is a heap of sand, you can always remove one grain of sand and still have a heap. If this premise is

applied repeatedly (a heap of premises), we eventually must conclude that even just one grain of sand is also a heap.³⁷ Similar reasoning can lead to such conclusions as that there are no bald men, that pygmies are tall, and so forth.

The root of the paradox is the existence of vague or fuzzy-bordered concepts like “heap,” “bald,” “tall,” etc.³⁸ While there do exist clear cases of heaps and clear cases of non-heaps, there is a gradient of cases in between that are neither clearly heaps nor clearly non-heaps. The gradient creates the possibility of a chain of reasoning, seemingly valid, that links the ends of the spectrum and effectively erases the distinction between them.

Suppose we begin, following Rescher³⁹, with two “observable facts”: first, that one grain of sand does not make a heap and, second, that a million grains of sand do make a heap. So long as we accept the “seemingly evident general principle”⁴⁰ that it is *always* true that adding only one grain to a non-heap still yields a non-heap, we shall end up contradicting our belief that a million grains of sand make a heap.⁴¹

³⁷ Strictly speaking, the premise need not be applied repeatedly. By mathematical induction, the result can be achieved by recognizing that adding or subtracting one grain *never* matters. See Stephen Read, *Thinking about Logic: An Introduction to the Philosophy of Logic* 174-5 (1995). See also Dagobert Runes (ed.), “Sorites,” in *The Dictionary of Philosophy* 524 (2001), 524.

³⁸ “Vagueness is a widespread feature of our thought. Consider the following list: ‘child,’ ‘book,’ ‘toy,’ ‘happy,’ ‘clever,’ ‘few,’ ‘cloudy,’ ‘pearl,’ ‘moustache,’ ‘game,’ ‘husband,’ ‘table.’” R. M. Sainsbury, *Paradoxes* 28 (1988).

³⁹ Nicholas Rescher, *Paradoxes: Their Roots, Range, and Resolution* 79 (2001).

⁴⁰ Logicians often call this the “tolerance principle.” See, e.g., Sainsbury (2001), *supra* ___ at 325.

⁴¹ Philosophers and linguists have attempted to resolve the sorites paradox in a variety of ways. See, e.g., Timothy Endicott, *Vagueness in Law* 77-98 (2000), and Rescher (2001), *supra* ___ 77-83. We do not attempt to add to this literature. It is worth pointing out, however, that one unsuccessful method of resolving the paradox involves trying to create a third category, the “unsure” or “ambiguous” category. For example, in the case of collections of grains of sand, we might say there are clear heaps, clear non-heaps, and cases that are neither. The problem with this approach, and the reason it does not resolve the paradox, is that the borderline between clear cases and unclear cases is itself vague – and therefore susceptible to sorites reasoning. If you start with a collection of sand that is clearly a heap and remove one grain of sand, you still have something that is clearly a heap. Apply this premise repeatedly, and we eventually conclude that there are no unclear cases. Alternatively, one could insist that there *is* a definite borderline between the clear cases and the unclear cases – but this is just as problematic as asserting that there is a definite borderline between the cases where the original vague term applies and cases where it does not. Just as

The sorites paradox is relevant to the present discussion because it can act as a slippery slope process⁴², particularly in systems where precedent plays an important role in the decision-making process. If the actual and potential cases where decisions need to be made are distributed along a spectrum according to some relevant factor, a series of logical steps can link highly disparate cases, leading to the erroneous or undesirable conclusion that unlike cases should be treated alike. To put the problem in mathematical terms, imagine that all cases are arranged on a gradient from zero to one. One is the clearest possible case for taking some action A. Zero is the clearest case for not taking action A. According to whatever theory is used by decision-makers, two cases are “similar” if the difference between their numbers on the scale is less than 0.1. A case arises with a value of 0.95 on the scale, and this falls within the realm of “clear cases for taking action A,” so action A is taken. In a subsequent case with value 0.9, the decision-maker observes that it is similar to the first case, and so he follows precedent by taking action A in the present case as well. Then there arises a case with value 0.85, then 0.8, etc. Through a series of decisions based on similarity and precedent, we eventually conclude that case n with a value of (say) 0.1 should also result in action A, even though case n is, or is similar to, a “clear case for not taking action A.”

It should be noted that the character of the slippery slope is crucially dependent on the initial precedents; it is a path-dependent process. Suppose we started from the other direction, that is, with situations that are “clear cases for not taking action A.” Then, the momentum for the sorites slope would move toward a situation that results in inaction in

there is no specific minimum number of grains of sand that constitutes a heap, there is also no specific minimum number of grains of sand that constitutes a *clear* heap. The *transition* from clear to unclear is itself indeterminate; see Walton (1992), supra ___ at 50-1.

⁴² Walton (1992), supra ___ at 37-68.

something that would otherwise have been regarded as “a clear case for taking action.” If the cases arise in a mixed way, that is, some near one and others near zero, then the decisive factor may be the location of the burden of proof or standard of persuasion⁴³

From an external point of view, the strict logical error in the numerical example above is that similarity, as defined in the example, is not a transitive relation⁴⁴. If case x is similar to case y , and case y is similar to case z , that does not *necessarily* mean that case x is similar to case z . (This problem is not created by a shifting definition of similarity, as in the example of saying a banana is similar to a cigar, because the same similarity relation is used in every step here.) While this may be apparent from an external point of view, it may not be apparent to decision-makers operating within the system. The root of their difficulty is that it is *plausible* x is similar to z ; indeed it may even be true in some instances⁴⁵, but it is costly to determine this. If the agent’s decisions are made by reference to precedent and plausible similarity, then the sorites chain can occur. To recognize and possibly avoid the slippery slope, one must be willing to raise the discussion to a higher level that considers the *cumulative* effect of many marginal decisions.⁴⁶ In other words, the SSA – the argument that draws attention to how a chain of seemingly correct decisions can lead to an undesirable outcome – is a meta-argument. In the rubric presented earlier, it appears at the level of rules or theories, not at the level of decisions.

⁴³ For more on how burdens of proof or standards of persuasion can impede slippery slopes, see section IX.

⁴⁴ For a brief discussion of the non-transitivity of similarity in a related context, see Sainsbury (2001), *supra* ___ at 329.

⁴⁵ Rescher (2001), *supra* ___ 15-20.

⁴⁶ The resister of a slippery slope argument “should demand that the argument be looked at in a holistic way, and point out that, because of the vagueness of the key term, it is arbitrary to fasten on any particular point in the reapplication sequence.” Walton (1992), *supra* ___ at 59. There is, however, the important economic question of whether any particular decision-maker has an incentive to take account of the cumulative effect.

The meta-argumentative nature of the sorites SSA may be better appreciated when we understand that the progression illustrated above can be generalized in the following way:

α^1 is an acceptable argument (to do or decide A^1)

α^2 is close to or similar to α^1

Therefore, α^2 is an acceptable argument

.....

α^9 is close to or similar to α^{10}

Therefore, α^{10} is an acceptable argument (to do A^{10})

But α^{10} (A^{10}) is, in fact, unacceptable.

In this generalization of the sorites SSA, the progression is generated by an overall perceived similarity⁴⁷ of arguments (thus an argument about arguments) that is often – but not always – rooted in the vagueness of a central concept. For example, an argument that justifies state subsidization of school lunches may be seen as similar to the argument that justifies state subsidization of education in the first place – perhaps because the education of the mind and the health of the body are empirically related.⁴⁸

If the law sometimes manages to resist slippery slopes in the presence of vague terms, it is because the legal profession has adopted various stratagems for resisting them. Such stratagems include, possibly, the establishment of clear (though arbitrary) rules and the selective use of higher standards. We will delay our discussion of these slope-resisting strategies until later. For now, we will observe that there do not seem to be any

⁴⁷ The judgment of “closeness” or “similarity” depends on a theory, including its empirical presuppositions.

⁴⁸ For a critical analysis that just this connection was being made in the late nineteenth century, see Spencer (1982 [1884]), *supra* ___ at 45.

foolproof methods of resisting slippery slopes, only methods that have been more or less successful than others.

IV. Macro Process: Unanticipated Consequences

“Unanticipated consequences” is the name we give to slippery slopes that involve, as an essential feature of the process, a change in the real-world incentives faced by decision-makers. Like all SSAs, the unanticipated consequences slope points out that accepting some Argument #1 will increase the likelihood of accepting some other Argument #2 (#3, #4, etc.). The crucial difference is that the transition between arguments is eased by some change in economic incentives resulting from the earlier argument’s acceptance.

It is possible for Robinson Crusoe to experience unanticipated consequences of his own actions and to be led along a slippery slope to an undesirable outcome. Nevertheless, the unanticipated-consequences processes in which we have the greatest interest are those generated by interventions in complex social systems. Such systems are characterized by two fundamental properties: first, the interrelation of individual actions and plans; and second, the existence of emergent properties resulting from the interactions of these individual behaviors. In systems, there is an absence of linearity: the effect of the sum of two or more factors is not equal to the sum of the individual effects arising from them. Furthermore, agents cannot predict outcomes simply by knowing the equilibrium solutions pertaining to the initial data. The path taken will influence the actual equilibrium outcomes (if there are any), and the path is unpredictable. Even outside of systems, where consequences are foreseeable in principle, they may be

unforeseeable in practice because they follow from changes in incentives that are obscure and not immediately apparent to a decision-maker subject to high information costs or bounded rationality, for example.⁴⁹

Economists have long emphasized that decisions, especially policy decisions, often have consequences neither intended nor expected by the decision-maker.⁵⁰ Simply pointing to unanticipated and unintended consequences, however, is not to make an SSA. But when these consequences affect the way future decision-makers (or the same decision-maker under different constraints) will form and evaluate arguments in some systematic way, then the foundation exists for an SSA. The sliding takes place not because the arguments made at the various stages are similar (as in the previous process) but because the stages are *causally* inter-linked, inasmuch as the first step lowers the cost or increases the benefit of taking the next step relative to what it would otherwise have been⁵¹

More concretely, when unanticipated consequences are caused by a governmental restriction on individual behavior, an SSE can occur if the initial restriction makes further restrictions more likely. This may happen if the experience of unanticipated consequences is conjoined with an argument that further restrictions are curative or, at least, ameliorative. If this scenario is likely to occur, or is perceived likely, some observers or analysts may construct SSAs on this basis.

⁴⁹ Even if some individuals happen to *foresee* consequences, they will not have an incentive to act on this foreknowledge if they cannot affect (i.e., change) the consequences. But the inability to affect outcomes is a good reason that a rational individual will not even try to anticipate consequences in the first place (unless he is an academician!).

⁵⁰ See, e.g., Frederic Bastiat, "What Is Seen and What Is Not Seen," in *Selected Essays on Political Economy* 1-50 (1964 [1850]).

⁵¹ For a more exhaustive discussion of "cost-lowering" slippery slope mechanisms, see Eugene Volokh (2003), "The Mechanisms of the Slippery Slope," forthcoming, 116 Harv. L. Rev. ____, Sept. 16, 2002

Note that even in this “causal” process, theoretical constructs are utilized at every stage of both the event and the argument. Beginning with the argument, the proponent recognizes a causal relationship between the government policy and the unanticipated (to the “public”) and undesirable consequences. There are at least four types of theory operative here. First, there is the positive theory that links the initial intervention with its real-world consequences. Second, there is the normative theory (or, at least, perspective) which deems the consequences “undesirable.” Third, there is the further positive theory (typically held by someone other than the observer, such as legislators or voters) that sees the second intervention as ameliorative. Finally, there is the further normative theory (also typically held by someone other than the observer) that sees amelioration as beneficial, all things considered. With respect to the SSE, however, it is not necessary that the economic agents (legislators and voters) understand the connection between policy and the undesirable outcome. It is sufficient that they find it undesirable and believe that further intervention is the answer (i.e., they hold the last three theories above).

The socialized medicine hypothetical, previously mentioned, is a simplified case of an unanticipated-consequences process. Recall that there is a moral hazard problem resulting from changes, at the margin, in incentives to make risky decisions. Although merely pointing to moral hazard is not to make an SSA or to describe an SSE, saying that the moral hazard problem will increase support for regulation of lifestyle choices is to make such an argument or to point to such an event. The key to the SSA and possible SSE in this case is a model (“theory”) in which voters believe it is possible to lower their

draft, 10-38. Note that the change in incentives does not *ensure* that a particular chain of events will occur, but it makes it more likely than otherwise.

tax burden by (further) restrictions on individual autonomy (“No food with a saturated fat content beyond x may be sold!”). This is a belief derived from positive theory. They also believe that it is morally *acceptable* to so restrict individual autonomy for the purpose of lowering their tax burdens. This is derived from a normative theory, if only an implicit one.

This unintended-consequences process produces results that may be unacceptable from the initial point of view of those who decide to implement a program of socialized medicine. These same agents may put into effect the very regulations that they previously disliked, because of the unpredicted change in their own incentives. Their underlying preferences have not changed but their actions have. (They must now bear costs they previously did not.) Whether this new outcome is of such lower utility that, if agents knew the full consequences of the program in advance they would choose not to adopt socialized medicine, cannot be determined a priori.

V. Macro Process: Separately Validated Propositions

In this process, propositions that have been validated separately imply, when logically combined, a conclusion that would not have been validated if considered by itself. To see how this is possible, consider majority rule. It is a well-known fact that if a majority approves of policy A, and a majority also approves policy B, it does *not* follow that a majority would also approve the union of A and B. The reason is that the majorities supporting the separate policies may not be the same. If 51 percent support A and 51 percent support B, it is possible that as few as 2 percent support both. This fact may not be terribly relevant for our purposes if policies A and B are totally unrelated, but

it takes on special significance if the policies are logically or practically related. If that is so, then separate validation of the two policies could result in an overall “coherent” policy outcome that would not itself be validated and could constitute an SSE.

For example, consider a variation of the socialized medicine example. Earlier, this was characterized as a case of unintended consequences. But now suppose that the economic consequences of the policy (i.e., moral hazard and its consequent increase in costs) are well known to everyone. Suppose that 51 percent of the population approves a socialized healthcare system (*A*), while a different 51 percent of the population would approve placing restrictions on activities that impose substantial costs on the taxpayers (*B*). Together, these policies imply the appropriateness of restricting lifestyle choices that increase health risks under socialized medicine; yet as few as 2 percent of the population may initially support that outcome. Separate implementation of the two policies, under the assumptions, leads to an outcome desired only by a small fraction of the public.

This example should not lead us to confuse the present process with the previous one. The hypothesis that everyone understands the cost-raising consequence of socialized medicine rules out unanticipated consequences of the kind discussed earlier. In the present version of the story, the original supporters know that socialized medicine is likely to raise healthcare costs, and they accept that as part of the package. What they do not foresee is that *others* in the population will, once the higher costs become evident, support the argument for lifestyle regulation. For this to occur, it must be the case that at least 51 percent of the population prefer the option {socialized medicine with lifestyle regulation} to the option {socialized medicine without lifestyle regulation}. Note that these preferences are consistent with having opposed socialized medicine in the first

place, if {neither socialized medicine nor lifestyle regulation} is one's most preferred option. The outcome of the voting process could be {socialized medicine with lifestyle regulation} even if as few as 2 percent of the public had that as their most preferred option. These preferences are summarized in Table 1. From the table, it can be seen that 51 percent of the population would prefer socialized medicine alone (SM) to the status quo; after its implementation, a different 51 percent would prefer to add lifestyle regulation (SM + LR); and yet 98 percent of the population would have preferred the status quo ante over the combined regulatory regime.

Table 1: Hypothetical Population Preferences Leading to Separately Validated Propositions

	Percentage of Population	First Preference	Second Preference	Third Preference
Group A	49%	SM	status quo ante	SM + LR
Group B	49%	status quo ante	SM + LR	SM
Group C	2%	SM + LR	SM	status quo ante

There is a sense in which unanticipated consequences are involved in this process. The members of Group A, who initially supported socialized medicine, did not foresee the voting behavior of Groups B and C. If they had, they might not have supported socialized medicine in the first place. This is not, however, the unanticipated consequences process as defined earlier, since it is not the occurrence of moral hazard (a real-world change in economic incentives) that brought about the slope.

Readers familiar with the literature on social choice will no doubt recognize the figures above as an instance of Condorcet's paradox⁵², which can occur when voters have preferences that are not "single-peaked."⁵³ This implies that majority voting on pairs of policies can generate non-transitive "social preferences." Volokh⁵⁴ provides more examples of this nature. We wish to add two observations. First, although it is often suggested that the intransitive nature of the voting process will lead to cycling (policy A is replaced by B, which is replaced by C, which is replaced by A again, ad infinitum)⁵⁵, that need not be the case. Often there are high costs of policy reversal that effectively prevent a return to the original policy. It is easier to fall down the slope than to climb back up. Second, the separately validated propositions process does not *require* non-single-peaked preferences like those above, as majority rule is not the only social means of making decisions. In law, the authoritative opinions of one or a few courts can be sufficient to validate a proposition. Distinct legal propositions may be validated through separate precedent-setting decisions, and later cases may reveal the unanticipated consequence of combining them. Unless the courts deciding such cases are willing to break at least one precedent, they may find themselves validating additional propositions even if they seem undesirable.

⁵² For a discussion of Condorcet's paradox or the "paradox of voting," see, e.g., Patrick A. McNutt, *The Economics of Public Choice* 42-6 (2002).

⁵³ In this case single-peaked preferences means that all three groups are in agreement that a particular alternative is the worst. Multi-peaked preferences means that, from the point of view of the individual groups, there are at least two, possibly three, least preferred alternatives. See Michael J.G. Cain, "Social Choice Theory" in *The Elgar Companion to Public Choice* (William E. Shughart II and Laura Razzolini, eds.) 107 (2001).

⁵⁴ Volokh (2003), *supra* ____, *passim*.

⁵⁵ See Dennis C. Mueller, *Public Choice* 38-49 (1979).

The issue of fetal personhood⁵⁶ is an excellent demonstration of how separately validated propositions have the potential to combine to reach conclusions that are (at least to some observers) unpalatable. The issue is whether, and under what circumstances, fetuses should be treated as legal persons. According to the line of reasoning followed in the Supreme Court's *Roe v. Wade*⁵⁷ decision, a fetus is not regarded as a legal person with respect to the issue of abortion. But in a number of cases unrelated to abortion, American courts have been willing to treat fetuses as persons, especially in criminal cases involving an intentional or accidental fetal death caused by someone other than the mother, such as an attacker or drunk driver.⁵⁸ The apparent conflict between the lines of reasoning has not yet been resolved, but some slippery slope possibilities are apparent. From the perspective of a proponent of abortion rights, the danger is that the recognition of fetal personhood in criminal cases could, in combination with the Fourteenth Amendment's protection of the life, liberty, and property of all persons, eventually undermine *Roe v. Wade*'s protection of abortion rights. From the perspective of abortion opponents, of course, this would be a desirable slope. But there is also the potential for a slope in the other direction: the denial of fetal personhood in abortion cases could, in combination with the traditional definition of murder as the wrongful killing of a person, result in a situation where the deliberate killing of someone else's unborn child could only be prosecuted as battery, not murder. Thus, both advocates and opponents of abortion rights have reason to fear the effect of consistency in the law.

⁵⁶ For a full discussion of the fetal personhood issue, see Aaron Wagner, "Texas Two-Step: Serving up Fetal Rights by Side-Stepping *Roe v. Wade* has Set the Table for Another Showdown on Fetal Personhood in Texas and Beyond," 32 *Texas Tech Law Review* 1085 (2001).

⁵⁷ 410 U.S. 113 (1973).

⁵⁸ Wagner (2001), *supra* ___ at 1103.

SSAs based on the separately validated propositions process highlight the likelihood that certain arguments, if accepted now, will interact with other arguments to increase the likelihood of accepting different arguments in the future. In the case of socialized medicine, opponents might warn (potential) advocates that accepting the policy would increase the likelihood of persuasive arguments for lifestyle regulations they do not support. In the case of fetal personhood, abortion rights advocates might warn against allowing charges of murder against a person who caused the death of another's fetus, since it might reinforce persuasive arguments against *Roe v. Wade*. As with previous types of SSA, this argument requires a model (implicit or explicit) of how decision-makers (judges, voters, and legislators) accept arguments. Specifically, the model in the socialized medicine example says that some percentage of voters are willing to “vote their pocketbooks” and accept arguments for lifestyle regulation. The model in the fetal personhood example says that judges are inclined to accept, on grounds of precedent or consistency, arguments that follow logically from others already accepted.

To evaluate the models empirically, it is necessary to examine (a) the preference distributions of voters and (b) the power of consistency in the formation of legal doctrine, respectively. Voters may not have preferences anything like those hypothesized. And although systemic consistency⁵⁹ does have influence in the law, it is not an absolute value; courts may rule inconsistently by creating a special doctrine or area in which certain factual or legal pre-suppositions hold that are at variance with those in other doctrines or areas. The crux of the matter is how much emphasis the legal system places

⁵⁹ Systemic consistency is the notion that “rule A should be adopted in preference to a competing rule, rule B because *neither applicable social propositions* [e.g., moral norms or policy goals] *nor any deep doctrinal distinction* would justify adopting rule B while adhering to some other previously announced rule.” Eisenberg (1988), *supra* ____ at 93, *emphasis added*.

on consistency among legal doctrines. Ultimately, the persuasiveness of an SSA relying on the described processes depends on the credibility of the underlying models.

There is one more aspect of the separate validation process that bears emphasis. In the structure of discussion and argument, we observed that conclusions at one level are often applied as arguments at the next lower level. Research programs provide arguments in the choice of theories, theories provide arguments in the choice of rules, and rules provide arguments in the making of decisions. Now, in the discussion of the sorites process, we assumed that discussants shared the same theory, as exemplified by identical similarity relations. But here, no such assumption is necessary. Proposition *A* might result from the influence of theory *X*, proposition *B* from the influence of theory *Y*. Indeed, the process may even *require* the existence of multiple theories, as it seems unlikely that people would disagree with conclusions that follow from propositions arrived at through the same theory – unless the theory is internally inconsistent or incomplete.⁶⁰

VI. Macro Process: Humean Beneficence

David Hume argues that (private) benevolence is a “natural virtue,” as distinct from justice, which is an “artificial virtue.” What he means is that acting on a feeling of benevolence toward specific individuals in difficult situations produces an immediate and direct positive feedback for most people; whereas acting in accordance with the general

⁶⁰ Consider a series of cases: A...m, n...B where A is innocuous and B is danger. Now suppose “[d]ifferent judges...hold different theories about the correct ground for the distinction [between A and B]. But they have to accept each other’s decisions as part of the law. This may be illustrated as follows. Judge X may think that n and B are similar and that the line should be drawn between m and n, while Judge Y thinks the line should be drawn between n and B. If Judge Y upon this basis has accepted n, then Judge X, respecting the precedent created by Y, will make the further step toward the acceptance of B. Though neither Judge X

rules of justice does not produce positive feedback in every case. The social utility of the rules of justice⁶¹ is based on the convention or artifice that if I adhere to the rules so will you, and vice versa. The utility of justice is thus derived from the “whole plan or scheme”⁶² and not from a single application of justice. The rules are acquired primarily through socialization and immersion in the norms of the society. This is not, to Hume, an argument against the fundamental nature of the rules of justice; on the contrary, he contends that general, inflexible pursuit of justice is indispensable to the general happiness of society. But its artificial character makes it not as easy to act upon as benevolence.

Therefore, and of special importance to SSAs, there will sometimes – even often – arise conflicts between justice and beneficence. The principle underlying beneficent actions is one that takes note of special circumstances and the particular character of individuals, whereas justice is deliberately blind to such factors. In this sense benevolence is a concrete virtue and justice is an abstract virtue.⁶³ As a result, a benevolent person focused on particular circumstances will become aware of many seemingly undesirable consequences of specific acts of justice. As Hume argues,

“All the laws of nature, which regulate property, as well as civil laws, are general, and regard alone some essential circumstances of the case, without taking into

nor Judge Y would have made the step from A to B directly, their combined activity leads to an acceptance of B” Wibren van der Berg, *The Slippery Slope Argument*, 102 *Ethics* 42, 50 (1991).

⁶¹ For Hume, substantive justice consists, most fundamentally, of the rules that function to preserve existing property rights in a “general, inflexible” manner. See David Hume, *An Enquiry Concerning the Principles of Morals* 171 or Appx 3.4 (ed. Tom L. Beauchamp, 1998 [1751]). But since “possession and property shou’d always be stable, except where the proprietor agrees to bestow them on some other person”, rules regarding the transference of property by consent (contract law) are implied. See David Hume, *A Treatise of Human Nature* 330 or sec. 3.2.4.1 (ed. David Fate Norton and Mary J. Norton, 2000 [1740]).

⁶² Hume (2000), *supra* ____ at 319 or sec. 3.2.2.22.

⁶³ Compare Herbert Spencer, *Principles of Ethics*, v.1, 156 (1978 [1897]): “The motive causing a generous act has reference to effects of a more concrete, special and proximate kind, than has the motive to do justice; which beyond the proximate effects, usually themselves less concrete than those of generosity contemplates, includes a consciousness of the distant, involved, diffused effects of motivating equitable relations.”

consideration the characters, situations, and connexions of the person concerned, or any particular consequences which may result from the determination of these laws, in any particular case which offers. They deprive, without scruple, a beneficent man of all his possessions, if acquired by mistake, without a good title; in order to bestow them on a selfish miser, who has already heaped up immense stores of superfluous riches.”⁶⁴

As a result, decision-makers will sometimes find themselves torn between the demands of justice, on the one hand, and the demands of pity, compassion, and benevolence on the other.⁶⁵

The conflict between justice and beneficence creates the potential for a slippery slope. In a specific case, a judge or other decision-maker may be tempted to depart from the rules of justice to make a special exception. It may seem undesirable, for instance, to enforce a contract against a well-meaning person who simply failed to think through the consequences of his decision to sign. Or it might seem lacking in compassion to extract large liability damages from a poor person who accidentally caused harm to another. Now, the mere act of making an exception does not itself constitute a slippery slope. But if the exception in some way makes future exceptions more likely than they would have been otherwise, then there is the potential for a slippery slope.

But why would one exception increase the likelihood of further exceptions? Consider a simple model of judicial decision-making, in which judges weigh their personal preferences about the disposition of cases versus a concern for their reputations. The reputation of a judge is determined primarily by the perception that he abides by

⁶⁴ Hume (1998), supra ___ at 171 or Appx. 3.6.

⁶⁵ For an analysis of Hume on justice and benevolence, see, for example, James Baillie, *Routledge Philosophy Guidebook to Hume on Morality* 153-59 (2000), 153-59. For Hume’s claim that neither public nor private benevolence can be the foundation of justice, see Hume (2000), supra ___ at 309-11 or sec. 3.2.1.11-19.

precedents set by other judges.⁶⁶ The more a judge's decision appears to depart from the pattern established in prior cases, the greater will be the negative impact on the judge's reputation. Now, suppose a judge faces a case that he would prefer to decide in a beneficent manner, but there is a general rule established by prior cases against deciding in that way. Other things equal, he will be more inclined to decide the case beneficently (instead of according to the general rule) when there exist at least some "nearby" cases also decided in that way, because such cases reduce the appearance of renegade behavior. The judge can more plausibly claim that his case follows the pattern of previous cases.

Early on, few or no exceptions may have been made, and so judges who wish to indulge their feelings of benevolence get little support from precedent. Only the most "compassionate" judge, one whose desire to act beneficently is large enough to overcome his desire to safeguard his reputation, would be willing to make an exception. But the few early cases in which exceptions are made establish the basis on which further exceptions can be made later. As more exceptions are made, the margin moves, so that judges who would not have been willing to make exceptions when previous exceptions were few in number become willing to make them when many exceptions have been made. The more exceptions that have been made, the easier it is for further exceptions to be justified as consistent with the body of prior cases, and thus the reputational constraint becomes gradually less binding. The process is comparable to the mathematical description of the sorites slippery slope, in which the movement along a scale from zero to one is made

⁶⁶ A number of analysts have modeled judges in this way: William M. Landes & Richard A. Posner, "Legal Precedent: A Theoretical and Empirical Analysis," 19 *Journal of Law & Economics* 249 (1976), Georg von Wangenheim, "The Evolution of Judge-Made Law," 13 *International Review of Law & Economics* 381 (1993), Thomas J. Miceli & Metin M. Cosgel, "Reputation and Judicial Decision-Making," 23 *Journal of Economic Behavior and Organizations* 31 (1994), and Douglas G. Whitman, "Evolution of the Common Law and the Emergence of Compromise," 29 *Journal of Legal Studies* 753 (2000).

possible by intermediate judgments of similarity. But in the present story, the choices of decision-makers result not from “blind” application of precedent, but from a weighing of concern for precedent versus a desire to act beneficently in the instant case.

The Humean process, described above, has two welfare consequences. The first is that there is a weaker enforcement of “justice” than any decision-maker at the outset dares to implement. In terms of *initial* preferences, most judges would find the later decision unsatisfactory or suboptimal, but some – those with extreme benevolence preferences – would approve of it and would actually be better off. The second is that, *at any time* during the slippery slope process, most judges believe the *system* to have more beneficence and less justice than is desirable given their concurrent preferences. This is because acting in a beneficent manner creates a negative externality. There is an immediate positive feedback to the individual judge but a weakening of the stability of property (with its attendant social costs) for the system as a whole.

VII. Responding to the Objections

We now return to the objections we presented at the beginning of this paper, to explain why they do not (always) present a problem for SSAs.

The Automaton Objection. The first objection was that if the future decisions in question are “bad,” that we can simply choose not to make those decisions when the time comes. Three replies are in order.

First, the decisions we make now can change the incentives we face in the future. While we do possess free will (we stipulate), and thus we could *in principle* refuse to make the “bad” decisions in the future, the point is that our present decisions can make

certain future decisions harder to resist by lowering their perceived costs or increasing their relative benefits. In the socialized medicine example, we could refuse to engage in lifestyle regulation – but the moral hazard created by socialized costs would give us a stronger incentive to regulate than we would have without socialized costs.⁶⁷

Second, even in the absence of changes in direct incentives to action, such as above, arguments do not exist in isolation. They exist in the context of a structure of discussion. The acceptance of some arguments can lead, logically or by force of precedent, to the increased likelihood of other arguments also being accepted. Again, a person can in principle refuse to accept an argument, perhaps by resisting its logical relationship or similarity to another, but the point is that the acceptance of certain arguments is *eased* by the acceptance of others.⁶⁸ In making this point, we are asserting that (at least some) people choose what arguments to accept in the same way they decide what clothing to buy, what products to produce, and so on: they weigh the costs and the benefits. Policies that alter costs and benefits do not remove the capacity for choice, but they do push the choices in one direction or another, and that is as true for acceptance of arguments as for any other kind of choice.

Both of these replies are related to the third and most important reply: it is misleading to say that “we” are capable of making correct decisions in the future. The process by which arguments are accepted and decisions made is a social one that derives from the decisions of many individuals.⁶⁹ No single decision-maker can control the

⁶⁷ Strictly speaking, the individual is confronted with a situation where the costs of adhering to an *argument* such as “lifestyle choice should be unrestricted because it is so important to individual identity” have increased, perhaps greatly so. If he now rejects this argument his actions will change.

⁶⁸ In effect, we are appealing to the internal or psychological costs of accepting an argument. If the human brain has any desire for consistency, it will be psychologically costly for the individual to resist a similar or entailed argument given previous arguments.

⁶⁹ Schauer (1985), *supra* ___ at 373-6.

evolution of the discussion. The person who makes an SSA does not necessarily claim that the listener himself will be the perpetrator of the future bad decision. Rather, he draws attention to the structure of discussion that will shape the decisions of many decision-makers involved in a social process⁷⁰.

The Imputation Objection. The second objection raised against SSAs was that any bad consequences that flow from the future are imputed backward to the initial decision, and therefore the initial decision should not appear attractive after all. We have two replies.

First, this objection implicitly recognizes the validity of SSA. If the current decision-maker already understands the full consequences of his decision, *including its likely impact on future decisions*, then whatever his assessment of his current decision should indeed be valid. But the whole point of the SSA is to draw attention to a class of consequences that are typically ignored. Decision-makers in the real world frequently do not clearly see all the likely results of their decisions. The SSA, like many other forms of argument, tries to emphasize the importance of some set of costs or benefits that the decision-maker may have failed to consider adequately. Since real-world decision-makers may exhibit myopic behavior⁷¹, an SSA by observers or analysts could make a real

⁷⁰ This reply is most appropriate, of course, for macro processes. But it can also be true of a micro process in which a sequence of individuals with identical theories is involved.

⁷¹ By “myopic behavior” we mean the phenomenon of excessively discounting future costs relative to the preferences expressed by the agent *prior* to the decision that constitutes the first step on the slippery slope. For example, an individual may believe and accept a SSA that says taking decision *A* will significantly increase the probability of the danger case *D*. Further, he may accept the argument that, all things considered, the costs of *D* will exceed in present value the benefits of *A* (and any other intermediate steps). Nevertheless, when it comes time to decide *A* or not-*A* the individual is “myopic” and chooses *A*. For an examination of this apparent “preference reversal,” see the literature on “hyperbolic discounting,” especially, Jon Elster, *Ulysses Unbound: Studies in Rationality, Precommitment, and Constraints* 29-34 (2000) and also David I. Laibson, Andrea Repetto and Jeremy Tubacman, *Self-Control and Savings for Retirement in 1998*, Brookings Papers on Economic Activity 91, 92-100 (1998). For a compact survey of the empirical evidence, see Shane Frederick, George Loewenstein and Ted O’Donoghue, “Time Discounting and Time Preference: A Critical Review” in 40 *J. Econ. Lit.* 351, 360-63 (2002). Not all

contribution in terms of illuminating distant costs and benefits. To put it another way, SSAs may be valid precisely because they can become *constitutive* ideas that encourage the consideration of distant costs.

Second, this objection, like the last one, pays insufficient regard to the social nature of the discussion. The single decision-maker may not have incentives or interests aligned perfectly with those of society at large. The Humean beneficence process outlined earlier provides an example of how this can be the case. A single judge may be tempted to make exceptions in specific cases because he gets the personal benefit of performing an act of “compassion.” Even if the judge also has a regard for the good of the system as a whole (either directly or through reputation), this may not be enough to overcome his other concerns.

The Presentism Objection. The third objection was that a current judgment that some future decision is “bad” may reflect a bias for the present perspective, hence disregarding our future values. Again, we have two responses.

First, the fact that some future decision will seem desirable in light of future circumstances does not imply that the circumstances themselves are desirable. Present decisions often have the capacity to alter the environment in which future decisions will be made. The point of the SSA is not necessarily to say that the future decisions are bad, from today’s point of view, in their context, but to say that we can affect the future

economists, however, believe that the assumption of inconsistent intertemporal preferences is useful or warranted by the more basic assumption of rationality. See, e.g., Gary S. Becker and Casey B. Mulligan, “The Endogenous Determination of Time Preferences,” 112 *Quarterly J. of Econ.* 729, 736-7 (1997).

context in positive or negative ways by our present decisions. Thus, no judgment against the *values* in play at some future time is necessarily involved⁷².

But second, there is no reason the discussion cannot involve a normative component. If the decisions to be made now have consequences in terms of what values will be held or accepted later, our normative theory need not be indifferent to the outcome. Alternative futures may involve alternative sets of preferences, but that doesn't mean we have no means of choosing among them. We may have "meta-values" that are relevant to our choices. Thus it may be rational to avoid the initial decision or to take that decision but somehow prevent our future selves⁷³ or future decision-makers from acting on the then-transformed values. Judges, for example, may try to create precedents or stopping-rules that impose constraints on future judges thereby reducing the likelihood that they will act on the new values.⁷⁴

Nevertheless, there is one sense in which we are guilty of presentism. The traditional view of rationality is such that the decision-maker always attempts to maximize his utility relative to the values and constraints (present and future) that he

⁷² In other words, simply because there is an undesirable change in *context* does not imply that there has been a change in values.

⁷³ There is an alternative way to model our future selves that makes no reference to meta-values. A single individual decision-maker can be modeled to have a change in values. In this analysis, rationality obliges him to be *unbiased* between present and future values (or present and future selves). He thus simply discounts future utility by a rate reflecting its uncertainty. Therefore, the decision-maker's actions will strongly favor the present only when future utility has a large uncertainty discount. See Richard A. Posner, "Rational Choice, Behavioral Economics and the Law," 50 *Stan. L. Rev.* 1551, 1568 (1998). ("What is true is that any personal discount rate higher than necessary to adjust for the risk of death is suspect from the *narrowest rational-choice framework*, as it implies an arbitrary preference for the present over future consumption", emphasis added.) But see the discussion in Rubinfeld, *supra* ___ at 118-19.

⁷⁴ But compare Eisenberg (1988), *supra* ___ at 76: "[T]he legal standing of every rule announced in a binding precedent depends not simply on the fact that it was announced but on whether the rule is congruent with [current] applicable social propositions, considered either explicitly or tacitly." Applicable social propositions include current widely-shared moral norms. To the extent that Eisenberg is correct in his characterization of the common law process, present courts will be less able to bind future courts. Thus initial decisions perceived as likely to lead to undesirable results later may not be taken in the first place.

perceives now at the moment of decision.⁷⁵ Thus all his actions are based on that present perception. This is a version of presentism that is perfectly consistent with the theory of rational choice, and thus would not constitute a challenge to slippery slope argumentation. Unfavorable changes in future values are normally dealt with by the prior imposition of constraints as briefly indicated above.⁷⁶

VIII. Factors Affecting the Likelihood of Slippery Slopes

Once introduced in an argument, slippery slopes can never entirely be eliminated. This is, in large part, because the slippery slope that is eliminated at one level of analysis often reemerges at a higher level of analysis. For instance, a commitment to following bright-line stopping-rules might avoid sorites-style events at the level of decisions, but then the choice of the rule itself may be subject to slippage. This difficulty is exacerbated in the law, where the decision-makers (judges) often have the responsibility of both applying rules *and* choosing them. Any temptation to make exceptions to the rules (at the decision level) can be recast as a temptation to change the rules (at the rules level). This became apparent in the “Make-Up Exam *Meshugas*” story, where the same position could be cast as a decision-level argument (“Make an exception to the make-up exam rule”) or as a rules-level argument (“The make-up exam rule should include an exception for cases like mine”).

Still, there are factors that can affect the likelihood and severity of SSEs and hence the persuasiveness of the associated arguments. In this section, we suggest four

⁷⁵ James M. Buchanan, *Cost and Choice: An Inquiry in Economic Theory*, 42-4 (1969).

⁷⁶See, generally, Jon Elster, *Ulysses and the Sirens: Studies in Rationality and Irrationality* (1979).

such factors. We argue that the probability of sliding down a slope is positively related to all of the following, *ceteris paribus*:

- The degree of disagreement among decision-makers in their (lower level) theories.
- The degree of vagueness of the generally accepted theory.
- The degree of “empirical vagueness” the accepted theory creates.
- The degree of looseness of the research program in determining the future development of theories.

We address each of these factors in turn.

1. *The degree of disagreement among decision-makers in their (lower level) theories.* The decision-makers in a system need not share the same positive or normative theories. And different theories will often lead to different conclusions about how to make decisions and how to select rules. It might seem that disagreement would simply make the system unpredictable or unreliable, but not necessarily more subject to slippage. But slippage can indeed be a problem when multiple theories compete, because multiple theories create greater potential for problems of non-transitivity in similarity relations. The separately validated propositions process discussed earlier relies on the existence of differing theories that lead to differing judgments about arguments. One argument might be accepted through the efforts of adherents of one theory, a second argument through the efforts of adherents of another theory. The propositions together may encourage the acceptance of yet other arguments that (possibly) fit neither original theory.

This problem is exacerbated when courts use the method of “analogous reasoning.” As the number of acceptable theories becomes greater, relationships of

similarity are increased and hence the range of plausible legal doctrines or rules can be extended. For any characteristic *a* of an established case there is a greater chance it will be found similar, in some way, to another characteristic *b* of a newly-arisen case. Furthermore, characteristics may be connected in similarity by groups of jointly incompatible theories: *a* is similar to *b* on theory X; *b* is similar to *c* on theory Y; and *c* is similar to *d* on theory Z, where X, Y, Z are incompatible in whole or part. When courts reason by analogy, the theoretical context for the similarity relation is not always made explicit. This means that statements of similarity may be made without recognition of their conflicting bases. Hence the “like cases that will be treated alike” may not be truly alike according to a consistent principle or theory. Nevertheless, the rule of a precedent may be expanded⁷⁷ beyond the most general intention as manifested in the theory of the original decision-makers.⁷⁸

Furthermore, the existence of multiple theories creates an indeterminacy in the sort of arguments that are viable in a system. Decision-makers looking for an excuse to decide in a particular way are more likely to be able to find a justification when multiple (and potentially contradictory) justifications exist. If multiple theories have intellectual currency, it is easier to find acceptable reasons to support any given position on a particular case. Thus, for example, the existence of multiple theories creates more room for the Humean beneficence process to operate.

⁷⁷ In addition to finding cases *similar* according to inconsistent theories, courts may also *distinguish* cases (i.e., make exceptions) according to inconsistent theories.

⁷⁸ Joseph Raz recognizes the possibility of conflicting analogies in the law. His emphasis is on a single court choosing sides, as it were, in a conflict over policy goals, for example. He does not seem to appreciate that the existence of incompatible analogies can produce a chain of similarities (or differences) across different courts or the same court at different times. See Raz, “Law and Value in Adjudication,” in *The Authority of Law: Essays on Law and Morality* 180, 205 (1979).

Finally, the existence of multiple theories can lead to adoption of political, legal, and ethical doctrines that are deliberately vague. For instance, politicians will sometimes pass intentionally vague legislation in order to avoid having to make tough decisions, thereby passing the buck to bureaucratic agencies. Balancing “rules” in the common law, which direct judges to weigh a variety of factors when deciding cases, are arguably a means of finessing the differences among judges' theories. Vague constructs such as the “reasonable person” may not reflect a consensus among judges about acceptable behavior, but in fact just the opposite: a divergence of opinion about how to identify acceptable behavior. These doctrines can lay the groundwork for sorites-style reasoning, which (as discussed earlier) thrives on the existence of vague words with fuzzy boundaries. Even if vague terms are not deliberately adopted to cover up differences of opinion, they may nonetheless have the same effect. For instance, a precedent for voiding contracts in cases where “coercion” was involved turns out to be vague if there exist many different notions of what constitutes “coercion,” even if the judge who first decided the precedent thought the meaning of “coercion” to be unambiguous.⁷⁹

2. *The degree of vagueness of the accepted theory.* Setting aside the existence of multiple theories, it is possible that a single theory can be inherently vague. A theory of ethical behavior, for instance, might rely on the use of terms such as “commitment,” “promise,” “force,” and the like. The meaning of these terms is not self-evident. The theory might provide further definition of these terms, but the definitions themselves may

⁷⁹ However, there are, within the common law, resources to resist the proliferation of theories. For example, Raz (1979), supra ___ at 187-88, believes that a “modified rule can usually be justified only by reasoning very similar to that justifying the original rule. Not only will its justification show the reason for applying the ruling to a subclass of the cases to which it was originally applicable, it will also show the relevance of all the operative conditions set out by the original rule.” This point is by no means uncontroversial. See, for example, Eisenberg (1988), supra ____ at 52. To the extent that Raz is incorrect, multiple theories will be more widespread and the “problem” noted in the text more severe.

rely on yet other vague terms. Much like “heap,” “bald,” and “tall,” the terms used in political, legal, and ethical discourse may not have clear and obvious boundaries of application. And in the presence of such vague terms, there is again the potential for sorites-style slopes.

3. *The degree of “empirical vagueness” the accepted theory creates.* Some theories do a reasonably good job of avoiding conceptual vagueness. The notion of wealth maximization employed in the economic analysis of law, for instance, is a relatively well-defined theory.⁸⁰ But the fact that an idea is well-defined in theory does not guarantee that it is easily applied in practice. We use the phrase “empirical vagueness” to refer to indeterminacy in the application of a theory, typically created by lack of knowledge on the part of agents and decision-makers who are expected to apply it.

Consider the question of efficiency (wealth maximization) in the context of tort law. A simple application of the usual economic approach suggests that a rule of negligence-with-contributory-negligence, with optimally set due-care levels, is the most efficient rule to adopt⁸¹. The story becomes substantially more complex when it is recognized that the rule adopted must be applied not just to a single case, but to a whole class of cases that will not have identical characteristics. What would be efficient care in one case (considered in isolation) is not necessarily what would be efficient in another. The judgment about what is the efficient *rule* to apply to the class of cases depends, then,

⁸⁰ Relatively well-defined, but not perfectly. The Scitovsky objection is a well-known source of indeterminacy in the Kaldor-Hicks (wealth maximization) approach. See Mark Blaug, *Economic Theory in Retrospect* 589-90 (4th edition, 1985). In the context of law and economics, see, for example, Mario J. Rizzo, “The Mirage of Efficiency,” 8 *Hofstra L. Rev.* 641, 649-50 (1980).

⁸¹ We abstract from problems relating to the activity levels of plaintiffs and defendants. See Steven Shavell, *Economic Analysis of Accident Law* 21-32, 41-6 (1987).

on the distribution of relevant characteristics over both plaintiffs and defendants. Yet this is not information that a single court could reasonably be expected to possess, since (a) each court sees only a subset of all cases that arise, and (b) the cases that reach the legal system are a biased subset of the class of all relevant situations that will be affected by the chosen rule.⁸²

Thus, even if there is broad agreement among decision-makers about what theory to use, and even if the theory is internally consistent and well-defined, the theory may be *vague in application*. If courts are directed to hold a party liable for actions that are “inefficient,” that can be just as vague as telling the court to hold a party liable for actions that are “unreasonable.” In practice, decision-makers will likely have to rely on the precedent set by other courts to decide what is efficient, because they do not have the necessary information to make a direct judgment of efficiency. But it should be clear by now that following precedent in the context of vague terms is a recipe for the occurrence of sorites-style slopes. The applied boundary between “efficient” and “inefficient” may slide in one direction or the other. The fact that *in theory* the boundary is sharp does little to prevent the slope, because empirical vagueness creates the problem.

4. *The looseness of the research program in determining the future development of theories.* The research program is a broad set of principles that shape the development of theories in a particular area of discussion. Some research programs are relatively tight, putting substantial constraints on the development of theory, while others are relatively loose, allowing more room for divergence among theories consistent with the program. In a loose research program, there is greater ease of transition from one theory to another, and greater capacity of individual participants to introduce new theories that are at odds

⁸² See, generally, Gillian K. Hadfield, “Bias in the Evolution of Legal Rules,” 80 Geo. L. J. 583 (1992).

with existing theories. Given the preceding discussion of multiple theories, it stands to reason that a looser research program is more susceptible to the emergence of slippery slopes.⁸³

IX. Coping with Slippery Slopes

In this section we explore the methods or techniques available, in various decision contexts but especially in the law, to resist or deal with potential slippery slopes. We do not argue that the methods are always used consciously for these purposes but that, at the very least, they respond to the threat of slippery slopes to greater or lesser degrees of success, and some may have the *effect* of reducing the likelihood of sliding.

A. Accepting the Trade-Off

Suppose that a decision-maker has just been exposed to a persuasive SSA. The SSA convinces him that making some desirable decision now will lead to some undesirable decision later, as a result of the arguments that he or other decision-makers will be led to accept. So what should he do? The simplest response is to accept the trade-off: the desirable and the undesirable cannot be separated, so they must be accepted or rejected as a package. The good must be weighed against the bad to make a decision. If the bad outweighs the good, then the SSA averts the SSE by preventing the initial

⁸³ The clash of research programs or paradigms characteristic of great transitional phases in the law accentuates the proliferation of incompatible theories. In the “Progressive” and post-World War I period the first wave of Legal Realists sought to balance and partially integrate the competing research programs of formalist liberalism and pragmatic welfarism. No coherent synthesis was achieved. The Realists reconstructed “judicial reasoning as an impartial process of reconciling or balancing different perspectives, values and interests through open and public ‘conversations’ with scientific experts, affected parties and the broader community...” In this context tentative theories abounded and the myth of deducing the one appropriate rule for a situation took its final blow. See David Ingram, “The Sirens of Pragmatism versus the

decision. If the good outweighs the bad, then the (potential) SSE becomes an unpleasant (but not unanticipated) consequence of the initial decision.

Although accepting the trade-off is one possible response to the SSA, it is not a satisfying one, so decision-makers are inclined to seek other strategies. Probably the most common is attempting to create a rule that will prevent the SSE from taking place.

B. Stipulating an Arbitrary Stopping Rule

The decision-maker attempts to establish a clear rule, a line between the cases where future decision-makers should take a particular action and cases where they should not. For instance, consider the question of executing murderers with low intelligence. Although many people would agree that retarded persons should not be executed for their actions, this question is susceptible to a sorites-style slope because of the vagueness of the concept “retarded.” IQ is often considered a summary statistic or proxy for intelligence, although it clearly does not capture everything we mean by intelligence. Nevertheless, IQ is a characteristic located on a continuum, and it is not clear where the line should be drawn to separate those whose IQ is high enough to allow execution from those whose IQ is too low. To resolve this problem, “society” might adopt a somewhat arbitrary rule saying that a murderer with an IQ of seventy or greater can be executed, while all others may not. The decision-makers in actual cases are directed to decide according to this rule, rather than by analogy with similar cases.⁸⁴

Priests of Proceduralism: Habermas and American Legal Realism,” in *Habermas and Pragmatism* (ed. Mitchell Aboulaflia, Myra Bookman and Catherine Kemp (2002), 83-98.

⁸⁴ It is quite interesting to note that the Supreme Court in *Adkins v. Virginia* (122 S.Ct. 2242) did not take the route of instructing states to follow a clear IQ rule. In its holding that the execution of “retarded” persons violates the Eighth Amendment to the U.S. Constitution, the Court did not specify a single (or even multiple) sharp criterion to distinguish the retarded from the “normal.” The Court seems to quote with approval various psychiatric standards. Nevertheless, these are quite vague, both theoretically and

This approach could avoid the slippery slope at the level of decisions, but it could reemerge in another form. If the rule itself should ever be called into question, then the very process of rule *selection* could be susceptible to the same kind of sorites reasoning.⁸⁵ If all persons with IQs of seventy or greater may be executed, then why shouldn't the person with an IQ of sixty-nine get the same treatment? In response to this challenge, the rule could be moved by increments in much the same way the decisions were. To a certain extent, entrenched rules in general and an entrenched IQ rule in particular are arbitrary. This is because the rule-maker refuses to change them even when they appear to be inconsistent with their underlying justifications. If the rule can be maintained, SSEs may be avoided here, but the very arbitrariness of the rule may weaken the rule-maker's resolve to hold firm.

C. Appealing to a Higher Standard

empirically. From a theoretical perspective: “[C]linical definitions of mental retardation require not only subaverage intellectual functioning, but also significant limitations in adaptive skills such as communication, self-care, and self-direction that become manifest before age 18” Id. at 2250. From an empirical perspective: “To the extent there is serious disagreement about the execution of mentally retarded offenders, it is in determining which offenders are in fact retarded...Not all people who claim to be mentally retarded will be so impaired as to fall within the range of mentally retarded offenders about which there is a national consensus” Id. at 2250. Furthermore, the underlying theory about why mental retardation is relevant in a criminal context is also vague. “Mentally retarded persons frequently know the difference between right and wrong and are competent to stand trial. Because of their impairments, however, by definition they have diminished capacities to understand and process information, to communicate, to abstract from mistakes and learn from experience, to engage in logical reasoning, to control impulses, and to understand the reactions of others...” Id. at 2250. As a result of this three-fold vagueness any court attempting to apply legislation that embodies these criteria or standards will be faced with slippery slope problems emanating from analogies with previously decided cases. The class of retarded may narrow or widen depending on the predilections of judges or other decision-makers (e.g., on their attitudes toward capital punishment in general). Furthermore, the capital punishment limitations for the retarded may extend to limitations on other forms of punishment as well if the rationale of the decision is generalized: retarded persons’ “deficiencies do not warrant an exemption from criminal sanctions, but they do diminish their personal culpability” Id. at 2250-1. Limitation of personal responsibility, by the logic of this theory, cannot be limited to acts of murder.

⁸⁵ “Higher-order vagueness is a threat because the [underlying] theory needs a notion of ‘admissible’ sharpenings [bright-line distinctions or rules]. The meaning of ‘tall’ does not allow you to sharpen it so that no one less than nine feet tall is tall. So clearly tall people must be those who are tall on all *admissible*

In this approach, the strategy is to appeal to a higher standard for judgment in cases where the correct decision is unclear. This approach is most natural when there is already a rule in place, but the rule itself includes a vague term. Consider the well-known example of a rule from H.L.A. Hart⁸⁶: “No vehicles are permitted in the park.” The word “vehicle” is inherently vague. It is entirely possible that a myopic analysis of the term “vehicle” – perhaps through a series of analogies – may rationalize the extension of this rule to motorized toy cars or wheelchairs. But if the courts were to make reference to the underlying original rationale (e.g., protection of pedestrians from serious traffic accidents) instead of focusing on the meaning of the word “vehicle,” the SSA and SSE might be avoided.

Or not. Whether appealing to a higher standard is an effective means of avoiding slopes depends on the characteristics of the standard itself. In the “no vehicles in the park” rule, it seems likely, though not certain, that substantial agreement will exist about the rationale for the rule. The *clarity* of the standard helps to “nail down” the rule. But this need not always be the case. The choosing of an appropriate standard involves the selection (perhaps implicit) of a theory, and raising the discussion to the level of theory can actually increase the likelihood of a slippery slope. This may be true for any of the reasons discussed in the last section: theories may be inherently vague, theories may create empirical vagueness, or there may be disagreement among theories.

As an example of theoretical vagueness, consider freedom of speech. The rule that Congress shall make no law abridging freedom of speech might be said (at least by some commentators) to have its basis in a theory that most forms of speech have net social

sharpenings. But ‘admissible’ seems to be vague, just as ‘clearly tall’ is vague... We could [then] formulate a new form of the sorites paradox...” Endicott (2000), supra ____ at 80.

value.⁸⁷ But if judges regularly make reference to the background justification (“theory”) for the rule rather than simply applying it, we may find that, little by little, the rule is eroded as the social value of speech is increasingly taken into account. Given the difficulties of *measuring* the social value,⁸⁸ it is not hard to imagine that courts would be left with an unacceptably weak First Amendment.⁸⁹ Freedom of speech becomes more resistant to slippery-slope exceptions when we treat it as an “entrenched abstraction”⁹⁰ or generalization that is (largely) immune to exception-making. The fundamental problem with appealing to the underlying standard on free speech is that “social value” is an inherently vague term, susceptible to a variety of interpretations. Judges and legal scholars who use the term might very well possess different, perhaps radically different, theories about social value.

As an example of empirical vagueness, suppose we are interested in the question of when contracts should be voided by the courts. According to a current economic theory, it is desirable for a contract to be voided when it is likely that the transaction did not make both parties better off in expected value than they would have been without the

⁸⁶ H.L.A. Hart, “Positivism and the Separation of Law and Morals,” 71 Harv. L. Rev. 593, 606-15 (1958).

⁸⁷ See Richard A. Posner, *Economic Analysis of Law* 591 (5th ed., 1998). (“The social value of ideas often exceeds their private value...because of the absence of an adequate system of property rights in ideas.”) See also *id.* at 729-44.

⁸⁸ See, e.g., John Stuart Mill, *On Liberty* 65 (ed. Stefan Collini, 1989 [1859]). (“Originality is the one thing which unoriginal minds cannot feel the use of. They cannot see what it is to do for them; how should they? If they could see what it would do for them, it would not be originality.”) See also *id.* at 67. (“In other times there was no advantage in [exceptional individuals acting differently from the masses], unless they acted not only differently but better. In this age, the mere example of non-conformity, the mere refusal to bend the knee to custom, is itself a service.”) A more recent echoing of this perspective in the philosophy of science can be found in the writings of Sir Karl Popper. See, e.g., Popper, *On the Theory of the Objective Mind in Objective Knowledge: An Evolutionary Approach* 153-90 (1979). (“[T]o avoid error is a poor ideal: if we do not dare to tackle problems which are so difficult that error is almost unavoidable, there there will be no growth in knowledge. In fact, it is from our boldest theories, *including those which are erroneous*, that we learn most.”) *Id.* at 186.

⁸⁹ This seems to be the implication of Schauer’s characterization of Harry Kalven’s First Amendment views: “[H]e applauds over-protection of free speech as the only alternative to under-protection...” Frederick Schauer, “Harry Kalven and the Perils of Particularism,” 56 U. Chi. L. Rev. 397, 407 (1989).

⁹⁰ Schauer (1989), *supra* ____ at 403-04.

contract. This is an efficiency standard. One possibility is to examine each case individually to determine whether it fulfills the standard. This presupposes that we (the analyst, the judge, the parties?) have sufficiently good data to make such an individual determination. In practice, however, the standard is empirically vague, and so courts will probably argue by analogies (similarities) with clear cases.

Now, there presumably exists a spectrum here, from cases where the contract was clearly value-increasing for both parties (though one party is opportunistically seeking to void it), to cases where one party clearly suffers an *ex ante* loss because the contract was signed at gunpoint. In between, there are cases in various shades of gray. What if, for instance, one party threatened to withhold sexual favors? Or to inflict mental anguish by reminding him in graphic detail of his abusive childhood? Or to kill a beloved pet that belongs to the threatening party? Or to reveal potentially embarrassing secrets about his personal life? Some of these cases might appear quite similar to the at-gunpoint signing. It is conceivable, furthermore, that a chain of cases could be found that connects the clear cases for upholding the contract to the clear cases for voiding the contract. As a result, courts following precedents in similar cases might be led to void contracts that should clearly be upheld (if the slope goes in that direction), or to uphold contracts that should clearly be voided (if it goes in the other direction).

The moral of the story is that the level of discussion *per se* is of little significance for sliding. What is significant is whether we have moved to a more or less vague, or to an empirically more or less determinate, level of discussion. In some cases, theories will

be particularly susceptible while rules will be less so; in other cases rules will be relatively susceptible while theories less so.⁹¹

D. Adopting an Open-Ended or Standard-Mediated Rule

This strategy represents a kind of compromise between the previous two approaches. The idea is to take the first decision, and even some subsequent ones as well, but follow or impose a rule on other decision-makers that stops the process short of the danger case. Unlike the strategy of stipulating an arbitrary stopping rule, the rule here is chosen based on a factor that has some rationale in theory.

In the contract example above, this would mean specifying the conditions under which contracts may be voided. A rule embodying these conditions would likely refer to factors generally but imperfectly *correlated* with the likelihood of a value-decreasing contract. One such rule is that “a contract should be voided if it was formed in the presence of duress.” A potential difficulty with this rule is the vagueness of the concept

⁹¹ Bernard Williams distinguishes between “reasonable” and “effective” stopping points. Not everything reasonable is effective and not everything effective is reasonable. For an example of a reasonable but possibly ineffective stopping rule, suppose the issue of euthanasia is tentatively resolved by a distinction between acts of the patient and those of the doctor. For many purposes this distinction will be clear enough to prevent a slide from suicide to murder. But this reasonable stopping point might become ineffective when it is understood that some patients lack the physical ability to effect their own decision. Is physician assistance, under these circumstances, simply an aid to suicide or is it murder? For an example of a rule that may be effective but unreasonable, the law might impose a fourteen-day cut-off point for fetal experimentation. “Fourteen days” is a quite clear but largely arbitrary stopping point. Is there much difference between a fourteen and fifteen day fetus in terms of morally-relevant human characteristics? See Bernard Williams, “Which Slopes are Slippery?” in *Making Sense of Humanity and Other Philosophical Papers* 213-33 (1982-1993) and John D. Arras, “Slippery Slope Arguments,” in *Encyclopedia of Ethics*, vol. III, 1594, 1595 (Lawrence C. Becker and Charlotte B. Becker eds., 2nd ed, 2001). In terms of our framework, however, the problem is not a reasonable stopping point versus an effective one. The real difficulty is that a distinction at one level of analysis may be sharp but at another, more theoretical, level, it becomes vague. In the first case, the standard that people ought to be able to effect their *desires* regarding their own life and death is only implicit in the simple cases. Reference to it in more complex cases clouds a previous sharp distinction based on external observation of acts. In the second case, the standard that fetuses that are also “persons” should not be experimented upon is only implicit as long as we do not question the fourteen-day rule. A sharp stopping point becomes vague by reference to the underlying standard.

“duress.”⁹² Although there are clear cases of duress and clear cases of no duress, there is also a spectrum of cases in between, as the examples above indicate. Is the infliction of severe mental distress a form of duress, or is some form of physical intimidation necessary?⁹³ Suppose that the courts (in their capacity as rule choosers) take the latter approach, setting physical intimidation as a necessary and sufficient condition for voiding a contract on grounds of duress. This rule might be capable of preventing a slippery slope on the level of pure decisions, as courts deciding cases would only have to verify the existence of a physical threat.⁹⁴ But at the level of rule selection, the rule could be exposed to challenges based on the over- and under-inclusiveness of the rule relative to the underlying standard. Suppose that in case *x* one party threatened to yank the last hair on a (nearly) bald man's head, and in case *y* one party threatened to recount the details of the other party's abusive childhood (and evidence shows that this was indeed extremely frightening to him). The stated rule would void the contract in case *x* but not in case *y*, even though *y* appears to present the stronger case for voiding on the basis of a plausible theory of human motivation. Just as in the IQ example given earlier, a questioning of the rule relative to its underlying justification could be used to weaken, change, or move the rule in one direction or another.

⁹² “In Blackstone’s time relief from an agreement on grounds of duress was a possibility only if it was coerced by actual (not threatened) imprisonment or fear of loss of life or limb... Today the general rule is that any wrongful act or threat which overcomes the free will of a party constitutes duress. This simple statement of the law conceals a number of questions, particularly as to the meaning of ‘free will’ and ‘wrongful.’” John Calamari and Joseph Perillo, *The Law of Contracts* 337 (2nd ed., 1977).

⁹³ One could include under “physical intimidation” only violence, threats of violence, imprisonment and threats of imprisonment. This, absent the threat of imprisonment, is more or less the rule Blackstone believed was in effect in the seventeenth century. See Calamari and Perillo (1977), *supra* ___ at 337.

⁹⁴ Of course, there is some residual vagueness even in this rule, since the meaning of “physical intimidation” has fuzzy boundaries. Even when a relatively restricted Blackstonian conception is involved, terms such as “violence” and “threat of violence” are vague.

As an another example, consider the issue of abortion. Suppose the cost of remaining at the status quo of no abortions under any circumstances whatsoever is high. Suppose also that the cost of accepting the danger argument for infanticide is even higher. Does this mean that the decision-maker will not take the first step if a persuasive SSA is made that “leads” from abortion to infanticide? Not necessarily. There may be an effective stopping-rule that can serve to differentiate the cases and stop the process. The decision-maker may focus, for example, on the development of a functioning cerebral cortex as a rule-like criterion. This would permit some early abortions while not permitting infanticide. Whether the stopping-rule will hold depends, at least in part, on its being perceived as non-arbitrary (or not entirely arbitrary). For this to be the case, an argument must be made at the level of theory. Some have claimed that there are good reasons to suppose that the development of a functioning cerebral cortex is a non-arbitrary stopping-point. The cerebral cortex is responsible for many of the functions or capacities that we usually conceive a human person to have.⁹⁵ So a rule that prohibits abortions beyond that stage will be consistent with a theory that privileges the human *person* rather than merely developing human life or tissue. The persuasiveness of this theory will be imputed downwards to the rule and determine its effectiveness as a stopping-point.

It seems, then, that neither the use of arbitrary rules nor underlying standards nor quasi-arbitrary rules offers an infallible escape route from slippery slopes, because slippery slopes can emerge in the process of rule selection as well as in the process of applying a rule. Still, it is possible that these approaches can reduce the likelihood of slippery slopes in some cases.

⁹⁵ Daniel Dombrowski and Robert Deltete , *A Brief, Liberal, Catholic Defense of Abortion* 10-16 (2000).

E. Altering the Scope and Power of Precedent

The reader may notice that we have taken a somewhat ambivalent position on the desirability of precedent. On the one hand, we have indicated that following precedent could encourage slippery slopes of the sorites variety. On the other, we have implied that the progressive weakening of precedent was responsible for the Humean beneficence slippery slope. The seeming contradiction dissipates once we realize that the role of precedent in retarding a slippery slope depends on the assumed location of the danger case and which decisions are regarded as precedents.

Consider the mathematical version of the sorites story, in which one end of a spectrum (the “one” end) is the clearest case for taking action A, and the other (the “zero” end) is the clearest case for not taking action A. The slope, as we described it, involved action A being taken in more and more cases, so that eventually it is taken in some case where it clearly should not be – the danger case. If we suppose that action A is making an exception to some rule, the problem is that when an exception is made in a clear case for doing so, precedent allows (perhaps even requires) that the exception be made in similar but less clear cases. If making an exception did not establish a precedent for further exception-making, there would be no problem.⁹⁶ To put it differently, what if we supposed that the application of the rule (hence the refusal to do A) were treated as the only relevant precedent? Then the slippery slope, if any, would occur in the opposite direction, resulting in too few exceptions to the rule.

⁹⁶ In the courts of Chancery prior to the seventeenth century equity decisions were made *in personam*. See F.W. Maitland, *Equity: A Course of Lectures* 8 (1949). In these circumstances, an exception would not establish a precedent for further exceptions.

A similar set of observations can be made about the Humean beneficence process. In the early stage of that story, when few or no exceptions had been made to the established rule, precedent played a *restraining* role: judges were loath to make exceptions because doing so would deviate too much from established case law. But in the late stage of the story, when many exceptions had been made, precedent played an *enabling* role: judges who wished to make further exceptions could easily find previous decisions to justify their own. If exceptions did not act as precedents, then as in the sorites story, there would have been no slippery slope in the direction of exception-making. The problem, if any, would have been the making of too few exceptions.

Thus, we can see that precedent has both an *enabling* and a *restraining* aspect. Whether either aspect is desirable depends crucially on what outcome is identified as the danger case. When the danger case is making excessive exceptions to some rule, then the restraining aspect is SSE-retarding and the enabling aspect is SSE-encouraging. When the danger case is making too few exceptions, then the reverse is true.

Precedent is thus an imperfect attempt to enforce rules adopted for the purpose of avoiding slippery slopes.⁹⁷ The rules enforced may be arbitrary or standard-based. As indicated above, such rules can only provide a partial barrier to slippery slopes, in large part because disputes about rule-application can reemerge as problems of rule-selection. The problem is exacerbated by (a) the continual emergence of novel cases for which the application of rules is unclear and (b) the mingling of rule-application and rule-selection functions in the legal sphere.

As a result, courts may find it very difficult to separate the restraining and enabling aspects of precedent. To do so, they would need to establish a distinction

between decisions to be regarded as binding precedents and decisions to be regarded as mere exceptions.⁹⁸ How might this be done? Schauer observes that some areas of constitutional law, especially those involving First Amendment prohibitions on the reach of government regulation, incorporate “entrenched abstractions”⁹⁹ as a fundamental part of their jurisprudence. The law pertaining to “Congress shall make no law abridging the freedom of speech” has made all manner of activities, like marches, “speech.”¹⁰⁰ Further, it inhibits examination of the empirically vague underlying theories or standards that would determine the social worth of speech relative to its social costs.¹⁰¹ Once an activity falls under the abstract¹⁰² characterization “free speech” it thus becomes immune to examination at a deeper level. This approach attempts to enhance the precedential power of decisions that favor freedom of expression, while muting the precedential effect of decisions that do not by characterizing them as narrowly defined exceptions.

With regard to Constitutional prohibitions on government behavior, the expansive conception of certain abstractions operates to resist slippery slopes in the direction of excessive restrictions on private behavior. The entrenched abstraction limits the putative

⁹⁷ We do not wish to imply that this is the *only* function of precedent.

⁹⁸ The distinction between a rule and its exceptions is troublesome. The difficulty of maintaining the distinction in view of the need to justify an exception is a source of the precedential value of exception-making. Consider the argument made by Paul Ramsey: “The effort to locate a justifiable exception can only have the effect of utterly destroying its exceptional character. The deed is found to be morally doable, it is repeatable, it is one of a kind. How rare or frequent is of no consequence to the moral verdicts we render. The same justifying features, the same verdict, the same general judgment falls upon the alleged exception, if it is justified; and so that act falls within our deepened or broadened moral principles.” Paul Ramsey, “The Case of the Curious Exception,” in *Norm and Content in Christian Ethics* (G.K. Outka and P. Ramsey eds.) 67, 78 (1969).

⁹⁹ Schauer (1989), *supra* ____ at 403-4.

¹⁰⁰ “Nazis become political speakers, profit maximizing purveyors of sexually explicit material become proponents of an alternative vision of social existence, glorifiers of sexual violence against women become advocates of a point of view, quiet residential streets become public forums, and negligently false harmful statements about private matters become part of a robust debate about issues of public importance.” Schauer (1989), *supra* ____ at 408.

¹⁰¹ Note we say “inhibits,” not completely prohibits.

danger inherent in over-extension of a category, justifiable restrictions on speech, by allowing the possible over-extension of another category, desirable acts of expression. This makes perfect sense if the identified danger case is the excessive restriction of speech. But if the Court had identified excessive freedom of expression as the danger case, then far from being SSE-retarding, the entrenched abstraction could even be regarded as SSE-encouraging.

F. Establishing Presumptions, Burdens of Persuasion, or Standards of Review

Another possible means of trying to protect a rule against erosion is to privilege certain crucial facts by a legal presumption. If a rule refers to some characteristic about a case, but the characteristic is theoretically or empirically vague, then requiring the finder of fact to infer its presence from certain sharper “basic facts” can make sliding less likely.

Consider again the example of executing retarded persons. “IQ of seventy or below” is a simple rule for inferring mental retardation (a vague characteristic) from one’s IQ score (a sharper or more observable characteristic). As we observed earlier, this rule could be subject to a slippery slope. But now suppose the rule is treated as a *presumption* that an IQ of seventy or less indicates mental retardation¹⁰³. Under these circumstances someone (say, a district attorney trying to obtain an execution) may wish to claim that an IQ of seventy is indistinguishable from an IQ of seventy-one (not retarded or “normal”) and hence the defendant with an IQ of seventy should be subject to

¹⁰² “A principle of free speech, according to which the mode of analysis shifts when an occurrence can be categorized as ‘speech,’ is incompatible with a principle of maximally contextual evaluation of all situations in which speech is present.” Schauer (1989), 397-98.

¹⁰³ Obviously this is a simplification. Courts would mostly likely not use *only* an IQ score to make such a determination. See, e.g., the definitions or elaborations of the concept of mental retardation cited in *Atkins v. Virginia*, 122 S.Ct. 2242, 2245 at notes 3 and 5.

capital punishment as well. The presumption throws an obstacle in the way of the argument. At a minimum, a presumption requires the proponent of action to produce or come forth with sufficient evidence that a defendant with an IQ of seventy should be regarded as normal. He may not be able to do it. Furthermore, under the “reformist approach”¹⁰⁴, the presumption will shift the burden of persuasion on this issue to the proponent, requiring him to prove by a preponderance of the evidence that the defendant is of normal intelligence. This, *ex hypothesi*, he will not be able to do. If all he can say is that there is no reason to differentiate seventy from seventy-one or from sixty-nine, for that matter, then he is saying that there is no *better* reason to consider seventy retarded than normal. Hence the preponderance standard cannot be met.

The problem with this approach is very similar to that of the arbitrary rule. Just as any dispute at the rule-application level can be recast as a dispute at the rule-selection level, any dispute at the presumption-application level can be recast as a dispute at the presumption-selection level. The proponent can ask, why should the presumption apply to IQs of 70 and below, rather than 69 and below? Indeed, a presumption is really just a different sort of rule – possibly a weaker one since it is explicitly defeasible. But paradoxically, the presumption’s greater defeasibility is also its virtue. Implicit in the presumption is a recognition of the arbitrary character of the rule, with an allowance for exceptions to be made in cases with sufficient proof. When exceptions are made, they do not constitute changes in the rule itself, nor do they necessarily set precedent for future cases. As a result, a presumption may provide less traction for arguments in favor of shifting the rule. As another example, the rule that sets eighteen as the age of legal majority is actually a presumption, as a person under eighteen can petition for

¹⁰⁴ Christopher B. Mueller and Laird C. Kirkpatrick, *Evidence* 135 or sec. 3.8 (2nd ed., 1999).

emancipation under unusual circumstances.¹⁰⁵ The existence of a possible exception for very special cases may, oddly enough, add legitimacy to a rule that would otherwise appear excessively arbitrary.

Burdens of proof are not the only form of presumption. In constitutional law, presumptions sometimes take the form of higher levels of scrutiny that will be applied to certain categories of state action. Content-based restrictions on freedom of speech, for instance, are exposed to strict scrutiny, whereas content-neutral restrictions face a lower (intermediate) level of scrutiny.¹⁰⁶ Presumably, the Supreme Court has identified content-based restrictions as more perilous – i.e., closer to the danger case. Nonetheless, exceptions are allowed in cases where the state interest is especially compelling. This approach tips the scales against speech restrictions without prohibiting them entirely. The government that wishes to institute a policy favoring free speech will not be expected to justify its choice, whereas the government wishing to institute a policy restricting the content of speech will be expected to provide substantial justification for its choice. This approach probably generates fewer challenges to the rule itself (at the rule selection level) than would a rule prohibiting all content-restricting policies without exception.

It should go almost without saying that the presumption approach has its dangers. If the individual cases where exceptions are allowed (on grounds that the burden of proof or standard of persuasion has been met) are regarded as enabling precedents, so that similar cases with a little bit less support are seen as within their orbit, then the presumption may encourage SSEs rather than inhibit them.

¹⁰⁵ See, e.g., Cal Fam Code § 7120 (2001). The conditions for emancipation in California include being at least 14 years of age, living separately from parent or guardian, managing one's own financial affairs, and not having an illegal source of income.

¹⁰⁶ See, e.g., *Turner Broadcasting System v. Federal Communication Commission*, 114 S.Ct. 2445 (1994).

G. Creating Supermajority Requirements and Constitutional Constraints

A similar approach in the realm of public policy is to impose a structure on decision-making that resists changes at some level of discussion. This can be accomplished via supermajority requirements and similar forms of constitutional constraint. These constraints can assure that certain types of change will only occur if there is a sufficiently large amount of support for the change.

Consider the legal voting age. There is nothing special about the age of eighteen that makes it the uniquely correct minimum voting age. The arbitrariness of the rule becomes apparent when, for example, a high school senior whose birthday is November 8th cannot vote in the presidential election, whereas a high school drop-out whose birthday is one week earlier can. But no other voting age, at least within some range, would be any less arbitrary, so this rule may be as good (or bad) as many others. If voting privileges were determined individually – say, in legal proceedings –it’s not hard to imagine that the voting age might slide, by increments, in one direction or the other. The imbedding of the voting age in the Constitution assures that this sliding cannot occur. Even if a majority of people agreed that eighteen-and-one-month-olds should not be able to vote, that would not be sufficient to change the rule. Only the passage of a constitutional amendment could achieve that, and amendments are notoriously difficult to pass. (Though not impossible, since the current voting age was itself established by constitutional amendment!)

In a sense, the differential barriers to the alteration of different types of law or policy reflect the different layers in the structure of discussion. The debate over what

terms should be included in a constitution (say, at a constitutional convention) is likely to occur at the level of theory, as the discussion is explicitly focused on what the basic rules should be.¹⁰⁷ Once the constitution is established, the subsequent discussion takes place largely within the established rules. Some may make arguments against the rules adopted, but those arguments are *not* generally understood as arguments for and against decisions being made within the current rule structure. For instance, an argument against the presidential veto (because, say, it gives too much power to one man) would not be considered a reason to enforce a bill that was passed by Congress and vetoed by the president. Until the constitution is changed, the veto remains in place.

This is, of course, an idealized view. In any actual constitution, there exist many vague terms, and so there will inevitably be debate about their meaning. Different theories will exist both about what the terms *do* mean and what they *should* mean. In the ensuing discussion, there will inevitably be some blurring of the distinction between arguments about rule-application and arguments about rule-selection. It is a well known, if controversial, position that the U.S. Constitution is a “living document” whose content is determined by its interpretation, which changes over time in response to changes in society.¹⁰⁸

It is the possibility for blurring that we think is the Achilles’ heel of the supermajority/constitutional constraints strategy for retarding slippery slopes. We have

¹⁰⁷ James M. Buchanan has emphasized choice among rules, as opposed to choice within rules, as the essence of constitutional-level thinking. See, generally, e.g., Buchanan, *The Limits of Liberty* (1975); Buchanan, “The Constitution of Economic Policy,” 77 *American Economic Review* 243-50 (1987).

¹⁰⁸ This is a position most often associated with Justice Brennan. See Michael Les Benedict, “Constitutional History and Constitutional Theory: Reflections on Ackerman, Reconstruction, and the Transformation of the American Constitution,” 108 *Yale L. J.* 2011 (1999); Bruce Ackerman, “A Generation of Betrayal?” 65 *Ford. L. Rev.* 1519 (1999); Jeffrey Goldsworthy, “Dworkin as an Originalist,” 17 *Const. Commentary* 49 (2000). Our intention here is not to enter the debate over constitutional interpretation on the side of

previously observed that virtually any dispute about rule-application can be recast as a dispute about rule-selection. We now observe that often the reverse is also true: disputes about rule-selection can be recast as disputes about rule-application. If the existing rules are sufficiently vague, skillful advocates can argue that the rule effectively gives discretion to the decision-maker, who can employ whatever normative and positive theories he thinks best.

Conclusions

The key feature that distinguishes SSAs from other forms of argument is that they are arguments about arguments. The proponent of an SSA claims to predict how acceptance of one argument will lead (with increased likelihood) to the acceptance of other arguments not identical to the first. Whether the speaker's prediction is correct depends crucially on the process that he claims will lead from earlier arguments to later arguments. To evaluate such a process, one needs to understand the structure of discussion in which arguments are made and accepted. In this Article, we have attempted to fill this need.

The primary tool of our analysis is the structure of discussion and argument outlined in Section II. This structure characterizes discussion and argument as occurring in a hierarchical fashion. The lowest rung of the hierarchy is decisions to be made. The next rung up is rules, which are applied (sometimes) in the making of decisions. The next rung is theories, which are applied (sometimes) in the selection of rules. The highest rung is research programs, which are used to constrain the selection of theories. Arguments

originalism, but rather to observe how the inevitable vagueness of constitutional terms creates a fuzzy boundary between the choice of rules and the application of rules.

can take place at any level in the structure: to influence the making of rules, to influence the selection of rules, to influence the debate among theories, and so on.

The maker of an SSA purports (implicitly) to have some knowledge of the actual content of the structure of discussion – that is, the actual rules, theories, and research programs at work in the minds of the participants. To the extent that the speaker's purported knowledge is accurate, his argument may be a good description of the likely development of future arguments in the system. In short, the SSA is valid. If the description is not entirely correct, of course, the argument is less valid (or just plain wrong).

We have described several types of SSA that we think can, at least under some circumstances, be valid. But in each case, we have emphasized that the evaluation depends crucially on the speaker's model of how people make and adopt arguments and other ideas. Even if readers reject one or more of these types of argument, or the specific examples accompanying them, they will hopefully find the overall structure useful in understanding the nature of slippery slope arguments in general.

Slippery slopes are slippery in more ways than one. Aside from sliding from one argument to another, there can also be sliding from one level of discussion to another. Slopes at the level of decisions can become slopes at the level of rule selection, and vice versa. It is this characteristic, we think, that makes them so difficult to deal with. Nonetheless, there exist a variety of imperfect means of resisting slippery slopes, which we have discussed in Section IX of the paper. There may be yet other means that have not occurred to us. If slippery slopes can indeed be a valid form of argumentation, as we

suggest, then finding effective means of coping with them will hopefully become a priority in legal, political, and ethical debates.