CULTURAL EVALUATIONS OF RISK: “VALUES” OR “BLUNDERS”?

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What are the respective contributions of culture and rationality to risk perception? Do disagreements between lay persons and experts (and among members of both groups) originate in conflicting values, differing abilities to comprehend technical information, or both? If conflicting values do play a role, should the law be responsive to popular perceptions of risk even when expert regulators believe that popular beliefs are wrong?

These are the central questions in the debate between Professor Sunstein and us. We take the position that cultural worldviews pervade popular (not to mention expert) risk assessments and that a genuine commitment to democracy forbids simply dismissing such perceptions as products of “bounded rationality.” Sunstein disagrees.

The critical import of Sunstein’s arguments notwithstanding, we are grateful for his thoughtful reply to our review essay. We now respond to two of Sunstein’s criticisms, one methodological and the other substantive.

I. MEASURING RISK PERCEPTIONS

In our study,3 we used a four-point scale to measure each subject’s rating of how “dangerous” an activity was or how “serious” a risk it posed. Sunstein suggests that persons asked to appraise risks in this way are “not likely to respond with a quantitative analysis of the projected harm,” and that the resulting data therefore “do not reveal much about risk perception as that term is explored in Laws of Fear.”

This is a curious criticism for Sunstein to make. One of the great strengths of Laws of Fear is its masterful synthesis of the extensive so-

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4 Sunstein, supra note 1, at 1114.
cial psychology literature on popular risk perceptions. A great deal of the work in this field relies on categorical ratings of risk akin to the ones in our study. In *Laws of Fear*, Sunstein himself draws on such studies to support his arguments.\(^5\)

No measure of risk perceptions is perfect. But one that uses categorical appraisals like those in our study offers several advantages over one that asks subjects to attempt to quantify the risks (say, by guessing the “expected annual deaths”) associated with putatively dangerous activities.

One advantage is that quantitative measures have been shown to lack reliability and validity. The results they generate (whether administered to lay persons or experts) are highly sensitive to item wording and other framing problems that do not, as a matter of theory or empirical data, admit of any clear solution. Categorical scales do reliably reflect variation in attitudes, between different persons and across risks, without the misleading implication that those attitudes reflect stable and genuine actuarial appraisals.\(^6\)

Another advantage of categorical scales comes from the centrality of *affect* in risk perceptions. Individuals tend to conform their appraisals of all dimensions of risk evaluation — including expected benefit and expected harm — to the positive or negative feelings that risky activities provoke.\(^7\) Sunstein surmises, reasonably, that subjects

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6 Sunstein, suprarna. note 1, at 1174.


asked to report their risk perceptions using a categorical “seriousness”

scale likely will rely on a “rapid, intuitive judgment . . . that reflects . . . affect.”10 But because affect most powerfully explains public estimations of the various components of acceptable risk, this is a virtue, not a vice, of such a scale.

A final important reason to elicit subjects’ more general appraisals

of risk “seriousness,” rather than their “quantitative” guesses about risk

incidence, has to do with the purpose of studying popular risk percep-
tions. What we are all trying to figure out — Sunstein included — is

how popular risk perceptions influence political responses to risk and

what normative significance the law should give to such perceptions.

Such an inquiry, then, should take as its focus the types of judgment

that in fact animate popular and political debates about risk.

When ordinary citizens take a position — by voting, by expressing

their opinion in the media, by making contributions to political candi-

dates and causes — they are unlikely to be motivated by some abstract

“quantitative analysis” of the danger of guns, of global warming, of

various public health risks, and so forth. Rather, they are acting on

their feelings, which are likely to reflect a complex of interacting in-

strumental and expressive judgments.11

As Sunstein suggests, a response measure that asks respondents to

state how “serious” a risk is will pick up not just “anticipated harm[s] [and] the cost[s]” but also “related moral and political” concerns.12 Precisely because these are all part of the package of judgments that motivate public reactions to risk, a risk-perception measure that captures all of them is ideal for scholars who are trying to figure out where such attitudes come from and what impact they have on lawmaking.

Of course, to say that scholars should use a measure that includes all the elements of risk perception — instrumental, affective, expressive — isn’t necessarily to say that popular perceptions should be normative for law. Indeed, exactly because we — including Sunstein — are also trying to determine what effect such perceptions should be given in a democratic society, it is essential to use a measure that makes it possible to assess how such perceptions are formed and of what they consist. We believe that a categorical scale of the kind we used is better suited for those purposes than any measure that asks lay persons to engage in bare “quantitative analysis” of risks.

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10 Sunstein, supra note 1, at 1114.


12 Sunstein, supra note 1, at 1114.
II. DOES BOUNDED RATIONALITY "LIE BEHIND" CULTURAL COGNITION?

Sunstein also presents a provocative substantive criticism of our "cultural evaluator model" of risk perception. We challenged his position — which we called the "irrational weigher model" — on the ground that many of the public (mis)perceptions of risk that Sunstein attributes to bounded rationality in fact express coherent cultural worldviews, and as such must be taken seriously in any policymaking scheme that purports to be democratic. Sunstein turns the table on us. Properly understood, he argues, "cultural cognition" is largely a result of bounded rationality, not an alternative to it.13 According to Sunstein, the distribution of risk perceptions that we attribute to cultural worldviews in fact reflects two mechanisms — social influences and "normative bias" — that inevitably fill the void associated with defects in human reasoning power.14 Because these artifacts of "bounded rationality lie behind cultural cognition," a regime in which policymaking is shielded from cultural evaluations of risk remains faithful to the principle that democracies "should respond to people’s values, rather than to their blunders."15

In our view, Sunstein’s assertion that "bounded rationality lie[s] behind cultural cognition" merges two claims, one of which is clearly wrong and the other of which might be right. The clearly wrong claim is that one would expect persons who are boundedly rational to behave like cultural evaluators just because they are boundedly rational. It is indeed well established that people conform their factual beliefs both to the apparent view of others (through mechanisms such as "group polarization,"16 "reactive devaluation,"17 and "naive realism") and to their own values (through mechanisms such as "biased assimilation" and "defensive motivation"). But these dynamics don’t tell us which

13 Id. at 1111.
14 See id. at 1118–19.
15 Id. at 1118.
16 Id. at 1125.
18 Lee Ross, Reactive Devaluation in Negotiation and Conflict Resolution, in BARRIERS TO CONFLICT RESOLUTION 26 (Kenneth J. Arrow et al. eds., 1995).
21 See Roger Giner-Sorolla & Shelly Chaiken, Selective Use of Heuristic and Systematic Processing Under Defense Motivation, 23 PERSONALITY & SOC. PSYCH. BULL. 84 (1997); David K.
group commitments (professional or geographic, political or socio-economic) or which values (ideological, religious, aesthetic) will exert this impact on belief formation. They thus furnish no explanation for any particular distribution of beliefs across persons or issues, much less for why beliefs are in fact distributed in ways that express persons’ commitments to hierarchic or egalitarian, individualistic or communitarian worldviews.

The most plausible way to make sense of these patterns of belief is to view culture as prior to the cognitive processes through which people perceive facts. Perhaps because of upbringing, perhaps because of genetic disposition, or perhaps because of some combination of the two, people form hierarchic, egalitarian, individualistic, or communitarian cultural commitments. These commitments, in turn, supply the values to which individuals conform their beliefs and define the relevant groups within which social influences on belief operate. Bounded rationality, then, does not explain why people behave like cultural evaluators; on the contrary, the disposition of people to behave like cultural evaluators explains why established mechanisms of belief formation — social influences, biased assimilation, the availability heuristic, probability neglect, affect, etc. — generate the distinctive array of beliefs that boundedly rational people actually hold.

The second version of Sunstein’s claim — the one that might be right — is that the beliefs people form as a result of cultural cognition are not entitled to normative weight in democratic decisionmaking. The cultural cognition thesis says that individuals, because they can’t easily access or make sense of complicated empirical data on disputed policy issues (Does the death penalty deter? Is global warming a serious threat? Does private possession of guns increase or decrease crime?), must rely on cognitive processes grounded in their cultural commitments. But this is arguably nothing more than an account of where beliefs come from, and indeed an account that explains why individuals might persistently form incorrect beliefs in the face of compelling empirical evidence. Democracy, as Sunstein says, should be responsive to “values,” not “blunders,” and if cultural cognition gives us just another account of how people blunder, it gives us just another reason to design decisionmaking procedures that are immune from popular beliefs.

The reason that we’re unsure this conclusion is right is the one we emphasized in our review. The origin of even incorrect factual beliefs in cultural values that are prior to cognition calls the “blunder”-”value” criterion into serious doubt. As cultural evaluators, individuals adopt

the factual beliefs about risk that express their commitments to one or another vision of the good society. In this circumstance, expressive valuations ("capitalism denigrates social solidarity"; "owning a gun enables self-reliance") will be essentially interchangeable with corresponding factual beliefs ("commerce and industry threaten the environment"; "owning a gun makes society safer"). Accordingly, if we give politically insulated experts the power to reject popular factual beliefs about risks as "blunders," we are necessarily delegating to them the power to override public "values" as well.22

Nevertheless, if we came off sounding as if we think democracy entails respecting all culturally grounded risk perceptions, no matter how empirically misguided they might be, we overstated our position. We admit to a fair measure of ambivalence about when beliefs formed as a result of cultural cognition merit normative respect within a democratic society.

For one thing, to say that a belief is founded on culture obviously isn't to say that it is fixed in stone. As we emphasized in our review,23 once the dynamics of cultural cognition are understood, it should be possible to devise various risk-communication strategies that enable citizens to accept new information, and ultimately change their minds, without experiencing a threat to their cultural identities. We believe citizens of a deliberative democracy would agree that law should be used to help persons of diverse cultural worldviews converge on empirically sound beliefs about risk. Accordingly, we see it as perfectly consistent with democratic principles for regulators to promote belief-shaping policies of this sort rather than accept uncritically whatever culturally grounded beliefs the majority happens to hold.

Moreover, even when beliefs founded on cultural cognition resist change, they might still supply illegitimate grounds for democratic lawmaking. When citizens are motivated by cultural cognition, they are in effect demanding that risk regulation (on guns, on the environment, on public health issues) take the position that best expresses their preferred vision of a good society. It might be unreasonable, even in a democratic society, to indulge that demand if doing so exposes others (including those who hold competing visions) to significant physical harm or restrictions on liberty. Or it might sometimes be appropriate to resist that demand if the vision of society being expressed is morally repugnant (perhaps because it is inconsistent with democratic values, like equality and liberty). Or maybe the demand for culturally expressive risk regulation should always be resisted, either to

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22 See Kahan et al., supra note 2, at 1104-06.
23 See id. at 1106-04.
implement liberal democratic neutrality or to steer democratic politics away from divisive forms of status competition.24

This is obviously only a small first step toward coming to terms with the normative implications of the cultural evaluator model. Sunstein’s thoughtful reply has helped us to see just how far we have to go. But by the same token, we hope this response will help him to see that simply dismissing culturally grounded risk perceptions as “blunders” founded in “bounded rationality” is a step in the wrong direction.

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24 See id. at 1106–08.