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FOUR FAILURES OF DELIBERATING GROUPS

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Four Failures of Deliberating Groups

Cass R. Sunstein* and Reid Hastie**

Abstract

Many groups make their decisions through some process of deliberation, usually with the belief that deliberation will improve judgments and predictions. But deliberating groups often fail, in the sense that they make judgments that are false or that fail to take advantage of the information that their members have. There are four such failures. (1) Sometimes the predeliberation errors of group members are amplified, not merely propagated, as a result of deliberation. (2) Groups may fall victim to cascade effects, as the judgments of initial speakers or actors are followed by their successors, who do not disclose what they know. Nondisclosure, on the part of those successors, may be a product of either informational or reputational cascades. (3) As a result of group polarization, groups often end up in a more extreme position in line with their predeliberation tendencies. Sometimes group polarization leads in desirable directions, but there is no assurance to this effect. (4) In deliberating groups, shared information often dominates or crowds out unshared information, ensuring that groups do not learn what their members know. All four errors can be explained by reference to informational signals, reputational pressure, or both. A disturbing result is that many deliberating groups do not improve on, and sometimes do worse than, the predeliberation judgments of their average or median member.

Many groups make their decisions through deliberation. When private companies or public officials are deciding how to proceed, they usually talk the problem through. But why, exactly, is deliberation important or even desirable?

A large part of the answer must be that deliberation will result in wiser judgments and better outcomes. But does deliberation actually have this effect? The answer is by no means clear. Group members may impose pressures on one another, leading to a consensus on falsehood rather than truth. A group of like-minded people, with similar predilections, is particularly vulnerable to this problem. The idea of “groupthink,” coined and elaborated by Irving Janis, suggests that groups may tend toward uniformity and

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** Robert S. Hamada Professor of Behavioral Science, University of Chicago, Graduate School of Business. In revised form, this essay will be the basis of a chapter in a forthcoming book, by Reid Hastie and Cass R. Sunstein, under the tentative title Smart Groups (Harvard Business School Press); we draw throughout on some of the discussion in Cass R. Sunstein, Infotopia (New York: Oxford University Press, 2006).
censorship, thus failing to combine information and enlarge the range of arguments.\footnote{Irving L. Janis, \textit{Groupthink}, 2d ed. (Boston: Houghton Mifflin, 1982), 7–9.} Much of the time, both private and public groups often blunder not in spite of deliberation but because of it. After deliberation, companies, labor unions, and religious organizations often make bad decisions; the same point holds for governments.

One of our principal goals here is to go beyond the idea of groupthink – to elaborate on several decades of research that explores the mechanisms that account for the failures of deliberating groups. To explain why such groups often do poorly, we investigate two sets of influences on members of deliberating groups. The first involves \textbf{informational signals}, which lead group members to fail to disclose what they know out of respect for the information publicly announced by others. The second involves \textbf{social pressures}, which lead people to silence themselves in order to avoid reputational sanctions, such as the disapproval of relevant others. As a result of these influences, groups run into four independent problems:

\begin{itemize}
  \item They amplify rather than correct individual errors.
  \item They fall victim to cascade effects, as people follow the statements and actions of their predecessors.
  \item They tend to end up in more extreme positions in line with the pre-deliberation tendencies of their members (“group polarization”).
  \item They emphasize shared information at the expense of unshared information.
\end{itemize}

Because of these problems, groups often fail to achieve their minimal goal of aggregating the information actually held by their members. A confident, cohesive, but error-prone group is nothing to celebrate. On the contrary, it might be extremely dangerous, both to itself and to others. When groups make poor or self-destructive decisions, one of these four problems is often the explanation.
Prospects

If deliberating groups do well, we can imagine three principal reasons:

- *Groups are equivalent to their best members.* One or more group members will often know the right answer, and other members might become convinced of this fact. For this reason, groups might perform toward or at the level of their best members. If some or many members suffer from ignorance or from a form of bias that leads to error, others might correct them. Deliberation might correct individual errors rather than propagate them, in a way that allows convergence on the judgment of the most accurate group member. Imagine, for example, that ten people are trying to make some prediction about the future, and that one of the ten is both an expert and a superb prognosticator. Perhaps the other group members will quickly see that they have an expert in their midst, and they will follow his lead. Consider “eureka” problems, in which the right answer, once announced, is clear to all. For such problems, groups should be expected to converge on the answer as announced by the member who actually knows it.

- *The whole is the sum of the parts: aggregating information.* Deliberation could help to aggregate existing information in a way that leads the group as a whole to know more than any individual member does. Suppose that the group contains no experts on the question at issue, but that relevant information is dispersed among members so that the group is potentially expert even if its members are not. Or suppose that the group contains a number of experts, but that each member is puzzled about how to solve a particular problem. Deliberation might elicit the relevant information and allow the group to make a sensible judgment. In this process, the whole is equal to the sum of the parts—the sum of the parts is what is sought—and no member has all the parts. When a group is trying to solve a crossword puzzle, something of this kind often occurs, as different group members contribute what they know.

- *The whole goes beyond the sum of the parts: synergy.* The give and take of group discussion might sift information and perspectives in a way that leads the group to a good solution to a problem, one in which the whole is actually more than the sum of its parts. In such cases, deliberation is, at the very least, an ambitious form of information aggregation, one in which the exchange of views leads to a creative answer or solution. If a group is seeking to improve the design of an automobile, a tennis racquet, or cell phone—or the right response to a threat to national security—the exchange of ideas might well produce creative solutions that go far beyond any simple aggregation of what group members thought before they started to talk.

To what extent do these mechanisms work in practice? Two points are entirely clear. First, group members tend to become far more confident of their judgments after
they speak with one another. A significant effect of group interactions is a greater sense that one’s postdeliberation conclusion is correct—whether it actually is or not. Corroboration by others increases confidence in one’s judgments. Second, deliberation usually reduces variance. After talking together, group members tend to come into accord with one another. It follows that members of deliberating groups will usually converge on a position on which members have a great deal of confidence. This is not disturbing if that position is also likely to be correct—but if it is not, then many group members will end up sharing a view in which they firmly believe, but which turns out to be wrong (a most unfortunate and sometimes quite destructive situation).

Unfortunately, there is no systematic evidence that deliberating groups will usually succeed in aggregating the information held by their members. With respect to questions with definite answers, deliberating groups tend to do about as well as or slightly better than their average members, but not as well as their best members. Hence, it is false to say that group members usually end up deferring to their internal specialists. Truth does not win out; the most that can be said is that under some conditions, the group will converge on the truth if the truth begins with “at least some initial support” within the group when the task has “a demonstrably correct answer.” (Recall the potential for group success with a eureka problem.) Note here that when a group outperforms most of its individual members, it is generally because the issue is one on which a particular answer can be shown, to the satisfaction of all or most, to be right; and that even in that condition, the group might not do well if the demonstrably correct solution lacks significant support at the outset.

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In general, simple majority schemes do fairly well at predicting group judgments for many decision tasks. More generally, depending on the task, the appropriate statistical measure of the central predeliberation tendency – mean, median, or mode – is a good description of the group’s integration process. It follows that if the majority is wrong, the group will be wrong as well.6 With experts, the same general conclusion holds. Thus a “structured approach for combining independent forecasts is invariably more accurate” than “traditional group meetings,” which do “not use information efficiently.”7

**Two Sources of Self-Silencing**

There are two reasons why exposure to the views of others might lead people not to share what they know. The first involves the information conveyed by what other people say and do. If most group members believe that X is true, there is reason to believe that X is in fact true, and that reason might seem to outweigh the purely private reason a particular group member has to believe that X is false. If other group members share a particular belief, isolated or minority members might not speak out, deferring to the informational signal given by the statements of others. In a business or law firm, for example, members’ optimism about the likely success of some plan or option might lead skeptics to silence themselves on the ground that their own judgments must be ill-informed of wrong.

Not surprisingly, the strength of the informational signal will depend on the number and nature of the people who are giving it. If the group contains one or more people who are well-known to be authorities or who otherwise command respect, then other group members are likely to silence themselves out of deference to them. People are particularly averse to being sole dissenters.8 If all but one person in a deliberating group has said that X is true, then the remaining member is likely to agree X is true, even to the point of ignoring the evidence of his own senses. An evident danger here is that groups will be deprived of important information.

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6 Ibid.
The second reason for self-silencing involves social influences. Their silence might stem not from a belief that they are wrong, as in the case of informational pressure, but instead but from the risk of social sanctions of various sorts. Even in societies and organizations that are strongly committed to freedom, those who defy the dominant position within the group might incur a form of disapproval that will lead them to be less trusted, liked, and respected in the future. Here, too, people are inevitably affected by the number and nature of those with the majority position. A large majority will impose more social pressure than a small one. And if certain group members are leaders or authorities willing and able to impose social sanctions of various sorts, others will be unlikely to defy them publicly.

Participation in deliberative processes, and the effects of informational and social influences, can be put into a more general framework. Suppose that group members are deliberating about some factual question; suppose, too, that each member has some information that bears on the answer to that question. Will members disclose what they know?

For each person, the answer is likely to depend on the individual benefits and the individual costs of disclosure. In many situations, and entirely apart from informational and social influences, the individual benefits of disclosure will be far less than the social benefits. In this sense, participants in deliberation often face a collective action problem, in which each person, following his rational self-interest, will tell the group less than it needs to know. At least, this is so if each member receives only a small portion of the benefits that come to the group from a good outcome—a plausible view about the situation facing many institutions, including, for example, corporate boards, religious organizations, and government agencies.

If the statements of others suggest that privately held information is wrong or unhelpful, then the private benefit of disclosure is reduced much more. In that event, the group member has reason to believe that disclosure will not improve the group’s decision at all. Things are even worse if those who speak against the apparent consensus suffer reputational injury (or more). In that event, the private calculus is straightforward: Silence is golden.
In addition, people show a strong tendency to self-edit when contributing information to a group discussion. When people have information that is in tension with their own conclusion, they tend not to share that information with others. One study of over 500 mock jury deliberations virtually never observed a juror contributing information to discussion that contradicted his or her currently preferred verdict.9 Sometimes this form of self-editing occurs as part of a deliberate strategy to persuade: It would be counter to my own interests to provide information that contradicts my own conclusions. But this same result can occur when the speaker has the best of intentions. Group members are simply not motivated to share information that they have already discounted in their personal judgment process – not for instrumental or strategic reasons, but because they truly believe that it would be counterproductive to share information that they deem false, misleading, or invalid.

Both informational pressure and social influences help to explain the finding that in a deliberating group, those in a minority position often silence themselves or otherwise have disproportionately little weight. There is a more particular finding: Members of low-status groups—less-educated people, African-Americans, sometimes women—speak less and carry less influence within deliberating groups than their higher-status peers.10 Both informational influence and social pressures, likely to be especially strong for low-status members, contribute to this result. The unfortunate consequence can be a loss of information to the group as a whole, in a way that ensures that deliberating groups do far less well than they would if only they could aggregate the information held by group members. Consider the finding that one of the most common defensive tactics for small coalition or solo hold-out jurors is to refuse to discuss the case further with other jurors.11

More generally, a comprehensive study has demonstrated that majority pressures can be powerful even for factual questions to which some people know the right

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9 See Reid Hastie et al., Inside the Jury (Cambridge: Harvard University Press, 1983).
11 Hastie et al., supra note.
The study involved twelve hundred people, forming groups of six, five, and four members. Individuals were asked true-false questions involving art, poetry, public opinion, geography, economics, and politics. They were then asked to assemble into groups, which discussed the questions and produced answers. The majority played a substantial role in determining each group’s answers. The truth played a role, too, but a lesser one. If a majority of individuals in the group gave the right answer, the group’s decision moved toward the majority in 79 percent of the cases. If a majority of individuals in the group gave the wrong answer, the group’s decision nonetheless moved toward the majority in 56 percent of the cases.

Hence, the truth did have an influence—79 percent is higher than 56 percent—but the majority’s judgment was the dominant one. And because the majority was influential even when wrong, the average group decision was right only slightly more often than the average individual decision (66 percent versus 62 percent). What is most important is that groups did not perform as well as they would have if they had properly aggregated the information that group members had.

Let us now turn to the four sets of deliberative failures.

**Deliberative Failure 1: Amplification of Cognitive Errors**

It is well known that individuals do not always process information well. They use heuristics that lead them to predictable errors; they are also subject to identifiable biases, which also produce errors.13

For example, people err because they use the *availability heuristic* to answer difficult questions about probability. How likely is a terrorist attack, a hurricane, a traffic jam, an accident from a nuclear power plant, a case of venereal disease? When people use the availability heuristic, they answer a question of probability by asking whether examples come readily to mind.14 The point very much bears on private and public responses to

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14 See Amos Tversky & Daniel Kahneman, *Availability: A Heuristic For Judging Frequency*
risks -- suggesting, for example, that people will be especially responsive to the dangers of AIDS, crime, earthquakes, and nuclear power plant accidents if examples are easy to recall. The point also explains some of the sources of discrimination on the basis of race, sex, age, and disability. If it is easy to bring to mind cases in which a female employee quit work to care for her family, sex discrimination is more likely; so too if it is easy to think of cases in which African-American employees performed poorly.

In this way, familiarity can affect the availability of instances. But salience is important as well. A terrorist attack on television will be highly salient to viewers, and will have a greater impact than a report about the attack in the newspaper.\textsuperscript{15} Similarly, earlier events will have a smaller impact than later ones. The point helps explain much behavior. For example, whether people will buy insurance for natural disasters is greatly affected by recent experiences.\textsuperscript{16} In the aftermath of an earthquake, people become far readier to buy insurance for earthquakes -- but their readiness to do so declines steadily from that point, as vivid memories recede. Use of the availability heuristic is not irrational, but it can easily lead to serious errors of fact. After the 2005 disaster produced by hurricane Katrina in the United States, it was predictable that significant steps would be taken to prepare for hurricanes -- and also predictable that before that disaster, such steps would be quite inadequate.

Most people also follow the representativeness heuristic, in accordance with which judgments of probability are influenced by assessments of resemblance (the extent to which A “looks like” B).\textsuperscript{17} The representativeness heuristic helps explain what Paul Rozin and Carol Nemeroff have called “sympathetic magical thinking,” including the beliefs that some objects have contagious properties, and that causes resemble their effects.\textsuperscript{18} The representativeness heuristic often works well, but it can also lead to severe blunders.

\textsuperscript{16} Id. at 40
\textsuperscript{18} Paul Rozin and Carol Nemeroff, “Sympathetic Magical Thinking: The Contagion and Similarity ‘Heuristics,’” in Gilovich, Griffin, and Kahneman, Heuristics and Biases p. 201
For purposes of assessing deliberation, a central question is whether groups avoid the errors of the individuals who comprise them. There is no clear evidence that they do, and often they do not—a vivid illustration of the principle, “garbage in, garbage out,” in a way that mocks the aspiration to collective correction of individual blunders. In fact, individual errors are not merely replicated but actually *amplified* in group decisions—a process of “some garbage in, much garbage out.”

Consider some key findings. If individual jurors are biased because of pretrial publicity that misleadingly implicates the defendant, or even because of the defendant’s unappealing physical appearance, juries are likely to amplify rather than correct those biases. Groups have been found to amplify, rather than to attenuate, reliance on the representativeness heuristic, to reflect even larger framing effects than individuals; to show more overconfidence than group members; to be more affected by the biasing effect of spurious arguments from lawyers; to be more susceptible to the “sunk cost fallacy”; and to be more subject to choice-rank preference reversals. In an especially revealing finding, groups have been found to make more, rather than fewer, conjunction errors than individuals when individual error rates are high—though fewer when individual error rates are low. In addition, groups demonstrate essentially the same level of reliance on the availability heuristic, even when use of that heuristic leads to clear errors.

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26 Whyte, “Escalating Commitment,” 430.
27 Stasson et al., “Group Consensus Processes,” 68.
Here is an especially disturbing finding, one with great relevance to group behavior in both business and politics: *Groups are more likely than individuals to escalate their commitment to a course of action that is failing -- and all the more so if members identify strongly with the groups of which they are a part.*\(^\text{28}\) There is a clue here about why companies, states, and even nations often continue with projects and plans that are clearly going awry. If a company is marketing a product that is selling poorly, it may well continue on its misguided course simply because of group dynamics. (Enron is a likely example.) So too with a nation whose economic policy, or approach to foreign affairs, is hurting its citizens.

Why are individual cognitive errors so often amplified at the group level? Informational pressures and social influences are unquestionably at work. Suppose that most members of a group are prone to make certain errors. If the majority makes those errors, then most people will see others making the same errors. What they see will convey information about what is right. Those who are not specialists are likely to think: If most people make the same errors, maybe they are not errors at all. Social influences also play a role. If most group members make errors, others also might make them simply in order not to seem disagreeable or foolish. When groups do not correct the blunders of their members, this is a large reason.

To be sure, there is some evidence that deliberating groups can attenuate certain biases. We have seen that for eureka problems, groups often do well, even if individual members begin with an answer produced by some kind of bias. Groups are also likely to do better than the average individual when members are subject to “egocentric bias” – the bias that leads most of us to think that other people think and act as we do. Most people believe that their tastes and preferences are typical. When asked what percentage of other people watch television on Saturday night, enjoy Frank Sinatra, favor a particular political party, or believe that the latest Brad Pitt movie will win the Oscar, most of us show a bias in the direction that we ourselves favor. But in groups with diverse views, people quickly learn that their own position is not universally held, and hence the bias is reduced. In these cases, group deliberation supplies an important corrective.

Or consider the hindsight bias -- people’s tendency to believe, falsely but with the

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\(^{28}\) Stasser & Dietz-Uhler, *supra* note, at 48.
benefit of hindsight, that they would have accurately predicted the outcome of an event (an accident, a natural disaster, an illness, a change in the stock market). Compared to individuals, groups are slightly less susceptible to hindsight bias. Apparently group members who are not susceptible to that bias are able to persuade others that it is indeed a bias.

But the broader point is that with group discussion, individual errors are usually propagated rather than eliminated, and amplification of those errors is quite likely. When individuals show a high degree of bias, groups are likely to be more biased, not less biased, than their median or average member.

**Deliberative Failure 2: Cascades**

A cascade is a process by which people influence one another, so much so that participants ignore their private knowledge and rely instead on the publicly stated judgments of others. There are two kinds of cascades: informational and reputational. In informational cascades, people silence themselves out of deference to the information conveyed by others. In reputational cascades, they silence themselves so as to avoid the opprobrium of others.

**Informational Cascades.** Cascades need not involve deliberation, but deliberative processes often involve cascades. The central point is that those involved in a cascade do not reveal what they know. As a result, the group does not obtain important information, and it often decides badly.

To see how informational cascades work, imagine a deliberating group that is deciding whether to authorize some new venture. Let us also assume that group members are announcing their views in sequence, in a temporal queue, and that each member knows his place in that queue. Every member has some private information

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about what should be done. But each also attends, reasonably enough, to the judgments of
others. Mr. Andrews is the first to speak. He suggests that the venture should be
authorized. Ms. Barnes now knows Andrews’s judgment; it is clear that she, too, should
vote in favor of the venture if she agrees independently with Andrews. But if her
independent judgment is otherwise, she would—if she trusts Andrews no more and no
less than she trusts herself—be indifferent about what to do and might simply flip a coin.

Now turn to a third member, Mr. Carlton. Suppose that both Andrews and Barnes
have argued in favor of the venture but that Carlton’s own information, though
inconclusive, suggests that the venture is a terrible idea. In that event, Carlton might well
ignore what he knows and follow Andrews and Barnes. It is likely in these circumstances
that both Andrews and Barnes had reasons for their conclusion, and unless Carlton thinks
that his own information is better than theirs, he should follow their lead. If he does,
Carlton is in a cascade. Now suppose that Carlton is acting in response to what Andrews
and Barnes did, not on the basis of his own information, and that subsequent members
know what Andrews, Barnes, and Carlton did. On reasonable assumptions, they will do
exactly what Carlton did: favor the venture regardless of their private information (which,
we are supposing, is relevant but inconclusive). This will happen even if Andrews
initially blundered.32

If this is what is happening, there is a serious social problem: Those who are in
the cascade do not disclose the information that they privately hold. In the example just
given, decisions will not reflect the overall knowledge, or the aggregate knowledge, of
those in the group—even if the information held by individual members, if actually
revealed and aggregated, would produce a quite different result. The venture will be
authorized even if it is a terrible idea, and even if group members know that it is a terrible
idea. The reason is that people are following the lead of those who came before.
Subsequent speakers might fail to rely on, and fail to reveal, private information that
actually exceeds the information collectively held by those who started the cascade.

Note that there is nothing irrational, from the point of view of each group
member, in following the statements or actions of predecessors; members are reacting
rationally to the informational signals they receive. Note as well that even when people

32 Ibid., 195.
are motivated to discuss an issue vigorously, they often focus on developing the statement of their opinions, and not on the evidence that led to those opinions in the first place.

Cascades often occur in the real world within deliberating groups;\textsuperscript{33} they are easy to create in the laboratory. The simplest experiment asked subjects to guess whether the experiment was using urn A, which contained two red balls and one white, or urn B, which contained two white balls and one red.\textsuperscript{34} Subjects could earn $2.00 for a correct decision, and hence an economic incentive favored correct individual decisions. In each period, the contents of the chosen urn were emptied into a container. A randomly selected subject was asked to make one (and only one) private draw of a ball in each round. The subject recorded the color of that draw on an answer sheet and his own decision about which urn was involved. The subject did not announce his draw to the group, but he did announce his own decision to everyone. Then the urn was passed to the next subject for his own private draw, which again was not disclosed, and his own decision about the urn, which again was disclosed. This process continued until all subjects had made draws and decisions. At that time, the experimenter announced the actual urn used. If the subject had picked the urn only on the basis of his private information, he would have been right 66.7 percent of the time. The point of the experiment was to see whether people will decide to ignore their own draw in the face of conflicting announcements by predecessors—and to explore whether such decisions will lead to cascades and errors.

In the experiment, cascades often developed and often produced errors. After a number of individual judgments were revealed, people sometimes announced decisions that were inconsistent with their private draws, but that fit with the majority of previous announcements.\textsuperscript{35} More than 77 percent of “rounds” resulted in cascades, and 15 percent of private announcements did not reveal a “private signal,” that is, the information provided by people’s own draws. Consider cases in which one person’s draw (say, red) contradicted the announcement of his predecessor (say, urn B). In such cases, the second

\textsuperscript{33} See ibid; also see Sunstein, \textit{Why Societies Need Dissent}.
announcement nonetheless matched the first about 11 percent of the time—far less than a majority, but enough to ensure cascades. And when one person’s draw contradicted the announcement of two or more predecessors, the second announcement was likely to follow those who went before. Of note, the majority of decisions were rationally based on the available information—but erroneous cascades nonetheless developed. Table 4-1 shows an example of a cascade that produced an inaccurate outcome (the urn used was B):37

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What is noteworthy here, of course, is that the total amount of private information—four whites and two reds—justified the correct judgment, which was in favor of urn B. But the existence of two early signals, producing rational but incorrect judgments, led everyone else to fall in line. “Initial misrepresentative signals start a chain of incorrect decisions that is not broken by more representative signals received later.”38 This result maps directly onto real-world decisions by deliberating groups, in which people fail to disclose what they know, to the detriment of the group as a whole.

**Reputational Cascades.** In a reputational cascade, people think they know what is right, or what is likely to be right, but they nonetheless go along with the crowd in order to maintain the good opinion of others. The problem is not that group members are influenced by the information contained in the statements of their predecessors, but they people do not want to face public disapproval. “Political correctness” can be found in many places; it is hardly limited to left-leaning institutions of education.

38 See Anderson and Holt, “Information Cascades in the Laboratory,” 847.
Suppose Albert suggests that global warming is a serious problem and that Barbara concurs with Albert, not because she actually thinks that Albert is right, but because she does not wish to seem, to Albert, ignorant or indifferent to environmental protection. If Albert and Barbara seem to agree that global warming is a serious problem, Cynthia not only might not contradict them publicly, but also might even appear to share their judgment, not because she believes that judgment to be correct, but because she does not want to face their hostility or lose their good opinion.

It should be easy to see how this process might generate a cascade. Once Albert, Barbara, and Cynthia offer a united front on the issue, their friend David might be most reluctant to contradict them, even if he thinks they are wrong. In the actual world of group decisions, people are, of course, uncertain whether publicly expressed statements are a product of independent information, participation in an informational cascade, or reputational pressure. Much of the time, listeners and observers undoubtedly overstate the extent to which the actions of others are based on independent information.

The possibility of reputational cascades is demonstrated by an ingenious variation on the urn experiment outlined above.\(^{39}\) In this experiment, people were paid $0.25 for a correct decision, but $0.75 for a decision that matched the decision of the majority of the group. There were punishments for incorrect and nonconforming answers as well. If people made an incorrect decision, they lost $0.25; if their decision failed to match the group’s decision, they lost $0.75.

In this experiment, cascades appeared almost all of the time! No fewer than 96.7 percent of rounds resulted in cascades, and 35.3 percent of people’s announcements did not match their private signal, that is, the signal given by their own draw. And when the draw of a subsequent person contradicted the announcement of the predecessor, 72.2 percent of people matched the first announcement. Consider, as a dramatic illustration, table 4-2, which shows this period of the experiment (the actual urn was B).\(^{40}\)


\(^{40}\) Ibid., 1516.
Table 4-2. Conformity and Cascades

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Source: Hung and Plott, “Information Cascades.”

This experiment shows that especially unfortunate results should be expected if people are rewarded not only or not mostly for being correct, but also or mostly for doing what other people do. Unfortunately, many deliberating groups offer such rewards. The problem is that people are not revealing the information they actually have.

*Availability cascades.* Thus far we have assumed that people are, in a sense, completely rational. They are listening to one another and paying attention to the informational signals given by their predecessors. True, they care about their reputations, but there is nothing irrational about that.

As we have noted, however, people use heuristics, which can lead them astray, and they are also subject to biases. For purposes of understanding how cascade effects can go wrong, the most important heuristic involves availability. When a particular event is salient, it can lead to *availability cascades*, which arise as an event becomes cognitively salient, and spreads rapidly from one person to another, eventually producing a widespread belief.41

In the area of risk, availability cascades are common. A particular event – involving shark attacks, a dangerous pesticide, an abandoned hazardous waste dump, a nuclear power accident, an act of terrorism – may become well-known in the public mind, even iconic, and if so, it will alter public perceptions of a process, product, or activity. In business, availability cascades are also common. A particular event, a particular success, or a particular failure may spread like wildfire within or across firms, leading to a judgment about other apparently similar events or products. If a movie (Star Wars?), a television show (Survivor?), or a book (Freakonomics?), does well, businesses will react strongly, looking for a proposal that seems relevantly similar.

Of course the underlying judgments might be correct. But recall that the availability heuristic is unreliable: People might know of an instance in which a risk came

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to fruition, but the instance may not be representative. Pesticides might be safe even if a particular pesticide is not; a well-publicized event involving an abandoned hazardous waste dump, such as Love Canal, may suggest that abandoned hazardous waste dumps are far more dangerous than they are in fact; nuclear power might be safer than the alternatives, even if people’s thoughts are dominated by images of the Chernobyl disaster or the accident at Three Mile Island.

Similar errors infect firms. A company might believe that a particular product is likely to succeed, because it is like some other product that has succeeded, even though the chance of success is low. Television broadcasters often blunder for this reason, thinking that because some science fiction show has succeeded, another one will too. Or a company might draw an undue inference from some failure, thinking that similar plans will fail too. Availability cascades make businesses and government unrealistically optimistic about some possibilities and unrealistically pessimistic about others.

**Deliberative Failure 3: Group Polarization**

There are clear links between social cascades and the well-established phenomenon of group polarization, by which *members of a deliberating group end up adopting a more extreme version of the position toward which they tended before deliberation began*.42 The problem is especially severe for groups of like-minded people, who typically end up in more extreme positions as a result of deliberation.

Group polarization is the typical pattern with deliberating groups, and it has been found in hundreds of studies involving more than a dozen countries, including the United States, France, Afghanistan, and Germany.43 For example, those who disapprove of the United States and are suspicious of its intentions will increase their disapproval and suspicion if they exchange points of view. Indeed, there is specific evidence of the latter phenomenon among citizens of France.44

The original psychological experiments on the effects of deliberation are relevant to businesses and governments alike. They involved risk-taking behavior, with a

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43 Ibid., 204.
44 Ibid., 224.
demonstration that risk-inclined people become still more risk-inclined after they deliberate with one another. Risky decisions include taking a new job, investing in a foreign country, escaping from a prisoner-of-war camp, or running for political office. With respect to many such decisions, members of deliberating groups became significantly more risk-inclined after a brief period of collective discussion. On the basis of this evidence, it became standard to believe that deliberation produced a systematic “risky shift.”

Later studies drew this conclusion into serious question. On many of the same questions on which Americans displayed a risky shift, Taiwanese subjects showed a “cautious shift.” Deliberation led citizens of Taiwan to become significantly less risk-inclined than they were before they started to talk. Among American subjects, deliberation sometimes produced a cautious shift as well, as risk-averse people became more averse to certain risks after they talked with one another. The principal examples of cautious shifts involved the decision whether to marry and the decision whether to board a plane despite severe abdominal pain, possibly requiring medical attention. In these cases, the members of deliberating groups shifted not toward risk but toward greater caution.

A straightforward interpretation turned out to able to reconcile these competing findings: the pre-deliberation median is the best predictor of the direction of the shift. When group members are disposed toward risk-taking, a risky shift is observed. Where members are disposed toward caution, a cautious shift is observed. Thus, for example, the striking difference between American and Taiwanese subjects is a product of a difference in the pre-deliberation medians of the different groups on the relevant questions. Thus the risky shift and the cautious shift are both subsumed under the rubric of group polarization.

Group polarization occurs for matters of fact as well as issues of value, though it is easier to demonstrate the latter. If the question is whether a terrorist attack will occur in the United States in the next year, group polarization will not be easy to test, simply

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45 For a clear discussion, see id.
47 Id.; Brown, supra note.
because the answer is either yes or no, and it is not simple to demonstrate greater extremism in binary choices. But suppose that people are asked, on a bounded scale of zero to eight, how likely it is that a terrorist attack will occur in the United States in the next year, with zero indicating “zero probability,” eight indicating “absolutely certain,” seven indicating “overwhelmingly likely,” six “more probable than not,” and five “fifty-fifty.” In that event, the answers from a deliberating group will tend to reveal group polarization, as people move toward more extreme points on the scale depending on their initial median point. If the predeliberation median is five, the group judgment will usually be six; if the predeliberation median is three, the group judgment will usually be two.48

Note here that even federal judges are highly susceptible to group polarization, as both Democratic and Republican appointees show far more ideological voting patterns when sitting with other judges appointed by a president of the same political party.49 Juries polarize as well.50

Why does group polarization occur? There are three reasons.51 The first and most important involves the now-familiar idea of informational influence, but in a distinctive form. People respond to the arguments made by other people—and the “argument pool” in any group with some predisposition in one direction will inevitably be skewed toward that predisposition. As a statistical matter, the arguments favoring the initial position will be more numerous than those pointing in the other direction. Individuals will have heard of some, but not all, of the arguments that emerge from group deliberation. As a result of the relevant arguments, deliberation will lead people toward a more extreme point in line with what group members initially believed.

The second explanation involves social influences. People want to be perceived favorably by other group members. Sometimes people’s publicly stated views are, to a greater or lesser extent, a function of how they want to present themselves. Once they hear what others believe, some will adjust their positions at least slightly in the direction

48 Ibid.
51 Brown, Social Psychology, 200–45. An effort to systematize some of these points can be found in Edward Glaeser and Cass R. Sunstein, Extremism and Social Learning, 1 J Legal Analysis (forthcoming 2008).
of the dominant position in order to hold onto their preserved self-presentation. They shift accordingly.52

The third explanation of group polarization stresses the close links among confidence, extremism, and corroboration by others.53 As people gain confidence, they usually become more extreme in their beliefs. Agreement from others tends to increase confidence, and for this reason like-minded people, having deliberated with one another, become more sure that they are right and thus more extreme. In many contexts, people’s opinions become more extreme simply because their views have been corroborated, and because they become more confident after learning that others share their views.54 Many minds can badly blunder in this way.

A great deal of work suggests that group polarization is heightened when people have a sense of shared identity, and this point helps to suggest yet another explanation of polarization.55 People may polarize because they are attempting to conform to the position that they see as typical within their own group. If their group’s identity is made especially salient, the in-group norms are likely to become more extreme.56 There is a further point. If arguments come from a member of an in-group, they are especially likely to be persuasive. Such arguments are more likely to seem right. It is also reasonable to think that people would fear the social pressures that come from rejecting what an in-group member has to say. By contrast, the views of out-group members have far less force and might even be irrelevant.57 Should you really listen to someone who belongs to a group that you believe to be systematically wrong? The reputational pressure will also be reduced: Do you really have to worry about rejecting the views of someone usually thought to be wrong by people like you? If a self-identified conservative hears arguments

52 Brown, supra note. It has similarly been suggested that majorities are especially potent because people do not want to incur the wrath, or lose the favor, of large numbers of others, and that when minorities have influence, it is because they produce genuine attitudinal change. See Baron et al., “Social Corroboration,” 82.
53 See Baron et al., supra note, at 557–59 (showing that corroboration increases confidence and hence extremism).
54 Id. at 541, 546–47, 557 (concluding that corroboration of one’s views has effects on opinion extremity).
55 See Brown, supra note, at 209–11; Turner, supra note, at 159–70; Cooper et al., supra note, at 259, 269–70.
56 Brown, supra note, at 210.
57 Id. at 211; Cooper et al., supra note, at 269.
from someone who is known to be left of center, those arguments are likely to fall on
deaf ears. The clear lesson is that when a group is highly cohesive, and when its members
are closely identified with it, polarization is especially likely -- and likely to be especially
large.

Does group polarization lead to accurate or inaccurate answers? Do deliberating
groups err when they polarize? No general answer would make sense. Everything
depends on the relationship between the correct answer and the group’s predeliberation
tendencies. If the group is leaning toward the right answer, polarization might lead them
directly to the truth. It follows that group polarization might not produce errors or failres
at all. But there are no guarantees here. As a result of the relevant influences, some
people will fail to disclose what they know. When individuals are leaning in a direction
that is mistaken, the mistake will be amplified by group deliberation. We have already
encountered an example: When most people are prone to make logical errors, group
processes lead to more errors rather than fewer. This is polarization in action, and it
produces large blunders.

**Deliberative Failure, 4: Over-weighting Common Knowledge**

The last failure is in many respects the most interesting. Suppose that group
members have a great deal of information—enough to produce the unambiguously right
outcome if that information is properly aggregated. Even if this is so, an obvious problem
is that groups will not perform well if they emphasize shared information and slight
information that is held by one or a few members. Unfortunately, countless studies
demonstrate that this regrettable result is highly likely.\(^{58}\)

“Hidden profiles” is the term for accurate understandings that groups could but do
not obtain. Hidden profiles are, in turn, a product of the *common-knowledge effect*,
through which information held by all group members has more influence on group
judgments than information held by only a few members.\(^{59}\) The most obvious explanation

\(^{58}\) Garold Stasser and William Titus, “Hidden Profiles: A Brief History,” *Psychological Inquiry*

\(^{59}\) Daniel Gigone and Reid Hastie, “The Common Knowledge Effect: Information Sharing and
of the effect is the simple fact that as a statistical matter, common knowledge is more likely to be communicated to the group; but social influences play a role as well.

**Hidden Profiles.** Consider a study of serious errors within working groups, both face-to-face and online. The purpose of the study was to see how groups might collaborate to make personnel decisions. Resumes for three candidates applying for a marketing manager position were placed before group members. The attributes of the candidates were rigged by the experimenters so that one applicant was clearly the best for the job described. Packets of information were given to subjects, each containing a subset of information from the resumes, so that each group member had only part of the relevant information. The groups consisted of three people, some operating face-to-face, some operating online.

Almost none of the deliberating groups made what was conspicuously the right choice! The reason is simple: They failed to share information in a way that would permit the group to make that choice. Members tended to share positive information about the winning candidate and negative information about the losers. They suppressed negative information about the winner and positive information about the losers. Hence, their statements served to “reinforce the march toward group consensus rather than add complications and fuel debate.”

Or consider a simulation of political elections, in which information was parceled out to individual members about three candidates for political office, and in which properly pooled information could have led to what was clearly the best choice, candidate A. In the first condition, each member of the four-person groups was given most of the relevant information (66 percent of the information about each candidate). In that condition, 67 percent of group members favored candidate A before discussion and 85 percent after discussion. This is a clear example of appropriate aggregation of information. Groups significantly outperformed individuals, apparently because of the

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63 Ibid., 1473; see also Stasser and Titus, “Hidden Profiles,” 304.
exchange of information and reasons. Here, then, is a clear illustration of the possibility that groups can aggregate what members know in a way that produces sensible outcomes.

In the second condition, by contrast, the information that favored candidate A was parceled out to various members of the group so that only 33 percent of information about each candidate was shared. As the condition was designed, the shared information favored two unambiguously inferior candidates, B and C; but if the unshared information emerged through discussion, and were taken seriously, candidate A would be chosen. In that condition, less than 25 percent of group members favored candidate A before discussion, a natural product of the initial distribution of information. But (and this is the key result) that number actually fell after discussion, simply because the shared information had disproportionate influence on group members. In other words, groups did worse, not better, than individuals when the key information was distributed selectively. In those conditions, the commonly held information was far more influential than the distributed information, to the detriment of the group’s ultimate decision.

From this and many similar studies, the general conclusion is that when “the balance of unshared information opposes the initial most popular position . . . the unshared information will tend to be omitted from discussion and, therefore, will have little effect on members’ preferences during group discussion.” It follows that “group decisions and postgroup preferences reflect the initial preferences of group members even when the exchange of unshared information should have resulted in substantial shifts in opinion.” Nor does discussion increase the recall of unshared information. On the contrary, its major effect is to increase recall of the attributes of the initially most popular candidate. The most disturbing conclusion is that when key information is unshared, groups are “more likely to endorse an inferior option after discussion than [are] their individual members before discussion.”

The Common-Knowledge Effect. These results are best understood as a consequence of the common-knowledge effect, by which information held by all group

64 Stasser and Titus, “Pooling of Unshared Information,” 1473.
65 Ibid., 1476.
66 Ibid.
67 Ibid.
members has far more influence on group judgments than information held by one member or a few.\textsuperscript{69} More precisely, the “influence of a particular item of information is directly and positively related to the number of group members who have knowledge of that item before the group discussion and judgment.”\textsuperscript{70} Under conditions of unshared information, group judgments have been found to be “not any more accurate than the average of the individual judgments, even though”—and this is the central point—the groups were “in possession of more information than were any of the individuals.”\textsuperscript{71}

In a key study, deliberating groups would have lost \textit{nothing} in terms of accuracy if they had simply averaged the judgments of the people involved—\textit{a clear finding that deliberation may not improve on the judgments of statistical groups.}\textsuperscript{72} The more shared information is (that is, the more that it stands as “common knowledge”), the more impact it will have on group members before discussion begins—and the more impact it will have as discussion proceeds, precisely because commonly held information is more likely to be discussed.

Most of the hidden profile experiments involve volunteer participants from college courses. It is natural to ask: Would the same results be found in the real world? Affirmative evidence comes from a hiring exercise involving high-level executives.\textsuperscript{73} In this study, no experimenter controlled information about the various candidates. Instead the executives’ knowledge arose naturally from their own information searches. As a result of those searches, some information was known to all; some was partially shared; and some was uniquely held. Even with high-level executives, common information had a disproportionately large impact on discussions and conclusions. Disproportionately little weight was given to valuable information held by one person or a few.

The same study offers an additional finding of considerable importance. Some group members are “cognitively central,”\textsuperscript{74} in the sense that their knowledge is shared

\textsuperscript{70} Ibid., 960.
\textsuperscript{71} Ibid., 973.
\textsuperscript{72} Id.
\textsuperscript{73} Susanne Abele et al., \textit{Information and Cognitive Centrality} (May 2005), available at www.erim.eur.nl
with many other group members. What they know, other people know as well. A
cognitively central group member is defined as one who possesses information in
common with all or most group members. But other group members are “cognitively
peripheral,” in the sense that their own information is uniquely held; what they know is
known by no one else. Well-functioning groups need to take advantage of cognitively
peripheral people. But it turns out that cognitively central people usually have a
disproportionate influence in discussion – and they also show higher levels of
participation in group deliberations. By contrast, cognitively peripheral people end up
having little influence and do not much participate.

A simple explanation for these results is that group members prefer to hear
information that is commonly held – and prefer to hear people who have such
information. Cognitively central people also have high levels of credibility; cognitively
peripheral people have corresponding low levels. And indeed, the executives who were
cognitively central ended up having a greater influence on the final report. The general
conclusion is that when some group members count for more than others, it is often
because they know what everyone else knows. Unfortunately, more peripheral people,
with unique knowledge, are sometimes the ones group members most need to hear.

As might be expected, a group’s focus on shared information increases with the
size of the group. For this reason, groups can go very badly wrong even if they are
fairly large. In a study designed to test judgments about candidates for office, involving
both three-person and six-person groups, all group discussions focused far more on
shared information than on unshared information—but the effect was significantly greater
for six-person groups. Most remarkably, “it was almost as likely for a shared item to be
mentioned twice as it was for an unshared item to be mentioned at all.”

It follows that for very large groups – twelve people, thirty people, two hundred
people – the effect of shared information will be compounded. And despite the failures of
their deliberations, group members tended to be significantly more confident about their
judgments after discussion – an especially alarming finding, because confidence and error

75 See Garold Stasser et al., Information Sampling in Structured and Unstructured Discussions
76 Id. at 78.
are a bad combination.

**Hiding profiles.** Why do hidden profiles remain hidden? The principal explanations build on the informational and social influence accounts emphasized thus far. When information is held by all or most group members, it is especially likely, as a statistical matter, to be repeated in group discussion, and hence more likely to be influential than information that is held by one person or a few. There are two different points here. First, information held by all or most group members is likely to influence individual judgments, and those judgments will in turn affect the judgments of the group. Second, shared information, simply because it is shared, is more likely to be explored during group discussion.

Suppose that a team of five people is advising the President whether to embark on military action to combat a perceived threat. If each of the five people has information indicating that the use of military force would be successful, that information is more likely to emerge in group discussion than are separate parcels of information, individually held by each adviser, suggesting that the use of force would run into trouble. If the team of advisers stresses the information that is held in advance by each, that information will have a disproportionate influence on its ultimate decision. This is a simple statistical point.

But hidden profiles remain significantly more hidden than would be predicted by statistics. To understand the additional element, consider the finding that low-status members of groups are “increasingly reluctant over the course of discussion to repeat unique information.”77 Those in the group who are inexperienced, or are thought to be low on the hierarchy, are particularly loathe to emphasize their privately held information as discussion proceeds. It follows that in a business, leaders are unlikely to receive the views of those who do not have much experience or respect, even if they know something important.

This finding suggests that group members, and especially lower status ones, are nervous about emphasizing information that most group members lack. Indeed, lower status members “are likely to drop unique information like a hot potato”—partly because of the difficulty of establishing its credibility and relevance, and partly because they risk

77 Id.
the group’s disapproval if they press a line of argument that others reject. Return here to
the finding that cognitively peripheral members have little influence on the group. Those
who have uniquely held information end up participating less than those who have shared
information, and what they have to say is not much valued. In many deliberating groups,
people who emphasize uniquely held information take an obvious social risk; and they
know it.

This point creates a big problem for such groups, which will fail to get
information that they need, and which can therefore be lead to error. Consider the finding
that group members typically underestimate the performance of low-status members and
typically overestimate the performance of high-status members, in a way that gives high-
status members a degree of deference that is not warranted by reality.78

In the same vein, those who discuss shared information obtain rewards in the form
of an enhanced sense of competence in the eyes of others—and in their own eyes as
well.79 Strange but true: If someone tells you something you already know, you are likely
to like that person, and yourself, a bit better as a result. In face-to-face discussions and
purely written tasks, people give higher ratings (in terms of knowledge, competence, and
credibility) both to themselves and to others after receiving information that they knew
already. It follows that someone with valuable, unshared information may do best to earn
credibility “by telling others what they already know before telling them what they do not
already know.”80 The general problem is that deliberating groups often perform poorly
because they fail to elicit information that could steer them in the right directions.

**Conclusion**

Our goal here has been to catalogue four common failures of deliberating groups.
(1) Sometimes individual errors are amplified, not merely propagated, as a result of
deliberation. (2) Groups fall victim to cascade effects, as the early speakers or actors
ensure that people do not learn what is known by their successors. (3) Because of group

78 Cecilia L. Ridgeway, *Social Status and Group Structure*, in *Group Processes*, supra note 93,
at 352, 354 (collecting studies).
79 See Gwen M. Wittenbaum et al., *Mutual Enhancement: Toward an Understanding of the
Collective Preference for Shared Information*, 77 J. Personality & Soc. Psychol. 967, 967–78
(1999).
polarization, members of deliberating groups often end up in a more extreme position in line with their predeliberation tendencies. (4) In deliberation, shared information often dominates or crowds out unshared information, ensuring that groups do not learn what their members know.

As we have seen, informational signals and reputational pressure help to explain all four errors. A disturbing result is that groups often do not improve on, and sometimes do worse than, their average or median member. A crucial important task, for many deliberating groups, is to devise strategies that will overcome the relevant problems and increase the likelihood that group judgments will take advantage of the knowledge held by group members. We have not said anything here about how that task might be accomplished. Our goal has been instead to isolate the problems to which deliberating groups are subject, and to understand the mechanisms that threaten to make those problems so difficult to solve.

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81 These issues will be explored in detail in Hastie and Sunstein, Smart Groups, supra note; some tentative thoughts can be found in Sunstein, Infotopia, supra note.
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