Fairness as a Natural Phenomenon

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Justice as a Natural Phenomenon

by Ken Binmore

1 Inventing Right and Wrong

This article is my latest attempt to come up with a minimal version of my evolutionary theory of fairness (Binmore [11, 10, 8, 9]). The naturalism that I espouse is currently unpopular, but Figure 1 shows that the scientific tradition in moral philosophy nevertheless has a long and distinguished history. John Mackie [27] has been its most eloquent spokesman in modern times. His demolition of the claims made for a priori reasoning in moral philosophy seem unanswerable to me.

In Mackie’s view, human morality is an artefact of our evolutionary history. To study it, he tells us to look at the anthropological facts presented in such pioneering studies as Westermarck’s [49] Origin and Development of the Moral Ideas. And for a framework within which to make sense of such anthropological data, he directs our attention to Von Neumann’s theory of games.

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Figure 1: Naturalism and metaphysics in the history of moral philosophy.

My theory takes up where Mackie left off, but it doesn’t treat the efforts of the metaphysical school as worthless. Their theories may rest on unsound foundations, but they are no less adept at observing ordinary people coping with ordinary life than

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1I am grateful to the Economic and Social Research Council and to the Leverhulme Foundation for funding this work through the Centre for Economic Learning and Social Evolution at University College London.
Mackie. In particular, a naturalized version of the original position independently formulated by the philosophers Harsanyi [19] and Rawls [35] plays a leading role in my theory of fairness norms. But where Harsanyi and Rawls see a procedure for operationalizing Immanuel Kant’s categorical imperative, I see a stylized version of the deep structure of the fairness norms that have evolved in our species to solve the equilibrium selection problems that arise in the multitude of picayune coordination games of which everyday social life largely consists.

2 Game theory

A game is any situation in which people or animals interact. The plans of action of the players are called strategies. Figure 2 shows two examples. The game on the left is the Prisoners’ Dilemma. The game on the right is the Stag Hunt, which game theorists use to illustrate a story of Jean-Jacques Rousseau (Skyrms [39]).

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Prisoners’ Dilemma

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Stag Hunt Game

Each game has two players, whom I call Adam and Eve. Adam has two strategies, dove and hawk, that are represented by the rows of the payoff table. Eve also has two strategies, dove and hawk, represented by the columns of the payoff table. The four cells of the payoff table correspond to the possible outcomes of the game. Each cell contains two numbers, one for Adam and one for Eve. The number in the southwest corner is Adam’s payoff for the corresponding outcome of the game. The number in the northeast corner is Eve’s payoff.

The payoffs may correspond to money or to biological fitness, but they don’t need to. With mild assumptions, economists have shown that any consistent behaviour whatever can be modeled by assuming that the players are behaving as though seeking to maximize the average value of something. This abstract something—which obviously varies with the context—is called utility. When assuming that a player is maximizing his or her expected payoff in a game, we are therefore not taking for granted that people are selfish, or victims of their genes. We make no assumptions about their motivation, except that they pursue their goals—whatever they may be—in a consistent manner.

It would be easy for the players to maximize their expected payoffs if they knew
what strategy their opponent was going to choose. For example, if Adam knew
that Eve were going to choose dove in the Prisoners’ Dilemma, he would maximize
his payoff by choosing hawk. That is to say, hawk is Adam’s best reply to Eve’s
choice of dove, a fact indicated in Figure 2 by starring Adam’s payoff in the cell
that results if the players choose the strategy profile (hawk, dove). However, the
problem in game theory is that a player doesn’t normally know in advance what
strategy the other player will choose.

A Nash equilibrium is any profile of strategies—one for each player—in which
each player’s strategy is a best reply to the strategies of the other players. In the
examples of Figure 2, a cell in which both payoffs are starred therefore corresponds
to a Nash equilibrium.

Nash equilibria are of interest for two reasons. If it is possible to single out the
rational solution of a game, it must be a Nash equilibrium. For example, if Adam
knows that Eve is rational, he would be stupid not to make the best reply to what
he knows is her rational choice. The second reason is even more important. An
evolutionary process that adjusts the players’ strategy choices in the direction of
increasing payoffs can only stop when it reaches a Nash equilibrium.

Because evolution stops working at an equilibrium, biologists say that Nash
equilibria are evolutionarily stable.\(^2\) Each relevant locus on a chromosome is then
occupied by the gene with maximal fitness. Since a gene is just a molecule, it can’t
choose to maximize its fitness, but evolution makes it seem as though it had. This
is a valuable insight, because it allows biologists to use the rational interpretation
of an equilibrium to predict the outcome of an evolutionary process, without following
each complicated twist and turn that the process might take.

Why, for example, do songbirds sing in the early spring? The proximate cause
is long and difficult. This molecule knocked against that molecule. This chemical
reaction is catalyzed by that enzyme. But the ultimate cause is that the birds
are signalling territorial claims to each other in order to avoid unnecessary conflict.
They neither know nor care that this behaviour is rational. They just do what they
do. But the net effect of an immensely complicated evolutionary process is that
songbirds behave as though they had rationally chosen to maximize their fitness by
operating a Nash equilibrium of their game of life.

**Equilibrium selection problem.** When a particular game is played many
times in a society, people get accustomed to playing it in a particular way. For
example, each time we get into our car in the morning we are playing a Driving
Game with all the other people driving to work. In Britain, we keep the accident
rate down by all driving on the left. In France, the convention is to drive on the
right. The side of the road on which it is conventional to drive is the archetypal
element of a social norm.

\(^2\)John Maynard Smith [28] defines an evolutionarily stable strategy (ESS) to be a best reply to
itself that is a better reply to any alternative best reply than the alternative best reply is to itself,
but biologists seldom worry about the small print involving alternative best replies.
The feature of a social norm that needs to be emphasized here is that it won’t survive if its use fails to coordinate the players’ behaviour on a Nash equilibrium of whatever game is being played. Immanuel Kant’s categorical imperative is therefore a non-starter as a stable social norm because it calls for Adam and Eve to play dove in the Prisoners’ Dilemma, but the only Nash equilibrium in the Prisoners’ Dilemma requires that Adam and Eve both play hawk.

The Prisoners’ Dilemma is unusual in having only one Nash equilibrium. Nearly all games that arise in real life have many Nash equilibria. A society that operates a particular social norm must therefore have solved an equilibrium selection problem. Societies sometimes choose their social norms consciously and deliberately, as when Sweden switched from driving on the left to driving on the right in the early hours of 1st September, 1967. But many social norms are the end-product of an uncontrolled process of cultural drift.

The Stag Hunt Game is used to illustrate one of the many difficulties that the equilibrium selection problem creates. In Rousseau’s story, Adam and Eve agree to cooperate in hunting a stag, but when they separate to put their plan into action, each may be tempted to abandon the joint enterprise by the prospect of bagging a hare for themselves. The starred payoffs in the payoff table show that there are two Nash equilibria in pure strategies, one in which the players cooperate by both playing dove, and one in which they both defect by both playing hawk. The situation differs from the Prisoners’ Dilemma in that both of these patterns of behaviour are viable candidates for social norms because both correspond to Nash equilibria.

Both Nash equilibria in the Stag Hunt Game are candidates for a social norm, but the efficient (waste-free) equilibrium in which Adam and Eve both play dove assigns both players a higher payoff. So why don’t Adam and Eve agree to make the efficient equilibrium their social norm? However, moving from an inefficient social norm to a new social norm isn’t necessarily easy. In Naples, the social norm in which traffic signals are ignored is so ingrained that progress seems impossible.

The Stag Hunt Game shows how hard it can be even for fully rational players to move from an inefficient equilibrium to an efficient equilibrium. Assuming that the current social norm is for Adam and Eve both to play hawk, then Adam may seek to persuade Eve that he plans to play dove in the future, and so she should follow suit. But she will remain unconvinced, because whatever Adam may actually be planning to play, it is in his interests to persuade her to play dove. If he succeeds, he will get 4 rather than 0 if he is planning to play dove, and 3 rather than 2 if he is planning to play hawk. Rationality alone therefore doesn’t allow Eve to deduce anything about his plan of action from what he says, because he is going to say the same thing no matter what his real plan may be!

In spite of these problems, I think we should sometimes expect biological and cultural evolution acting in tandem to select an efficient equilibrium in the long run. To see why, suppose that many identical small societies are operating one of two social contracts, a and b. If a makes each member of a society that operates it fitter than the corresponding member of a society that operates b, then here is an argument which says that a will eventually come to predominate.
To say that a citizen is fitter in this context means that the citizen has a larger number of children on average. Societies operating social contract $a$ will therefore grow faster. Assuming societies cope with population growth by splitting off colonies which inherit the social contract of the parent society, we will then eventually observe large numbers of copies of societies operating social contract $a$ compared with those operating contract $b$. But this is how evolution works. In this case, the efficient social contract $a$ will have proved fitter than its inefficient rival $b$.3

**Coordination games.** I think that fairness evolved as Nature’s answer to the equilibrium selection problem in human coordination games. As in the Driving Game of Figure 3, such games have more than one efficient equilibrium. However, the Battle of the Sexes is more typical of such games, because Adam and Eve don’t agree about which of the two efficient Nash equilibria is preferable as a social norm.

![Driving Game and Battle of the Sexes](image)

Figure 3: Coordination games.

The politically incorrect story that accompanies the Battle of the Sexes makes Adam and Eve a newly married couple on their honeymoon in New York City. At breakfast, they discussed whether to attend a boxing match or the ballet in the evening, but without reaching an agreement. During the day they got separated in the crowds, and they must now choose where to go in the evening independently.

As with the Stag Hunt Game, the purpose of the Battle of the Sexes is to illustrate how hard it can be to solve equilibrium selection problems. But not all equilibrium selection problems are so difficult. We commonly solve coordination problems by appealing to an appropriate fairness norm without any thought or discussion. Who goes through that door first? How long does Adam get to speak before it is Eve’s turn? Who moves how much in a narrow corridor when a fat lady burdened with shopping passes a teenage boy with a ring through his nose? Who

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3There is an ongoing debate within biology on the validity of group selection arguments. However, my group selection argument needn’t disturb even the most diehard exponent of the selfish gene paradigm because it identifies a social contract with an *equilibrium* of the game of life played by each of the competing societies. Selection among such equilibria doesn’t require that individuals sacrifice anything for the public good, because every individual in every group is already optimizing his or her fitness by when acting in accordance with the social contract of his society.
should take how much of a popular dish of which there isn’t enough to go around? Who gives way to whom when cars are manoeuvring in heavy traffic? Who gets that parking space? Whose turn is it to wash the dishes tonight? These are picayune problems, but if conflict arose every time they needed to be solved, our societies would fall apart.

Most people are surprised at the suggestion that there might be something problematic about how two people pass each other in a corridor. When interacting with people from our own culture, we commonly solve such coordination problems so effortlessly that we don’t even think of them as problems. Our fairness program then runs well below the level of consciousness, like our internal routines for driving cars or tying shoelaces. As with Molière’s Monsieur Jourdain, who was delighted to discover that he had been speaking prose all his life, we are fair in small-scale situations without knowing that we are fair.

**Nash Demand Game.** The coordination games that have been discussed so far are too simple to serve as a model of the coordination games that gave rise to the human sense of fairness. For this purpose, we need to consider games with a continuum of efficient equilibria. Sharing food is the paradigmatic example. If Adam and Eve have the time and opportunity, they may negotiate some compromise split of the available pie, but even in the absence of any explicit communication, it still often makes sense to regard their dilemma as a bargaining problem.

The simplest coordination game that meets our requirements is called the Nash Demand Game. Adam and Eve simultaneously choose strategies that translate into payoff demands. If the pair of demands they make lies in the shaded set of Figure 4, then both players receive their demands. If not, then the result is the payoff pair called the state of nature in Figure 4.

Any payoff pair on the curved boundary of the shaded set of Figure 4 that is better for both players than the state of nature corresponds to an efficient equilibrium of the game. Neither player can gain by asking for more, given the demand made by the other. It is also a Nash equilibrium for both players to make huge demands that cannot be met, in which case the outcome is the state of nature. We therefore have a game that shares the properties of both the Stag Hunt Game and the Battle of the Sexes, but differs from the Battle of the Sexes in that compromise is possible.

It may be that Adam and Eve have been operating an inefficient social norm that would land them at the state of nature in the Nash Demand Game that they now have to play. They would do better to adopt a new social norm that coordinates their behaviour on one of the game’s many efficient Nash equilibria. Figure 4 shows three possible social norms that might be used to solve their equilibrium selection problem, each of which has been touted as the fair social norm by various authors. But what makes one social norm fairer than another? John Mackie told us to look to anthropology for the beginnings of an answer.
Figure 4: Three possible social norms. The location of the Nash bargaining solution
is determined entirely by the shape of the shaded set and the location of the state
of nature. The location of the utilitarian and egalitarian solutions depends on the
slope of the lines that determine them. These slopes are determined in turn by
the standard of interpersonal comparison of utility that operates in their society.

3 Anthropology

Ten thousand years or more ago, humans lived in smallish groups of up to 120 or
so people, who survived by hunting and gathering. No such groups exist any more,
but anthropologists were able to study their way of life before it became extinct.
Two features are universal across the world. African pygmies, Andaman islanders,
Greenland eskimos, Australian aborigines, Paraguayan Indians, and Siberian nomads
all operate societies without bosses or social distinctions. They also share food—
especially meat—on a relatively equal basis.4

Folk theorem. As in small villages today, it must have been hard to keep any
secrets in an ancestral foraging group. This fact is helpful from the point of view
of applying game theory to such a society, because it allows the folk theorem of
repeated game theory to be applied. This is perhaps the most significant result that
game theory has to offer to political philosophy. It tells us what Nash equilibria are

4See, for example, Bailey [6], Damas [13], Erard and Whiten [14], Evans-Pritchard [15], Fürer-
Haimendorf [17], Gardner [18], Hawkes et al. [20], Helm [21], Isaac [23], Kaplan and Hill [24],
Knauf [25], Lee [26], Riches [36], Tanaka [40], Megarry [29], Meggitt [30], Rogers [37], Sahlins
[38], Turnbull [41].
available when a group of sufficiently forward-looking people play the same game every day for an indefinite period.

To understand the result, imagine a benign social planner assisted by an all-powerful police force, who is able to enforce any outcome he chooses in the daily game the group play. The folk theorem says that the same outcome is available as the outcome of a Nash equilibrium in the repeated game. That is to say, the players don’t need to be forced to behave well by some external agency. Nor do they need to share the altruistic leanings of Dr Jekyll. A society of selfish Mr Hydes can be just as successful in coordinating their behaviour on a cooperative outcome, because any such outcome is available as a Nash equilibrium in the repeated game. Nobody can profit by cheating, because the strategies required by the Nash equilibrium call on the other players to punish anyone who deviates. Or to say the same thing another way, our ancestors needed no police force to enforce their good behaviour, because they policed each other.

The folk theorem allows us to use Figure 4 as a representation of the repeated game of life played by an ancestral hunter-gather group. If the state of nature represents the outcome of one Nash equilibrium of the game, then any outcome in the shaded set that everybody in the group prefers to the state of nature is also a Nash equilibrium outcome of the repeated game—and therefore available as an alternative solution to their equilibrium selection problem.

Leadership? Modern societies mostly resolve their equilibrium selection problems by delegating the choice of equilibria to leaders at various levels. However, if the foraging societies studied in modern times are any guide, protohuman foraging societies had no leaders. I shan’t repeat my speculations on why such an anarchic a form of social organization should have conferred an evolutionary advantage as compared with the dominance hierarchies that are the norm among the species of great apes (Binmore [10, p.135]), but simply accept that the leadership solution to the equilibrium selection problem was unavailable to our foraging ancestors. So how did they solve their equilibrium selection problems? In particular, how did they decide who should get how much meat after a successful cooperative hunt?

Fairness. A social species that doesn’t have leaders to nominate an equilibrium in a society’s game of life must use some other equilibrium selection device. In the case of our own species, the device that evolved was fairness. If some other social norm had evolved to solve the equilibrium selection problem, philosophers who believe in moral absolutes would nowadays be singing the virtues of the properties of this other norm rather than the properties of the norm that actually did evolve. But what are these properties? How do our fairness norms work?
4 An Origin for the Golden Rule?

Westermarck was notorious as an unrepentant moral relativist, but even he recognized that the Golden Rule—do as you would be done by—seems to be universal in human societies. Is there any reason why evolution should have written such a principle into our genes? If the Golden Rule is understood as a simplified version of the device of the original position, I think an answer to this question can be found by asking why social animals evolved in the first place. This is generally thought to have been because food-sharing has survival value.

The original position. John Rawls [35] made the original position famous in his celebrated *Theory of Justice*. John Harsanyi [19] independently invented the original position at around the same time. Both give credit to earlier scholars who toyed with the same idea.

Rawls uses the original position as a hypothetical standpoint from which to make judgments about how a just society would be organized. Members of a society are asked to envisage the social contract to which they would agree if their current roles were concealed from them behind a “veil of ignorance”. Behind this veil of ignorance, the distribution of advantage in the planned society would seem as though determined by a lottery. Devil take the hindmost then becomes an unattractive principle for those bargaining in the original position, since you yourself might end up with the lottery ticket that assigns you to the rear.

Rawls defends the device of the original position as an operationalization of Immanuel Kant’s categorical imperative, but I think this is just window-dressing. The idea certainly hits the spot with most people when they hear it for the first time, but I don’t believe this is because they have a natural bent for metaphysics. I think it is because they recognize the deep structure of the fairness norms that they actually use every day in solving the equilibrium selection problem in the myriads of small coordination games of which daily life largely consists.

Implicit insurance contracts. How and why might the neuronal wiring necessary to operate the original position have evolved? Imagine a time before cooperative hunting had evolved, in which Adam and Eve foraged separately for food. They would sometimes come home lucky and sometimes unlucky. An insurance pact between them would specify how to share the available food on days when one was lucky and the other unlucky.

If Adam and Eve were rational players negotiating an insurance contract, they wouldn’t know in advance who was going to be lucky and who unlucky on any given day on which the contract would be invoked. They could then be seen as bargaining behind a veil of uncertainty that conceals who is going to turn out to be Ms. Lucky or Mr. Unlucky. Both players then bargain on the assumption that they are as likely to end up holding the share assigned to Mr. Unlucky as they are to end up holding the share assigned to Ms. Lucky.
In the original position, Adam and Eve are no longer uncertain about whether they will turn out to be Ms. Lucky or Mr. Unlucky. The setup requires instead that they put themselves in the positions of two new players who behave as though they are uncertain whether they will turn out to be Adam and Eve. That is to say, they must imagine themselves in the shoes of somebody else—either Adam or Eve—rather than in the shoes of one of their own possible future selves. Space does not allow me to expand on the parallels between the two situations, but I hope it is clear that if Nature wired us up to solve the simple insurance problems that arise in food-sharing, then she also simultaneously provided much of the wiring necessary to operate the original position.

5 Utilitarianism or Egalitarianism?

In analyzing the bargaining problem faced by Adam and Eve behind the veil of ignorance, Rawls was led to an egalitarian outcome. Harsanyi argued that the outcome would be utilitarian. Who was right? With the assumptions they both made, I think the answer is Harsanyi. Rawls finds his way to an egalitarian conclusion only by the iconclastic expedient of denying orthodox decision theory. However, I think that it was Rawls who had the better intuition.

Both Harsanyi and Rawls assume that the existence of some external enforcement agency that polices the hypothetical deal reached by Adam and Eve in the original position. Harsanyi's invents an enforcement agency called “moral commitment”. Rawls' agency is called “natural duty”. But a naturalist like myself has little patience with such metaphysical fancies. If we accept that any potential policemen must themselves be players in the game of life, any social norm must necessarily be self-policing on order to survive. That is to say, it must coordinate our behaviour on a Nash equilibrium of the game.

If we give up the idea of external enforcement altogether, and insist that all aspects of the original position must be self-policing, I prove that the final outcome of rational bargaining in the original position must be egalitarian in the sense illustrated in Figure 4 (Binmore [9]). The proof simply consists of applying the Nash bargaining solution⁵ to the problem faced by Adam and Eve in the original position, and following the logic wherever it goes.

Interpersonal comparison. The egalitarian result is consistent with Aristotle’s intuition that “what is just is what is proportional”. There is psychological evidence that laboratory subjects also see things this way.⁶ But what is proportional to what?

⁵The Nash bargaining solution has no virtues as a fairness norm. It was invented to predict the result of bargaining between Adam and Eve when they exploit whatever bargaining power they have at their disposal.

⁶See, for example, Adams et al [1, 2, 3] Austin and Hatfield [4], Austin and Walster [5], Baron [7], Cohen and Greenberg [12], Furby [16], Homans [22], Mellers [31], Mellers and Baron [32], Messick and Cook [33], Pritchard [34], Wagstaff et al [42, 43, 45, 44], Walster et al [46, 47, 48].
This question raises the issue of interpersonal comparison. At what rate do Adam’s utils get traded off against Eve’s utils? Answering this question is my main contribution to the debate, but all I can say here is that my theory assumes that the appropriate standard of interpersonal comparison is determined by cultural evolution, and so depends on the history of experience of a particular society. For example, my theory suggests that it will always be regarded as fair for a person with high social status to get a smaller share than a less exalted individual, but the exact amount by which their shares differ will depend on the cultural idiosyncracies of the society in which they live.

6 Moral Relativism

My theory is analogous to current beliefs about the nature of language. The original position corresponds to Chomsky’s deep structure of language. If I am right, this deep structure of fairness is written in our genes, and hence is universal in the human species. However, critics prefer to focus on the that fact that the appropriate standard of interpersonal comparison varies with the culture in which a fairness norm operates—just as the details of the particular language we learn depend on the culture in which we were brought up.

My theory of fairness is an attempt at a descriptive theory; it seeks to explain how and why fairness norms evolved. Karl Marx might respond that it is all very well seeking to understand society, but the point is to change it, and I don’t disagree. I hope very much that the scientific study of how societies really work will eventually make the world a better place for our children’s children to live in, by clarifying what kind of reforms are compatible with human nature, and which are doomed to fail because they aren’t.

As an example, consider the pragmatic suggestion that we might seek to adapt the fairness norms that we use on a daily basis for settling small-scale coordinating problems to large-scale problems of social reform. This is one of the few things I have to say that traditional moralists find halfway acceptable. But they want to run with this idea without first thinking hard about the realities of the way that fairness norms are actually used in solving small-scale problems. In particular, they are unwilling to face up to the fact that fairness norms didn’t evolve as a substitute for the exercise of power, but as a means of coordinating on one of the many ways of balancing power.

This refusal to engage with reality becomes manifest when traditionalists start telling everybody how they “ought” to make interpersonal comparisons when employing the device of the original position. But if I am right that the standards of interpersonal comparison we actually use as inputs when making small-scale fairness judgments are culturally determined, then these attitudes will necessarily reflect the underlying power structure of a society. One might wish, for whatever reason, that these attitudes were different. But the peddling of metaphysical arguments about what would be regarded as fair in some invented ideal world can only muddy the
waters for practical reformers who actually have some hope of reaching peoples' hearts. Nobody is going to consent to a reform on fairness grounds if the resulting distribution of costs and benefits seems to them unfair according to established habit and custom, whatever may be preached from the pulpit.

This pragmatic attitude mystifies traditional moralists, who pretend not to understand how a naturalist like myself can talk about optimality at all. How do I know what is best for society? From whence do I derive my moral authority? Where are my equivalents of the burning bush and the tablets of stone?

The answer is that I have no absolute source of moral authority to which to appeal—but nor does anyone else. I know that my aspirations for what seems a better society are just accidents of my personal history, and that of the culture in which I grew up. If my life had gone differently or if I had been brought up in another culture, I would have different aspirations. But I nevertheless have the aspirations that I have—and so does everyone else.

The only difference between naturalists and traditionalists on this score is that naturalists don’t try to force their aspirations on others by appealing to some invented source of absolute authority. The reality is that if enough people with similar aspirations—benign or otherwise—are sufficiently close to the levers of power, they shift the social contract because that is what they want to do. As General Napier said when asked to tolerate the Hindu practice of suttee:

You say that it is your custom to burn widows. Very well. We also have a custom: when men burn a woman alive, we tie a rope around their necks and we hang them. Build your funeral pyre; beside it, my carpenters will build a gallows. You may follow your custom. And then we will follow ours.

References


