For most companies today, the only truly sustainable advantage comes from out-innovating the competition.

Successful businesses are those that evolve rapidly and effectively. Yet innovative businesses can't evolve in a vacuum. They must attract resources of all sorts, drawing in capital, partners, suppliers, and customers to create cooperative networks.

Much has been written about such networks, under the rubric of strategic alliances, virtual organizations, and the like. But these frameworks provide little systematic assistance for managers who seek to understand the underlying strategic logic of change. Even fewer of these theories help executives anticipate the managerial challenges of nurturing the complex business communities that bring innovations to market.

How is it that a company can create an entirely new business community -- like IBM in personal computers -- and then lose control and profitability in that same business? Is there a stable structure of community leadership that matches fast-changing conditions? And how can companies develop leadership that successfully adapts to continual waves of innovation and change? These questions remain unanswered because most managers still frame the problem in the old way: companies go head-to-head in an industry, battling for market share. But events of the last decade, particularly in high-technology businesses, amply illustrate the limits of that understanding.

In essence, executives must develop new ideas and tools for strategizing, tools for making tough choices when it comes to innovations, business alliances, and leadership of customers and suppliers. Anthropologist Gregory Bateson's definition of co-evolution in both natural and social systems provides a useful starting place. In his book Mind and Nature, Bateson describes co-evolution as a process in which interdependent species evolve in an endless reciprocal cycle -- in which "changes in species A set the stage for
the natural selection of changes in species B" --and vice versa. Consider predators and their prey, for instance, or flowering plants and their pollinators.

Another insight comes from biologist Stephen Jay Gould, who has observed that natural ecosystems sometimes collapse when environmental conditions change too radically. Dominant combinations of species may lose their leadership. New ecosystems then establish themselves, often with previously marginal plants and animals at the center. For current businesses dealing with the challenges of innovation, there are clear parallels and profound implications.

To extend a systematic approach to strategy, I suggest that a company be viewed not as a member of a single industry but as part of a business ecosystem that crosses a variety of industries. In a business ecosystem, companies co-evolve capabilities around a new innovation: they work cooperatively and competitively to support new products, satisfy customer needs, and eventually incorporate the next round of innovations. For example, Apple Computer is the leader of an ecosystem that crosses at least four major industries: personal computers, consumer electronics, information, and communications. The Apple ecosystem encompasses an extended web of suppliers that includes Motorola and Sony and a large number of customers in various market segments.

Apple, IBM, Ford, Wal-Mart, and Merck have all been or still are the leaders of business ecosystems. While the center may shift over time, the role of the leader is valued by the rest of the community. Such leadership enables all ecosystem members to invest toward a shared future in which they anticipate profiting together.

Yet in any larger business environment, several ecosystems may vie for survival and dominance: the IBM and Apple ecosystems in personal computers, for example, or Wal-Mart and Kmart in discount retailing. In fact, it's competition among business ecosystems, not individual companies, that's largely fueling today's industrial transformation. Managers can't afford to ignore the birth of new ecosystems or the competition among those that already exist.

![The Evolutionary Stages of a Business Ecosystem](image-url)

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Whether that means investing in the right new technology, signing on suppliers to expand a growing business, developing crucial elements of value to maintain leadership, or incorporating new innovations to fend off obsolescence, executives must understand the stages that all business ecosystems pass through--and, more important, how to direct the changes.

A business ecosystem, like its biological counterpart, gradually moves from a random collection of elements to a more structured community. Think of a prairie grassland that is succeeded by stands of conifers, which in turn evolve into a more complex forest dominated by hardwoods. Business ecosystems condense out of the original swirl of capital, customer interest, and talent generated by a new innovation, just as successful species spring from the natural resources of sunlight, water, and soil nutrients. Every business ecosystem develops in four distinct stages: birth, expansion, leadership, and self-renewal--or, if not self-renewal, death. In reality, of course, the evolutionary stages blur, and the managerial challenges of one stage often crop up in another. Yet I've observed the four stages in many companies over time, across businesses as diverse as retailing, entertainment, and pharmaceuticals. What remains the same from business to business is the process of co-evolution: the complex interplay between competitive and cooperative business strategies (see the table, "The Evolutionary Stages of a Business Ecosystem").

During Stage 1 of a business ecosystem, entrepreneurs focus on defining what customers want, that is, the value of a proposed new product or service and the best form for delivering it. Victory at the birth stage, in the short term, often goes to those who best define and implement this customer value proposition. Moreover, during Stage 1 of a business ecosystem, it often pays to cooperate. From the leader's standpoint, in particular, business partners help fill out the full package of value for customers. And by attracting important "follower" companies, leaders may stop them from helping other emerging ecosystems.

The rise of the personal computer is a revealing example of ecological business development. In the early 1970s, a new technology--the microprocessor--emerged with the potential to spawn vast new applications and dramatically reduce the cost of computing. Yet this innovation sat dormant for several years. By 1975, hobbyist machines like the Altair and IMSAI had penetrated a narrow market. But these computers were not products that could be used by the average person.

Starting in the late 1970s, Tandy Corporation, Apple, and others introduced early versions of what would eventually become the personal computer. The seed innovation they all chose was the microprocessor, but these first designers also recognized that other products and services had to be created to bring the whole package together. These ranged from hardware components to software to services like distribution and customer support.

Apple and Tandy each had a different strategy for creating a full, rich ecosystem. Apple worked with business partners and talked about "evangelizing" to encourage co-evolution. While the company tightly controlled its basic computer design and operating system software, it encouraged independent software developers to write programs for its machine. Apple also cooperated with independent magazines, computer stores, and training institutions--and even seeded a number of school districts with Apple IIs.
Tandy, on the other hand, took a more vertically integrated approach. It attempted to buy and then own its software, ranging from the operating system to programming languages and applications like word processors. The company controlled sales, service, support and training, and market development by selling exclusively through its Radio Shack stores. At the same time, it discouraged independent magazines devoted to its TRS-80 machines. Therefore, Tandy’s simpler and more tightly controlled ecosystem did not build the excitement, opportunities, and inner rivalries of Apple’s, nor did it harness as much capital and talent through the participation of other companies.

Tandy’s approach got the company out front fast; in 1979, it had sales of $95 million compared with Apple’s $47.9 million. However, Tandy’s tight control of its ecosystem ultimately led to slower growth at a time when establishing market share and a large user base was essential to success. By 1982, Apple’s $583.1 million in sales had decisively passed Tandy’s $466.4 million.

Meanwhile, a third business ecosystem emerged in the early days of personal computing. It never rivaled Apple’s or Tandy’s in size, but it did help IBM enter the fray. This third ecosystem centered around two software companies: Digital Research and Micropro. In 1977, Digital Research made its software operating system CP/M available independent of hardware. That separation allowed almost any small manufacturer to assemble components and put out a usable personal computer. Overnight, a variety of small companies entered the business, building on the same Zilog microprocessor used in the early Tandy machines.

In 1979, Micropro brought out a word processor that ran on CP/M-based machines.

Wordstar was the first truly powerful word processor, and it took an important group of potential PC customers -- writers and editors -- by storm. Demand for CP/M machines soared, fueling the growth if not the fortunes of small companies like Morrow and Kaypro. But during the first stage of any business ecosystem, co-evolving companies must do more than satisfy customers; a leader must also emerge to initiate a process of rapid, ongoing improvement that draws the entire community toward a grander future. In the Apple and Tandy ecosystems, the hardware companies provided such leadership by studying the market, defining new generations of functionality, and orchestrating suppliers and partners to bring improvements to market. In the CP/M ecosystem, however, the hardware companies were bedeviled by rivalry among themselves. Infighting kept down prices and profit margins, and none of the CP/M companies could afford heavy advertising programs.

In Stage 1, established companies like IBM are often better off waiting and watching carefully as a new market sorts itself out. The iterative process of trying out innovative ideas and discovering which solutions are attractive to customers is hard to accomplish in a traditional corporate culture. And the diverse experimentation that thrives in an entrepreneurial scene provides more “genetic diversity” from which the market can ultimately select the fittest offering.

Established companies can subsequently replicate successful ideas and broadcast them across a wider market. In other words, they can enter the market at Stage 2 by appropriating the developmental work of others. Meanwhile, original ecosystems that succeed, like Apple’s, do so by consciously nurturing a full community of partners and suppliers right from the start.
In Stage 2, business ecosystems expand to conquer broad new territories. Just as grasses and weeds rapidly cover the bare, scorched ground left after a forest fire, some business expansions meet little resistance. But in other cases, rival ecosystems may be closely matched and choose to attack the same territory. Direct battles for market share break out. Fighting can get ugly as each ecosystem tries to exert pressure on suppliers and customers to join up.

In the end, one business ecosystem may triumph, or rival ecosystems may reach semistable accommodations. Think of a hardwood forest that borders a grassland. The zone of conflict at the boundary may shift from year to year, but it never completely wipes out either ecosystem.

In general, two conditions are necessary for Stage 2 expansion: (1) a business concept that a large number of customers will value; and (2) the potential to scale up the concept to reach this broad market. During the expansion stage, established companies can exercise enormous power in marketing and sales, as well as in the management of large-scale production and distribution, literally crushing smaller ecosystems in the process.

IBM, for example, entered the personal computer business in 1981. In contrast to its own history and culture of vertical integration, IBM followed and extended the Apple model of building a community of supporters. IBM took on partners and opened its computer architecture to outside suppliers. Moreover, it adopted a microprocessor from Intel that incorporated all of the instructions available in the Zilog microprocessor in Tandy and CP/M machines. And IBM licensed MS-DOS, a software operating system from then tiny Microsoft, which was almost a near clone of CP/M. As a result, Wordstar and other popular application programs could easily be ported over to the IBM PC.

One of the most important managerial challenges in Stage 2 is to stimulate market demand without greatly exceeding your ability to meet it. IBM certainly stimulated demand for its new machine through a combination of heavy brand advertising, distribution through Sears and other channels, and building its own network of specialty stores. By anyone's measure, IBM's approach to expanding its PC ecosystem was a major success. Its personal computing business grew from $500 million in 1982 to $5.65 billion by 1986, and IBM's ecosystem rapidly dominated the market.

However, IBM also generated much more demand than it could meet. The company maintained high prices, which encouraged others to enter the market by setting a high price umbrella under which they could thrive. Compaq, for example, became the fastest company to join the Fortune "500" based on supplying machines to meet demand in the IBM ecosystem.

IBM did its best to keep up with demand. In the early 1980s, it invested directly in several key suppliers to help it grow fast enough to meet the market. Intel, for example, received $250 million from IBM in 1983. Concerned about its image as an insensitive behemoth, as well as possible antitrust objections, IBM managers carefully assured these suppliers that the help came without any strings attached.

IBM's relationships with suppliers were basically nonexclusive. Obviously, suppliers like Intel, Microsoft, and Lotus were happy to help the success of Compaq and others because it allowed them to diversify the risk of overdependence on IBM. For its part, IBM was flush with more demand and success than it knew what to do with. Top managers didn't focus on slowing the development of clone makers and nonexclusive suppliers -- or keeping
crucial elements of value like the microprocessor in-house. At first, IBM didn't attack new competitors within its ecosystem through the courts, through special promotions, or by lowering its own prices.

However clear the threat from the rest of the pack appears to us now, at the time, IBM and its business partners were pleased. By 1986, the combined revenues of companies in the IBM ecosystem were approximately $12 billion, dwarfing the Apple ecosystem's revenues of approximately $2 billion. IBM's leadership also forced Tandy and essentially every other non-Apple maker of personal computers to dump their proprietary designs and offer IBM PC compatibles.

In contrast with IBM, the story of Wal-Mart's retailing ecosystem shows how top management can take the right precautions when a business is expanding (see the insert "The Evolution of Wal-Mart: Savvy Expansion and Leadership"). In general, Stage 2 rewards fast expansion that squeezes competing ecosystems to the margin. But managers must also prepare for future leadership and leverage in the next stage. To do so, companies need to maintain careful control of customer relationships and core centers of value and innovation. Moreover, they must develop relationships with their suppliers that constrain these followers from becoming leaders in Stage 3.

While the lion and antelope are both part of a healthy savanna ecosystem, they also struggle with each other to determine to what extent each species expands within it. Similarly, in business ecosystems, two conditions contribute to the onset of the leadership struggles that are the hallmark of Stage 3. First, the ecosystem must have strong enough growth and profitability to be considered worth fighting over. Second, the structure of the value-adding components and processes that are central to the business ecosystem must become reasonably stable.

This stability allows suppliers to target particular elements of value and to compete in contributing them. It encourages members of the ecosystem to consider expanding by taking over activities from those closest to them in the value chain. Most of all, it diminishes the dependence of the whole ecosystem on the original leader. It's in Stage 3 that companies become preoccupied with standards, interfaces, "the modular organization," and customer-supplier relations.

For example, by the mid-1980s, the IBM PC technical architecture defined the de facto business structure for the personal computer business as a whole. Virtually any company could figure out how to make components and services that would dovetail effectively with other elements of the PC ecosystem. Of course, this was a mixed blessing for IBM. The openness of its computer architecture encouraged third parties to support it, dramatically accelerating the ecosystem's growth. Yet this same openness decreased the dependence of suppliers on IBM's leadership, laying the foundations for Stage 3 "clone wars."

Lotus, Intel, Microsoft, and other suppliers started working together to determine common standards for hardware and software, with and without IBM's involvement. Other ecosystem members welcomed this new leadership since it seemed fairer to suppliers and more innovative than IBM's.

Belatedly, IBM sought to enforce its patents against clone makers, seeking licenses from major players -- one of the many strategies that failed. A grim milestone of sorts was achieved in 1989 when clone shipments and product shipments from other smaller companies bypassed those of major personal computer manufacturers. Thus IBM was
relegated to competing head-on with myriad "box makers." IBM still retained a large share of the market but only through offering extensive discounts to large volume purchasers. Which brings us to the new structure of today's "Microsoft-Intel" ecosystem: Microsoft, with gross margins estimated at 80%; Intel, with gross margins of 40% and 50% on its new chips; and IBM's PC business with margins of about 30%, a far cry from the 70% to 90% margins in its mainframe business.

In Stage 3, bargaining power comes from having something the ecosystem needs and being the only practical source. Sometimes this sole-source status can be established contractually or through patent protection. But fundamentally, it depends on constant innovation -- on creating value that is critical to the whole ecosystem's continued price/performance improvement. During expansion, IBM didn't find a way to keep innovating or even to achieve economies of scale. Power shifted to chips and software, areas in which IBM did not excel.

Now both Intel and Microsoft have bargaining power through control of a critical component. Each is a strong leader and plays the role of central ecological contributor. Central contributors maintain the much-coveted chokehold within a business ecosystem. In short, other members can't live without them. This central position enables them to bargain for a higher share of the total value produced by the ecosystem. For example, Intel and Microsoft have gross margins that are almost double the average for their whole ecosystem.

Central contributor status is maintained in part by the investments others have made in being followers. Hardware and software vendors have made heavy investments in Microsoft operating systems and in applications that work with Intel chips. Switching to other vendors would be risky and expensive; if possible, other co-evolving companies don't want the burden of learning how to work with a new leader.

In addition, central companies reinforce their roles by making important innovative contributions to the performance of the ecosystem as a whole. Intel, for instance, has enormous scale advantages in the fabrication of microprocessors. Its chip volumes allow it to work out fabrication-process advances sooner than other chip vendors. Ironically, IBM held a license to manufacture Intel-designed microprocessors. With its large volumes during the expansion stage, IBM could have been the one taking the fabrication and price/performance lead in chips -- and it could have denied Intel the scale to keep up.

Finally, followers value a central contributor because of its grip on customers. End users are drawn to Microsoft operating systems and Intel chips because so many software applications are available for them. In turn, developers keep turning out such applications because they know Microsoft and Intel are customer gateways.

To some extent, these two companies achieved their current central position by being in the right place at the right time -- that is, by serving IBM. Intel and Microsoft clearly appreciate what they have now and are working effectively to maintain their central contributions. Still, some companies like Wal-Mart have systematically gone about building a strong ecosystem, one that guarantees a leading role for themselves.

In any case, for dominant companies, the expansion and leadership stages of an ecosystem can make or break them. In Stage 3, lead producers must extend control by continuing to shape future directions and the investments of key customers and suppliers.
And for healthy profits, any company in the ecosystem -- leader or follower -- must maintain bargaining power over other members.

Stage 4 of a business ecosystem occurs when mature business communities are threatened by rising new ecosystems and innovations. Alternatively, a community might undergo the equivalent of an earthquake: sudden new environmental conditions that include changes in government regulations, customer buying patterns, or macroeconomic conditions. Moreover, these two factors reinforce each other. An altered environment is often more hospitable to new or formerly marginal business ecosystems.

In fact, how a dominant company deals with the threat of obsolescence is the ultimate challenge. Just because Microsoft and Intel are leaders now doesn't mean their current ecosystem is immortal. Nor does it mean that Microsoft NT ("New Technology" operating software) will form the basis for its successor. After all, Novell and UNIX Systems Laboratories have merged and will put forth a new generation of software, looking to strengthen a new ecosystem. Both Hewlett-Packard and Sun Microsystems remain strongly entrenched. And Motorola is now manufacturing a new generation microprocessor to be sold by both IBM and Apple, along with a jointly developed new software operating system.

Leading successive generations of innovation is clearly crucial to an ecosystem's long-term success and its ability to renew itself. Today's pharmaceutical companies provide some interesting insights into three general approaches to self-renewal, which can be used alone or in combination: (1) dominant companies can seek to slow the growth of a new ecosystem; (2) they can try to incorporate new innovations into their own ecosystems; or (3) they can fundamentally restructure themselves to try coping with a new reality.

During the past few decades, pharmaceutical companies have operated under a relatively consistent, if largely implicit, social compact with government regulators. In exchange for investing heavily in product and process innovation, drug companies have been allowed comparatively high margins and protection from competition through patent laws and lengthy approval processes. Traditional pharmaceutical ecosystems, therefore, have evolved around three major functions: R&D, testing and approval management, and marketing and sales. Each of these functions is expensive, hard to perfect, and thus presents a barrier to new competitors. In the past, these functions were carried out within large, vertically integrated companies that did not, until recently, consider themselves networked organizations.

In the 1980s, generic drug manufacturers that specialized in producing off-patent drugs posed a threat to the established pharmaceutical houses. The dominant companies responded by blocking these rival ecosystems in order to minimize their expansion. This included lobbying to slow generic-drug enabling legislation and to reinforce the natural conservatism of the U.S. Food and Drug Administration. Well-funded marketing and sales efforts convinced thousands of individual physicians to continue prescribing mostly branded drugs. While the generic drug manufacturers were able to establish alternative ecosystems, their penetration of the market has been held to about 30%, with little price cutting by the dominant companies.

Meanwhile, a variety of small biotechnology start-ups posed an even greater threat to the traditional pharmaceutical powerhouses. In general, biotech researchers concentrate on isolating complex substances that already exist in the human body and finding ways to manufacture them -- for example, human insulin and human growth hormone. As many as one biotech try in ten may prove successful, which keeps the R&D cost down to between
$100 million and $150 million per marketable product. Compare this with the traditional pharmaceutical average of 10,000 chemical tries to identify one marketable drug -- and R&D costs of $250 million to $350 million per product.

Many of the founders of and investors in biotechnology start-ups believed that low R&D costs would provide the basis for creating whole new business ecosystems that could compete with the established drug companies. For example, Genentech, one of the pioneering biotech companies, clearly intended to establish itself as a full competitor. By the mid-1980s, Genentech had five products in the market and was marketing three itself. It licensed its first two products: alpha-interferon to Hoffmann-La Roche and insulin to Eli Lilly. Using the cash from these licenses, Genentech sought to manufacture and market human growth hormone and tissue plasminogen activator on its own. Yet in 1990, 60% of Genentech was sold to Hoffmann-La Roche for $2.1 billion. A similar fate has befallen almost all of the original biotech companies.

In essence, these companies misjudged the difficulties of mastering the testing and approval process. The first biotech managers bet on the assumption that testing and approval would, like R&D, be less expensive and problematic than it was for their traditional competitors. Since biotech products were existing molecules already resident in the human body, these products would presumably require much less testing than synthetic chemical compounds. However, the FDA approval process in the United States, which grants access to the most important market worldwide, has not borne this out. From 1981 to 1991, only 12 biotech products were approved for general marketing.

Strapped for cash and unable to raise much more from their original investors, most biotech companies ended the 1980s in no position to lead their own business ecosystems. Biotech managers and investors were attracted to alliances with traditional companies and thus merged new business ecosystems with powerful existing ones. In turn, dominant companies like Merck, Eli Lilly, and Bristol-Myers began to think like business ecosystem builders. In order to snap up licenses, patents, and talent to strengthen their own R&D, these companies affiliated themselves with the biotech companies rather than simply blocking their new rivals.

Of course, the leaders of a mature business ecosystem sometimes have no choice but to undertake profound structural and cultural changes. Pharmaceutical ecosystems now face new threats and a profoundly altered environment. The social compact to protect drug company profits in exchange for product and process innovation is breaking down. The public, government, and corporations all want health care costs reduced. Drug company leaders see lean times ahead as they confront the possibility of price and profit caps, as well as consolidated purchasing of drugs by HMOs and government agencies.

Responding to this environmental shift will force changes across all major functions. Companies will probably have to limit R&D spending and focus it carefully. Managers are likely to design a testing and approval process that highlights not only efficacy but also cost/benefit performance of new treatments. Finally, companies will probably market and sell less directly to individual physicians, focusing instead on negotiations with experts who represent third-party payers and government.

But despite the difficulties of such a complex business environment, managers can design longevity into an ecosystem. During the expansion and leadership stages, for instance, companies can work hard to micro-segment their markets, creating close, supportive ties
with customers. These customers will then remain committed to a particular ecosystem long enough for its members to incorporate the benefits of new approaches.

And visionary executives like Merck’s Roy Vagelos can sometimes lead an ecosystem so that it rapidly and effectively embraces anticipated developments - be they new technologies, regulatory openings, or consumer trends. Ultimately, there is no substitute for eternal vigilance. As Intel's Andy Grove noted recently, "Only the paranoid survive."

Clearly, pharmaceutical companies -- and any other venture threatened by continual innovations -- can no longer allow their particular ecosystems to evolve without direction. Using an ecological approach, executives can start making strategic changes by systematically questioning their company's current situation: Is the company linked with the very best suppliers and partners? Is the company betting its future on the most promising new ideas? Are suppliers leading the way in commercializing innovation? Over the long run, how will the company maintain sufficient bargaining power and autonomy to guarantee good financial returns?

Examining a company’s key competitors from a business ecological point of view is also important: What hidden web of customer and supplier relationships have competitors worked to develop? Who do they depend on for ideas and supplier support? What are the nature and benefits of those relationships? How do these compare with what the company has?

And to prepare the ground for organizational breakthroughs, managers need to consider how the work of their company might be radically different: What seed innovations might make current businesses obsolete? What would it take to catalyze a cluster of ideas into a new and vital business ecosystem? What type of community would be required to bring these new ideas to the widest possible market?

Asking these questions, let alone acting on the answers, has become a difficult necessity for all companies. Superficially, competition among business ecosystems is a fight for market share. But below the surface, these new competitive struggles are fights over who will direct the future.

Yet it's precisely in the role of conscious direction that a strictly biological metaphor is no longer useful. Business communities, unlike biological communities of co-evolving organisms, are social systems. And social systems are made up of real people who make decisions; the larger patterns are maintained by a complex network of choices, which depend, at least in part, on what participants are aware of. As Gregory Bateson noted, if you change the ideas in a social system, you change the system itself.

I anticipate that as an ecological approach to management becomes more common - as an increasing number of executives become conscious of co-evolution and its consequences -- the pace of business change itself will accelerate. Executives whose horizons are bounded by traditional industry perspectives will find themselves missing the real challenges and opportunities that face their companies. Shareholders and directors, sensing the new reality, will eventually remove them. Or, in light of the latest management shifts, they may have already done so.

Unfortunately for employees and investors, this often occurs only after the companies involved have been deeply damaged. Companies that once dominated their industries, as traditionally defined, have been blindsided by new competition. Whether such companies
can find the appropriate leadership to renew the ecosystems on which their future depends remains an open question. If they cannot, they'll be supplanted by other companies, in other business ecosystems, that will expand and lead over the next few years.

For the individuals caught up in these ecosystem struggles, the stakes are high. As a society, we must find ways of helping members of dying ecosystems get into more vital ones while avoiding the temptation of propping up the failed ecosystems themselves. From an ecological perspective, it matters not which particular ecosystems stay alive; rather, it's only essential that competition among them is fierce and fair -- and that the fittest survive.

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Predator and prey are two of the most important components of any ecosystem. The energy flow takes place through prey and predator interactions. Predator always adapts to maximize its capabilities to kill the prey; on the other hand, prey always adapts and tries to be away from its predators as much as possible via various means. This article aims to discuss the major differences between these wonderful ecological niches. Predators and Prey. Quite the same Wikipedia. Just better. Predators and Prey. From Wikipedia, the free encyclopedia. "Predators and Prey". Cover of Buffy the Vampire Slayer Season Eight: Predators and Prey trade paperback collected edition Art by Jo Chen. Publisher. Dark Horse Comics. A set the stage for the natural selection of changes in species and vice versa. Consider predators and their prey, for instance, or flowering plants and their pollinators. Predators and Prey: A New Ecology of Competition by James F. Moore.