SEPTEMBER-OCTOBER 2018 ISSUE

## **WHY CURIOSITY MATTERS**

NEW RESEARCH SHOWS THAT CURIOSITY IS VITAL TO AN ORGANIZATION'S PERFORMANCE—AS ARE THE PARTICULAR WAYS IN WHICH PEOPLE ARE CURIOUS AND THE EXPERIENCES THEY ARE EXPOSED TO. THIS PACKAGE EXAMINES HOW LEADERS CAN NURTURE CURIOSITY THROUGHOUT THEIR ORGANIZATIONS AND ENSURE THAT IT TRANSLATES TO SUCCESS.



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START WITH: THE BUSINESS CASE FOR CURIOSITY

FROM CURIOUS TO COMPETENT

THE FIVE DIMENSIONS OF CURIOSITY

# The Business Case for Curiosity

by Francesca Gino

Most of the breakthrough discoveries and remarkable inventions throughout history, from flints for starting a fire to self-driving cars, have something in common: They are the result of curiosity. The impulse to seek new information and experiences and explore novel possibilities is a basic human attribute. New research points to three important insights about curiosity as it relates to business. First, curiosity is much more important to an enterprise's performance than was previously thought. That's because cultivating it at all levels helps leaders and their employees adapt to uncertain market conditions and external pressures: When our curiosity is triggered, we think more deeply and rationally about decisions and come up with more-creative solutions. In addition, curiosity allows leaders to gain more respect from their followers and inspires employees to develop more-trusting and more-collaborative relationships with colleagues.

Second, by making small changes to the design of their organizations and the ways they manage their employees, leaders can encourage curiosity—and improve their companies. This is true in every industry and for creative and routine work alike.

Third, although leaders might *say* they treasure inquisitive minds, in fact most stifle curiosity, fearing it will increase risk and inefficiency. In a survey I conducted of r**READ G PIECES INDITAIS** ployees from a wide range of firms and industries, only about 24% reported feeling curious in their jobs on a regular basis, and about 70% said they flave bailties the sking more questions of curiosity

In this article I'll elaborate on the benefits of and common barriers to curiosity in the workplace and then offer five strategies that can help leaders get high returns on investments in employees' curiosity and in their own.

### The Benefits of Curiosity

New research reveals a wide range of benefits for organizations, leaders, and employees.

#### Fewer decision-making errors.

In my research I found that when our curiosity is triggered, we are less likely to fall prey to confirmation bias (looking for information that supports our beliefs rather than for evidence suggesting we are wrong) and to stereotyping people (making broad judgments, such as that women or minorities don't make good leaders). Curiosity has these positive effects because it leads us to generate alternatives.

## More innovation and positive changes in both creative and noncreative jobs.

Consider this example: In a field study INSEAD's Spencer Harrison and colleagues asked artisans selling their goods through an e-commerce website several questions aimed at assessing the curiosity they experience at work. After that, the participants' creativity was measured by the number of items they created and listed over a two-week period. A one-unit increase in curiosity (for instance, a score of 6 rather than 5 on a 7-point scale) was associated with 34% greater creativity.

In a separate study, Harrison and his colleagues focused on call centers, where jobs tend to be highly structured and turnover is generally high. They asked incoming READ 3 PIECES IN THIS
hir PACKAGE Programizations to complete a survey that, among other things, measured their curiosity before they began their new jobs. Four weeks in, the employees were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were start with: The Business FROM CURIOUS TO THE FIVE DIMENSIONS were started by the province of the five Dimensions of the five Dimensions of the FROM CURIOUS TO THE FIVE DIMENSIONS were started by the five Dimensions of the fiv

My own research confirms that encouraging people to be curious generates workplace improvements. For one study I recruited about 200 employees working in various companies and industries. Twice a week for four weeks, half of them received a text message at the start of their workday that read, "What is one topic or activity you are curious about today? What is one thing you usually take for granted that you want to ask about? Please make sure you ask a few 'Why questions' as you engage in your work throughout the day. Please set aside a few minutes to identify how you'll approach your work today with these questions in mind."

The other half (the control group) received a message designed to trigger reflection but not raise their curiosity: "What is one topic or activity you'll engage in today? What is one thing you usually work on or do that you'll also complete today? Please make sure you think about this as you engage in your work throughout the day. Please set aside a few minutes to identify how you'll approach your work today with these questions in mind."

After four weeks, the participants in the first group scored higher than the others on questions assessing their innovative behaviors at work, such as whether they had made constructive suggestions for implementing solutions to pressing organizational problems.

Wh**READ & PIECES IN THIS** we view tough situations more creatively. Studies have found that curiosity is associated with less defensive reactions to stress and less aggressive reactions better when we will be surjourned to stress and less aggressive reactions to stress aggressive reactions aggressive reaction reaction reaction reaction reactions aggressive reaction react

#### Reduced group conflict.

My research found that curiosity encourages members of a group to put themselves in one another's shoes and take an interest in one another's ideas rather than focus only on their own perspective. That causes them to work together more effectively and smoothly: Conflicts are less heated, and groups achieve better results.

#### More-open communication and better team performance.

Working with executives in a leadership program at Harvard Kennedy School, my colleagues and I divided participants into groups of five or six, had some groups participate in a task that heightened their curiosity, and then asked all the groups to engage in a simulation that tracked performance. The groups whose curiosity had been heightened performed better than the control groups because they shared information more openly and listened more carefully.

### **Two Barriers to Curiosity**

Despite the well-established benefits of curiosity, organizations often discourage it. This is not because leaders don't see its value. On the contrary, both leaders and employees understand that curiosity creates positive outcomes for their companies. In the survey of more than 3,000 employees mentioned earlier, 92% credited curious people with bringing new ideas into teams and organizations and viewed curiosity as a catalyst for job satisfaction, motivation, innovation, and high

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Yet executives a case for curiosity competent of curiosity including 3M and Facebook, give employees free time to pursue their interests, but they are rare. And even in such organizations, employees often have challenging short-term performance goals (such as meeting a quarterly sales target or launching a new product by a certain date) that consume the "free time" they could have spent exploring alternative approaches to their work or coming up with innovative ideas.

Two tendencies restrain leaders from encouraging curiosity:

### They have the wrong mindset about exploration.

Leaders often think that letting employees follow their curiosity will lead to a costly mess. In a recent survey I conducted of 520 chief learning officers and chief talent development officers, I found that they often shy away from encouraging curiosity because they believe the company would be harder to manage if people were allowed to explore their own interests. They also believe that disagreements would arise and making and executing decisions would slow down, raising the cost of doing business. Research finds that although people list creativity as a goal, they frequently reject creative ideas when actually presented with them. That's understandable: Exploration often involves questioning the status quo and doesn't always produce useful information. But it also means not settling for the first possible solution—and so it often yields better remedies.

#### They seek efficiency to the detriment of exploration.

In the early 1900s Henry Ford focused all his efforts on one goal: reducing production costs to create a car for the masses. By 1908 he had realized that vision with the introduction of the Model T. Demand grew so high that by 1921 the company was producing 56% of all passenger cars in the United States—a remarkable success made possible primarily by the firm's efficiency-centered model of work. But in the late 1920s, as the U.S. economy rose to new heights, consumers started wanting greater variety in their cars. While Ford remained fix: PACKARE in THIS MODEL TO COMPETERS IN THIS PROMOTERS SUCH as General Motors started producing an array of models and soon captured the main share of the market. FROM CURIOUS TO THE FIVE DIMENSIONS OWING COST TO STORY THE BUSINESS OWING COST TO STORY THE FIVE DIMENSIONS OWING COST TO STORY THE FIVE DIMENSIONS.

When we are curious, we view tough situations more creatively.

These leadership tendencies help explain why our curiosity usually declines the longer we're in a job. In one survey, I asked about 250 people who had recently started working for various companies a series of questions designed to measure curiosity; six months later I administered a follow-up survey. Although initial levels of curiosity varied, after six months everyone's curiosity had dropped, with the average decline exceeding 20%. Because people were under pressure to complete their work quickly, they had little time to ask questions about broad processes or overall goals.

### **Five Ways to Bolster Curiosity**

It takes thought and discipline to stop stifling curiosity and start fostering it. Here are five strategies leaders can employ.

#### 1. Hire for curiosity.

In 2004 an anonymous billboard appeared on Highway 101, in the heart of Silicon Valley, posing this puzzle: "{first 10-digit prime found in consecutive digits of e}.com." The answer, 7427466391.com, led the curious online, where they found another equation to solve. The handful of people who did so were invited to submit a résumé to Google. The company took this unusual approach to finding job candidates because it places a premium on curiosity. (People didn't even need to be engineers!) As Eric Schmidt, Google's CEO from 2001 to 2011, has said, "We run this company on questions, not answers."

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Google also identifies naturally curious people through interview questions such as the SEANTIMIVE YOUR EVERTS and your SEANTIMIVE YOUR END OF CURIOSITY COMPETENT OF CURIOSITY NEVER ENDING YOU'VE COMPETENT OF CURIOSITY OF CURIOSITY NEVER ENDING YOU'VE COMPETENT OF CURIOSITY OF CURIOSITY NEVER ENDING YOU'VE COMPETENT OF CURIOSITY NEVER ENDING YOU'VE COMPETENT OF CURIOSITY NEVER ENDING YOU'VE COMPETENT OF CURIOSITY OF C

IDEO, the design and consulting company, seeks to hire "T-shaped" employees: people with deep skills that allow them to contribute to the creative process (the vertical stroke of the T) and a predisposition for collaboration across disciplines, a quality requiring empathy and curiosity (the horizontal stroke of the T). The firm understands that empathy and curiosity are related: Empathy allows employees to listen thoughtfully and see problems or decisions from another person's perspective, while curiosity extends to interest in other people's disciplines, so much so that one may start to practice them. And it recognizes that most people perform at their best not because they're specialists but because their deep skill is accompanied by an intellectual curiosity that leads them to ask questions, explore, and collaborate.

To identify potential employees who are T-shaped, IDEO pays attention to how candidates talk about past projects. Someone who focuses only on his or her own contributions may lack the breadth to appreciate collaboration. T-shaped candidates are more likely to talk about how they succeeded with the help of others and to express interest in working collaboratively on future projects.

To assess curiosity, employers can also ask candidates about their interests outside of work. Reading books unrelated to one's own field and exploring questions just for the sake of knowing the answers are indications of curiosity. And companies can administer curiosity assessments, which have been validated in a myriad of stu**read Trices and His**y measure whether people explore things they don't know, analyze at to uncover new ideas, read widely beyond their field, have diverse interests outside were linear are excited by departing opportunities. MENSIONS CASE FOR CURIOSITY

It's also important to remember that the questions candidates ask—not just the answers they provide—can signal curiosity. For instance, people who want to know about aspects of the organization that aren't directly related to the job at hand probably have more natural curiosity than people who ask only about the role they would perform.

#### 2. Model inquisitiveness.

Leaders can encourage curiosity throughout their organizations by being inquisitive themselves. In 2000, when Greg Dyke had been named director general of the BBC but hadn't yet assumed the position, he spent five months visiting the BBC's major locations, assembling the staff at each stop. Employees expected a long presentation but instead got a simple question: "What is the one thing I should do to make things better for you?" Dyke would listen carefully and then ask, "What is the one thing I should do to make things better for our viewers and listeners?"

The BBC's employees respected their new boss for taking the time to ask questions and listen. Dyke used their responses to inform his thinking about the changes needed to solve problems facing the BBC and to identify what to work on first. After officially taking the reins, he gave a speech to the staff that reflected what he had learned and showed employees that he had been truly interested in what they said.

By asking questions and genuinely listening to the responses, Dyke modeled the importance of those behaviors. He also highlighted the fact that when we are exploring new terrain, listening is as important as talking: It helps us fill gaps in our knowledge and identify other questions to investigate.

That a preces in this e, but my research shows that we often prefer to talk rather that a precess in this e, but my research shows that we often prefer to talk rather that a precess in the securities of the start rather than ask employees how they can be most helpful. It's bad advice.

Why do we refrain from asking questions? Because we fear we'll be judged incompetent, indecisive, or unintelligent. Plus, time is precious, and we don't want to bother people. Experience and expertise exacerbate the problem: As people climb the organizational ladder, they think they have less to learn. Leaders also tend to believe they're expected to talk and provide answers, not ask questions.

Such fears and beliefs are misplaced, my recent research shows. When we demonstrate curiosity about others by asking questions, people like us *more* and view us as *more* competent, and the heightened trust makes our relationships more interesting and intimate. By asking questions, we promote more-meaningful connections and more-creative outcomes.

Another way leaders can model curiosity is by acknowledging when they don't know the answer; that makes it clear that it's OK to be guided by curiosity. Patricia Fili-Krushel told me that when she joined WebMD Health as chief executive, she met with a group of male engineers in Silicon Valley. They were doubtful that she could add value to their work and, right off the bat, asked what she knew about engineering. Without hesitation, Fili-Krushel made a zero with her fingers. "This is how much I know about engineering," she told them. "However, I do know how to run businesses, and I'm hoping you can teach me what I need to know about your world." When leaders concede that they don't have the answer to a question, they shore and a precision of looking for answers and motivate others to explain well.

START WITH: THE BUSINESS CASE FOR CURIOSITY COMPETENT OF CURIOSITY

New hires at Pixar Animation Studios are often hesitant to question the status quo, given the company's track record of hit movies and the brilliant work of those who have been there for years. To combat that tendency, Ed Catmull, the cofounder and president, makes a point of talking about times when Pixar made bad choices.

Like all other organizations, he says, Pixar is not perfect, and it needs fresh eyes to spot opportunities for improvement (see "How Pixar Fosters Collective Creativity,"

HBR, September 2008). In this way Catmull gives new recruits license to question existing practices. Recognizing the limits of our own knowledge and skills sends a powerful signal to others.

Tenelle Porter, a postdoctoral scholar in psychology at the University of California, Davis, describes intellectual humility as the ability to acknowledge that what we know is sharply limited. As her research demonstrates, higher levels of intellectual humility are associated with a greater willingness to consider views other than our own. People with more intellectual humility also do better in school and at work. Why? When we accept that our own knowledge is finite, we are more apt to see that the world is always changing and that the future will diverge from the present. By embracing this insight, leaders and employees can begin to recognize the power of exploration.

Finally, leaders can model inquisitiveness by approaching the unknown with curiosity rather than judgment. Bob Langer, who heads one of MIT's most productive laboratories, told me recently that this principle guides how he manages his staff. As human beings, we all feel an urge to evaluate others—often not positively. We're quick to judge their ideas, behaviors, and perspectives, even when those relate to things that haven't been tried before. Langer avoids this trap by raising questions about others' ideas, which leads people to think more deeply about their perspective and to remain curious about the tough problems they are tryi**READ 3 PIECES IN THIS** g so, he is modeling behavior that he expects of others in the **PACKAGE** 

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3. Emphasize learning goals.

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When I asked Captain Chesley "Sully" Sullenberger how he was able to land a commercial aircraft safely in the Hudson River, he described his passion for continuous learning. Although commercial flights are almost always routine, every time his plane pushed back from the gate he would remind himself that he needed to be prepared for the unexpected. "What can I learn?" he would think. When the unexpected came to pass, on a cold January day in 2009, Sully was able to ask

himself what he *could* do, given the available options, and come up with a creative solution. He successfully fought the tendency to grasp for the most obvious option (landing at the nearest airport). Especially when under pressure, we narrow in on what immediately seems the best course of action. But those who are passionate about continuous learning contemplate a wide range of options and perspectives. As the accident report shows, Sully carefully considered several alternatives in the 208 seconds between his discovery that the aircraft's engines lacked thrust and his landing of the plane in the Hudson.

It's natural to concentrate on results, especially in the face of tough challenges. But focusing on learning is generally more beneficial to us and our organizations, as some landmark studies show. For example, when U.S. Air Force personnel were given a demanding goal for the number of planes to be landed in a set time frame, their performance *decreased*. Similarly, in a study led by Southern Methodist University's Don VandeWalle, sales professionals who were naturally focused on performance goals, such as meeting their targets and being seen by colleagues as good at their jobs, did worse during a promotion of a product (a piece of medical equipment priced at about \$5,400) than reps who were naturally focused on learning goals, such as exploring how to be a better salesperson. That cost them, because the company awarded a bonus of \$300 for each unit sold.

A body of research demonstrates that framing work around learning goals (de READ 3 PIECES IN-THISCE, acquiring skills, mastering new situations, and so on) rather that performance goals (hitting targets, proving our competence, impressing others): boosts anotivatior competence more case for curiosity competent of curiosity acquire more-diverse skills, do better at work, get higher grades in college, do better on problem-solving tasks, and receive higher ratings after training.

Unfortunately, organizations often prioritize performance goals.

Leaders can help employees adopt a learning mindset by communicating the importance of learning and by rewarding people not only for their performance but for the learning needed to get there. Deloitte took this path: In 2013 it replaced its

performance management system with one that tracks both learning and performance. Employees meet regularly with a coach to discuss their development and learning along with the support they need to continually grow.

Leaders can also stress the value of learning by reacting positively to ideas that may be mediocre in themselves but could be springboards to better ones. Writers and directors at Pixar are trained in a technique called "plussing," which involves building on ideas without using judgmental language. Instead of rejecting a sketch, for example, a director might find a starting point by saying, "I like Woody's eyes, and what if we...?" Someone else might jump in with another "plus." This technique allows people to remain curious, listen actively, respect the ideas of others, and contribute their own. By promoting a process that allows all sorts of ideas to be explored, leaders send a clear message that learning is a key goal even if it doesn't always lead to success.

#### 4. Let employees explore and broaden their interests.

Organizations can foster curiosity by giving employees time and resources to explore their interests. One of my favorite examples comes from my native country. It involves Italy's first typewriter factory, Olivetti, founded in 1908 in the foothills of the Italian Alps. In the 1930s some employees caught a coworker leaving the factory with a bag full of iron pieces and machinery. They accused him of stealing and asked the company to fire him. The worker told the CEO, Adriano Olivetti siphtics which the parts home to work on a new machine over the were required to the control of the case for curiosity of the parts have time while performing his regular job. Instead of firing him. Olivetti save by him time to control the space have the company of curiosity overseeing its production. The result was Divisumma, the first electronic calculator. Divisumma sold well worldwide in the 1950s and 1960s, and Olivetti promoted the worker to technical director. Unlike leaders who would have shown him the door, Olivetti gave him the space to explore his curiosity, with remarkable results.

Some organizations provide resources to support employees' outside interests. Since 1996 the manufacturing conglomerate United Technologies (UTC) has given as much as \$12,000 in tuition annually to any employee seeking a degree part-time—no strings attached. Leaders often don't want to invest in training employees for fear that they will jump to a competitor and take their expensively acquired skills with them. Even though UTC hasn't tried to quantify the benefits of its tuition reimbursement program, Gail Jackson, the vice president of human resources when we spoke, believes in the importance of curious employees. "It's better to train and have them leave than not to train and have them stay," she told me. But according to the Society for Human Resource Management's 2017 employee benefits report, only 44% of organizations provide or support crosstraining to develop skills not directly related to workers' jobs.

Leaders can reward people for learning as well as performance.

Leaders might provide opportunities for employees to travel to unfamiliar locales. When we have chances to expand our interests, research has found, we not only remain curious but also become more confident about what we can accomplish and more successful at work. Employees can "travel" to other roles and areas of the organization to gain a broader perspective. At Pixar, employees across the organization can provide "notes"—questions and advice—that help directors consider all sorts of possibilities for the movies they are working on.

Employees GREAT WITH: THE BUSINESS Employees GREAT Proaden their integrations broadening their open contents. Curious people often end up being star performers thanks to their diverse networks, my research with the University of Toronto's Tiziana Casciaro, Bill McEvily, and Evelyn Zhang finds. Because they're more comfortable than others asking questions, such people more easily create and nurture ties at work—and those ties are critical to their career development and success. The organization benefits when employees are connected to people who can help them with challenges and

motivate them to go the extra mile. MIT's Bob Langer works to raise curiosity in his students by introducing them to experts in his network. Similarly, by connecting people across organizational departments and units, leaders can encourage employees to be curious about their colleagues' work and ways of doing business.

Deliberate thinking about workspaces can broaden networks and encourage the cross-pollination of ideas. In the 1990s, when Pixar was designing a new home for itself in Emeryville, across the bay from San Francisco, the initial plans called for a separate building for each department. But then-owner Steve Jobs had concerns about isolating the various departments and decided to build a single structure with a large atrium in the center, containing employee mailboxes, a café, a gift shop, and screening rooms. Forcing employees to interact, he reasoned, would expose them to one another's work and ideas.

Leaders can also boost employees' curiosity by carefully designing their teams. Consider Massimo Bottura, the owner of Osteria Francescana, a three-Michelinstar restaurant in Modena, Italy, that was rated the Best Restaurant in the World in 2016 and 2018. His sous chefs are Davide di Fabio, from Italy, and Kondo Takahiko, from Japan. The two differ not only in their origins but also in their strengths: Di Fabio is more comfortable with improvisation, while Takahiko is obsessed with precision. Such "collisions" make the kitchen more innovative, Bottura believes, and inspire curiosity in other workers.

## **READ 3 PIECES IN THIS**5. **HACKAGE**Why?" "What if...?" and "How might we...?" days.

The inspiration for the Relatoid instant competent could be processed, she wondered aloud, "Why do we have to wait for the picture?"

As every parent knows, *Why?* is ubiquitous in the vocabulary of young children, who have an insatiable need to understand the world around them. They aren't afraid to ask questions, and they don't worry about whether others believe they

should already know the answers. But as children grow older, self-consciousness creeps in, along with the desire to appear confident and demonstrate expertise. By the time we're adults, we often suppress our curiosity.

Leaders can help draw out our innate curiosity. One company I visited asked all employees for "What if...?" and "How might we...?" questions about the firm's goals and plans. They came up with all sorts of things, which were discussed and evaluated. As a concrete sign that questioning was supported and rewarded, the best questions were displayed on banners hung on the walls. Some of the questions led employees to suggest ideas for how to work more effectively. (For more on the importance of asking good questions before seeking solutions, see "Better Brainstorming," HBR, March-April 2018.)

In one study, my colleagues and I asked adults working in a wide range of jobs and industries to read one of two sets of materials on three organizational elements: goals, roles, and how organizations as a whole work together. For half the workers, the information was presented as the "grow method"—our version of a control condition. We encouraged that group to view those elements as immutable, and we stressed the importance of following existing processes that managers had already defined. For the other half, the information was presented as the "go back method." We encouraged those employees to see the elements as fluid and to "go back" and rethink them. A week later we found that the workers who'd read about the **READIS-PECISIMPAIS** howed more creativity in tasks than the workers in the "growther od" group. They were more open to others' ideas and worked more

effectively with the businesser.

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To encourage curiosity, leaders should also teach employees how to ask good questions. Bob Langer has said he wants to "help people make the transition from giving good answers to asking good questions" (see "The Edison of Medicine," HBR, March-April 2017). He also tells his students that they could change the world, thus boosting the curiosity they need to tackle challenging problems.

Organizing "Why?" days, when employees are encouraged to ask that question if facing a challenge, can go a long way toward fostering curiosity. Intellectual Ventures, a company that generates inventions and buys and licenses patents, organizes "invention sessions" in which people from different disciplines, backgrounds, and levels of expertise come together to discuss potential solutions to tough problems, which helps them consider issues from various angles (see "Funding Eureka!" HBR, March 2010). Similarly, under Toyota's 5 Whys approach, employees are asked to investigate problems by asking Why? After coming up with an answer, they are to ask why that's the case, and so on until they have asked the question five times. This mindset can help employees innovate by challenging existing perspectives.

#### CONCLUSION

In most organizations, leaders and employees alike receive the implicit message that asking questions is an unwanted challenge to authority. They are trained to focus on their work without looking closely at the process or their overall goals. But maintaining a sense of wonder is crucial to creativity and innovation. The most effective leaders look for ways to nurture their employees' curiosity to fuel learning and discovery.

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## From Curious to Competent

by Claudio Fernández-Aráoz, Andrew Roscoe, and Kentaro Aramaki

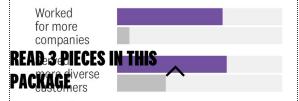
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or 30 years our executive search firm has been in the business of assessing leaders along two broad dimensions: potential and competence. One key conclusion? You can't have either without curiosity.

### Experiences That Transform Curiosity into Competence

Consider 20 leaders, all rated as extraordinarily curious. Ten leveraged that into high competence scores (represented by purple bars); 10 did not (gray bars). What made the difference? The extent to which they were given the opportunities below.

#### The top 10 had:



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Although we have found that high potentials also need insight, engagement, and determination, curiosity—defined as a penchant for seeking new experiences, knowledge, and feedback and an openness to change—is perhaps most important. In fact, in analyzing exactly how leaders develop, we've found that curiosity—which we assess on a four-point scale, from emerging to extraordinary, using interviews and reference checks—is the best predictor of strength in *all seven* of the

orientation, collaboration and influence, team leadership, developing organizational capabilities, change leadership, and market understanding).

We've also found that executives with extraordinary curiosity are usually able, with the right development, to

advance to C-level roles. However, that development is critical. Although a strong positive correlation exists between curiosity and competence, there is a significant spread—and a highly curious executive may score much lower on competence than less curious counterparts.

How can organizations help people make the leap from curious to competent? Studying our global database of information on executives' backgrounds, experiences, potential, and competence, we came up with an answer: by providing the right types of stretch assignments and job rotations.

## The CuriosityCompetence Link Across Six National Cultures

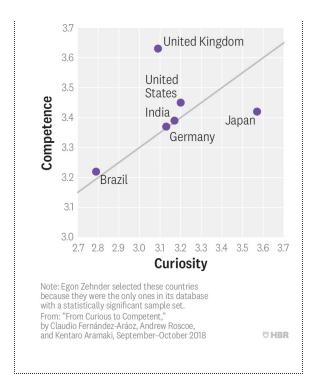
In many countries, executives' average scores on curiosity (measured on a scale of one to four) and competence (one to seven) come in at similar levels. But Japan and the UK are outliers. In the former, high curiosity does

**READO PIECES IN THIS** mpetence. In the **PACKAGE**, low curiosity does not stop

Leaders from being highly START WITH: THE BUSINESS FROM CURIDWARD CONTROL OF CURIOSITY OF CURIOSITY been exposed to more diverse UK) big job moves may be one customers, worked abroad or with reason.

Consider the cases of 20 actual general managers. All were rated as extraordinarily curious, yet only half reached the top level of competence; the other half were at the bottom. What separated the two groups was the complexity and breadth of the opportunities they'd been given, as shown in the exhibit "Experiences That Transform Curiosity into Competence." The top 10 executives

been exposed to more diverse customers, worked abroad or with colleagues from other cultures, dealt with more business scenarios (startups, rapid growth, M&A, integration, downsizing, turnarounds), and managed more people. When curious



people are given these experiences, they shine. When they aren't, they either stagnate or jump ship. While most of the low-competence managers had worked for just one company, the outstanding ones had worked for more than three.

Note, too, that although our potential and competence models hold true around the world, not all cultures achieve the same competence return on curiosity, as depicted in the exhibit

"The Curiosity-Competence Link Across Six National Cultures." For example, although the Japanese have lots of curiosity, their competence scores are barely average. The British, by contrast, are less curious but more competent. Why these differences? We believe that Japan's cultural norms limit people's development by rewarding tenure above all and by discouraging big job moves. Meanwhile, British firms embrace company and role changes along with coaching. This is yet more evidence that although curiosity is a necessary ingredient for executive success, in itself it's not enough.

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# The Five Dimensions of Curiosity

by Todd B. Kashdan, David J. Disabato, Fallon R. Goodman, and Carl Naughton

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#### **READ 3 PIECES IN THIS**

CASE FOR CURIOSITY Children aged three to 11 improved their intelligence test scores by 12 points more than their least-curious counterparts did. It increases perseverance, or grit: Merely describing a day when you felt curious has been shown to boost mental and physical energy by 20% more than recounting a time of profound happiness. And curiosity propels us toward deeper engagement, superior

performance, and more-meaningful goals: Psychology students who felt more curious than others during their first class enjoyed lectures more, got higher final grades, and subsequently enrolled in more courses in the discipline.

#### **How Are You Curious?**

Use this scale to indicate the degree to which the following statements describe you: 1. Does not describe me at all. 2. Barely describes me. 3. Somewhat describes me. 4. Neutral. 5. Generally describes me. 6. Mostly describes me. 7. Completely describes me.

Deprivation Sensitivity	scale
Thinking about solutions to difficult conceptual problems can keep me awake at night.	
I can spend hours on a single problem because I just can't rest without knowing the answer.	
I feel frustrated if I can't figure out the solution to a problem, so I work even harder to solve it.	
READ 3 PIECES IN THIS	
PACKAGE entlessly at problems that ried must be solved.	
START WITH: THE BUSINESS It frustrates repropertave all the information I need.	FRO COM
Total	
Joyous Exploration	1
I view challenging situations as an opportunity to grow and learn.	

But another stream of research on curiosity is equally important, in our view. Since the 1950s psychologists have offered competing theories about what makes one person more curious than another. Rather than regard curiosity as a single trait, we can now break it down into five distinct dimensions. Instead of asking, "How curious are you?" we can ask, "How are you curious?"

### **A Brief History**

In the 1950s Daniel Berlyne was one of the first psychologists to offer a comprehensive model of curiosity. He argued that we all seek the sweet spot between two deeply uncomfortable states: understimulation (coping with tasks, people, or situations that lack sufficient novelty, complexity, on CURIOUS TO OF CURIOSITY

overstimulation. To that end we use either what Berlyne called "diversive curiosity" (as when a bored person searches for something—anything—to boost arousal) or what he called "specific curiosity" (as when a hyperstimulated

I am always looking for experiences that challenge how I think about myself and the world. I seek out situations where it is likely that I will have to think in depth about something. I enjoy learning about subjects that are unfamiliar to me. I find it fascinating to learn new information. Total **Social Curiosity** I like to learn about the habits of others. I like finding out why people behave the way they do. When other people are having a conversation, I like to find out what it's about. When around other people, I like listening to their conversations. When people quarrel, I like to know what's going on. Total READS PRECES IN THIS **PACKAGE** The smallest doubt can stop me from seeking out new experiences: CASE FOR CURIOSITY I cannot handle the stress that comes from entering uncertain situations. I find it hard to explore new places when I lack confidence in my abilities.

person tries to understand what's happening in order to reduce arousal to a more manageable level).

Building on Berlyne's insights, in 1994
George Loewenstein, of Carnegie Mellon
University, proposed the "information
gap" theory. He posited that people
become curious upon realizing that they
lack desired knowledge; this creates an
aversive feeling of uncertainty, which
compels them to uncover the missing
information.

But these theories, focused on our inherent desire to reduce tension, don't explain other expressions of curiosity: tourists strolling through a museum, entrepreneurs poring over feedback from beta testing, people engrossed in a book. The University of Rochester's Edward Deci addressed those in the 1970s, arguing that curiosity also reflects our intrinsic motivation "to seek out novelty

FROM CURIOUS TROLLENGES, THE EXECUTE ENGINEERS IN COMPETENT OF CURIOSITY

one's capacities, to explore, and to learn." We use it not just to avoid discomfort but to generate positive experiences.

I cannot function well if I am unsure whether a new experience is safe. It is difficult to concentrate when there is a possibility that I will be taken by surprise. Total **Thrill Seeking** The anxiety of doing something new makes me feel excited and alive. Risk taking is exciting to me. When I have free time, I want to do things that are a little scary. Creating an adventure as I go is much more appealing than a planned adventure. I prefer friends who are excitingly unpredictable.

Scoring instructions: Compute the average score for each dimension (reverse score the items under stress tolerance). By comparing your results with those of a nationally representative sample of people in the United States, you can determine whether you are low,

Total

READE SPIECES DE THIS PACKAGE your scores.



Deprivation Sensitivity low <3.7 medium +/-4.9 high >6.0 Joyous Exploration low <4.1 medium +/-5.2 high >6.3 Social Curiosity low <3.0 medium +/-4.4 high >5.8 In another body of work, the University of Delaware psychologist Marvin Zuckerman spent five decades (from the 1960s to the 2000s) studying sensation seeking, or the willingness to take risks to acquire varied, novel, and intense experiences. And in 2006 the psychologist Britta Renner, of the University of Konstanz, initiated the study of social curiosity, or people's interest in how other individuals think, feel, and behave.

#### The Five-Dimensional Model

Synthesizing this and other important research, and in conjunction with our George Mason colleague Patrick

McKnight, we created a five-dimensional model of curiosity. The first dimension, derived from Berlyne and Loewenstein's work, is deprivation

sensitivity—recognizing a gap in knowledge the filling of which offers relief. This type of curiosity doesn't

FROM CHRICUSTATILY feel THE BIMENSIONS who of CURIOSITY

experience it work relentlessly to solve problems.

The second dimension, influenced by Deci's research, is *joyous*\*exploration—being consumed with

	wonder about the fascinating features of
	the world. This is a pleasurable state;
	people in it seem to possess a joie de

vivre.

The third dimension, stemming from Renner's research, is *social curiosity*—talking, listening, and observing others to learn what they are thinking and doing. Human beings are inherently social animals, and the most effective and efficient way to determine whether someone is friend or foe is to gain information. Some may even snoop, eavesdrop, or gossip to do so.

The fourth dimension, which builds on recent work by Paul Silvia, a psychologist at the University of North Carolina at Greensboro, is *stress tolerance*—a willingness to accept and even harness the anxiety associated with novelty. People lacking this ability see information gaps, experience wonder, and are interested in others but are unlikely to step forward and explore.

The fifth dimension, inspired by Zuckerman, is *thrill seeking*—being willing to take physical, social, and financial risks to acquire varied, complex, and intense experiences. For people with this capacity, the anxiety of confronting novelty is something to be amplified, not reduced.

We **READ 3 PLEGES** WITH Shis model in several ways. With Time Inc. we conducted surveys across the United States to discover which of the dimensions lead to the best of the strongest link with the experience of intense positive emotions. Stress tolerance has the strongest link with satisfying the need to feel competent, autonomous, and that one belongs. Social curiosity has the strongest link with being a kind, generous, modest person.

With Merck KGaA we have explored attitudes toward and expressions of work-related curiosity. In a survey of 3,000 workers in China, Germany, and the United States, we found that 84% believe that curiosity catalyzes new ideas, 74% think it inspires unique, valuable talents, and 63% think it helps one get promoted. In other studies across diverse units and geographies, we have found evidence that four of the dimensions—joyous exploration, deprivation sensitivity, stress tolerance, and social curiosity—improve work outcomes. The latter two seem to be particularly important: Without the ability to tolerate stress, employees are less likely to seek challenges and resources and to voice dissent and are more likely to feel enervated and to disengage. And socially curious employees are better than others at resolving conflicts with colleagues, more likely to receive social support, and more effective at building connections, trust, and commitment on their teams. People or groups high in both dimensions are more innovative and creative.

A monolithic view of curiosity is insufficient to understand how that quality drives success and fulfillment in work and life. To discover and leverage talent and to form groups that are greater than the sum of their parts, a more nuanced approach is needed.



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#### Nina Sunday 4 days ago

Following our curiosity breathes new life into us by taking us down a different path. Like the cat, it's like we have nine adventurous-amazing lives instead of one safe-average one.

REPLY O D O

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