Companies are twisting themselves into knots to empower and challenge their employees. They’re anxious about the sad state of engagement, and rightly so, given the value they’re losing. Consider Gallup’s meta-analysis of decades’ worth of data: It shows that high engagement—defined largely as having a strong connection with one’s work and colleagues, feeling like a real contributor, and enjoying ample chances to learn—consistently leads to positive outcomes for both individuals and organizations. The rewards include higher productivity, better-quality products, and increased profitability.

So it’s clear that creating an employee-centric culture can be good for business. But how do you do that effectively? Culture is typically designed in an ad hoc way around random perks like gourmet meals or “karaoke Fridays,” often in thrall to some psychological fad. And despite the evidence that you can’t buy higher job satisfaction, organizations still use...
golden handcuffs to keep good employees in place. While such efforts might boost workplace happiness in the short term, they fail to have any lasting effect on talent retention or performance.

In my research I’ve found that building a culture of trust is what makes a meaningful difference. Employees in high-trust organizations are more productive, have more energy at work, collaborate better with their colleagues, and stay with their employers longer than people working at low-trust companies. They also suffer less chronic stress and are happier with their lives, and these factors fuel stronger performance.

Leaders understand the stakes—at least in principle. In its 2016 global CEO survey, PwC reported that 55% of CEOs think that a lack of trust is a threat to their organization’s growth. But most have done little to increase trust, mainly because they aren’t sure where to start. In this article I provide a science-based framework that will help them.

About a decade ago, in an effort to understand how company culture affects performance, I began measuring the brain activity of people while they worked. The neuroscience experiments I have run reveal eight ways that leaders can effectively create and manage a culture of trust. I’ll describe those strategies and explain how some organizations are using them to good effect. But first, let’s look at the science behind the framework.

**What’s Happening in the Brain**

Back in 2001 I derived a mathematical relationship between trust and economic performance. Though my paper on this research described the social, legal, and economic environments that cause differences in trust, I couldn’t answer the most basic question: Why do two people trust each other in the first place? Experiments around the world have shown that humans are naturally inclined to trust others—but don’t always. I hypothesized that there must be a neurologic signal that indicates when we should trust someone. So I started a long-term research program to see if that was true.
Experiments show that having a sense of higher purpose stimulates oxytocin production, as does trust. Trust and purpose then mutually reinforce each other, providing a mechanism for extended oxytocin release, which produces happiness.

So, joy on the job comes from doing purpose-driven work with a trusted team. In the nationally representative data set described in the main article, the correlation between (1) trust reinforced by purpose and (2) joy is very high: 0.77. It means that joy can be considered a “sufficient statistic” that reveals how effectively your company’s culture engages employees. To measure this, simply ask, “How much do you enjoy your job on a typical day?”

I knew that in rodents a brain chemical called oxytocin had been shown to signal that another animal was safe to approach. I wondered if that was the case in humans, too. No one had looked into it, so I decided to investigate. To measure trust and its reciprocation (trustworthiness) objectively, my team used a strategic decision task developed by researchers in the lab of Vernon Smith, a Nobel laureate in economics. In our experiment, a participant chooses an amount of money to send to a stranger via computer, knowing that the money will triple in amount and understanding that the recipient may or may not share the spoils. Therein lies the conflict: The recipient can either keep all the cash or be trustworthy and share it with the sender.

To measure oxytocin levels during the exchange, my colleagues and I developed a protocol to draw blood from people’s arms before and immediately after they made decisions to trust others (if they were senders) or to be trustworthy (if they were receivers). Because we didn’t want to influence their behavior, we didn’t tell participants what the study was about, even though there was no way they could consciously control how much oxytocin they produced. We found that the more money people received (denoting greater trust on the part of senders), the more oxytocin their brains produced. And the amount of oxytocin recipients produced predicted how trustworthy—that is, how likely to share the money—they would be.
Since the brain generates messaging chemicals all the time, it was possible we had simply observed random changes in oxytocin. To prove that it causes trust, we safely administered doses of synthetic oxytocin into living human brains (through a nasal spray). Comparing participants who received a real dose with those who received a placebo, we found that giving people 24 IU of synthetic oxytocin more than doubled the amount of money they sent to a stranger. Using a variety of psychological tests, we showed that those receiving oxytocin remained cognitively intact. We also found that they did not take excessive risks in a gambling task, so the increase in trust was not due to neural disinhibition. Oxytocin appeared to do just one thing—reduce the fear of trusting a stranger.

**Compared with people at low-trust companies, people at high-trust companies report:** 74% less stress, 106% more energy at work, 50% higher productivity, 13% fewer sick days, 76% more engagement, 29% more satisfaction with their lives, 40% less burnout.

My group then spent the next 10 years running additional experiments to identify the promoters and inhibitors of oxytocin. This research told us why trust varies across individuals and situations. For example, high stress is a potent oxytocin inhibitor. (Most people intuitively know this: When they are stressed out, they do not interact with others effectively.) We also discovered that oxytocin increases a person’s empathy, a useful trait for social creatures trying to work together. We were starting to develop insights that could be used to design high-trust cultures, but to confirm them, we had to get out of the lab.
So we obtained permission to run experiments at numerous field sites where we measured oxytocin and stress hormones and then assessed employees’ productivity and ability to innovate. This research even took me to the rain forest of Papua New Guinea, where I measured oxytocin in indigenous people to see if the relationship between oxytocin and trust is universal. (It is.) Drawing on all these findings, I created a survey instrument that quantifies trust within organizations by measuring its constituent factors (described in the next section). That survey has allowed me to study several thousand companies and develop a framework for managers.

### How to Manage for Trust

Through the experiments and the surveys, I identified eight management behaviors that foster trust. These behaviors are measurable and can be managed to improve performance.

**Recognize excellence.**

The neuroscience shows that recognition has the largest effect on trust when it occurs immediately after a goal has been met, when it comes from peers, and when it’s tangible, unexpected, personal, and public. Public recognition not only uses the power of the crowd to celebrate successes, but also inspires others to aim for excellence. And it gives top performers a forum for sharing best practices, so others can learn from them.

Barry-Wehmiller Companies, a supplier of manufacturing and technology services, is a high-trust organization that effectively recognizes top performers in the 80 production-automation manufacturers it owns. CEO Bob Chapman and his team started a program in which employees at each plant nominate an outstanding peer annually. The winner is kept secret until announced to everyone, and the facility is closed on the day of the celebration. The chosen employee’s family and close friends are invited to attend (without tipping off the winner), and the entire staff joins them. Plant leaders kick off the ceremony by reading the nominating letters about the winner’s contributions and bring it to a close with a favorite perk—the keys to a sports car the winner gets to drive for a week. Though the recognition isn’t immediate, it is tangible, unexpected, and both personal and public. And by having employees help pick the winners, Barry-Wehmiller gives everyone, not just the
people at the top, a say in what constitutes excellence. All this seems to be working well for the company: It has grown from a single plant in 1987 to a conglomerate that brings in $2.4 billion in annual revenue today.

**Induce “challenge stress.”**

When a manager assigns a team a difficult but achievable job, the moderate stress of the task releases neurochemicals, including oxytocin and adrenocorticotropin, that intensify people’s focus and strengthen social connections. When team members need to work together to reach a goal, brain activity coordinates their behaviors efficiently. But this works only if challenges are attainable and have a concrete end point; vague or impossible goals cause people to give up before they even start. Leaders should check in frequently to assess progress and adjust goals that are too easy or out of reach.

The need for achievability is reinforced by Harvard Business School professor Teresa Amabile’s findings on the power of progress: When Amabile analyzed 12,000 diary entries of employees from a variety of industries, she found that 76% of people reported that their best days involved making progress toward goals.

**Give people discretion in how they do their work.**

Once employees have been trained, allow them, whenever possible, to manage people and execute projects in their own way. Being trusted to figure things out is a big motivator: A 2014 Citigroup and LinkedIn survey found that nearly half of employees would give up a 20% raise for greater control over how they work.

Autonomy also promotes innovation, because different people try different approaches. Oversight and risk management procedures can help minimize negative deviations while people experiment. And postproject debriefs allow teams to share how positive deviations came about so that others can build on their success.

Often, younger or less experienced employees will be your chief innovators, because they’re less constrained by what “usually” works. That’s how progress was made in self-driving cars. After five years and a significant investment by the U.S. government in the big three auto manufacturers, no autonomous military vehicles had been produced.
Changing tack, the Defense Advanced Research Projects Agency offered all comers a large financial prize for a self-driving car that could complete a course in the Mojave Desert in less than 10 hours. Two years later a group of engineering students from Stanford University won the challenge—and $2 million.

Enable job crafting.
When companies trust employees to choose which projects they’ll work on, people focus their energies on what they care about most. As a result, organizations like the Morning Star Company—the largest producer of tomato products in the world—have highly productive colleagues who stay with the company year after year. At Morning Star (a company I’ve worked with), people don’t even have job titles; they self-organize into work groups. Gaming software company Valve gives employees desks on wheels and encourages them to join projects that seem “interesting” and “rewarding.” But they’re still held accountable. Clear expectations are set when employees join a new group, and 360-degree evaluations are done when projects wrap up, so that individual contributions can be measured.

Share information broadly.
Only 40% of employees report that they are well informed about their company’s goals, strategies, and tactics. This uncertainty about the company’s direction leads to chronic stress, which inhibits the release of oxytocin and undermines teamwork. Openness is the antidote. Organizations that share their “flight plans” with employees reduce uncertainty about where they are headed and why. Ongoing communication is key: A 2015 study of 2.5 million manager-led teams in 195 countries found that workforce engagement improved when supervisors had some form of daily communication with direct reports.

Social media optimization company Buffer goes further than most by posting its salary formula online for everyone to see. Want to know what CEO Joel Gascoigne makes? Just look it up. That’s openness.

Intentionally build relationships.
The brain network that oxytocin activates is evolutionarily old. This means that the trust and sociality that oxytocin enables are deeply embedded in our nature. Yet at work we often get the message that we should focus on completing tasks, not on making friends. Neuroscience experiments by my lab show that when people intentionally build social ties at work, their performance improves. A Google study similarly found that managers who “express interest in and concern for team members’ success and personal well-being” outperform others in the quality and quantity of their work.

Yes, even engineers need to socialize. A study of software engineers in Silicon Valley found that those who connected with others and helped them with their projects not only earned the respect and trust of their peers but were also more productive themselves. You can help people build social connections by sponsoring lunches, after-work parties, and team-building activities. It may sound like forced fun, but when people care about one another, they perform better because they don’t want to let their teammates down. Adding a moderate challenge to the mix (white-water rafting counts) will speed up the social-bonding process.

**Facilitate whole-person growth.**
High-trust workplaces help people develop personally as well as professionally. Numerous studies show that acquiring new work skills isn’t enough; if you’re not growing as a human being, your performance will suffer. High-trust companies adopt a growth mindset when developing talent. Some even find that when managers set clear goals, give employees the autonomy to reach them, and provide consistent feedback, the backward-looking annual performance review is no longer necessary. Instead, managers and direct reports can meet more frequently to focus on professional and personal growth. This is the approach taken by Accenture and Adobe Systems. Managers can ask questions like, “Am I helping you get your next job?” to probe professional goals. Assessing personal growth includes discussions about work-life integration, family, and time for recreation and reflection. Investing in the whole person has a powerful effect on engagement and retention.

**Show vulnerability.**
Leaders in high-trust workplaces ask for help from colleagues instead of just telling them to do things. My research team has found that this stimulates oxytocin production in others, increasing their trust and cooperation. Asking for help is a sign of a secure leader—one who engages everyone to reach goals. Jim Whitehurst, CEO of open-source software maker Red Hat, has said, “I found that being very open about the things I did not know actually had the opposite effect than I would have thought. It helped me build credibility.” Asking for help is effective because it taps into the natural human impulse to cooperate with others.

The Return on Trust

After identifying and measuring the managerial behaviors that sustain trust in organizations, my team and I tested the impact of trust on business performance. We did this in several ways. First, we gathered evidence from a dozen companies that have launched policy changes to raise trust (most were motivated by a slump in their profits or market share). Second, we conducted the field experiments mentioned earlier: In two businesses where trust varies by department, my team gave groups of employees specific tasks, gauged their productivity and innovation in those tasks, and gathered very detailed data—including direct measures of brain activity—showing that trust improves performance. And third, with the help of an independent survey firm, we collected data in February 2016 from a nationally representative sample of 1,095 working adults in the U.S. The findings from all three sources were similar, but I will focus on what we learned from the national data since it’s generalizable.

By surveying the employees about the extent to which firms practiced the eight behaviors, we were able to calculate the level of trust for each organization. (To avoid priming respondents, we never used the word “trust” in surveys.) The U.S. average for organizational trust was 70% (out of a possible 100%). Fully 47% of respondents worked in organizations where trust was below the average, with one firm scoring an abysmally low 15%. Overall, companies scored lowest on recognizing excellence and sharing information (67% and 68%, respectively). So the data suggests that the average U.S. company could enhance trust by improving in these two areas—even if it didn’t improve in the other six.
The effect of trust on self-reported work performance was powerful. Respondents whose companies were in the top quartile indicated they had 106% more energy and were 76% more engaged at work than respondents whose firms were in the bottom quartile. They also reported being 50% more productive—which is consistent with our objective measures of productivity from studies we have done with employees at work. Trust had a major impact on employee loyalty as well: Compared with employees at low-trust companies, 50% more of those working at high-trust organizations planned to stay with their employer over the next year, and 88% more said they would recommend their company to family and friends as a place to work.

My team also found that those working in high-trust companies enjoyed their jobs 60% more, were 70% more aligned with their companies’ purpose, and felt 66% closer to their colleagues. And a high-trust culture improves how people treat one another and themselves. Compared with employees at low-trust organizations, the high-trust folks had 11% more empathy for their workmates, depersonalized them 41% less often, and experienced 40% less burnout from their work. They felt a greater sense of accomplishment, as well—41% more.

Again, this analysis supports the findings from our qualitative and scientific studies. But one new—and surprising—thing we learned is that high-trust companies pay more. Employees earn an additional $6,450 a year, or 17% more, at companies in the highest quartile of trust, compared with those in the lowest quartile. The only way this can occur in a competitive labor market is if employees in high-trust companies are more productive and innovative.

**CONCLUSION**

Former Herman Miller CEO Max De Pree once said, “The first responsibility of a leader is to define reality. The last is to say thank you. In between the two, the leader must become a servant.”
The experiments I have run strongly support this view. Ultimately, you cultivate trust by setting a clear direction, giving people what they need to see it through, and getting out of their way.

It’s not about being easy on your employees or expecting less from them. High-trust companies hold people accountable but without micromanaging them. They treat people like responsible adults.

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It's amazing that these stats remain static year after year even though they are so ubiquitous. I totally agree with you that celebrating success immediately after a goal has been achieved is the best time for recognition and has the most impact, especially if said recognition is also unexpected and personal. I also agree that it is particularly impactful when it comes from peers, but I would argue this same praise also from a leader may also have similarly beneficial effects. My only reservation is that recognition should be public. Yes, I understand the beneficial impacts it has on others such as learning from best practices, etc. However, some people simply do not like public recognition. Just like some do not like public displays of affection. Some may even actively recoil from it. If recognition is to be made publicly I believe there should be a clear understanding of how the individual to be recognized will internalize the effort. Otherwise, it may produce the opposite effect for them and do more harm than good.

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