

# Does employee ownership improve performance?

## Employee ownership generally increases firm performance and worker outcomes

Keywords: employee ownership, profit sharing, economic performance, economic stability, unemployment, economic inequality

### ELEVATOR PITCH

Employee ownership has attracted growing attention for its potential to improve economic outcomes for companies, workers, and the economy in general, and help reduce inequality. Over 100 studies across many countries indicate that employee ownership is generally linked to better productivity, pay, job stability, and firm survival—though the effects are dispersed and causation is difficult to firmly establish. Free-riding often appears to be overcome by worker co-monitoring and reciprocity. Financial risk is an important concern but is generally minimized by higher pay and job stability among employee owners.

### KEY FINDINGS

#### Pros

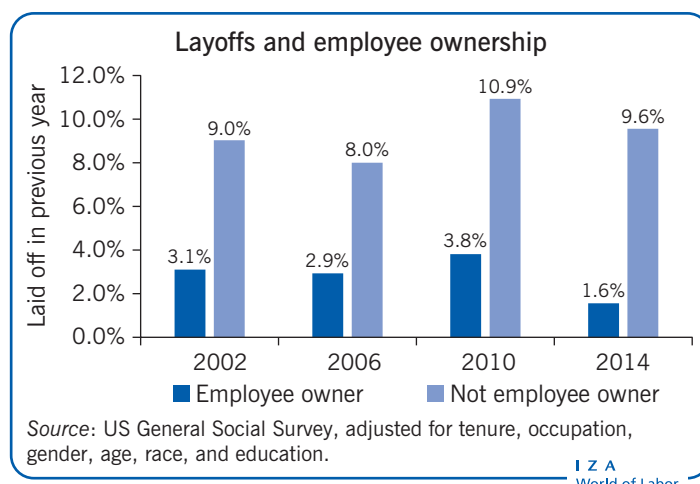
- ⊕ Employee ownership is linked to better company performance on average.
- ⊕ Employee ownership companies have more stability, higher survival rates, and fewer layoffs in recessions, potentially leading to lower unemployment in the overall economy.
- ⊕ Employer stock tends to come on top of, rather than substitute for, regular employee compensation, and thereby adds to pay and wealth in general.
- ⊕ The broader sharing of economic rewards may help reduce economic inequality.

#### Cons

- ⊖ Employee ownership is subject to the free-rider problem, since the rewards from individual effort are shared with other workers and the direct incentive to work hard may be weak, which can lead more able workers to leave.
- ⊖ The effectiveness of employee ownership may depend on a complicated combination of supportive policies, such as employee involvement, job security, and training.
- ⊖ Workers can be exposed to excessive financial risk, especially when employee ownership is a large share of a worker's wealth, and when it substitutes for other pay and benefits.

### AUTHOR'S MAIN MESSAGE

It has been argued that workers need to have greater ownership stakes in the technologies that increasingly substitute for their labor. But how does employee ownership affect economic performance? Despite skepticism by some academics and policymakers, employee ownership can overcome free-rider problems by raising work standards, and reduce financial risks by raising pay and job stability. In the overall economy, employee ownership has the potential to both decrease inequality, through enhanced incomes, and improve macroeconomic stability by reducing layoffs and unemployment when recessions occur. These benefits can justify supportive public policies for employee ownership.



## MOTIVATION

Why is employee ownership important? There are four main sources of interest in this issue:

First, employee ownership can enhance company performance, as it creates a closer tie between employee performance and rewards. Employees are effectively “working for themselves,” and by sharing the overall economic “pie” more widely, the incentives of workers and owners can become aligned so that productivity-reducing conflict is minimized and productivity-enhancing cooperation and innovation encouraged. This is particularly so when employee ownership is combined with employee participation in decision-making and other high-performance work practices.

Second, employee ownership may enhance firm survival and employment stability, and thereby increase workers’ job security, through greater flexibility or through the creation of a workplace ownership culture where stability promotes skill investment and higher productivity. When this is the case, it can help decrease unemployment and increase macroeconomic stability in the overall economy, creating positive “externalities” (benefits enjoyed by third-parties as a result) that can justify supportive public policy [1].

Employee ownership also has the potential to alleviate inequality and to help create more broadly shared prosperity. It may increase workers’ pay and wealth and thereby help broaden the overall distribution of income and wealth.

Finally, employee ownership can give workers a greater role in corporate governance through legal rights and workplace policies that increase access to information and participation in decision-making [2]. This can improve quality of work life due to workers having greater control and more aligned incentives that may help to create a more harmonious workplace, with less labor–management conflict. When employee ownership involves greater employee participation in workplace decisions, this may also help to strengthen democracy by increasing civic skills and interest in participating in politics.

Due to these sources of interest, many countries have public policies promoting employee ownership. The EU highlighted employee ownership and profit sharing in its four reports from 1991 to 2008 on Promotion of Employee Participation in Profits and Enterprise Results (the “Pepper Reports”), and in its more recent 2014 report [2]. If employee ownership enhances productivity there should be good private incentives for firms to adopt it, although public policy may be justified to spread information on performance-enhancing practices.

If employee ownership leads to fewer layoffs and greater company survival, there is a stronger case for supportive public policy, since the economic and social costs of layoffs and firm failures are borne by workers, families, communities, and the larger economy and society. In economic terms, the layoffs and firm failures create negative externalities (costs suffered by third parties as a result) that can justify the use of supportive public policies. Such policy may also be built on the idea of increasing broad-based prosperity that can reduce inequality and strengthen democracy.

## DISCUSSION OF PROS AND CONS

### How prevalent is employee ownership?

The extent of employee ownership within a firm can vary by the proportion of the company owned by employees, the percentage of employees who are owners, and the distribution of shares among employee-owners. Common types of employee ownership include: (i) worker cooperatives, where all or nearly all workers share in ownership and typically make decisions based on one-person/one-vote rather than number of shares owned; (ii) US Employee Stock Ownership Plans (ESOPs), where employees have accounts in a collective pension trust, and the trust may borrow money to finance stock purchases (paid back by the company) so employees do not have to put up their own money; (iii) employer stock in other retirement plans, where companies may match pre-tax employee contributions with company stock or workers buy the stock themselves; (iv) employee stock purchase plans, which allow employees to buy company stock at a discount; (v) stock held after the exercise of granted stock options.

The variety in the types and extent of employee ownership makes it difficult to obtain consistent estimates across countries. In the US about 20% of private sector employees report owning company stock, while about 32% of British employees had some form of employee ownership scheme in 2004 [3]. Data from the European Company Survey show that 5.2% of companies offered employee share ownership in 2013, and European Working Conditions Survey data show that 3.3% of employees participated in employee ownership in 2010 [2]. Employee ownership in Europe is more common in large firms and countries with more developed capital markets. There has also been considerable experience and study of employee ownership in Russia and eastern European countries, Japan, and Latin America.

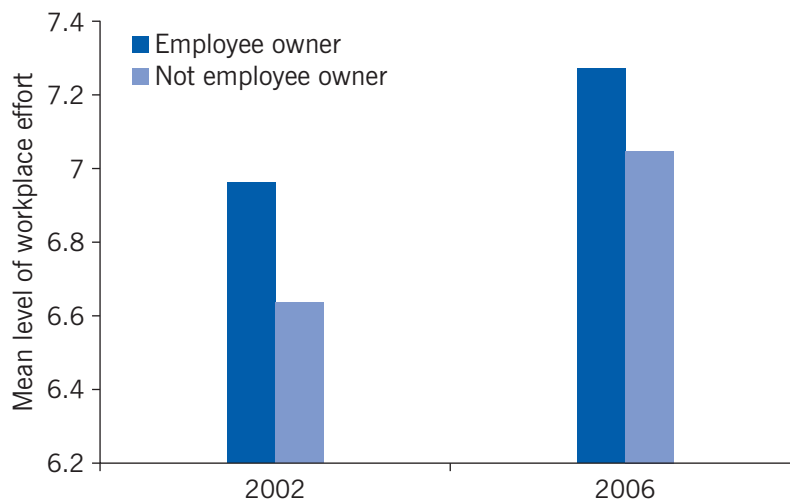
### What does the evidence on employee ownership show?

Many types of studies have been conducted on employee ownership. Some compare employee-owners to non-owners in the same or different firms, some compare firms with and without employee ownership plans, some compare firms before and after adoption of employee ownership relative to firms that have not adopted employee ownership at all, and others employ laboratory experiments to examine the link between financial participation and performance outcomes. But overall, what does the evidence on employee ownership show?

#### *Company performance*

A new meta-analysis of existing studies, with 102 samples covering 56,984 firms, finds that employee ownership has a small but significant positive relation, on average, with firm performance [4]. The positive relation exists across firm size, and has increased in studies over time, possibly because firms are learning to implement employee ownership more effectively. This is consistent with earlier reviews and meta-analyses, including one which found that two-thirds of 129 studies concluded that employee ownership is positively related to performance or employee attitudes, while only one-tenth found negative relationships (see Figure 1 for one illustration of a positive relationship). As an example, a study sponsored by the UK Treasury analyzed data from confidential tax records on

Figure 1. Workplace effort and employee ownership



Note: Draws on data from the US General Social Survey for private-sector employees, based on the question “At your workplace, how hard would you say that people work, with 0 meaning not at all hard and 10 meaning very hard?” The figure presents a “between-firm” comparison.

Source: The General Social Survey. Online at: <http://www.gss.norc.org>; Kurtulus, F., and D. Kruse. *How Did Employee Ownership Firms Weather the Last Two Recessions?* Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, 2016 [1].

I Z A  
World of Labor

tax-advantaged share schemes at over 16,000 UK firms and found that broad-based employee ownership was linked to improved firm performance measures, such as value-added and turnover [5]. In addition, a study of French cooperatives found that employee-owned firms were at least as productive as conventional firms [6].

Of course, correlation does not imply causation. To address causality issues many studies have used pre/post comparisons to adjust for any unknown fixed factors, and have used a variety of statistical corrections to adjust for any unknown factors related to the firm’s choice of *when* to adopt employee ownership. Still, the generally positive relationships remain.

It is unlikely that these positive results simply reflect higher-quality workers in employee-ownership firms, since pre/post evidence from two studies showed that average worker performance improved under group incentives (as employees directly benefited from higher productivity). In addition, laboratory experiments with random assignment found higher productivity among subjects organized into groups that functioned as employee-owned “firms,” suggesting positive effects even among those who do not initially choose to take part in employee ownership. While a field experiment on profit sharing with random assignment showed favorable effects on performance and turnover, there have not been true field experiments to clearly demonstrate a causal effect of employee ownership. Note that while profit sharing and employee ownership are related, in that both tie worker pay to business outcomes, “profit sharing” simply provides workers a share of profits, while “employee ownership” also provides ownership rights and an addition to employee wealth.

The available evidence therefore goes against the idea that free-riding overwhelms any possible positive effect of employee ownership. Workers themselves report behaviors that

counter free-riding: a study of over 40,000 workers found that those with company stock and other group incentives were more likely to say they would take action if they saw a fellow worker not working well, by talking to the worker, supervisor, or members of the work team [3]. When asked why, many of these workers reported that “poor performance will cost me and other employees in bonus or stock value.” This, and other studies, also indicate that employee owners generally have lower turnover and absenteeism, more company pride and loyalty, greater willingness to work hard, and more suggestions of how to improve performance.

There is clearly no simple automatic relationship between employee ownership and performance—while the average performance effect of adopting employee ownership is positive, there is dispersion around the average, and some firms adopting employee ownership do not see improvements. Counteracting the free-riding problem appears to depend on workplace norms and policies that encourage cooperation and higher effort. Employee owners are most likely to take action against shirking when they are part of employee involvement teams, have received company training, and have job security, although some research finds that majority employee ownership is positively related to productivity even when there is little or no employee involvement in decision-making.

### ***Job security, firm survival, and economic stability***

While not as widely studied as company performance, employee owners appear to have greater job security. This is shown by smaller employment cutbacks among employee ownership firms compared to similar firms without employee ownership over the past two recessions [1], as well as by employee owners’ greater perceptions of job security and lower reports of having been laid off in the past year (see the illustration on p. 1). Consistent with the idea that employee ownership firms lay off fewer workers in a recession, their relative productivity advantage declines in recessions, which may be due to retaining workers who receive new training or otherwise invest in activities that bolster long-term but not short-term productivity [1].

Employee ownership firms also appear to have higher survival rates [1]. Publicly traded US companies with employee ownership are about 20% more likely than closely matched comparable firms to survive over a 12-year period, and closely held companies with employee ownership plans are only half as likely as comparable firms to go bankrupt or close down over a 12-year period. In addition, studies of worker cooperatives have found high survival rates compared to conventional firms in the UK, France, Uruguay, and other countries.

The reasons for greater stability and survival among employee ownership firms have not been well explored. It is possible that more stable firms are more likely to adopt employee ownership, or that other factors are responsible. If employee ownership is responsible, this may happen through: (i) increased productivity from greater cooperation, information-sharing, and commitment; (ii) reduced dysfunctional workplace conflict; (iii) increased employee investments in valuable firm-specific skills; and/or (iv) creation and maintenance of a workplace culture that instills a sense of ownership, with a corresponding commitment to preserve employee jobs whenever possible.

### ***Inequality and broadly-shared prosperity***

Employee ownership will not enhance worker incomes or reduce inequality if it substitutes for standard worker pay or benefits. In this case it presents serious issues of financial risk, since workers are likely to have more variable pay and wealth (although financial risk may be reduced by greater job security, as described above). Despite the few cases of wage concessions and the economic logic that employee ownership must substitute for other forms of compensation, almost all studies in this area indicate that employee ownership tends to come on top of market levels of pay.

A comprehensive study of all ESOP adoptions over 1980–2001 found that employee wages, apart from the ESOP, either increased or remained constant after adoption, so that ESOP contributions came on top of existing pay [7]. Consistent with this, comparisons of matched ESOP and non-ESOP firms found similar levels of pay and other benefits, apart from the ESOP in the two types of firms. Employee owners in general reported higher levels of annual earnings, and were more likely to say they are “paid what they deserve” and that their fringe benefits are good [3]. One study finds that an extra dollar of employee ownership value is associated with an extra 94 cents of wealth, indicating that employee-owned stock appears to add to wealth in general [3]. The evidence from worker cooperatives is more mixed, with higher wages in Uruguayan cooperatives but lower wages in Italian cooperatives compared to conventional firms.

How can this be? How is it possible in most cases that employee ownership can simply add to, rather than substitute for, other forms of pay or wealth? One interpretation that integrates the accumulated evidence on company performance, worker behavior, and pay is based on ideas of reciprocity and the economic model of “gift exchange,” developed by the Nobel Prize winner George Akerlof. Workers may respond to a “gift” of employee ownership, on top of market compensation, with a reciprocal “gift” of high effort, cooperation, and work standards. The collective incentive nature of employee ownership may make it an especially effective “gift” for creating and reinforcing a sense of common purpose, and encouraging higher commitment and productivity [3].

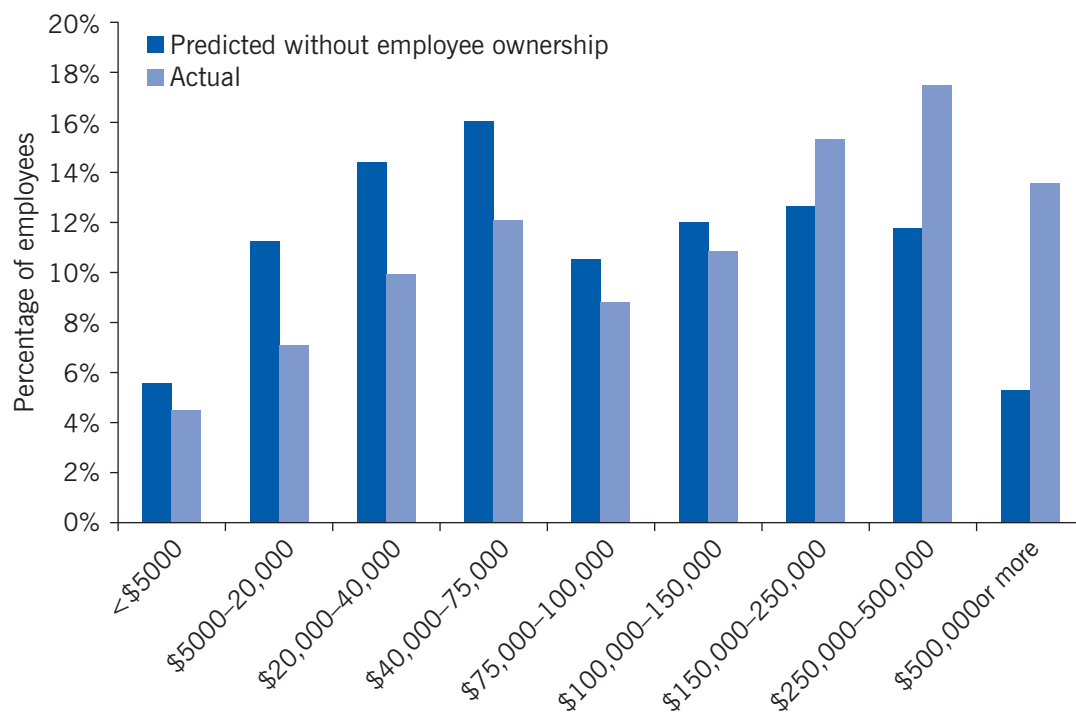
The consistent finding that employee ownership tends to be ‘gravy’ on top of other pay and wealth means that it may be a promising means for increasing worker incomes and wealth in general, which may help to reduce inequality (Figure 2). The limited evidence indicates that pay and wealth appear to be distributed more equally in employee ownership firms than in other firms, although at current levels of employee ownership this has only a minimal effect on the overall societal income and wealth distribution. The more equal distribution of pay in cooperatives may lead high-ability workers to find jobs elsewhere, but also encourage productive cooperation among employees, as shown by evidence that worker cooperatives perform at least as well as conventional firms.

### ***Corporate governance, labor-management conflict, and quality of work life***

Does employee ownership increase worker roles in corporate governance and create more harmonious workplaces and satisfied workers? Employee ownership is linked to greater corporate transparency when employees have bargaining power, which may account for the lower likelihood of strikes in unionized companies that adopt ESOPs. Employees report a higher likelihood of company-sponsored training and tend to give companies higher ratings on management-employee relations and other aspects of company treatment of



Figure 2. Wealth class distribution for employee stock ownership plan (ESOP) employees



Source: Kruse, D., R. Freeman, and J. Blasi (eds). *Shared Capitalism at Work: Employee Ownership, Profit and Gain Sharing, and Broad-based Stock Options*. Chicago, IL: University of Chicago Press, 2010 [3]; Figure 11.2.

I Z A  
World of Labor

employees (e.g. handling of promotions, worker safety, and trustworthiness) when they are employee-owners or otherwise participate in shared rewards [3]. Employee owners also tend to report greater participation in workplace decisions, but otherwise little is known about changes in corporate governance under employee ownership, except in the case of cooperatives, where each worker has a vote in strategic decisions and electing management.

If employee ownership does improve quality of work life there should be higher job satisfaction and lower turnover. Employee owners are less likely than other employees to say they will look for a new job, but as with the anti-shirking behavior described above, any favorable effects of employee ownership appear to depend on the presence of other supportive workplace policies (such as employee involvement, training, job security, and low supervision) [3], [8]. Without such policies workers with company stock and other group incentives may even have lower satisfaction and higher turnover intention. This may reflect mixed messages to employees when they are given employee ownership without supportive workplace policies: “We want you to be more productive as employee-owners, but we’re not going to give you the tools to be more productive, and we’re going to keep a close eye on you.” In such cases the employee ownership may be seen as an attempt to shift financial risk onto workers, rather than to empower them.

The importance of supportive policies in increasing both co-monitoring and satisfaction, and decreasing turnover, indicates that workers do not mind co-monitoring when these policies are present. The generally higher prevalence of participation in decision-making and training among employee-owners further suggests that companies recognize the

complementarities of these policies with financial participation. Most basically, this points to the importance of providing employee-owners with the *means* to improve performance—through increased skills and opportunities for input—so that they can effectively take action in response to the financial incentives.

### What are the “cons” of employee ownership?

The above evidence generally points to a number of “pros” about employee ownership. Three “cons” that are often raised about employee ownership are the free-rider problem, the difficulty in configuring policies for effective performance, and financial risk.

Free-riding is undeniably a potentially important factor in all group incentives. The evidence on the higher average performance of employee-owned firms, and the willingness of employee-owners to enforce higher workplace norms and take action against shirking co-workers, indicate that the free-rider problem does not condemn the potential of employee ownership to improve performance. Free-riding may be reduced or overcome by supportive policies to build team spirit, loyalty, and high work standards (although it no doubt occurs in many workplaces that do not have supportive policies and culture).

This raises the second “con” of difficulty in implementing employee ownership for effective performance. There is no simple formula for how supportive policies should be combined with different types and levels of employee ownership. Some research results suggest that simply being an owner can affect behavior and attitudes, while other results imply that the size of the financial stake is important.

The third “con” of financial risk can be important for many employee-owners. Stock values can obviously go up and down, and having a large share of one’s wealth in only one asset—including the stock of one’s employer—means that one may face financial risk by not being appropriately diversified. The financial risk may be increased under employee ownership since if the firm fails, the employee can lose both his or her job and the company stock value. It is undoubtedly true that some workers are not adequately diversified—for example, each year many people use some or all of their life savings to start their own businesses. Employee owners may likewise have too much of their wealth invested in their companies for sound financial planning. This is exemplified in some failures of employee-ownership companies, which point to the need for policies that mitigate risk [9]. However, the potential financial risk from employee ownership can be substantially reduced, as evidenced by the following research findings:

- Employee ownership generally comes on top of standard pay and benefits, which mitigates any financial risk, since workers are not sacrificing for risky pay—the employee ownership can be seen as “gravity” that supplements their wealth and retirement portfolios. Grants of stock to workers, such as in an ESOP, pose lower financial risk to workers than do worker purchases of stock.
- Increased job security reduces personal financial risk. The biggest form of financial risk faced by most workers is job loss, as opposed to market fluctuations in the value of their financial assets. If employee ownership does contribute to employment stability and firm survival, as reviewed above, employee-owners may face less financial risk than other employees.



Two other noteworthy findings regarding financial risk are as follows:

- One surprising finding from the study of over 40,000 employees is that two-thirds of the most risk-averse employees reported that they would like at least some ownership, profit sharing, or stock options in their pay package [3]. While risk aversion clearly influences attitudes toward variable pay, these results indicate that even risk-averse employees are open to employee ownership and other variable pay plans.
- Recent theory indicates that employee ownership can be part of an efficient diversified portfolio. Harry Markowitz, who won the Nobel Prize in Economics for portfolio theory, explicitly rejects the idea that risk aversion condemns employee ownership. His theory concludes that substantial amounts of a single asset—including stock in one’s company—can be part of an efficient portfolio as long as the overall portfolio is properly diversified [3]. Based on standard assumptions about individual preferences, he concludes that an optimal investment of company stock in a diversified portfolio is 8.66%, while 10% or up to 15% would not be imprudent (reflecting the percentage of the individual worker’s wealth portfolio, not the percentage of the firm owned by employees) [3]. Representative data from US families show that five-sixths of US families that own employer stock fall below Markowitz’s 15% threshold, indicating that excessive risk is likely confined to a minority of employee owners.

## LIMITATIONS AND GAPS

While over 100 studies indicate that employee ownership is tied to better company performance on average, more needs to be known about the mechanisms linking employee ownership and performance. The causal effects of employee ownership are hard to isolate, particularly if it works in combination with participation in decision-making, information-sharing, and other practices and policies. The pre/post studies, plus the limited evidence from experiments and analyses of employee owners’ workplace behaviors, point to a causal impact, but field experiments with random assignment are lacking, which would clearly establish causality.

While there have been valuable studies on worker cooperatives, there has been too little research, in general, on corporate governance under employee ownership and its role in firm outcomes, including the issue of excessive managerial compensation. It would be particularly valuable to have further research on employee ownership in closely held companies, where many are majority or 100% employee-owned but data are more scarce.

Causation is an open question in the company stability and survival results, since it may be that more stable companies are more likely to adopt employee ownership. The remarkable finding that employee ownership generally comes on top of standard pay and benefits needs further probing, to determine if and how this supports higher performance, and what happens in cases where employee ownership substitutes for pay.

Finally, the issue of financial risk needs further study, to examine the variability of wealth portfolios that include employee ownership, the overall financial risk for workers when taking job security into account, and the relative risks of employee ownership based on employee concessions or stock purchases, as opposed to stock grants, on top of market wages.

## SUMMARY AND POLICY ADVICE

What will happen to economic performance if workers do own more of the “robots” (i.e. new technologies/capital stock) that are taking their jobs? The accumulated evidence on the economic performance of firms that have employee ownership gives no reason to think that performance would be hurt, and in fact suggests that performance may be enhanced. Not only is employee ownership linked to higher company performance on average, but it may also add to worker pay, employment stability, and company survival. The free-rider and financial risk problems are important, but the evidence indicates that they can be overcome. Apart from benefiting companies and workers, the findings point to the potential for employee ownership to increase economic stability and reduce unemployment and inequality in the overall economy.

The evidence that employee ownership can improve company performance does not initially suggest a role for public policy, since the prospect of improved performance may be a sufficient incentive for adoption in companies that are likely to benefit. However, given its low incidence, government can play the role it has often played in promoting performance-enhancing work practices to help overcome information problems or institutional barriers, and to enhance overall economy-wide outcomes from higher productivity and innovation.

The argument for supportive public policy is strengthened when there are “externalities” involved, effects that extend beyond the firm and its members, as the decision to lay off workers or close a firm can create a number of negative externalities for the overall economy, government, communities, and the families of affected workers.

There are a variety of fiscal and tax incentives related to employee ownership and other forms of financial participation in the EU [2] and the US [10]. Some of the existing and proposed financial incentives for encouraging these plans are:

- Direct tax incentives to either the employer or employee, such as the deductibility of contributions to deferred employee ownership plans in the US.
- Making retiring owners eligible for exemption from capital gains taxes if they sell the company to an employee ownership plan.
- Allowing financial firms to deduct a portion of their interest income from loans made to employee ownership firms.
- Restricting tax deductibility of incentive pay for top executives (stock, bonuses, stock options) to companies that have a similar type of incentive for all employees, as is done in the US for pensions and health insurance plans that are tax deductible only if they are broad-based.
- Making a minimal program of employee ownership a precondition for corporate tax incentives in the tax code.
- Requiring or favoring firms with broad-based ownership plans in government procurement.
- Tax abatements to firms with broad-based employee ownership in economic development zones or social improvement projects.

Apart from the tax and expenditure policies, low-cost policies to spread information, break down institutional barriers, or protect workers include:

- Establishing high-level national or international commissions or institutions to assess evidence and policies, and draw attention and expertise to employee ownership and related plans, as the EU has done [2].
- Establishing an office in the highest levels of national government to support employee ownership and related plans, reviewing public policies and working with the private sector to publicize and encourage best practices.
- Providing seed grants to establish employee ownership resource centers throughout a country, modeled on the successful US centers in Ohio and Vermont that assist local businesses with transitions to employee ownership and provide ongoing technical assistance, support, and networking.
- Creating an objective scorecard of employee ownership and profit sharing that can be used by workers, investors, and government officials in measuring the spread of these programs in individual firms and throughout the economy.
- Amending corporate laws to create legal forms that make it easier for firms to broaden financial participation, such as the “B corporation” (short for “Benefit corporation”) in the US that makes it easier for businesses to take employee, community, and environmental interests into consideration when making decisions.
- Limiting employee investments in more risky forms of employee ownership (where workers buy the stock with their wages and savings), and allowing earlier diversification for workers in employee ownership plans, particularly when those plans involve wage and benefit concessions.
- Ensuring that companies use best valuation practices so that employee-owned stock is correctly valued in non-publicly-traded companies.

In sum, the accumulated evidence shows that, despite the theoretical free-rider and financial risk objections, employee ownership is generally linked to a number of good outcomes for firms, workers, and potentially society as a whole. These benefits—particularly the greater stability and survival that can help the overall economy by reducing unemployment and resisting recessionary pressures—can justify supportive public policies.

### Acknowledgments

The author thanks two anonymous referees, and the IZA World of Labor editors for many helpful suggestions on earlier drafts. The author also thanks Joseph Blasi. Previous work of the author (together with Joseph Blasi, Richard Freeman, and Fidan Kurtulus) contains a larger number of background references for the material presented here. The summary of evidence and policies draws on Chapters 5 and 6 of a book with Joseph Blasi and Richard Freeman [10] and Chapters 1 and 6 of a forthcoming book with Fidan Kurtulus [1].

### Competing interests

The IZA World of Labor project is committed to the *IZA Guiding Principles of Research Integrity*. The author declares to have observed these principles.

© Douglas Kruse

## REFERENCES

### Further reading

- Erdal, D. *Beyond the Corporation: Humanity Working*. New York: Random House, 2012.
- Kaarsemaker, E., A. Pendleton, and E. Poutsma. "Employee share ownership." In: Gollan, P., D. Lewin, M. Marchington, and A. Wilkinson (eds). *The Oxford Handbook of Participation in Organizations*. Oxford: Oxford University Press, 2010.
- Rosen, C. M., J. Case, and M. Staibus. *Equity: Why Employee Ownership is Good for Business*. Boston, MA: Harvard Business Press, 2005.

### Key references

- [1] Kurtulus, F., and D. Kruse. *How Did Employee Ownership Firms Weather the Last Two Recessions?* Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, 2016.
- [2] Lowitzsch, J., and I. Hashi. *The Promotion of Employee Ownership and Participation*. Inter-University Centre for European Commission's DG MARKT, 2014.
- [3] Kruse, D., R. Freeman, and J. Blasi (eds). *Shared Capitalism at Work: Employee Ownership, Profit and Gain Sharing, and Broad-based Stock Options*. Chicago, IL: University of Chicago Press, 2010.
- [4] O'Boyle, E., P. Patel, and E. Gonzalez-Mulé. "Employee ownership and firm performance: A meta-analysis." *Human Resource Management Journal* (Forthcoming).
- [5] Oxera. *Tax Advantaged Employee Share Schemes: Analysis of Productivity Effects*. HM Revenue and Customs, 2007.
- [6] Fakhfakh, F., Pérotin, V., and Gago, M. "Productivity, capital, and labor in labor-managed and conventional firms: An investigation on French data." *Industrial & Labor Relations Review* 65:4 (2012): 847–879.
- [7] Kim, E., and P. Ouimet. "Broad-based employee stock ownership: Motives and outcomes." *The Journal of Finance* 69:3 (2014): 1273–1319.
- [8] Blasi, J., R. Freeman, and D. Kruse. "Do broad-based employee ownership, profit sharing, and stock options help the best firms do even better?" *British Journal of Industrial Relations* 54:1 (2016): 55–82.
- [9] Walter, K., and D. Corley. *Mitigating Risk to Maximize the Benefits of Employee Ownership*. Washington, DC: Center for American Progress, 2015.
- [10] Blasi, J., R. Freeman, and D. Kruse. *The Citizen's Share: Reducing Inequality in the 21st Century*. New Haven, CT: Yale University Press, 2014.

### Online extras

The **full reference list** for this article is available from:

<http://wol.iza.org/articles/does-employee-ownership-improve-economic-performance>

View the **evidence map** for this article:

<http://wol.iza.org/articles/does-employee-ownership-improve-economic-performance/map>