What policies help businesses retain employees during an economic downturn?

The COVID-19 pandemic has caused an unprecedented disruption to labor markets in the United States

and abroad. Unemployment rates have surpassed levels experienced during the Great Recession of 2008–2009. Massive levels unemployment can have devastating impacts on individuals, businesses, and labor markets. This rapid evidence review summarizes three strategies governments and businesses can use to retain employees during economic downturns:

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- 1. Work share or short-time compensation²
- 2. Furlough
- 3. Employment protection programs³

The evidence presented here is based on the Clearinghouse for Labor Evaluation and Research's (CLEAR)⁴ rapid review of 49 publications, some of which summarize the findings from multiple studies. A supplement to this rapid evidence review synthesis provides citations with links to the publications, further information about study findings, and details about how this rapid review was conducted.

Work share or short-time compensation (STC) is a program within the state unemployment insurance system that businesses can use as an alternative to layoffs. Under STC programs, businesses that experience a temporary decrease in demand can reduce employees' work hours. This helps businesses by reducing their labor costs in the short term while allowing them to retain their skilled employees. STC programs help workers by enabling them to retain their employment and benefits and earn some income, albeit a reduced income. Some individuals may also qualify to collect prorated unemployment insurance (UI) compensation for lost income due to the reduced work schedule.

Furlough is another strategy that businesses can use to mitigate the impact of fluctuations in demand on labor costs. Employees that are furloughed are placed on unpaid leave, often with benefits and the ability to return to their job once demand resumes. For U.S. employers, this strategy has many of the same benefits as STC, and some added benefits such as lower administrative costs. For workers, the lack of pay is a significant difference from STC. Currently, federal and state policies have expanded UI benefits in response to the COVID-19 pandemic, including to some furloughed workers.

Employment protection programs are a set of strategies federal and state governments can use to subsidize partial payment of employee wages or benefits for individuals who are unable to work due to the pandemic. A number of countries have implemented some form of labor subsidy to incentivize employers to retain their employees during the pandemic. Countries' programs vary in terms of how much lost pay they replace and under what conditions.

1. Work share or short-time compensation

Short-time compensation (STC) programs can benefit businesses and permanent workers. STC programs provide employers with a method to reduce labor costs without laying off workers. This allows businesses to retain their employees during an economic downturn and avoid costs associated with hiring and training new employees when demand returns. For employees, STC programs can help avoid

¹ This version includes literature published between January 1, 2007 and June 30, 2020. CLEAR continues to search for relevant literature and may update this synthesis as new research emerges.

² This strategy is also referred to as short-time work (STW), work sharing, and shared work.

³ This strategy is also referred to as paycheck or payroll protection or paycheck guarantees.

⁴ CLEAR is the U.S. Department of Labor's Clearinghouse for Labor Evaluation and Research. Its mission is to make research on labor topics more accessible to practitioners, policymakers, researchers, and the public, to support evidence-informed decision making. CLEAR does this by conducting systematic evidence reviews, summarizing individual studies of programs, and synthesizing research across individual evidence bases. To date, CLEAR has conducted more than 18 evidence reviews and summarized more than 1,000 studies.

layoffs; allow workers to maintain some income through work; keep their health insurance benefits; and, in some cases, receive prorated unemployment insurance (UI) compensation to make up for lost earnings (Balducchi et al. 2016; Boeri & Bruecker 2011; Cahuc & Carcillo 2011; Cahuc, Kramarz, & Nevoux 2018; Hijzen & Martin 2013; Hijzen & Venn 2011; Kopp & Siegenthaler 2019; Organisation for Economic Co-operation and Development (OECD) 2010). A study of OECD countries during the Great Recession estimated that STC programs saved over 200,000 jobs in Germany and 400,000 jobs in Japan. STC also had substantial impacts on employment in Belgium, Finland, and Italy (OECD 2010). Nevertheless, not all studies of STC programs show favorable findings (Arranz, Garcia-Serrano, & Hernanz 2018; Cahuc & Nevoux 2019; Skuterud 2007). Notably, the most rigorous evaluation of STC programs in the United States found that among firms that used STC, layoffs remained the primary workforce reduction strategy (Walsh et al. 1977). Furthermore, a number of studies of STC programs abroad have shown that even when they do preserve jobs for permanent employees, they often do not benefit temporary workers (Boeri & Bruecker 2011; Cahuc et al. 2018; Cahuc & Nevoux 2019; Hijzen & Venn 2011; Steiner & Peters 2000). This aligns with other research showing that employers are more likely to use STC programs to retain high- or medium-skilled workers who would be more costly to replace (Gonzalez-Uribe & Wang 2020). This is an important consideration for the current pandemic, which disproportionately affects low-skilled service workers who are not able to work remotely, such as those in the food service or hospitality industries (Andreason 2020).

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▶ STC programs can help stabilize labor markets during economic downturns. STC programs can help stabilize both the supply and demand sides of the market. On the supply side, STC programs help firms decrease labor costs to match reduced demand for their goods and services. On the demand side, STC programs spread limited work amongst workers so more households have at least some income to continue purchasing goods and services, helping to sustain demand (Balleer et al. 2015; Bauermann 2020; Dias da Silva et al. 2020). During the Great Recession, STC programs helped stabilize employment and reduce unemployment in many countries, such as Germany, Japan, and Italy (Herzog-Stein, Horn & Stein et al. 2013; Hijzen & Martin 2013). One study estimated that a 1 percentage point increase in STC take-up in Germany was associated with a 1 percentage point decrease in unemployment and a 1 percentage point increase in employment during the most recent recession (Cahuc & Carcillo 2011). However, some studies demonstrate that continued use of STC during an economic recovery can negatively impact overall employment if employers use STC to preserve jobs that would be preserved without the subsidy or jobs that would not be feasible without the subsidy (Cahuc & Nevoux 2019; Elsby, Hobijn, & Sahin 2010; Hijzen & Martin 2013; OECD 2010).

▶ The level of uptake of STC programs influences its impact on macroeconomic conditions. In countries or states where few businesses participate, the effects are not substantial enough to impact macroeconomic conditions (Abraham & Houseman 2013). In a study examining the use of STC in 17 states in the United States during the Great Recession, findings showed that too few employers participated in the STC program for it to substantially mitigate aggregate job losses (Abraham & Houseman, 2013). The uptake of STC varies widely across countries and by state within the United

States. European countries such as Germany are more likely to use STC as a way to reduce overall person-hours during economic downturns, while the United States is more likely to reduce person-hours by reducing the number of workers, such as through layoffs (Elsby et al. 2010). Uptake of STC also varies by industry, with the greatest adoption usually occurring in the manufacturing sector.

Government policies can influence the uptake of STC programs. The extent that governments educate and incentivize employers to use STC can impact the uptake of this strategy (Abraham & Houseman 2014; Guipponi & Landais, 2020; Houseman et al. 2017; Walsh et al. 1997). Awareness and uptake of STC has remained relatively low in the United States (Balducchi et al. 2016); however, some states such as Rhode Island have enacted reforms to encourage businesses' adoption of STC, such as by making the application and claims process more efficient and less burdensome and proactively contacting employers who are engaged in layoffs to share information about STC programs (Abraham & Houseman 2014). Since the onset of the COVID-19 pandemic, federal and state governments have relaxed or waived rules to encourage the use of STC programs. For example, the federal government has made it easier for states to establish work sharing programs and some states are not charging employers' UI accounts for the STC benefits paid to workers while the federal government is fully reimbursing states for STC benefits.⁵ Abroad, countries such as Belgium, Italy, and Germany have different policies in place to encourage STC programs over layoffs; these policies include strict employment protection laws that require employers to give advance notice for layoffs and provide severance payments to employees who are laid off (Boeri & Bruecker 2011). In countries with strict employment protections, it is more advantageous for businesses to retain employees at reduced hours than to lay off workers and have to pay them severance. A 2011 descriptive study found that during the Great Recession, Germany's use of STC and work-time accounts helped incentivize employers to avoid layoffs. Work-time accounts allow employees to acquire paid time off (PTO) instead of overtime pay. Germany also has a policy that requires employers to pay workers for any overtime/PTO if they are laid off, which incentivizes employers to avoid layoffs (Burda & Hunt 2011).

2. Furloughs

▶ Furloughs are another strategy business can use to temporarily contain costs without laying off workers. Furloughs are used across the public and the private sectors and they can be full-time or parttime, such as through a shortened work week. Furloughs have some of the same benefits as STC programs, such as preserving the worker-employer relationship, allowing businesses to retain skilled workers and avoid costs related to hiring and training new employees, and allowing employees to maintain benefits during the period of unpaid work (Ginsburg & Liu 2010; Richtel & Leonhardt 2008; Sucher & Gupta 2018). Workers who are furloughed full-time are typically able to collect UI benefits; however in furloughs where workers are still earning a portion of their pay, such as through policies like shortened work weeks, many workers earn too much to qualify for partial UI benefits while furloughed (Abraham personal communication, June 1, 2020). During the COVID-19 pandemic, workers furloughed due to the pandemic

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⁵ Written communication with Katherine Abraham (June 1, 2020).

may be eligible for paid sick leave through federal policies such as the Families First Coronavirus Response Act or through their state's modified UI policies (Boccia et al. 2020; Xie 2020).

Despite potential benefits of furloughs relative to layoffs, most descriptive studies highlight the downsides of furloughs. This review identified very few current studies on furloughs. Most of the literature identified describes the experiences of furloughed employees, often through surveys of nonrandom samples of furloughed workers. These studies highlight how furloughs negatively impact employee wages, morale, and job satisfaction and do not produce cost savings or long-term employee retention (Baranik et al. 2019; Jacobs 2009; Lee & Sanders 2013).

3. Employment protection programs

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Employment protection programs might soften the macroeconomic effects of the pandemic. A number of countries, such as the United Kingdom, United States, Germany, and Denmark, are operating some form of employment protection programs or paycheck guarantees to stabilize the economy in response to COVID-19 (Beinhocker 2020; Stiglitz 2020). Implementation varies across countries but generally includes government reimbursement of employers who retain and continue paying their workers despite their inability to work. Although empirical evidence is lacking, economists and social welfare advocates argue that these policies are a way to stabilize markets in the immediate and medium term by incentivizing businesses to retain employees (McGaughey 2020; Thompson & Grabowski 2020). A descriptive study of the economic impact of government policies on firms in Denmark during the COVID-19 pandemic showed that firms who took up labor-based aid reported lower layoffs and more furloughs than firms that received fixed-cost support or fiscal-based tax delays. However, the authors note that this should not be interpreted as a causal relationship (Bennedsen et al. 2020). A quasi-experimental study of the effect of the Enterprise Finance Guarantee, a guarantee program for small businesses in the United Kingdom implemented during the Great Recession, found that, after the program launched, firms with employees who had high training costs benefited from the guarantees but guarantees alone did not protect poorer workers who had jobs with low training-costs (Gonzalez-Uribe & Wang 2020). The authors suggest that this finding should inform the policy response to the COVID-19 crisis, and they caution that pay guarantees alone may leave out poorer workers, who are more likely to have jobs with low training costs and thus are easier to replace.

▶ The U.S. Paycheck Protection Program (PPP) has provided relief, but it may not stave off a recession. Demand for funding from the Coronavirus Aid, Relief, and Economic Security Act (CARES Act), and the PPP specifically, has been high (Boccia et al. 2020; Burke et al. 2020; Stiglitz 2020); the first two times Congress allocated additional funding for the PPP loans, funds were exhausted within days, and many small businesses reported having trouble accessing assistance. Additionally, mid-sized and larger companies also need relief (Humphries, Nielson, & Ulyssea 2020; Lui & Volker, 2020). According to one study's projections, total PPP loan requests could surpass the \$660 Congress already allocated by approximately \$110 billion (Barrios et al. 2020). Early analysis of the labor market impacts of the pandemic

suggest that a more expansive or a different type of program might be needed to effectively interrupt longterm negative macroeconomic impacts (Boccia et. al 2020; Burke et al. 2020; Chetty et al. 2020; Stiglitz 2020). As demonstrated during the Great Recession, high levels of unemployment stunt individuals' ability to spend money, which in turn exacerbates labor market stagnation and decreases tax revenue. During the Great Recession, state tax revenues fell precipitously, with estimates ranging between 7 and 9 percent of all tax revenue (Belz & Sheiner, 2020; Stiglitz 2020). These factors can produce cyclical and negative impacts on the economy and impede economic recovery. For example, one estimate associates the loss in state tax revenue during the Great Recession with declines in gross domestic product (GDP) of about 1.2 percentage points (Belz & Sheiner 2020). States, faced with increased medical and UI costs and decreased tax revenues due to COVID-19, may be forced to cut spending in the future. Some economists who study the Great Recession suggest that state spending cuts may further impede the recovery (Belz & Sheiner 2020; Stiglitz 2020) while federal spending might increase the spending capacity of states and individuals and hence spur on a recovery (Aaronson & Alba 2020; Stiglitz 2020). Conversely, other economists argue that unemployment benefits exceeding worker earnings, policies subsidizing employee retention, licensing restrictions, and barriers to business formation will hinder reallocation responses to COVID-19, which will further stymie the recovery (Maria-Barrero 2020).

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▶ Countries have unique contexts and different methods for administering employment or paycheck protection programs. For example, in Austria and Germany, the government provides direct subsidies to employers so they can continue paying their workers (Granja et al. 2020; Humphries et al. 2020). In the United States, the PPP is currently administered through the Small Business Administration via banks. Early evidence suggests that the approach taken by the United States has been slower to distribute funds; and some descriptive analysis also suggests PPP loans are not getting to the places hardest hit by COVID-19 (Granja et al. 2020; Liu & Volker 2020).

Where are the gaps in the research on employee retention strategies?

- There is limited evidence on STC programs in the United States. Most of the evidence on STC programs is from other countries with very different economies and social safety nets (OECD 2010). This makes it hard to know how the STC research conducted abroad relates to the United States context (Granja et al. 2020; Humphries et al. 2020; Walsh et al. 1997).
- More research is needed to understand the low uptake of STC in the United States and to test methods to address employer gaps in knowledge or other concerns with using STC. Because the pandemic is forcing many businesses to operate at reduced capacity to enable social distancing, STC may be a particularly appropriate policy intervention (Guipponi & Landais 2020). Although existing evidence suggests that there are ways to increase employer participation in STC in the United States, such as through active marketing of the program by states and finding ways to make the program easier and less costly for employers to administer, these strategies have not been rigorously tested across multiple states (Abraham & Houseman 2014; Houseman et al. 2017; Walsh et al. 1997).

• There is limited research on the impact of furloughs or employment protection programs on macroeconomic, employer, or employee outcomes. Despite the use of furloughs across the public and the private sectors, there is limited evidence of the efficacy of this approach relative to layoffs or other strategies such as STC. More research is needed to evaluate the effects of countries' various forms of employment protection programs. Comparative evidence is also needed on the extent to which countries with more generous benefits or strict employer protections relate to outcomes for businesses, employees, and labor markets.

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- It is hard to know how existing evidence of these strategies translates to a global pandemic context. The vast majority of evidence cited in this brief is based on analysis of the Great Recession and the ensuing recovery. The labor market disruptions caused by COVID-19 are qualitatively and quantitatively different than occurred in the Great Recession and even in the Great Depression. Economists and leading financial analysts suggest that conditions caused by the COVID-19 pandemic might be more akin to a natural disaster than the precipitating and resulting factors of other historic downturns such as those two (Burke 2020). Additionally, the policy responses of many countries to the pandemic, including the United States, are unlike any previous policy response to an economic crisis in scale, further muddling comparisons to previous policies or time periods.
- The impacts of the pandemic and resulting economic contraction are affecting groups differently. A mounting number of studies are showing the disparate and negative impacts of COVID-19 on the health and economic well-being of groups already disadvantaged, such as low-income earners, Black workers, women, and the young (Andreason 2020; Anders & Macmillan 2020; Byrne et al. 2020; Piyapromdee & Spittal 2020). Some subject matter experts are urging adoption of policy responses targeted to the groups most impacted by the pandemic and economic hardships (Fujita et al. 2020; Gonzalez-Uribe & Wang 2020).



Rapid Evidence Review Supplement: Citations and Further Information

This supplement to the rapid review, "What policies help businesses retain employees during an economic downturn?" provides citations and brief summaries of the studies discussed in the rapid review. The final section describes the approach used to create the rapid review.

CITATIONS AND STUDY SUMMARIES

This supplement presents the citations and summaries using the same organization as the rapid review with an additional category for other literature cited in the gaps in the research section. Each citation is included in each section in which it was referenced (which could be more than one), though the study is summarized only on first appearance. The subsections are as follows:

- 1. Work share or short-time compensation
- 2. Furloughs
- 3. Employment protection programs
- 4. Gaps in the research
- 1. Workshare and short-time compensation
- Abraham, K. G., & Houseman, S. N. (2013). Short-time compensation as a tool to mitigate job loss? Evidence on the U.S. experience during the recent recession. *Industrial Relations*, *53*(4), 543–567. <u>https://research.upjohn.org/cgi/viewcontent.cgi?referer=&httpsredir=1&article=1198&context=up_workingpapers</u>
- Type of research: Descriptive (quantitative)
- The authors examined the relationship between short-time compensation (STC) and employment by looking at aggregated employment outcomes for U.S. states with STC compared to states without STC from 2005 to 2009. They focused mainly on companies in the manufacturing sector, as this industry is a frequent user of STC. Using Current Employment Statistics (CES) data from the Bureau of Labor Statistics and regression models, the authors found that in states with STC, the hours for manufacturing employees were reduced but employment did not decline. This was especially true during 2008 and 2009. The authors argue that greater use of the STC program would have had a greater impact on aggregate job losses in the 17 states with STC.

Abraham, K. G., & Houseman, S. N. (2014). Proposal 12: Encouraging work sharing to reduce unemployment. *Policies to Address Poverty in America*, 129. Available at https://www.hamiltonproject.org/assets/legacy/files/downloads and links/work sharing abraham ho useman.pdf

• Type of research: Other (SME policy paper)

- The authors' goal was to present recommendations to the federal government on how to increase the use of work share in the **United States**. Drawing on their expertise and a review of the existing literature, the authors advise the government to take these steps to encourage the use of work share over layoffs:
 - 1. Make work-sharing a requirement for state UI programs.
 - 2. Change requirements to discourage state provisions that may discourage employer participation.
 - 3. Provide states with the capacity and funding to promote their programs.
 - 4. Subsidize payments during economic downturns.
- Andreason, S. (2020). *COVID-19, workers, and policy*. Center for Workforce and Economic Opportunity, Federal Reserve Bank of Atlanta. <u>https://www.frbatlanta.org/cweo/workforce-</u> <u>currents/2020/03/18/covid-19-workers-and-policy.aspx</u>
- Type of research: Other (policy paper)

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- This author used Bureau of Labor Statistics data from 2017 and 2018 to compare employees who can work remotely with those who cannot and attempts to identify approaches to support those unable to work remotely. The author provides statistics showing that less than 30 percent of U.S. employees can work remotely and that some who can are not able to do so consistently. Further, many employees who cannot work remotely do not have adequate paid time-off (PTO) allocated to them. The author suggests that viable options to ensuring job security as a result of the pandemic include state and employer expansion of PTO, expanding the Family and Medical Leave Act to include compensation for daily expenses, providing rapid response services (such as job training, referrals, and income supports), providing discretionary grants for dislocated workers, unemployment insurance, and work-sharing programs.
- Arranz, J. M., Garcia-Serrano, C., & Hernanz, V. (2018). Short-time work and employment stability: Evidence from a policy change. *British Journal of Industrial Relations, 56*(1), 189–222. <u>https://onlinelibrary.wiley.com/doi/abs/10.1111/bjir.12250</u>
- Type of research: Causal (quasi-experimental)
- The authors examined whether STW programs achieve their goal of preserving jobs and keeping workers employed in Spain. They used administrative data from the Continuous Sample of Working Life, an instrumental variable approach, and difference-in-difference regression models to analyze the effects of an STW intervention on Spanish workers in 2009. The authors found no significant impact of the intervention on the likelihood of remaining employed with the firm after one year and a negative relationship after two to three years. Specifically, the probability declined 4 percent after a year and 8 percent three years later.
- Balducchi, D. E., Wandner, S. A., Goger, A., Miller, Z., Shetty, S., Agbayani, C., & Eucogco, J. (2016). Employer views about the short-time compensation program: A survey and analysis in four states Final report (Contract Number: DOLQ121A21885. Task Order: DOLU121A21916.) U.S. Department of Labor, Employment and Training Administration.

https://wdr.doleta.gov/research/FullText_Documents/ETAOP-2016-01_Final-Report-Acc.pdf

• Type of research: Descriptive (quantitative)

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- The authors conducted a survey of 2,415 employers (77 percent using STC and 33 percent not using it) from four states (Kansas, Rhode Island, Minnesota, Washington) to investigate the awareness of, participation in, and perceptions of the STC program. They found that knowledge about and use of STC programs was limited, but both employers and employees who participated in the program were satisfied with it. Uptake was highest within the manufacturing sector and among businesses with skilled workers.
- Balleer, A., Gehrke, B., Lechthaler, W., & Merkl, C. (2015). Does short-time work save jobs? A business cycle analysis. *European Economic Review*, *84*, 99–122. <u>https://econpapers.repec.org/article/eeeeecrev/v_3a84_3ay_3a2016_3ai_3ac_3ap_3a99-122.htm</u>
- Type of research: Descriptive (quantitative)
- The authors conducted a case study to explore the relationship between short-term work (STW) and unemployment in Germany. The authors used Institute for Employment Research (IAB)
 Establishment Panel data, a representative panel-survey of German high ranked managers and simulation models to look at the differences between the base model of STW (rule-based STW) and discretionary components to the STW program. They found support for a direct positive effect of STW on unemployment within the rule-based component but not for the discretionary interventions.

Bauermann, T. (2020). Governmental policies to reduce unemployment during recessions: Insights from ABM. (Ruhr Economic Papers #847).

https://www.econstor.eu/bitstream/10419/217260/1/1698260466.pdf

- Type of Research: Descriptive (quantitative)
- The author used **simulation models** to investigate the efficacy of three common policy options governments can use to counteract the impacts of an impending recession: (1) reducing unemployment benefits (UB) while increasing job search requirements; (2) increasing fiscal stimulus through cash transfers; and (3) increasing use of STW. Using an agent-based macroeconomic (ABM) model, the author simulated the impact of each policy option on rates of unemployment in **Germany**. The author had several findings. First, reducing UB has no effect on unemployment in the short-term and limited effects in the long-term; offering higher UB leads to long-term increases in unemployment. Second, fiscal stimulus and STW policies both decrease short-term unemployment. Third, while fiscal stimulus and STW both support economic recovery by stabilizing demand, STW has the added benefit of stabilizing the supply side by allowing firms to adjust their output to meet shifts in demand.

Boeri, T., and Bruecker, H. (2011). Short-time work benefits revisited: Some lessons from the Great Recession, *Economic Policy 26*(68), 697–765. https://www.econstor.eu/bitstream/10419/52126/1/66530885X.pdf

- Type of research: Causal (quasi-experimental)
- The authors used **OECD (2010) data** from **1970 to 2009** to examine the impact of STW in several

countries during the Great Recession. The authors also used data from the **Institute for Employment Research (IAB) Establishment Panel** from **Germany** to do a micro-level analysis of the impact of STW there. Using **instrumental variables** in both sets of analyses, the authors found that STW contributed to reduced job losses during the crisis. However, the number of jobs saved was smaller than the full-time equivalents of jobs impacted, suggesting that there may have been some deadweight costs associated with these programs. Additionally, the authors claim that other institutions, like plant-level bargaining over hours, wages, and employment levels may be more effective than STW. Lastly, the authors caution that the STW programs vary greatly across countries.

- Burda, M. C., & Hunt, J. (2011). What explains the German labor market miracle in the Great Recession? Brookings Institution.<u>https://www.brookings.edu/wp-</u> content/uploads/2011/03/2011a_bpea_burda.pdf
- Type of research: Descriptive (quantitative)

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- In this descriptive study, the authors explore the extent that STW and work-time accounts contributed to Germany's recovery during the Great Recession. Using regression models with data from the German Federal Statistical Office and the Institute for Economic Research, they found that STW and the use of work-time accounts were associated with large reductions in person-work hours during the recession. Work-time accounts allow employees to acquire paid time off instead of overtime pay. This benefits the employer by deferring labor costs (they get the labor in the present but defer payment to the future). Germany's policy that requires employers to pay workers for any overtime/PTO they have if they are laid off incentivizes employers to avoid laying off workers.
- Cahuc, P., & Carcillo, S. (2011). Is short-time work a good method to keep unemployment down? *Nordic Economic Policy Review, 1*(1), 133–164.. <u>http://norden.diva-</u> <u>portal.org/smash/get/diva2:701988/FULLTEXT01.pdf</u>
- Type of research: Causal (quasi-experimental)
- The authors used OECD (2010) data on 25 OECD countries between 2007 and 2009 on shorttime work take-up rates and unemployment and employment quarterly data to investigate whether short-time work is a good method to keep unemployment down. Using an instrumental variable method, they found that short-time work programs used in the Great Recession had significant beneficial effects in preserving employment. However, the authors note that short-time compensation programs can also induce inefficient reductions in working hours and hence impede economic recovery.
- Cahuc, P., Kramarz, F., & Nevoux, S. (2018). When short-time work works. SSRN Electronic Journal. Sciences PO Economics Discussion Paper 2018-03. <u>https://spire.sciencespo.fr/hdl:/2441/6596a4s9af8lt872jnqvm5jg73/resources/2018-cahuc-et-al-when-short-time-work-works.pdf</u>
- Type of research: Causal (quasi-experimental)

- The authors examined how short-time work programs affected the employment rate in France during the Great Recession. Using a regression model and a causal identification strategy based on the geography of the program, they found that short-time work had a positive (but not significant) effect on employment growth and a positive, significant impact on the share of permanent jobs maintained and the survival of credit-restrained firms that faced large negative revenue shocks. The authors did not find impacts for firms that faced smaller revenue shocks.
- Cahuc, P., & Nevoux, S. (2019). *Inefficient short-time work*. Sciences PO Economics Discussion Paper 2019-03. <u>https://spire.sciencespo.fr/hdl:/2441/68ufmnnh3j9vmblf03huqt18qe/resources/2019-cahuc-and-nevoux-inefficient-short-time-work.pdf</u>
- Type of research: Causal (quasi-experimental)

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- The authors examined whether the short-time work subsidy reforms following the 2008-2009
 Great Recession were an efficient use of public funds in France. They focused on firms that used short-time work between 2002 and 2014. The authors exploited seasonal variation in employment and an instrumental variable approach to demonstrate increased use of short-time work from 2008 to 2014 and that reducing the use of systematic short-time work would have been economically efficient. They conclude that more research is needed to better understand the best combination of UI policies to maximize use of short-time work among firms that need it without encouraging the use of the policy by firms that do not need it.
- Dias da Silva, A., Dossche, M., Dreher, F., Foroni, C., & Koester, G. (2020). *Short-time work schemes and their effects on wages and disposable income*. European Central Bank: Eurosystem. <u>https://www.ecb.europa.eu//pub/economic-bulletin/focus/2020/html/ecb.ebbox202004_06~6b0e718192.en.html</u>
- Type of research: Descriptive (quantitative)
- The authors suggest that short-time work (STW) schemes are effective in cushioning the economic decline in the European Union (EU) resulting from the COVID-19 pandemic. Using data from the European Central Bank and other sources, they analyzed the STW policies of the five largest countries in the EU (Germany, Italy, Spain, France, and the Netherlands). They calculated wage-replacement rates (the percentage of annual income that is replaced by STW compensation) and estimate STW take-up rates (the percentage of people eligible for compensation benefits who take advantage of it). While the impacts of STW were found to vary according to the extent of reduction in working time, the authors conclude that STW benefits are significantly mitigating the negative effects of the pandemic on households' disposable income while also reducing income uncertainty.

Elsby, M. W. L., Hobijn, B., & Sahin, A. (2010). *The labor market in the Great Recession*. Brookings Papers on Economic Activity. <u>https://www.brookings.edu/wp-</u> <u>content/uploads/2010/03/2010a bpea_elsby.pdf</u>

• Type of research: Descriptive (quantitative)

 In this paper the authors used Job Openings and Labor Turnover Survey data to examine the long-term effects of the Great Recession on the U.S. labor market. The authors describe two trends to be wary of: (1) record increases in long-term unemployment yield, which may lead to persistently long-term unemployed workers with weak search effectiveness; and (2) extension of unemployment compensation, which may lead to a modest increase in unemployment.

Gonzalez-Uribe, J., & Wang, S. (2020). *The effects of small-firm loan guarantees in the UK: Insights for the COVID-19 pandemic crisis*. <u>https://juanitagonzalez-uribe.net/wp-</u>content/uploads/2019/10/Dissecting_constraints_JGU_SW.pdf

• Type of research: Causal (quasi-experimental)

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In this quasi-experimental (instrumental variables) study, the authors examined the effects of the Enterprise Finance Guarantee (ERG), a guarantee program for small businesses in the United Kingdom (UK) implemented during the Great Recession. Using a difference in difference approach, the authors found that after the program launched eligible firms increased their borrowing, profits, survival, productivity, and employment but not their investment. Using an instrumental variables approach, they found that results are driven by firms with employees who have high training costs. Results suggest that the guarantees enabled a small number of firms to retain workers, helping them rebuild the businesses after the crisis. For the COVID-19 crisis, however, the authors conclude that responses based on guarantees alone will leave out poorer workers, who are more likely to have jobs with low training costs.

Guipponi, G. & Landais, C. (2020). *Building effective short-time work schemes for the COVID-19 crisis*. VOX CEPR Policy Portal. <u>https://voxeu.org/article/building-effective-short-time-work-schemes-covid-19-crisis</u>

- Type of research: Other (SME opinion piece)
- The authors of this blog post argue that the **COVID-19 crisis**, with its mandated reduction in hours of work and massive liquidity crunch for firms, is a textbook case for the use of short-time work. Taking into account available evidence and the current situation, the authors propose guidelines to effectively implement STW.

Herzog-Stein, A., Horn, G. A., & Stein, U. (2013). Macroeconomic implications of the German shorttime work policy during the Great Recession. *Global Policy*, *4*, 30–40. <u>https://onlinelibrary.wiley.com/doi/full/10.1111/1758-5899.12054</u>

- Type of research: Descriptive (quantitative)
- In this study, the authors used data from the Federal Employment Office and IAB to examine the macroeconomic implications of STW, particularly focusing on the quantification of safeguarded jobs in Germany during the Great Recession. Using macroeconomic models, the authors found that STW played an important role in safeguarding employment during the economic crisis. However, other policies—such as working time accounts, contractual arrangements on working time reductions, and reductions of overtime—were equally important. The authors conclude that these features of the German employment model are key to understanding the country's success in maintaining employment during the recession.

- Hijzen, A., & Martin, S. (2013). The role of short-time work schemes during the global financial crisis and early recovery: a cross-country analysis. *IZA Journal of Labor Policy*, *2*(5). https://izajolp.springeropen.com/track/pdf/10.1186/2193-9004-2-5
- Type of research: Causal(quasi-experimental)

LEAR

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- The authors evaluated the impact of short-time work (STW) schemes on labor market outcomes such as employment rates, average hours worked, and total hours worked in OECD countries during the Great Recession. Exploiting variation in take-up rates by country over time, the authors found that STW increased flexibility in working hours and helped preserve jobs by helping maintain employment and reduce unemployment. However, the authors also found the continued use of STW during the recovery period had a negative effect on employment.
- Hijzen, A., & Venn, D. (2011). The role of short-time work schemes during the 2008–09 recession (OECD Social, Employment and Migration Working Papers). Organisation of Economic Co-operation and Development. <u>https://www.oecd-ilibrary.org/social-issues-migration-health/the-role-of-short-time-work-schemes-during-the-2008-09-recession_5kgkd0bbwvxp-en</u>
- Type of research: Causal (quasi-experimental)
- The authors evaluated the impact of (STW schemes on employment and average hours worked in 16 OECD countries during the recession of 2008 and 2009. Using a regression model, the authors exploited country and time variation in take-up rates to analyze the quantitative impacts of STW schemes on employment and average hours worked. They found that STW schemes helped preserve permanent jobs and promoted average hour reductions for permanent workers during the downturn. However, the authors did not find any significant impact on the employment and average hours of temporary workers.
- Houseman, S., O'Leary, C. J., Abraham, K. G., Bennici, F., Labin, S., & Sigman, R. (2017). *Demonstration and evaluation of the short-time compensation program in Iowa and Oregon*. W. E. Upjohn Institute for Employment Research.

https://research.upjohn.org/cgi/viewcontent.cgi?article=1081&context=externalpapers

- Type of research: Causal (experimental)
- The authors' objective was to assess the effectiveness of an intervention to raise awareness of STC among employers and their interest in and use of it. They conducted a randomized controlled trial comparing an intervention to increase use of STC in lowa and Oregon. The authors found that the intervention was more effective in Oregon than in Iowa. While Oregon saw 19 to 24 more plans following the intervention (both among firms already using STC and those new to the program), there was no effect on the use of STC in Iowa. The authors argue that continued outreach about STC will be important, particularly during a recession, until the program becomes well-known.
- Kopp, D., and Siegenthaler, M. (2019). *Short-time work and unemployment in and after the Great Recession*. KOF Swiss Economic Institute Working Paper 462. <u>https://www.econstor.eu/bitstream/10419/204798/1/1676275878.pdf</u>

• Type of research: Causal (quasi-experimental)

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 These authors examined whether the Swiss short-time work (STW) program reduced unemployment from 2009 to 2015. The authors used quarterly establishment-level panel data and several administrative data sources to compare changes in permanent layoffs into unemployment and establishment survival and size for establishments that applied successfully compared with establishments that applied unsuccessfully for STW (the authors make the case that this group is a valid control group). The authors suggest that STW increases the likelihood of establishment survival and prevents rather than postpones dismissals; their study estimated that the 7,880 establishments treated in 2009 would have dismissed approximately 20,500 workers into unemployment (0.46 percent of the labor force) until 2012 without STW.

Organisation for Economic Co-operation and Development (OECD). (2010). OECD employment outlook 2010: Moving beyond the jobs crisis. OECD Publishing, Paris. <u>http://www.oecd.org/employment/emp/48806664.pdf</u>

- Type of research: Causal (quasi-experimental)
- This book chapter discusses the OECD (2010) updated findings on labor markets developments and policy responses in its participating countries during, and in the recovery phase of, the recession of 2008 and 2009. Using cross-country variation in take-up rates as an instrument, OECD found that in many countries STW schemes played an important role in preserving jobs during the crisis. Effects were particularly large in Germany and Japan, where OECD estimates STW accounts saved over 200,000 and nearly 400,000 jobs respectively by the third quarter of 2009. STW also had substantial impacts on employment in Belgium, Finland, and Italy. The positive impact on employment was limited to workers with permanent contracts as opposed to temporary or part-time jobs.
- Skuterud, M. (2007). Identifying the potential of work-sharing as a job-creation strategy. *Journal of Labor Economics*, *25*(2), 265–287.

https://econpapers.repec.org/article/ucpjlabec/v_3a25_3ay_3a2007_3ap_3a265-287.htm

- Type of research: Causal (quasi-experimental)
- The author evaluated the impact of Quebec's work-sharing policy on job creation. Using data from the Canadian Labour Force Survey between 1996-2002, and a triple-difference approach, the author observed a 20 percent decrease in weekly hours of work beyond 40 among full-time, hourly, non-unionized workers. Further, evidence suggests that the policy failed to raise employment at either the provincial level or within industries.

Steiner, V., & Peters, R.-H. (2000). Employment effects of work sharing: An econometric analysis for West Germany. ZEW Discussion Papers 00-20, ZEW–Leibniz Centre for European Economic Research. <u>https://ideas.repec.org/p/zbw/zewdip/5305.html</u>

- Type of research: Descriptive (quantitative)
- The authors examined the effects of a reduction in weekly hours in the **West German** manufacturing industry on employment from **1978 to 1995** using econometric models based

on industry panel data. For the analysis, they categorized workers into unskilled, medium-skilled, and high-skilled groups. Based on wages, they found no direct employment effect from a reduction in weekly hours for any group. However, after adjusting wages for income lost due to the reduction, the authors found an indirect negative effect on employment for unskilled and medium-skilled groups and that the negative effect was stronger for unskilled workers.

- Walsh, S., London, R. A., McCanne, D., Needels, K., Nicholson, W., & Kerachsky, S. (1997). Evaluation of short-time compensation programs: Data set. (No. 7b239a4765ab4852bbc552adc75b74a0).
 Mathematica Policy Research. <u>https://www.mathematica-mpr.com/-/media/publications/pdfs/labor/short-time_compensation_fnlrpt.pdf</u>
- Type of research: Causal (quasi-experimental)

LEAR

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• The authors focused on short-time compensation programs (STC) implemented in **California**, **Florida**, **Kansas**, **New York**, **and Washington** in **1992**. Using a **matched comparison group** approach, they analyzed the effects of STC on employees by comparing participating states to their matched non-participating states. The authors found that among firms using STC, layoffs remained the primary workforce reduction strategy and that firms continued to lay off employees while using STC. These firms had substantially higher average UI charges compared to STC charges, and experienced higher UI charges than firms that did not use STC. STC did not appear to benefit ethnic and racial minorities, young people, or women, and there was no evidence that STC disproportionately protected the jobs of these groups. On a positive note, the authors found that STC does not appear to threaten the solvency of state Unemployment Trust Funds (UTFs). STC benefits were at least fully experience rated as other UI benefits and were quickly regained through higher taxes. However, the authors concluded that UTF impacts could be more serious if STC participation rates were much higher and overall shifts in tax schedules more constrained.

2. Furloughs

- Baranik, L. E., Cheung, J. H., Sinclair, R. R., & Lance, C. E. (2019). What happens when employees are furloughed? A resource loss perspective. *Journal of Career Development*, *4*6(4), 381–394. <u>https://journals.sagepub.com/doi/pdf/10.1177/0894845318763880</u>
- Type of research: Descriptive (quantitative)
- The authors examined how furloughs affect employees' well-being (level of burnout, work-family conflict, and life satisfaction). Their descriptive study is based on **surveys** of 221 **U.S.** workers employed at the time of the survey in **2013**, the year of a federal government shutdown. **Using descriptive statistics**, the authors suggest that a furlough was associated with the loss of resources, which was related to decreases in life satisfaction and increases in work-family conflict and burnout five weeks after the shutdown ended. They found that individuals who perceived the furlough as causing greater resource loss had more negative reactions to being furloughed. The authors suggest that their findings demonstrate that furloughs can negatively affect employees and that these effects persist after the furlough has ended.

Boccia, R., Burke, L., Burton, D., Greszler, R., Michel, A., Michel, N., Schwalbach, J., Sheppard, P., &

Winfree, P. (2020). Congress should focus on pandemic control and fix the CARES Act for an economic rebound. Heritage Foundation Backgrounder No. 3484.

http://report.heritage.org/bg3484

• Type of research: Other (policy paper)

LEAR

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• The authors of this report highlight problems with the **Paycheck Protection Program (PPP)** and recommend changes. Specifically, the authors advise Congress to focus on containing the coronavirus through targeted, temporary measures that keep workers attached to employers and avert widespread business failures. Further, they argue that stimulus spending on unrelated projects would do nothing to reduce the virus's spread and will likely impede economic recovery. The authors caution Congress to fix problems introduced in the hastily drafted CARES Act.

Ginsburg, J. A., & Liu, Y. (2010). *Layoffs and alternatives to layoffs*. Worcester Polytechnic Institute. <u>https://digitalcommons.wpi.edu/iqp-all/2451</u>

- Type of research: Descriptive (quantitative and qualitative)
- In this descriptive study, the authors assessed the effects of layoffs and alternatives to layoffs. The authors conducted **surveys with a nonrepresentative sample of 325 U.S. firms** to describe the effects of layoffs and their alternatives, their uses in industry, and their impact on firms. Using **descriptive statistics and regression models**, they explored whether alternatives were used more frequently than layoffs, whether layoffs and alternatives were effective at cutting costs, and whether a company's culture played any role in whether the firm chose layoffs over alternate strategies. Layoffs were the most frequently used cutback strategy among the 54 firms that responded (a response rate of 16 percent).

Gonzalez-Uribe, J., & Wang, S. (2020). See description in Section 1.

Jacobs, K. (2009). *The high cost of furloughs*. University of California, Berkeley, Center for Labor Research and Education. <u>http://laborcenter.berkeley.edu/pdf/2009/furloughs09.pdf</u>

- Type of research: Descriptive (quantitative)
- In this brief, the author assessed how furloughs are an inefficient method for addressing budget deficits. The author used descriptive statistics to analyze data from the Office of the State Controller and assess the net savings to the California State General Fund for fiscal year 2009-2010. They conclude that the California state government furloughs in fiscal year 2009–2010 were a particularly inefficient form of budget savings. They state that each dollar cut from the state's general fund saved less than 37 cents in wages and benefits for that fiscal year, and this savings fell to 11 cents once losses from subsequent years were factored in.
- Lee, S., & Sanders, R. M. (2013). Fridays are furlough days: The impact of furlough policy and strategies for human resource management during a severe economic recession. *Review of Public Personnel Administration*, 33(3), 299-311. <u>https://journals.sagepub.com/doi/pdf/10.1177/0734371X13477426</u>
- Type of research: Descriptive (quantitative)

- The authors examined various effects of furloughs on management and employee performance of state-government employees in Georgia in September 2010. During that time, most state agencies furloughed workers on Fridays, to minimize the loss of productivity and maximize workers' flexibility in using time off. The authors surveyed 273 state employees from five randomly selected state agencies (a response rate of 39 percent). Using descriptive statistics, they found a positive, significant correlation between furlough days taken and the severity of the financial burden on employees. Further, a majority of those employees either agreed or strongly agreed that job satisfaction had decreased though their work functioning neither deteriorated nor increased. Most workers either stayed home and relaxed or continued to work on their job assignments, and most planned on searching for another full-time job or secondary job. Further, a majority of sampled workers reported noticing either a moderate or substantial decrease in staff morale. Additionally, the authors found that the financial burden is significantly associated with employees' perception of policy appropriateness, and organizational measures to soften the consequences of furloughs had a significantly positive relationship with employees' perception of policy appropriateness. Agency innovation in dealing with furloughs was an important predictor of employees' perception of policy appropriateness.
- Richtel, M., & Leonhardt, D. (2008, December 21). More companies cut labor costs without layoffs. *The New York Times*. <u>http://www.nytimes.com/2008/12/22/business/22layoffs.html</u>
- Type of research: Other (news article)

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• The authors discussed short-term cost-saving alternatives to layoffs that allow organizations to retain their staff, while also saving money during an economic downturn. Authors review voluntary salary reduction, unpaid vacation time, end-of-year shutdowns, four-day workweeks, and benefits reductions, such as 401(k) contributions, as options for organizational savings. These interventions may allow a company to save money in the short-term, while holding on to their staff for when the economy improves. However, making cuts repeatedly may lead to discontent among workers.

Sucher, S., & Gupta, S. (2018, May–June). Layoffs that don't break your company. *Harvard Business Review*, 122–129. <u>https://hbr.org/2018/05/layoffs-that-dont-break-your-company</u>

- Type of research: Other (policy paper)
- The authors of this study discuss alternatives to laying off workers while arguing that poorly planned and poorly reasoned layoffs often fail to meet their cost-saving goals. The authors cite studies that when companies implement layoffs, they often see neutral or negative effects on their stock price, persistent lower profitability, increased chances of filing for bankruptcy, lower worker productivity, lower employee commitment, lower job satisfaction, and higher worker turnover. Layoffs are a short-term solution, but organizations may want to seek longer-term solutions to better sustain themselves in volatile market conditions. As an alternative to layoffs, the authors suggest, organizations may want to consider developing a new long-term strategy and engaging in practices such as overhauling their workforce by retraining employees and aiding workers in pursuing interests that may lead to business development opportunities.

- Xie, Z. (2020). Changes in state unemployment insurance rules during the COVID-19 outbreak in the U.S. Federal Reserve Bank of Atlanta's Policy Hub No. 02-2020. <u>https://www.frbatlanta.org/-/media/documents/research/publications/policy-hub/2020/04/09/changes-in-state-unemployment-insurance-rules-during-the-covid-19-outbreak-in-the-us.pdf</u>
- Type of research: Other (policy paper)

Clearinghouse for Labor Evaluation and Research

The COVID-19 pandemic led to an unprecedented expansion in unemployment insurance (UI) eligibility across states. While more than 40 states had modified UI rules by the end of March, all states did not respond in the same way. The author summarizes the changes to state UI rules in response to the crisis and explores factors that contributed to the variation in states' responses. Key findings include: (1) states differ on whether and how they extend UI eligibility to workers who are unable to work due to quarantine, COVID-19 related illness, caring for sick family or at-home children; (2) the service sector share of employment in a state is positively correlated with extended UI eligibility coverage; and (3) the number of confirmed COVID-19 cases is only weakly correlated with UI eligibility expansion while the solvency of a state's UI fund does not limit the expansions.

3. Employment protection programs

- Aaronson, S., & Alba, F. (2020, April 15). *The unemployment impacts of COVID-19: Lessons from the Great Recession*. Brookings Institution. <u>https://www.brookings.edu/blog/up-front/2020/04/15/the-unemployment-impacts-of-covid-19-lessons-from-the-great-recession/?preview_id=795224</u>
- Type of research: Descriptive (quantitative)
- The authors used U.S. Unemployment Insurance claims data and data from the American Community Survey from 2005 to 2018 to examine how shocks to the economy, such as the current pandemic, play out at the metropolitan level, specifically focusing on unemployment rate. The authors use descriptive analysis to show that there is a persistence in unemployment rates across metropolitan areas, with a positive relationship between past and current unemployment. Idiosyncratic shocks (like COVID-19) disrupt this persistent relationship, but metropolitan economies adjust over time. Finally, the results show that unemployment rates vary across metropolitan areas, and areas with higher employment rates can better weather economic shocks than those with lower rates. The authors advise policymakers to take these findings into account when providing relief funds and crafting policies to address the current economic downturn.
- Barrios, J. M., Minnis, M., Minnis, W. C., & Sijthoff, J. (2020). *Assessing the Payroll Protection Program: A framework and preliminary results*. University of Chicago, Becker-Friedman Institute, Working Paper No. 2020-63. <u>https://bfi.uchicago.edu/wp-content/uploads/BFI_WP_202063.pdf</u>
- Type of research: Descriptive (quantitative)
- In this descriptive study, the authors develop a prediction model using public payroll and tax data from the United States to predict requests for the Paycheck Protection Program and then compare those predictions to actual allocations based on Small Business Association data from the first and second rounds of funding. The model predicts that requests could total \$750 billion,

surpassing the \$660 billion allocated. The authors also found that the program's allocations across states, industries, and firm sizes generally follows how the program was intended when designed.

Beinhocker, E. (2020). *Estimating the costs of a U.S. paycheck guarantee*. INET Oxford Working Paper No. 2020-07. <u>https://www.inet.ox.ac.uk/files/Paycheck-Guarantee-Costing-4-14-20-UPDATED.pdf</u>

• Type of research: Descriptive (quantitative)

Clearinghouse for Labor Evaluation and Research

- The author analyzed **Social Security Administrations (SSA) Wage Statistics data** from **2018** to project the potential fiscal costs of introducing paycheck guarantees in the **United States**. Using **regression analysis**, the author found that a program providing a 100 percent paycheck guarantee for all private sector workers, capped at an annual salary of \$100,000 and including health care benefits, would cost approximately \$115.7 billion per month, or \$347 billion for three months. The author considers the sensitivity of this estimate to various assumptions as well as alternative proposal scenarios and concludes that the benefits of such a program in preserving employment outweigh the fiscal costs.
- Belz, S., & Sheiner, L. (2020, March 23). *How will the coronavirus affect state and local government budgets?* Brookings Institution. <u>https://www.brookings.edu/blog/up-front/2020/03/23/how-will-the-coronavirus-affect-state-and-local-government-budgets/</u>
- Type of research: Other (policy paper)
- In this article, the authors examined the effects the COVID-19 pandemic may have on state and local government budgets. The authors argue that although states came into the pandemic with record-high rainy-day funds, a pro-longed pandemic may force state governments to reduce spending, adversely affecting people's lives. The authors then identify ways the federal government can support the states financially, drawing upon data and lessons learned from the Great Recession.

Bennedsen, M., Larsen, B., Schmutte, I., & Scur, D. (2020). *Preserving job matches during the COVID-19 pandemic: Firm-level evidence on the role of government aid.* http://ide.mit.edu/sites/default/files/publications/bennedsen_larsen_schmutte_scur.pdf

- Type of research: Descriptive (quantitative)
- The authors examined the economic impact of government policies on firms in **Denmark during** the COVID-19 pandemic. Using survey data collected from a nationally representative sample of
 10,642 Danish firms of different sizes, the authors found that, compared to a normal year, 25
 percent more firms experienced revenue decreases greater than 35 percent. They also examined
 the portion of firms that received different types of aid (labor-based, fixed-cost support, or fiscal based tax delays). The authors show that firms that used labor-based aid reported fewer layoffs
 and more furloughs, although they emphasize that this should not be interpreted as a causal
 relationship.
- Boccia, R., Burke, L., Burton, D., Greszler, R., Michel, A., Michel, N., Schwalbach, J., Sheppard, P., & Winfree, P. (2020). See description in Section 2.

- Burke, L., Burton, D., Fishpaw, M., Greszler, R., Michel, A., Michel, N., Sheppard, P., & Winfree, P. (2020) *The Senate's coronavirus bill: Bailouts, missed opportunities, and positive reforms*. Heritage Foundation. Backgrounder No. 3479. <u>http://report.heritage.org/bg3479</u>
- Type of research: Other (policy paper)

Clearinghouse for Labor Evaluation and Research

- The authors discuss government financial interventions provided under the CARES Act and how
 they may be improved. Interventions discussed include government loans to air carriers and other
 large industries, small business loans, labor incentives, direct payments to citizens, grants to
 improve health care accessibility, and student debt forbearance. The authors outline these
 interventions along with their positives and negatives, then offer policy alternatives. Those
 alternatives include targeted sick leave, waiving rules on retirement plan minimum distribution,
 federal pre-purchasing for goods and services that it can predict it will need in the future, and
 expanding the CARES Act and Families First Coronavirus Response Act (FFCRA) tax credit to
 businesses with over 500 employees. Such policies may offer direct cash infusions into businesses
 hobbled by the COVID-19 pandemic by more targeted means that could have better long-term
 impacts.
- Chetty, R., Friedman, J. N., Hendren, N., Stepner, M., & Opportunity Insights Team. (2020). *How did* COVID-19 and stabilization policies affect spending and employment? A new real-time economic tracker based on private sector data. <u>http://iepecdg.com.br/wp-</u> content/uploads/2020/06/tracker_paper.pdf
- Type of research: Descriptive (quantitative)
- In this study, the authors used data from credit card processors, payroll firms, and financial services firms from the United States to construct descriptive statistics on consumer spending, employment rates, business revenues, and other local metrics to estimate the impacts of the federal government's response to COVID-19. The authors show that COVID-19 was associated with a sharp decline in consumer spending by high-income individuals, which reduced revenues of businesses catering to those households (particularly small businesses in affluent areas) and high unemployment claims in these areas. The authors state that stimulus payments and Paycheck Protection Program loans had little effect on small businesses and employment. The authors posit that these results suggest that traditional macroeconomic responses to the crisis were not effective and that social insurance may better mitigate the consequences of a pandemic.

Gonzalez-Uribe, J., & Wang, S. (2020). See description in Section 1.

- Granja, J. Makridis, C., Yannelia, C., & Zwick, E. (2020). *Did the Paycheck Protection Program hit the target?* No. 27095. National Bureau of Economic Research. <u>https://www.nber.org/papers/w27095.pdf</u>
- Type of research: Descriptive (quantitative)

 The authors used data from the U.S. Small Business Association and Reports of Condition and Income (Call Reports) filed by all active commercial banks in the fourth quarter of 2019 to describe how PPP loans were distributed as of April 15, 2020. The authors contend that the loans did not go to hardest hit places. They suggest that the top four banks accounted for 36 percent of small business loans before PPP but disbursed less than 3 percent of all PPP loans.

Humphries, J. E., Nielson, C., & Ulyssea, G. (2020). *The evolving impacts of COVID-19 on small businesses since the CARES Act*. Cowles Foundation Discussion Paper No. 2230. Yale University. <u>https://cowles.yale.edu/sites/default/files/files/pub/d22/d2230.pdf</u>

• Type of research: Descriptive (quantitative)

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- The authors present evidence on how small business owners have been impacted by COVID-19 and the passage of the CARES Act. The authors collected **survey data** from more than 8,000 **small business owners** in the **United States between March 28, 2020, and April 20, 2020.** The authors used **descriptive analyses** and reached three main findings:
 - 1. Surveyed small business owners were already severely impacted by COVID-19-related disruptions by the time Congress passed the CARES Act; 60 percent had already laid off at least one worker.
 - 2. Business owners' expectations about the future were negative and had deteriorated throughout the study period.
 - 3. Smallest businesses had less awareness of government assistance programs than larger firms.
- Liu, H., & Volker, D. (2020). *Where have the Paycheck Protection Loans gone so far?* Liberty Street Economics, Federal Reserve Bank of New York.

https://libertystreeteconomics.newyorkfed.org/2020/05/where-have-the-paycheck-protection-loans-gone-so-far.html

- Type of research: Descriptive (quantitative)
- In this study, the authors used data from the U.S. Small Business Administration and the U.S. census to examine the allocation of paycheck protection loans as part of the Payment Protection Program (PPP) of the CARES Act. Using descriptive statistics, the authors found that some of the hardest hit areas (especially in the Northeast) received fewer loans than states in less affected areas. Further, they found no statistically significant relationship between the severity of economic hardship and the prevalence of PPP loans in a state. The authors provides evidence that the prevalence of PPP loans in a state is influenced by the existence of previous bank financing relationships as well as whether states have a higher proportion of community banks. Overall, the hardest hit industries received the most funding.
 - 1. Small business owners had already laid off many employees due to disruptions related to COVID-19 by the time Congress passed the CARES Act.
 - 2. Business owners' expectations about the future were negative and continued to decline through the sample period.

- 3. Small businesses may have missed out on initial PPP aid because of lack of awareness.
- McGaughey, E. (2020, May 13). COVID-19 and job security: How to prevent a 'pandemic of unemployment.' The London School of Economics and Political Science: British Politics and Policy. https://blogs.lse.ac.uk/politicsandpolicy/covid19-job-security/
- Type of research: Other (opinion piece)

FAR

Clearinghouse for Labor Evaluation and Research

In this blog post, the author argues that job security is the greatest defense against the impending economic depression. The author suggests that the United States is in the worst position economically because it has the worst job security in the world. The United Kingdom is in a similar (albeit better) position because its job security measures are minimal at best. The author asserts that in order to withstand the coming depression, job security must be increased by freezing dismissals, creating right-to-work councils, and providing government job guarantees and universal income to employees through the Social Security program.

Maria-Barrero, J., Bloom, N., & Davis, S. J. (2020). *COVID-19 is also a reallocation shock* (NEBR Working Paper No. 27137). National Bureau of Economic Research. <u>https://www.nber.org/papers/w27137</u>

- Type of research: Descriptive (quantitative)
- In this study, authors used firm expectations from the Survey of Business Uncertainty to construct reallocation measures for jobs and sales in the United States. The authors found that firms expected to hire 3 new employees for every 10 lay-offs caused by COVID-19, and that 42 percent of jobs lost will be permanent. The authors suggest that unemployment benefits that exceed worker earnings, policies subsidizing employee retention, licensing restrictions, and barriers to business formation will hinder reallocation responses to COVID-19.

Organisation for Economic Co-operation and Development (OECD). (2010) See description in Section 1.

Stiglitz, J. (2020). *Four priorities for pandemic relief efforts*. The Roosevelt Institute. <u>https://rooseveltinstitute.org/wp-content/uploads/2020/04/RI_Four-Priorities-for-Pandemic-Relief-Effort-WP-202004-1.pdf</u>

- Type of research: Other (SME policy paper)
- In this policy paper, the author provides policy recommendations for addressing the economic effects of COVID-19, based on the effectiveness of similar policies. The author cites raw data from sources such as OECD and The World Economic Outlook Database, as well as findings from published studies. The author raises issues with current policies in response to the pandemic, as well as historical policy trends in creating their policy recommendations. The author makes four recommendations:
 - 1. Provide workers with federal relief, including a minimum of 10 days of paid sick leave, to protect workers, workplaces, and employers from exposure to the contagion
 - 2. As an alternative to the CARES Act, provide federal funds directly to employers who retain workers, making up for any shortfalls in revenue

- 3. Provide supplemental government support for employers to train employees who are not fully productive
- 4. Increase education and Medicare funds for state and local governments and maintain or increase the liquidity of firms and households with debt relief programs while being mindful of the sectors that receive funding.

Thompson, D., & Grabowski, L. (2020). Are labor market institutions countercyclical? Socius:

- Sociological Research for a Dynamic World, 6, 1–15. <u>https://doi.org/10.1177/2378023120921620</u>.
- Type of research: Descriptive (quantitative)

IFAR

Clearinghouse for Labor Evaluation and Research

The authors used time-series data for 21 OECD countries from 1985 to 2012 to examine the relationship between labor market institutions and employment outcomes, primarily rates of unemployment. Using time-series cross-section regression models, they found that unemployment insurance and employment protection laws can play important roles in stabilizing markets during financial crises. Unemployment insurance helps by stabilizing demand; employment protection decreases the cyclical aspect of employment, discouraging firms from shedding workers in economic downturns.

4. Gaps in the research

Abraham, K. G., & Houseman, S. N. (2014). See decription in Section 1.

Andreason, S. (2020). See decription in Section 1.

- Anders, J., & Macmillan, L. (2020). *Briefing note: The unequal scarring effects of a recession on young people's life chances*. Center for Education Policy & Equalising Opportunities. <u>https://repec-cepeo.ucl.ac.uk/cepeob/cepeobn6.pdf</u>
- Type of research: Other (policy paper)
- in this article, the authors examined the relationship between economic recessions and the future prospects of youth in the United Kingdom within the context of COVID-19. Using an extensive review of past literature, the authors suggest that young workers who leave education early or experience delayed entry into the job market experience longer periods of unemployment well-into their careers (10 or more years in some cases) and may experience a permanent significant reduction in earning potential. The authors further suggest that these effects are more pronounced in youth who are economically and socially disadvantaged (that is, those from low-income families or those who have little education). The authors use past literature to suggest that these "scarring effects" can be mitigated by instituting multifaceted programs supporting job searches and subsidizing employment, while supporting a wide range of educational opportunities for youth to develop relevant skills for the job market.
- Byrne, S., Coates, D., Keenan, E., & McIndoe-Calder, T. (2020).*The initial labour market impact of COVID-19*. No. 04/EL/20. Central Bank of Ireland, <u>https://ideas.repec.org/p/cbi/ecolet/04-el-20.html</u>

• Type of research: Descriptive (quantitative)

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- The authors examined job losses in **Ireland since the outbreak of COVID-19.** Using **descriptive analyses** of **administrative and survey data**, they found that job losses were more concentrated in the accommodations, food services, and retail sectors. Younger workers and those with lower incomes experienced the greatest job losses. Larger firms were more successful in retaining links with employees through the Temporary Wage Subsidy Scheme, which allows workers to receive government support directly through employer payroll.
- Fujita, S., Moscarini, G., & Postel-Vinay, F. (2020). *The labour market policy response to COVID-19 must leverage the power of age*. VoxEU. https://voxeu.org/article/labour-market-policy-response-covid-19-must-leverage-power-age
- Type of research: Other (SME opinion piece)
- In this article, the authors offer insight into how labor market policy could address the COVID-19
 pandemic. The authors suggest that age and work experience are the most significant predictors
 of the social value of a job match and that the market should aim to preserve the jobs of
 experienced workers while reallocating essential jobs to younger, less-experienced workers.

Gonzalez-Uribe, J., & Wang, S. (2020). See description in Section 1.

Granja, J. Makridis, C., Yannelia, C., & Zwick, E. (2020). See description in Section 2.

Houseman, S., O'Leary, C. J., Abraham, K. G., Bennici, F., Labin, S., & Sigman, R. (2017). See description in Section 1.

Humphries, J. E., Nielson, C., & Ulyssea, G. (2020). See description in Section 2.

- Piyapromdee, S., & Spittal, P. (2020). *The income and consumption effects of COVID-19 and the role of public policy* (Discussion Paper No. 141). Puey Ungphakorn Institute for Economic Research. <u>https://www.pier.or.th/wp-content/uploads/2020/06/pier_dp_141.pdf</u>
- Type of research: Descriptive (quantitative)
- The authors examined the labor market impacts of COVID-19 across workers' incomes, assets, characteristics, and household structures in the United Kingdom. Using nationally representative data from the UK Household Longitudinal Study, the authors found that less educated and younger employees were more likely to be laid off, especially if they were female. These workers also had low income and low assets. Using a quantitative assessment of the likely impact of COVID-19 on households' consumption, the authors found that 70 percent of households in the bottom fifth of income distribution cannot maintain their usual expenditure for more than a week. Further, the authors found that both the United Kingdom's Coronavirus Job Retention Scheme (CJRS) and the United States' Economic Impact (EI) payments can alleviate consumption inequalities, with EI payments being more effective in the short-term and the CJRS more so in the long term.



Walsh, S., London, R. A., McCanne, D., Needels, K., Nicholson, W., & Kerachsky, S. (1997). See description in Section 1.

ABOUT THE RAPID REVIEW

FAF

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CLEAR's rapid review of evidence on programs or strategies related to employee retention was created by Mathematica under the CLEAR contract with the U.S. Department of Labor (DOL), Chief Evaluation Office (CEO). The contents of the review do not represent the views or policies of DOL.

Due to the rapid turnaround for this review, the evidence scan did not follow CLEAR's documented systematic approach. The evidence scan for this review had four components. First, CLEAR conducted a literature search using the Business Source Corporate Plus database and Google Scholar. The search terms used for each strategy are provided in Table 1. CLEAR searched for literature published in 2007 or later. Second, CLEAR reached out to three experts in labor-related fields to seek input on programs and studies to include in the review. Third, citations from relevant studies were used to identify additional studies for review. Finally, CLEAR conducts weekly searches to identify additional research released since the initial search. This version of the brief was last updated with literature published before June 30, 2020; evidence continues to be monitored.

Strategy	Topic search terms ^a	Population terms ^b
time wor "job prot preserva AND Recessio	"Work share" OR "shared work" OR workshare OR "short-time compensation" OR "short- time work" OR "work sharing" OR "worksharing" OR "kurzarbeit" OR "chomage partiel" OR "job protection" OR "employment protection" OR "job preservation" OR "employment preservation"	Employee OR worker OR employer OR firm OR company OR companies OR country OR countries OR state OR government
	AND	
	Recession OR depression OR downturn OR epidemic OR pandemic OR COVID OR coronavirus	
Furlough	Furlough* OR "cutback management" OR "budget* constraint*" OR "budget* cutback*" OR "unpaid leave"	
	AND	
	Recession OR depression OR downturn OR epidemic OR pandemic OR COVID OR coronavirus	
Wage protection	Job retention" OR "employee retention" OR "payroll funding" OR "job protection" OR "Paycheck Protection" OR "Employee retention payroll tax credit" OR "payroll protection" OR "payroll tax credit" OR "employment protection" OR "loan guarantee" AND	
	Recession OR depression OR downturn OR epidemic OR pandemic OR COVID OR coronavirus	

Table 1. Keywords used in database searches by employee retention strategy

^aTopic search terms were searched in title, abstract, subject and keyword fields in the Business Corporate Plus searches.

^bPopulation terms were searched in title and abstract only in the Business Source Corporate Plus database searches. These were not used in the Google Scholar searches.

CLEAR screened the abstracts of these studies to identify studies that examined specific interventions implemented by businesses and governments in other countries following pandemics or economic downturns such as the Great Recession. Forty-nine studies passed the screening and summarized.

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Due to the rapid nature of this review, studies identified for review were not assessed according to CLEAR's causal evidence guidelines. Instead, reviewers used a short rubric to summarize information for each study. Each citation is classified by study type: causal, descriptive, or other. **Causal** research can assess the effectiveness of a strategy—in other words, whether there is a cause-and-effect relationship between the strategy and the results or impacts. High quality causal research (impact studies) can produce the most credible type of evidence. **Descriptive** research does not determine cause-and-effect relationships but uses quantitative methods to identify trends, correlations, projections, and costs and benefits of actions taken. CLEAR also categorized qualitative studies under the descriptive category for the purposes of this rapid review. CLEAR's rapid reviews also summarize **other** types of evidence and research that describe how, where, and why strategies are implemented, and includes opinion pieces by subject matter experts (SMEs). This type of research does not aim to identify cause-and-effect relationships or use quantitative methods but can be useful to identify emerging strategies potentially worthy of future replication and additional study. For more information on how CLEAR reviews and rates different types of studies, see CLEAR's reference documents at <u>https://clear.dol.gov/about</u>.

Mathematica prepared this rapid review for the Chief Evaluation Office of the U.S. Department of Labor under Contract #DOLQ129633249/DOL-OPS-16-U-00086. The views expressed are those of the authors and should not be attributed to the Federal Government or the Department of Labor.