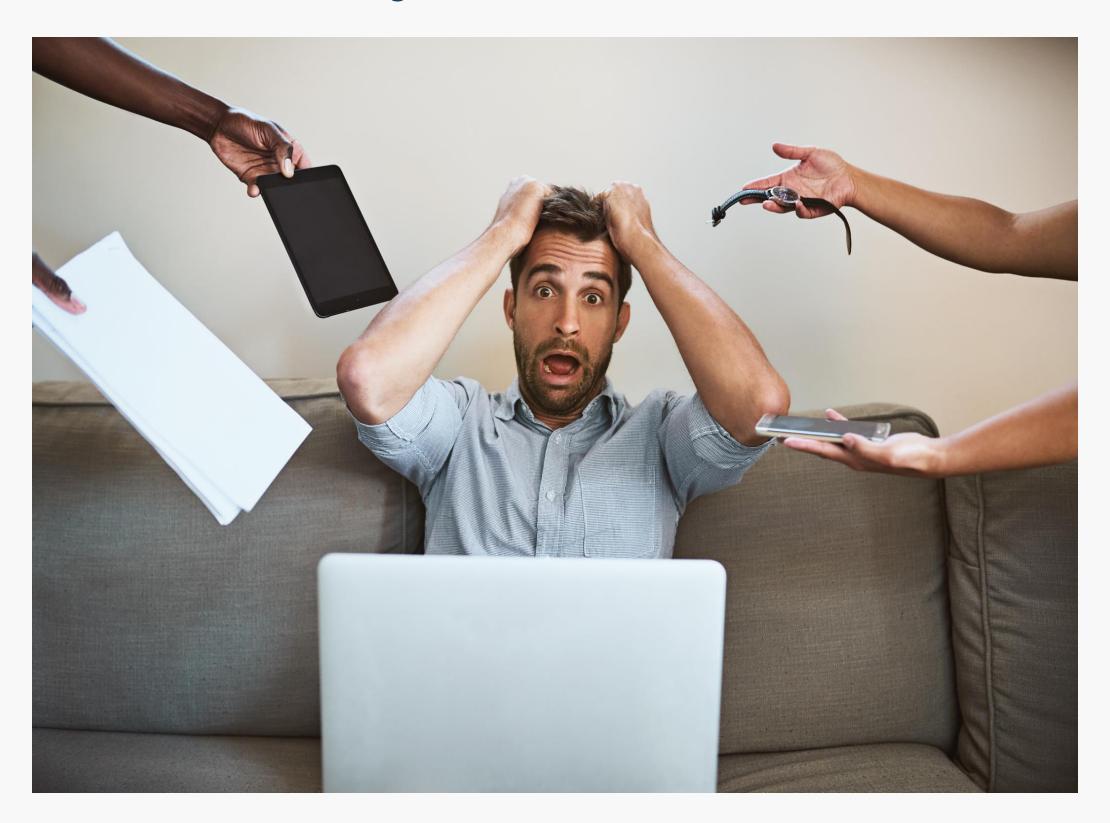
Impact of Overworking

Presented by Caroline Kuo

27 November, 2024

Are you also a member of the overworked club?

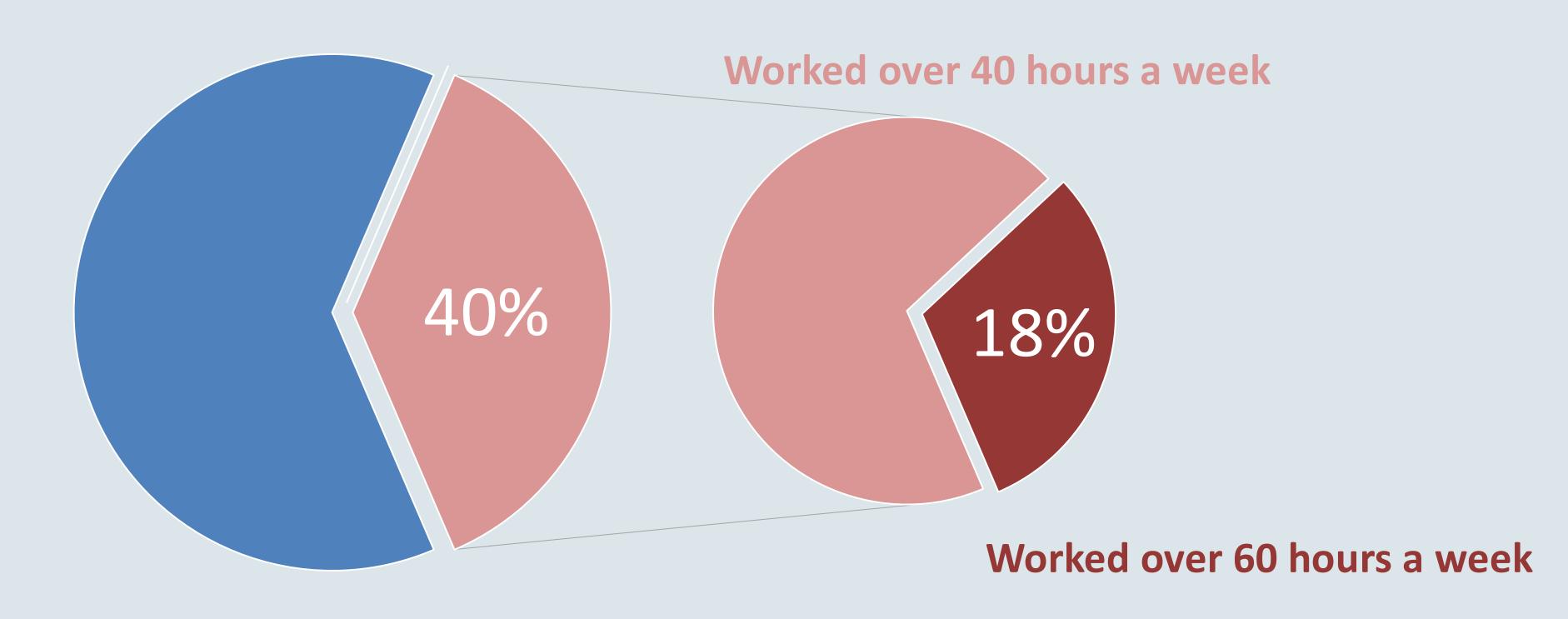






How many hours did you work last week?

Weekly Working Hours



Reasearch Question

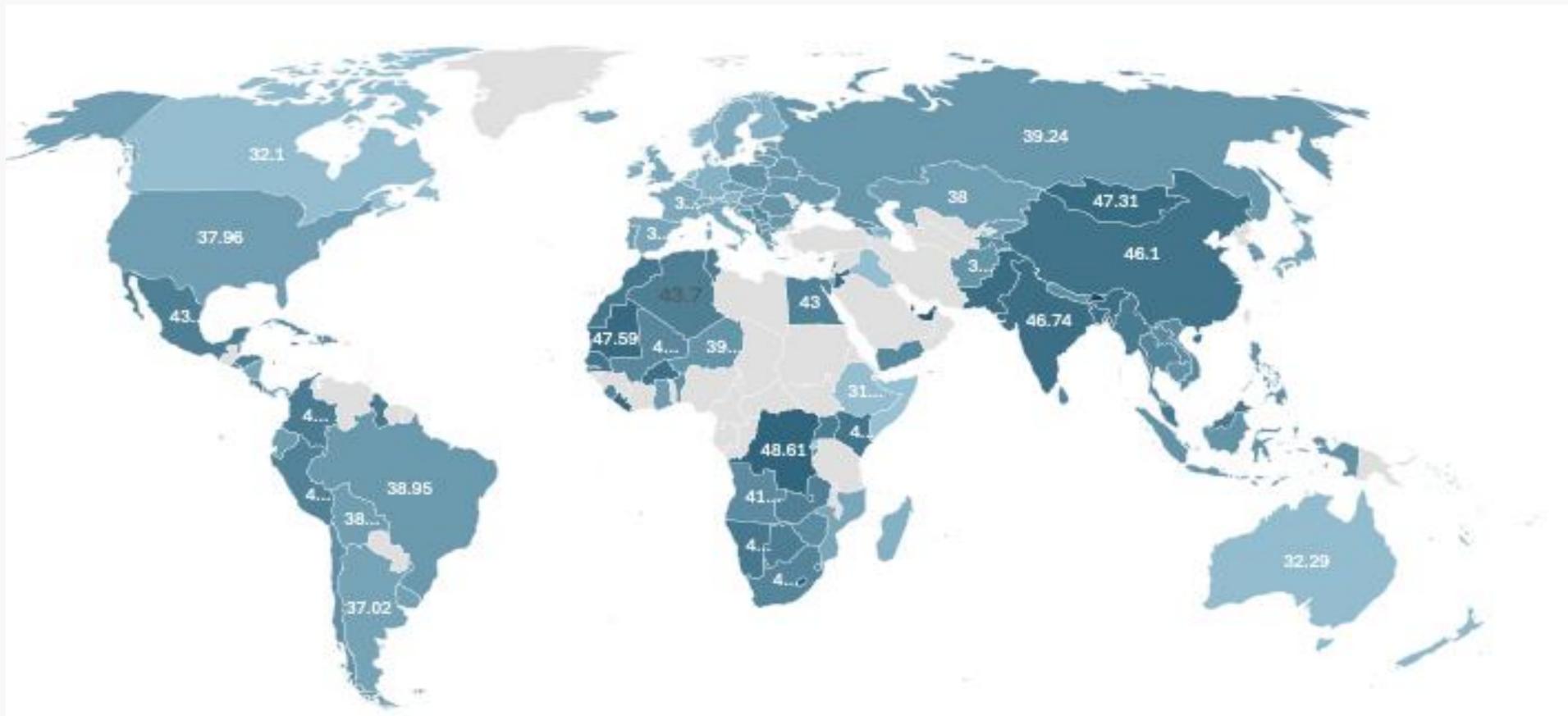


Does excessive working hours have a detrimental impact on society, and are there solutions for employers?



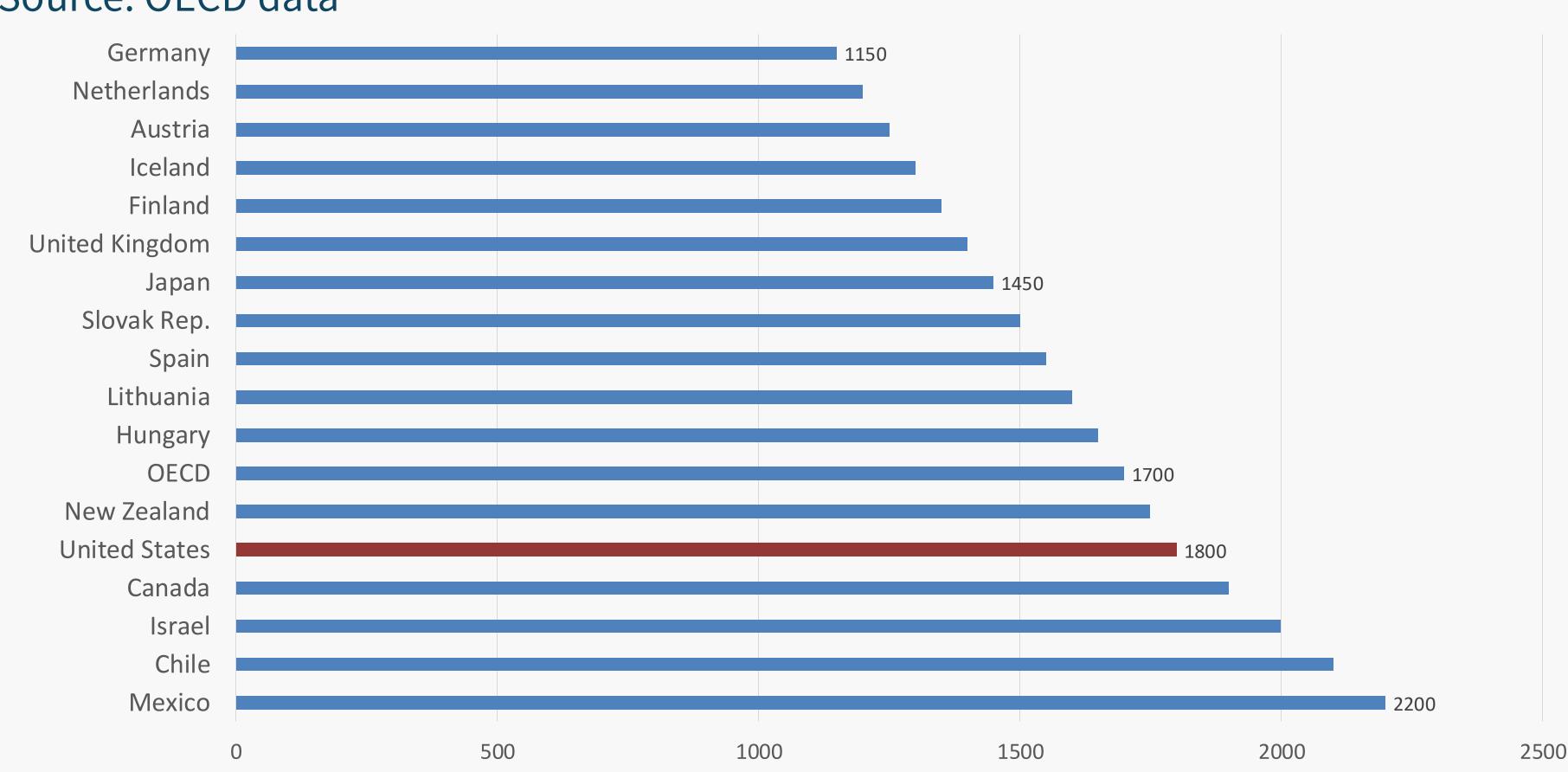
Average Weekly Working Hours Worldwide (2023)

Source: ILO

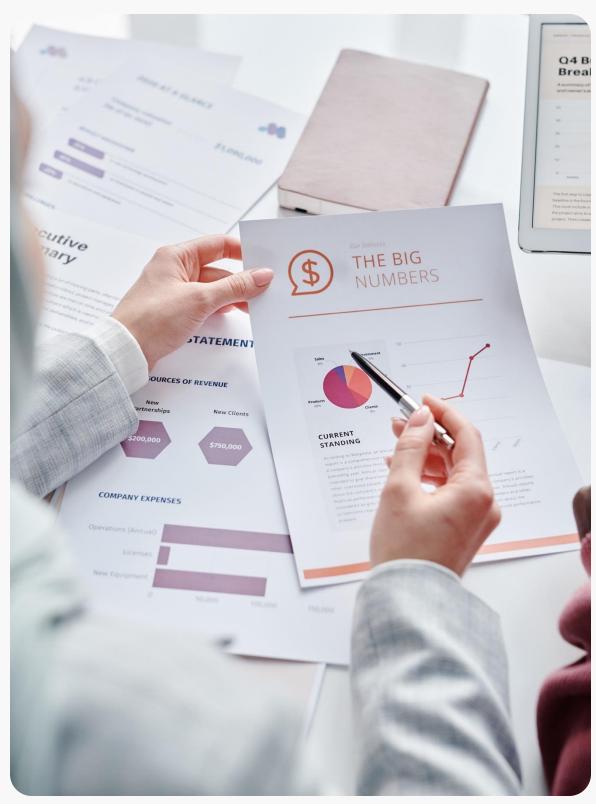


Annual hours worked per worker by countries (2023)

Source: OECD data



What does overwork bring?



Increased risk of health issues:

 People who work long hours (more than 55 hours per week) have a 33% higher risk of stroke.

Burnout:

According to a study in 2020, out of 2,474 nurses,
 12.3% reported high levels of burnout symptoms
 during the early stages of their careers.

Lower productivity:

• A research has shown that one in ten employees worked an extra day of unpaid overtime every week in 2021.

How common is burnout?



7 out of 10 people have had contact with burnout



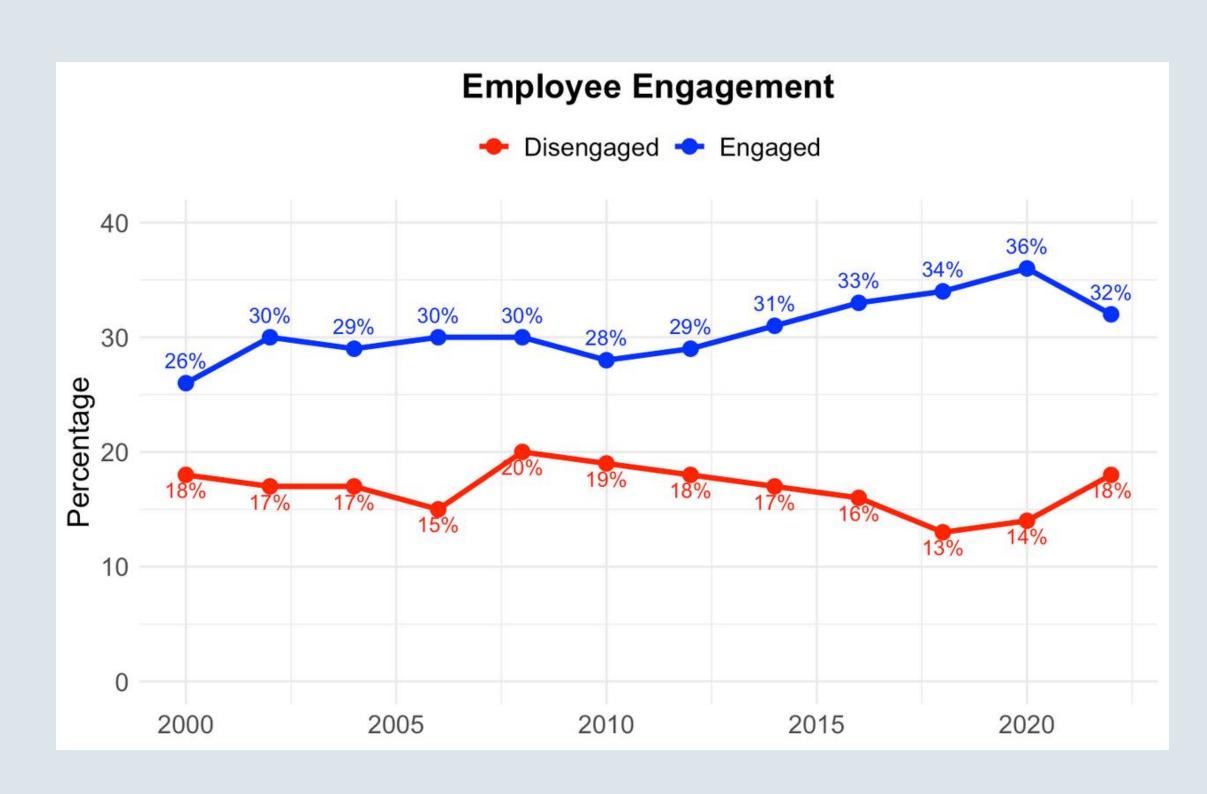
5 out of 10 people feel stressed and have exprienced burnout



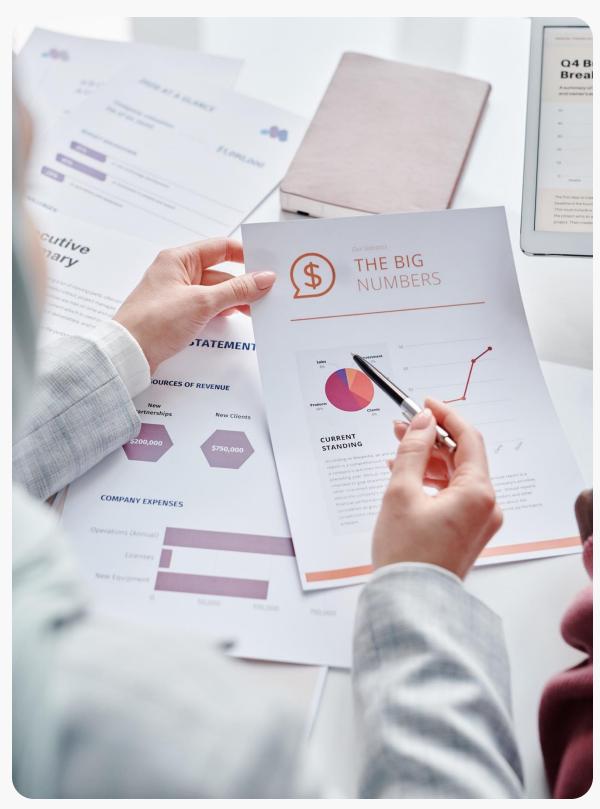
8 out of 10 people take burnout seriously

Burnout

an increased number of actively disengaged employees (from 13% to 18%) could mean quiet quitting is on the rise.



What does overwork bring?



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Burnout:

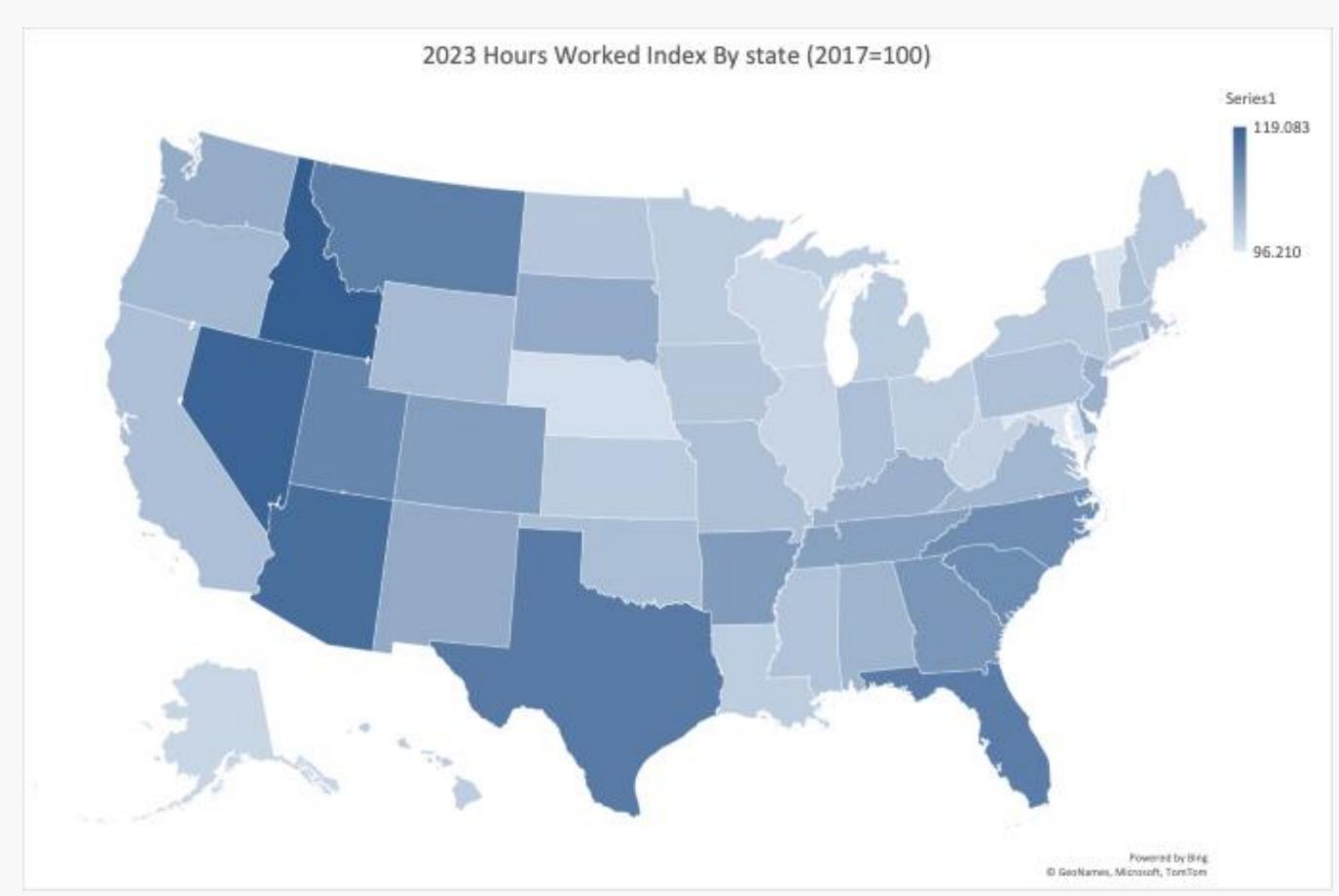
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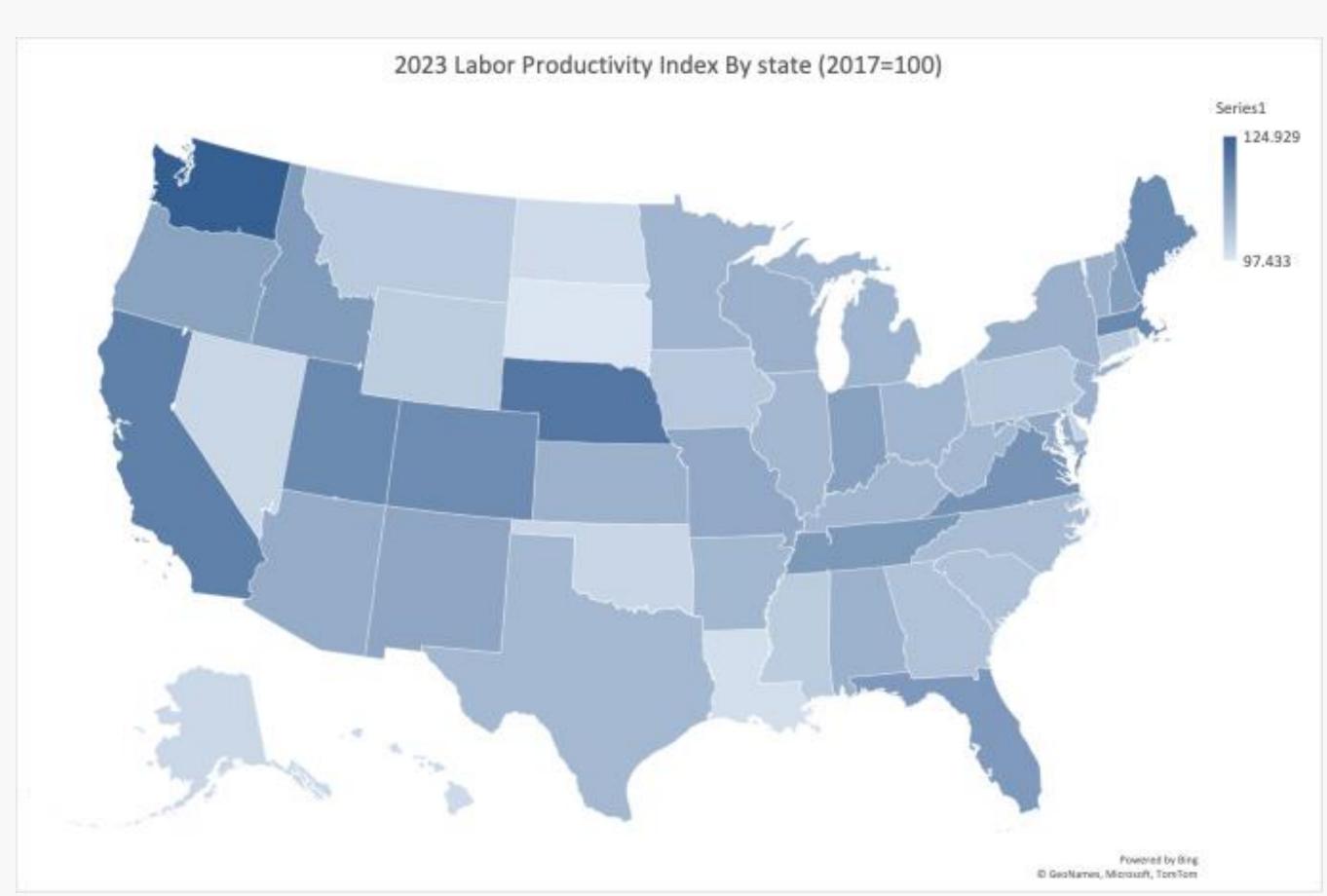
Labor Productivity vs. Working Hours

Source: BLS



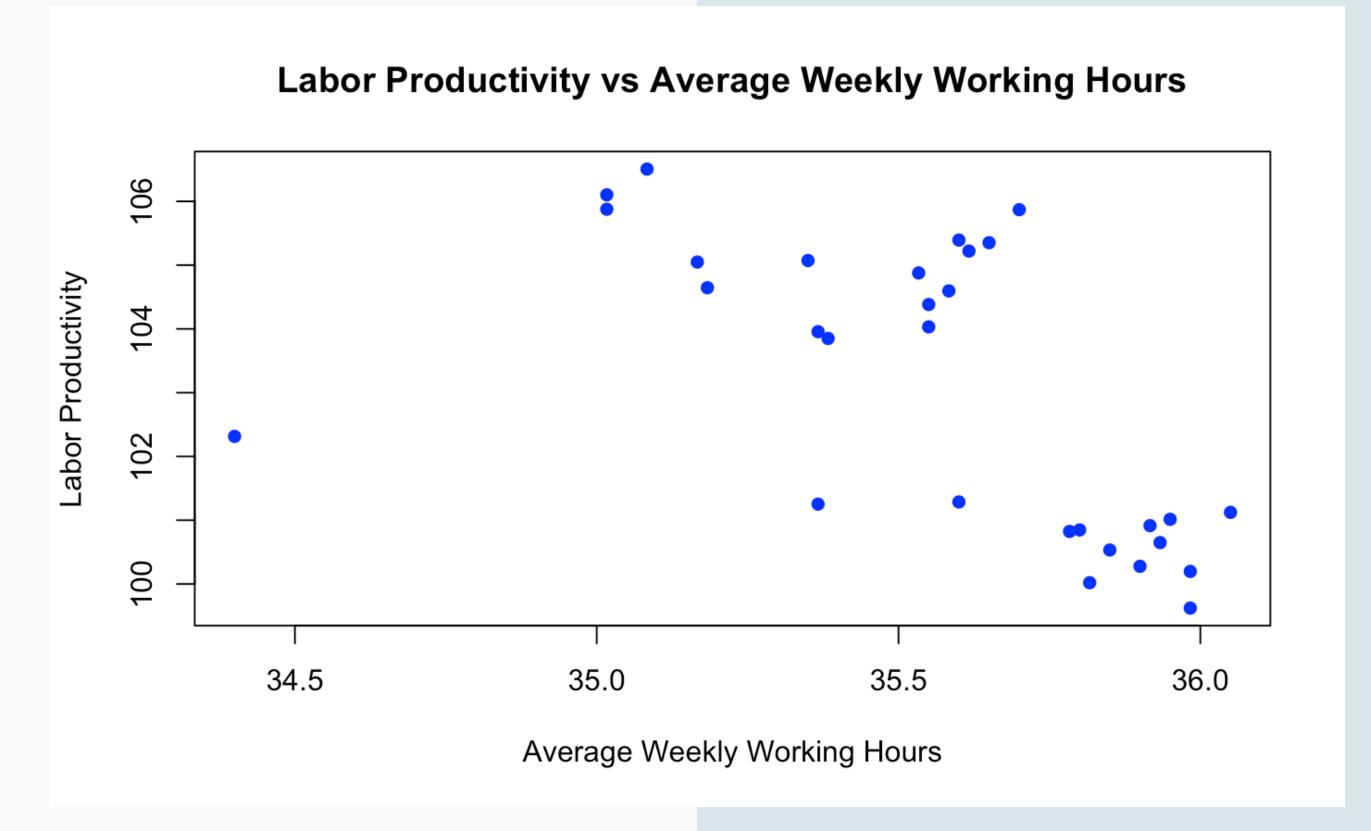
Labor Productivity vs. Working Hours

Source: BLS

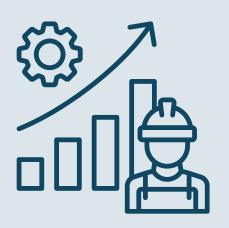


Lower productivity

Source: BLS



Regression_Variables



Dependent Variable:

Labor productivity (LP)

Independent Variables:

Average Weekly Working Hours (WH)

Hourly Compensation (HC)

Output per Worker (output)

Unit Labor Costs (LC)

Value-Added Output (outputVA)



Regression Model

Labor Productivity=

 β 0+ β 1(Average Weekly Working Hours)+ β 2(Hourly Compensation)+ β 3(Output per Worker)+ β 4(Unit Labor Costs)+ β 5(Value-Added Output)+ ϵ

```
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
                      2.70325 38.227 < 2e-16 ***
(Intercept) 103.33742
            -2.13690
                       0.15538 -13.752 7.08e-13 ***
WH
            0.59564
                      0.10599 5.620 8.74e-06 ***
HC
            0.74340
                       0.04543 16.362 1.61e-14 ***
output
         -0.25233
                       0.04113 -6.135 2.45e-06 ***
LC
         0.00371
                       0.00280 1.325
                                        0.198
ouputVA
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Regression Model

Labor Productivity=

 β 0+ β 1(Average Weekly Working Hours)+ β 2(Hourly Compensation)+ β 3(Output per Worker)+ β 4(Unit Labor Costs)+ β 5(Value-Added Output)+ ϵ

Regression Model



Average Weekly Working Hours (WH)

negaticve estimated coefficient: higher average weekly working hours, lower labor productivity.



Labor Cost (LC)

negaticve estimated coefficient:
higher labor cost, lower labor
productivity.

Solutions

Increasing Overtime Pay

- Protecting Employee Health
- Promoting Efficiency
- Boosting Morale

- Increased Business Costs
- Impact on Labor market

Encouraging Automation

- Improving Efficiency
- Reducing Overtime Demand
- Enhancing Product Quality

- High Initial Investment
- Changing Skill Requirements

Potential Challenges





Regression model

relatively high R squared insufficient data

Impact on Labor-Intensive Industries

especially for some countries' labor cost is relatively low,



Conclusion



"Empower the Workforce, Evolve the Workplace"



Thank you