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Is there a link between job polarization and jobless recoveries in Germany?

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Definition & Evidence

Job polarization

- Increasing employment in highand low-wage occupations while jobs in the middle-wage occupations are disappearing
- Evidence for the United States and most European countries
- → Potential inequality in earnings and employment distribution (Acemoglu and Autor 2011; Goos et al. 2014)

Jobless recoveries

- Continuous decline in aggregate employment levels after trough of recessions while aggregate output shows rebound
- Evidence for the United States, no concluding research for Europe
- → Potential increase and persistence of unemployment rates (Groshen and Potter 2003; Bernanke 2009)

Previous Literature

Link between job polarization and jobless recoveries in the US

- Jaimovich and Siu (2014) find clear evidence for a link using detailed occupational-level data
 - Job polarization is a decline of routine jobs
 - Job polarization has an cyclical component: 88% of routine job loss occurs in recessions Jobless recoveries are accounted by disappearance of routine jobs

Empirical evidence outside the US

- Jaimovich and Siu (2015) confirm clear evidence for a link for 16 European countries using aggregate ELFS employment data
- Gaggl and Kaufmann (2015) find suggestive evidence for 15 countries using annual EU KLEMS employment data; slowdown in recoveries less pronounced outside the US
- Graetz and Michaels (2017) find no evidence in aggregate industry level data for 16 countries

Relevance of the link

- Middle-wage workers are particularly hurt by recessions
- High long-term unemployment risk for middle-wage workers
- Increasing divide between the people at the top and at the bottom of the income distribution

Hypotheses

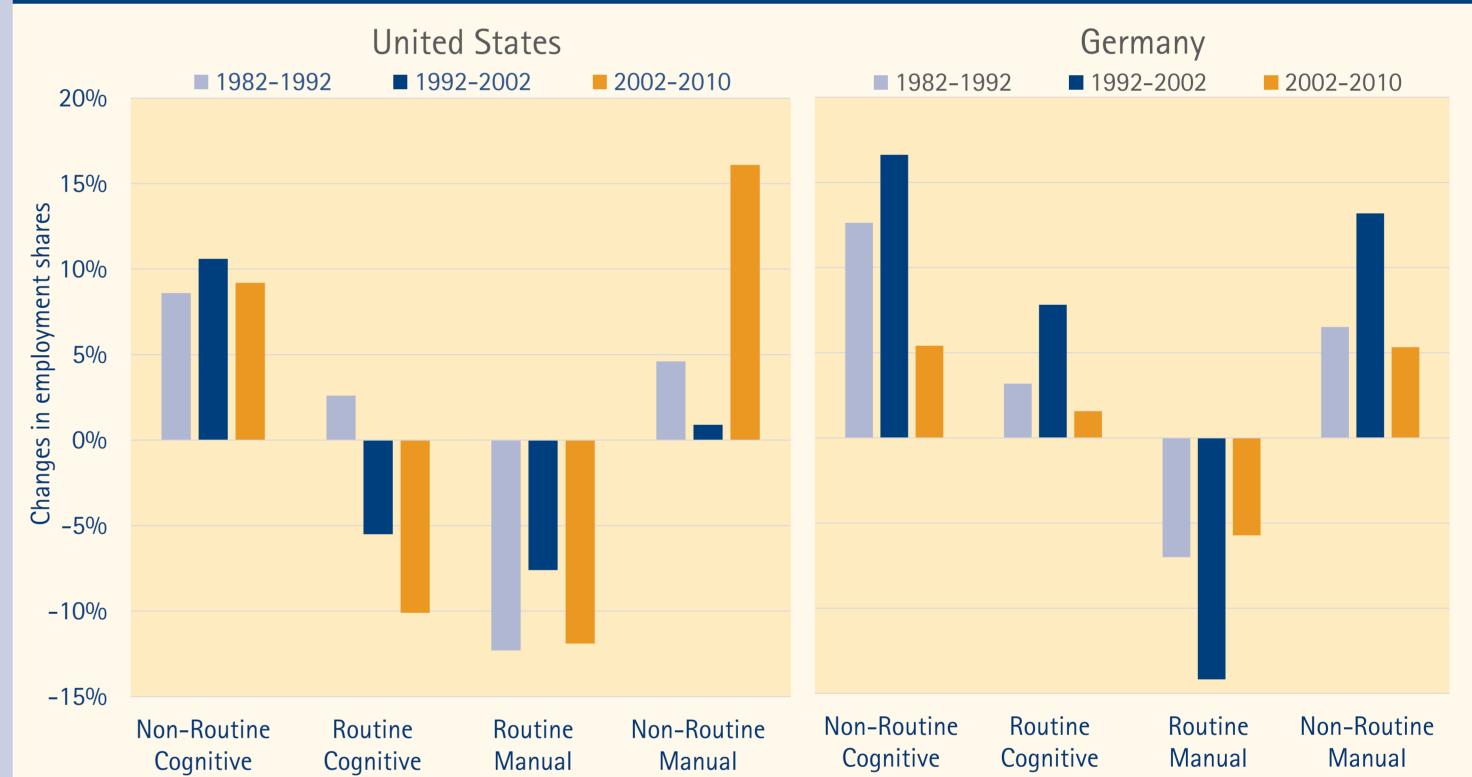
- Conduction of a detailed occupation-level analysis for Germany
 - Job polarization leads to concentrated routine loss in recessions
 - H2 Aggregate jobless recoveries are accounted by displaced routine workers

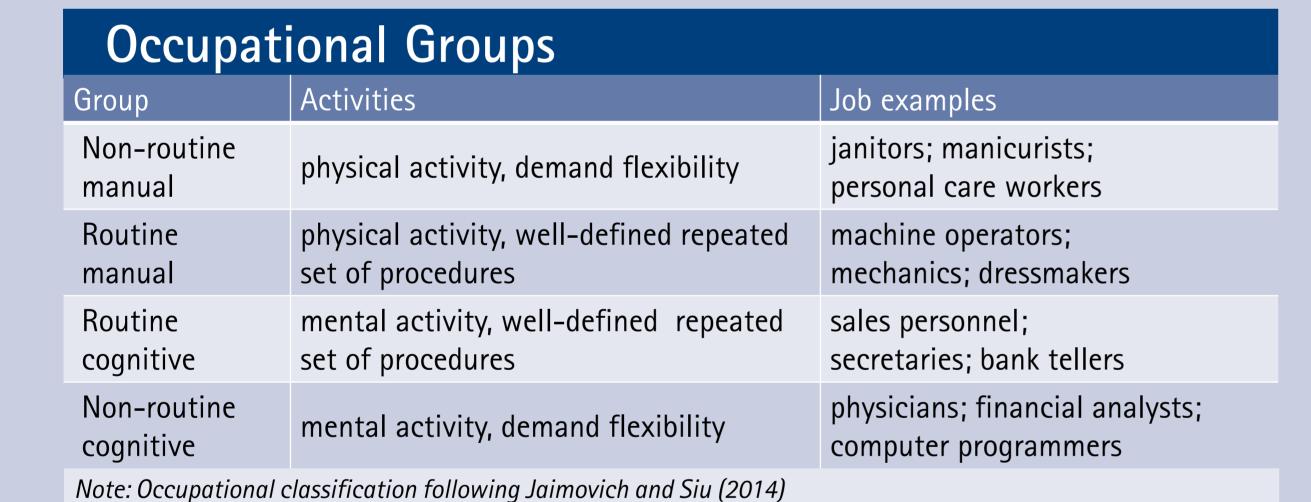
Data

Sample of Integrated Labor Market Biographies (SIAB)

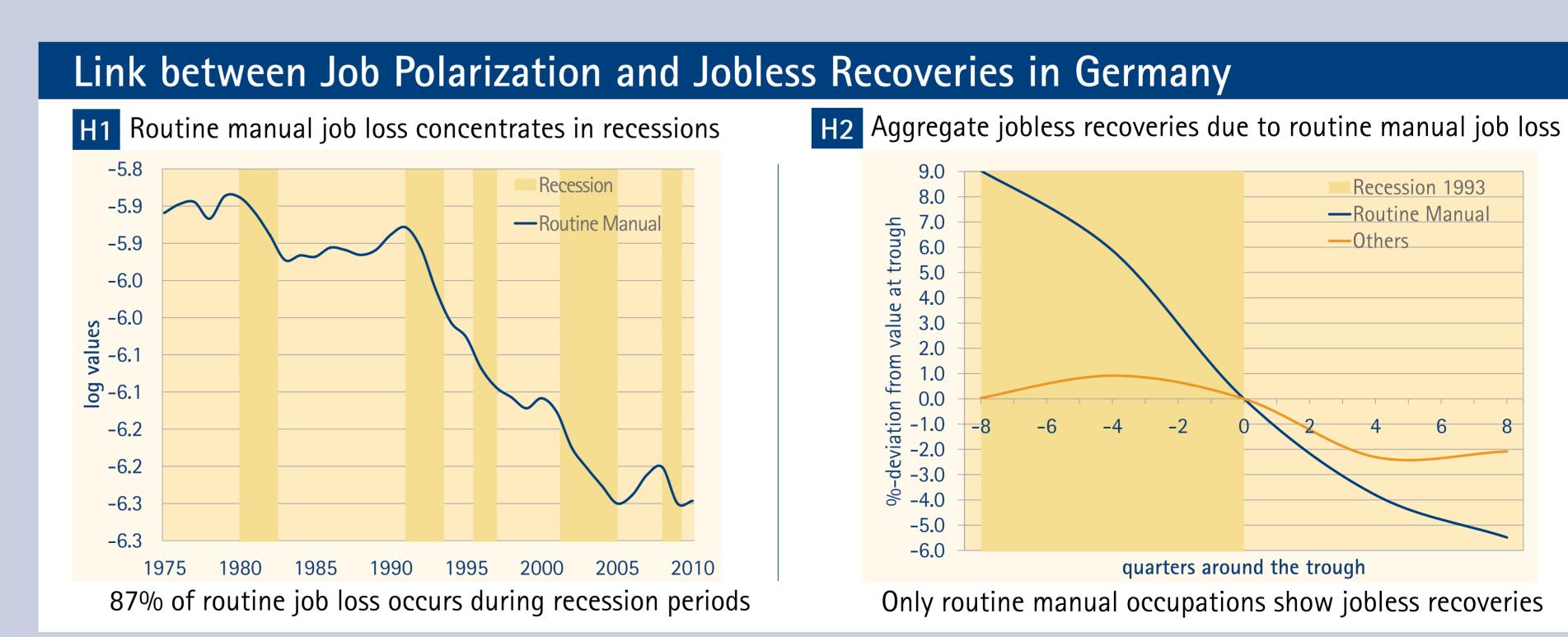
- 2 % random sample drawn from the Restricted to West Germans social security records
- Not included are civil servants, students or self-employed
- aged 16 years and over
- Sample period: 1975-2010

Job Polarization





Jobless Recoveries German employment around recessions 5.0 Recession ---1993 4.0 ---1982 value at trough -deviation from -3.0 quarters around the trough



Conclusion

Summary

- Job polarization in Germany differs from the US: only routine manual occupations are disappearing
- Jobless recoveries occur after recessions in the 1990s
- Link between job polarization and jobless recoveries can be established for Germany
- 87% of routine manual job loss from 1991 to 2006 in Germany occurs during recession periods
- Only routine manual occupations show jobless recoveries

Outlook

- Inclusion of the task dimension as an alternative measurement of occupational groups
- Conduction of multivariate analyses in order to examine the role of job polarization for a change in recoveries from recessions