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Macroeconomic Evaluation of Labor Market Reform in Germany

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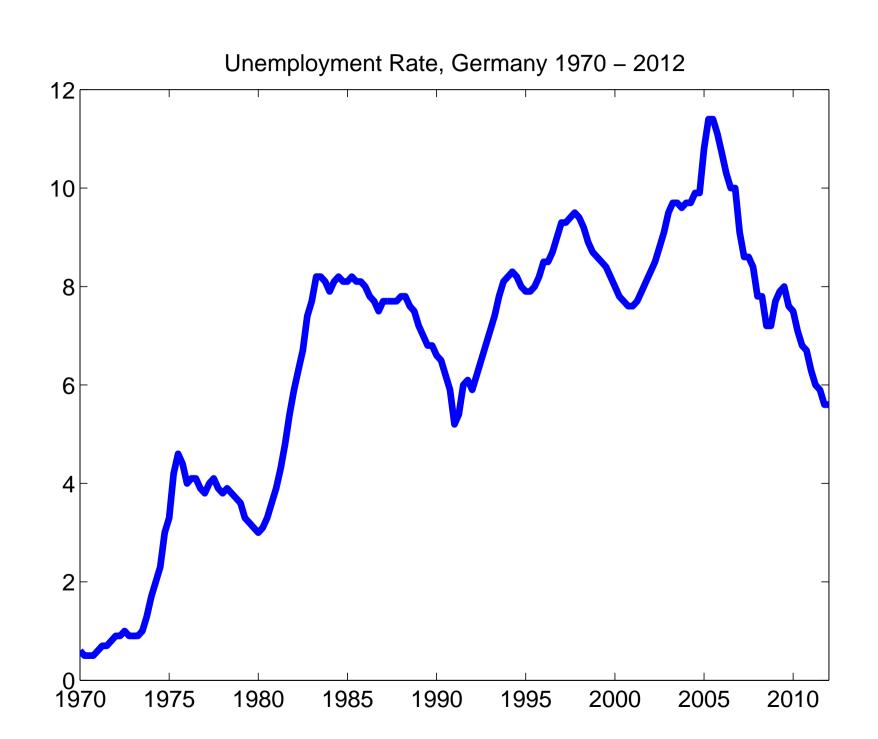
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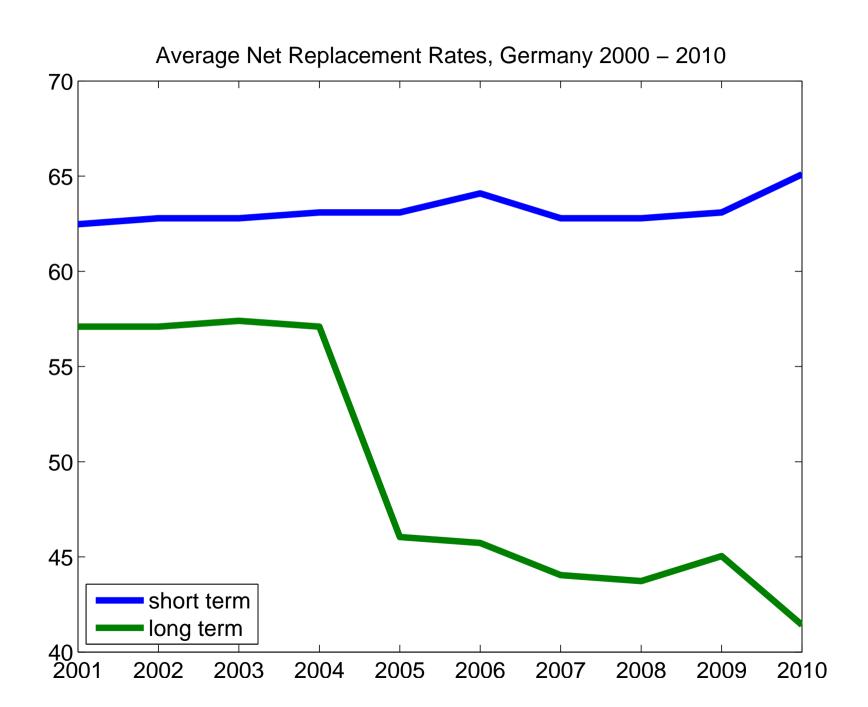
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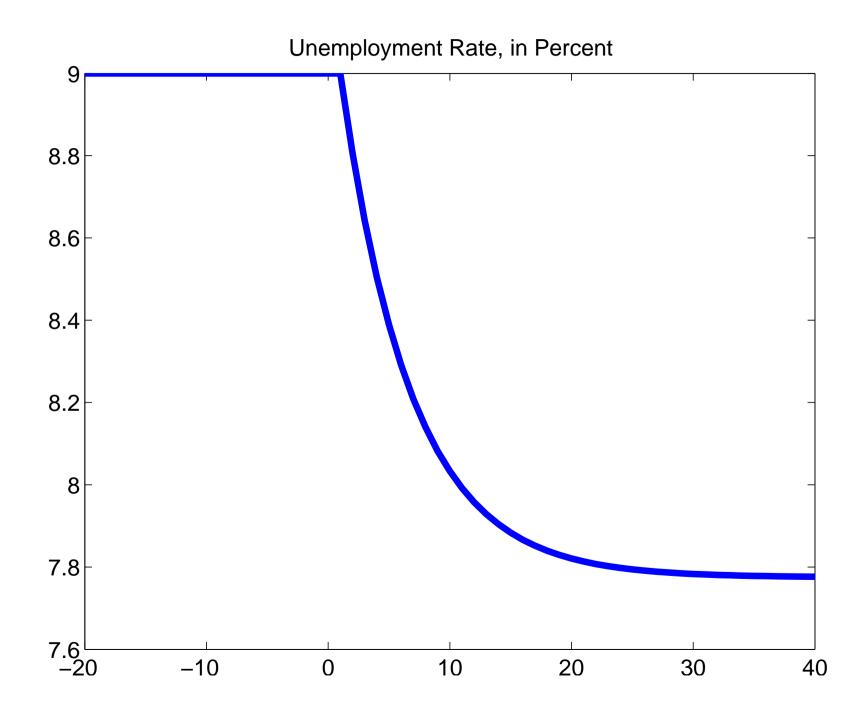
The German Labor Market 2000-2010

- 2000-2004: persistently high unemployment (Eurosclerosis)
- Labor market reforms (Hartz I-IV reforms) 2003-2005/6
- Hartz IV in Jan 2005: significant reduction in unemployment benefits for the long-term unemployed
- 2005-2008: unemployment declined from 11% to 7.5%

Main Questions and Results

• Question 1: How much of the observed decline in unemployment was due to the Hartz IV reform?

- Answer: Hartz IV reduced the unemployment rate permanently by 1.2%
- Question 2: Why is there so much resistance to Hartz IV in Germany?
- Answer: Because there are winners and losers (unemployed experience a welfare loss)



Further Results

The reform had the following effects:

- Output expansion
- Real wage decline
- Reduction in human capital investment (onthe-job training)

Method

Structural interpretation of German experience:

- Develop a model
- Calibrate the model using pre-reform data for Germany
- Use the calibrated model to simulate the macroeconomic and welfare effects of Hartz IV reform

Model

• Incentive-insurance tradeoff

• Households are risk-averse

• Unemployed households receive unemployment benefits and choose search effort

• Distinction between short-term and longterm unemployed

Model

• Growth Model with physical and human capital

• Competitive labor and capital markets

• Missing: Matching, endogenous job separation, non-trivial firm decision

Equilibrium

• Model is tractable (aggregate state is 4-dimensional)

• We compute stationary equilibria and transitional dynamics

• No business cycle analysis in this paper (interaction between reform and macro shocks)

Calibration

• Match number of important macro facts (unemployment rate, share of long-term unemployed, transition rates)

- Match a given job finding elasticity
- Use calibrated model economy to simulate the effect of the reduction in unemployment benefits for the long-term unemployed

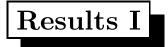


Table 1. Macroeconomic Effects

	Pre-Reform	Post-Reform
unemployment rate	9%	7.78%
job loss rate (short-term)	$\boldsymbol{0.24}$	$\boldsymbol{0.252}$
job finding rate (long-term)	0.06	0.089

Results II

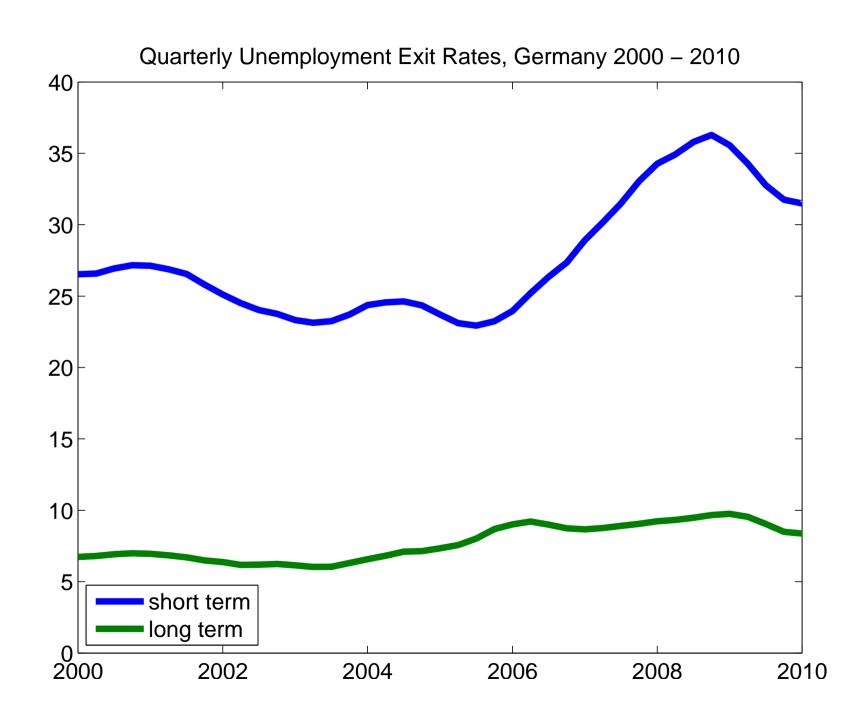
Table 2. Welfare Effects in Percent of Lifetime
Consumption

Net Effect

Evidence

Do we have independent evidence for the basic mechanism?

- OECD data on incidence of long-term unemployment
- Problem: variable has strong cyclical component and is affected by other factors
- Better: Data on job finding rates from German employment agency (Bundesagentur fuer Arbeit)



Future Work

• Interaction between labor market policy (reform) and macro shocks

• Optimal Unemployment Insurance

• Introduce matching function