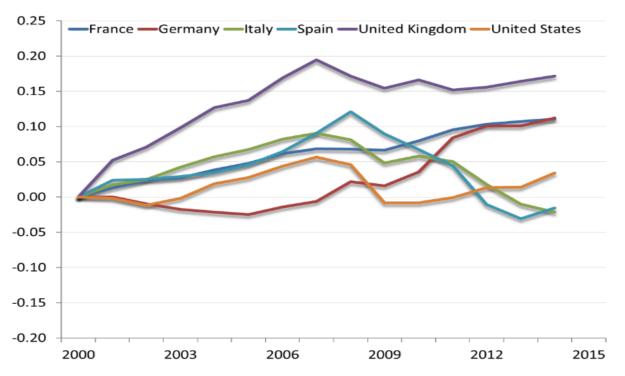
Hall: Sources and Mechanisms of Stagnation and Impaired Growth in Advanced Economies

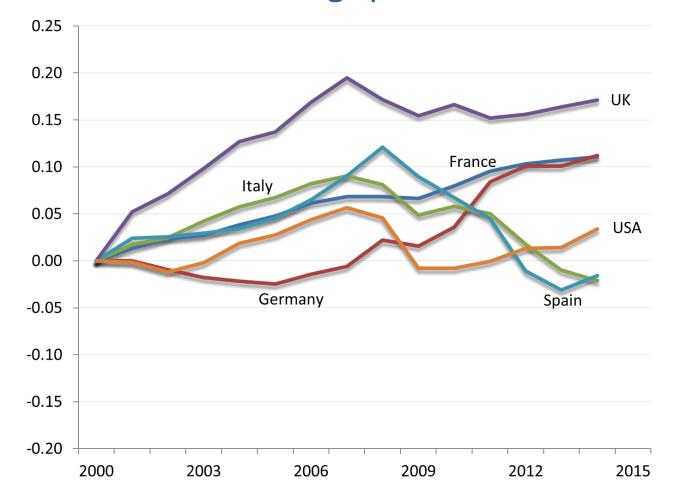


Indexes of real earnings per member of the population

Stagnation

- The financial crisis of late 2008 sent many advanced economies into stagnation.
- Real labour earnings per member of the population is a suitable measure of performance in judging stagnation.
- Labour earnings measure the well-being of the majority of the population.

Indexes of real earnings per member of the



Real Earnings per Member of the Population

- Total real earnings = [labour share] × [real output].
- Real output = [output per unit of labour input] × [volume of labour input].
- Output per unit of labour input = function of [multifactor productivity] and [capital/output ratio].
- Volume of labour input=[hours per worker] × [workers per member of the labour force] × [members of the labour force per person of working age] × [people of working age as a fraction of the total population]

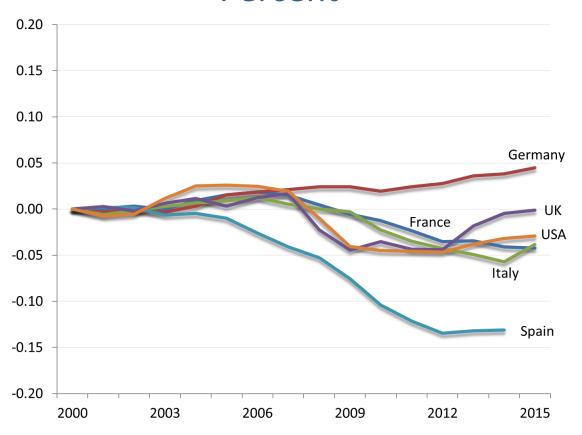
Seven-way breakdown of real earnings per member of the population

- 1. Labour share
- 2. Multifactor productivity
- 3. Capital/output ratio
- 4. Hours per worker
- 5. Employment rate: 1– unemployment rate
- 6. Ratio of labour force to working-age population
- 7. Ratio of working-age population to the population of all ages

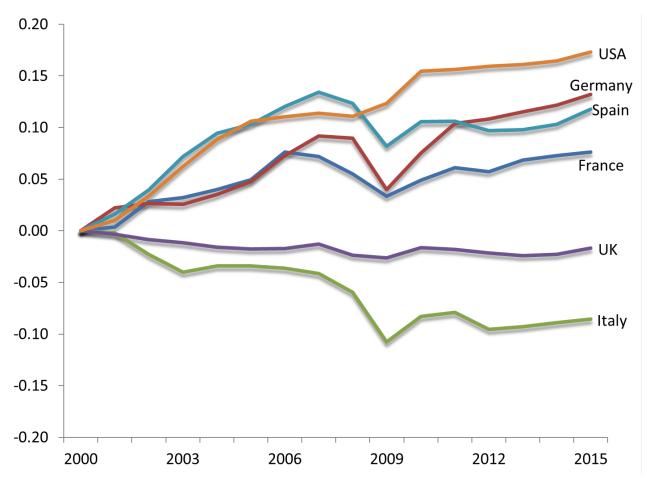
Annual Percentage Growth Rates of Real Compensation per Member of the Population in the Pre- and Post-Crisis Years

Country	2000-2007	2007-2014	
France	1.14	0.71	
Germany	-0.10	1.97	
Italy	1.51	-1.87	
Spain	1.51	-1.77	
UK	3.25	-0.39	
US	0.94	-0.38	

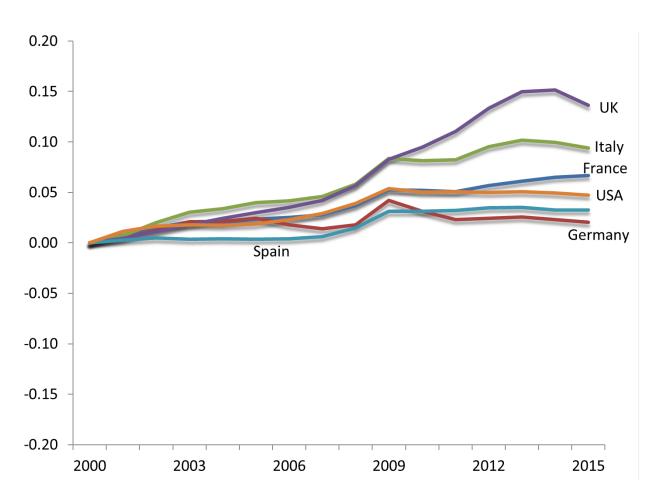
Annual Growth of the Log of the Labour Share, Percent



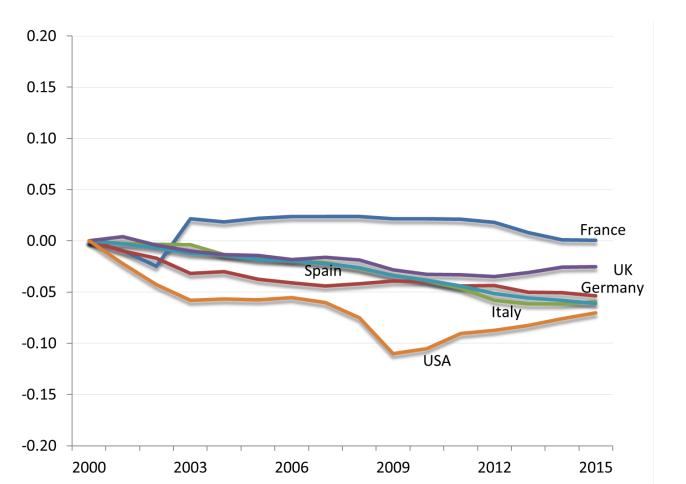
Log of Index of Multifactor Productivity



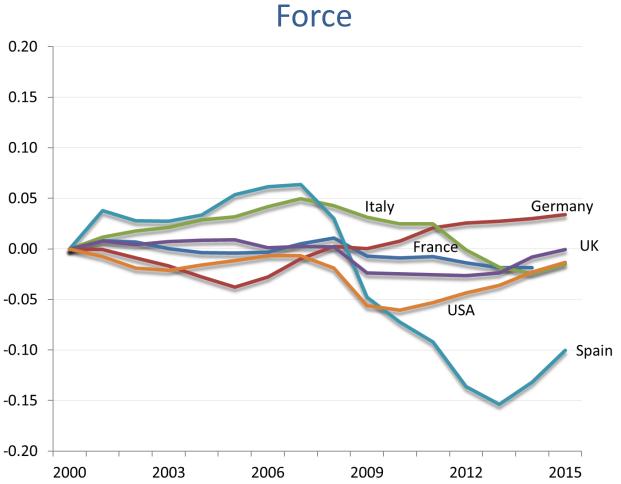
Log of Index of Capital/Output Ratio



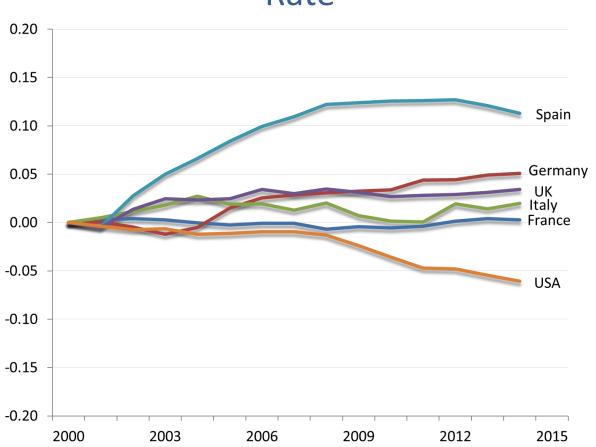
Log of Index of Weekly Hours per Worker



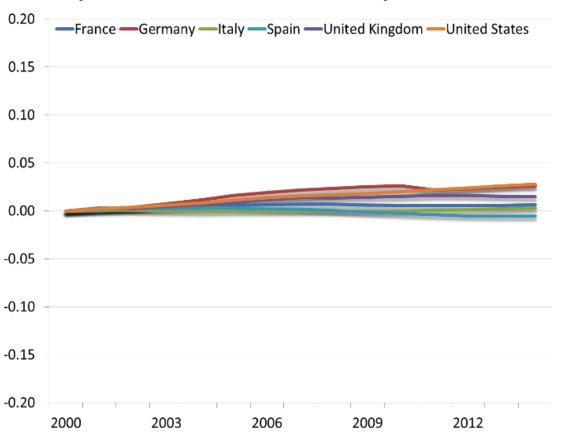
Log of Index of the Employment Rate of the Labour



Log of Index of the Labour-Force Participation Rate



Log of Index of the Ratio of the Working-Age Population to Total Population



Growth Rates of Components of Real Compensation per Member of the Population in the Post-Crisis Years

	Share	Produc- tivity	Hours/ week	Employ- ment rate	Partici- pation
France	-0.93	0.01	-0.38	-0.40	0.07
Germany	0.28	0.50	-0.11	0.66	0.37
Italy	-1.04	-0.80	-0.67	-1.23	0.12
Spain	-1.50	-0.17	-0.60	-3.26	0.05
UK	-0.35	-0.52	-0.16	-0.17	0.07
US	-0.85	0.85	-0.26	-0.27	-0.85

Conclusions

- Unitary theories of stagnation are unhelpful in studying the behaviour of advanced economies since the crisis.
- Each country has its own story: factor shares, productivity growth, unemployment, labour supply, and demographics.
- How there can be so much heterogeneity in the stories, among advanced countries that operate on similar economic principles and were responding to similar shocks over the post-crisis period?
- Financial fragility is close to a common property, so development of much more robust financial systems would help avoid similar problems in the future.