

IAB-Colloquium 2008

Prof. Dr. Georg Hirte (Technische Universität Dresden)

## **The Age Pattern of Human Capital and Regional Productivity: Germany ten Years after Unification**

### Abstract

We explore the impact of the age structure of human capital on average regional productivity by applying a spatial econometric analysis based on an augmented Lucas-type production function. We also apply a new definition of regional human capital focusing on its availability. The estimates provide evidence that there are age specific human capital effects in Germany and that a temporary increase in regional productivity could occur during the demographic transition.

Furthermore, it becomes clear that the availability based definition of human capital provides additional insight and so, could enrich future studies on regional human capital.