

Reliability of innovation measures

abstract:

We examine the reliability of innovation measures by comparing the responses company representatives have given to the Community Innovation Surveys and national R&D surveys starting from the year 2000. We examine the stability and relatedness of the answers over time as well as their correlation to the company characteristics, in particular to the share of R&D and ICT personnel in the company. The personnel characterization is based on the education backgrounds and work titles of the employees. We hypothesize that stable answers in innovation surveys have a high correlation with respective personnel profile measures whereas unstable answers have not. As a result, we will give estimates for the reliabilities of various innovation and R&D measures.

keywords: innovation surveys, reliability, intangible investments, measurement, micro data