



COINVEST

www.coinvest.org.uk

**COINVEST:
Competitiveness, Innovation and Intangible
Investment in Europe**

Steering Committee Meeting

27th and 28th November 2008
ZEW Headquarters, Mannheim

Francisco Lima
Instituto Superior Técnico – Technical University of Lisbon
with Pedro Faria (IST) and Pedro Martins (QMUL)

*Project funded by the European Commission under the Seventh Framework Programme
Grant No 217512*

Website : www.coinvest.org.uk

Email: coinvest@qmul.ac.uk



COINVEST

www.coinvest.org.uk

Computerized Information

Computer software and Computerized databases

EUKLEMS database includes information for both variables

Information collected from the National Accounts

Includes own use, purchased and custom software

Portuguese methodology equal to UK methodology



COINVEST

www.coinvest.org.uk

Innovative Property (I)

Scientific R&D

BERD (OECD - Main Science and Technology Indicators)

Mineral exploration

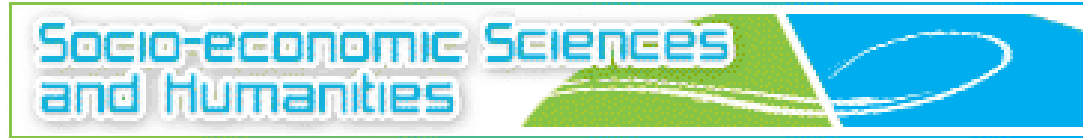
National Accounts

Quadros de Pessoal database (matched employer-employee data) - turnover from the mineral exploration industry

Copyright and license costs

National Accounts

Quadros de Pessoal database - turnover from the TV and radio, publishing, and music industries



COINVEST

www.coinvest.org.uk

Innovative Property

(Other product development, design and research)

New product development costs in the financial industry

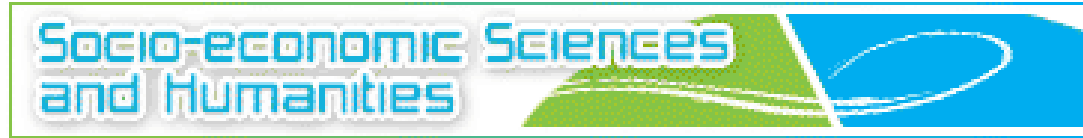
CIS - share of innovation expenditures: it allows finding a more reliable value for the new product development costs of the financial industry

New architectural and engineering designs

Quadros de Pessoal - turnover from the design industry and the earning from designers in other industries

R&D in social science and humanities

Quadros de Pessoal - turnover from the social science and humanities R&D industry



COINVEST

www.coinvest.org.uk

Economic competencies

(Brand equity)

Advertising expenditure

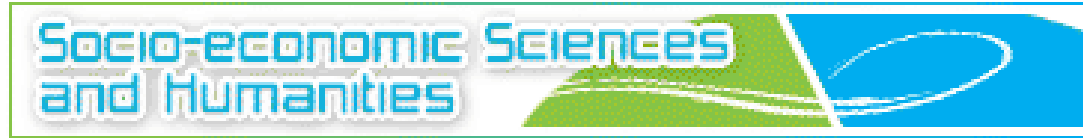
Quadros de Pessoal - turnover from the advertising industry (obtain weight of the advertising industry and apply it to the EUKLEMS data)

Market research

Quadros de Pessoal - turnover from the market research industry

Firm-specific human capital

Labour Force Survey, Continuing Vocational Training Survey,
Balanço Social?



COINVEST

www.coinvest.org.uk

Economic competencies

(Organizational structure)

Purchased

Quadros de Pessoal - turnover from the management consulting industry

Own Account

Quadros de Pessoal – 20% of managers' earnings



COINVEST

www.coinvest.org.uk

Quadros de Pessoal database

- The Quadros de Pessoal Database is a longitudinal matched employer-employee micro-data set covering all business units with at least one wage-earner in the Portuguese economy, including extensive information on firms, establishments, business owners and employees from 1986 to 2006
- Firms, establishments and individuals are fully cross-referenced through the use of a unique identification number, thus allowing for the recognition of entry and exit of firms and plants, as well as tracing the mobility of workers and business owners across firms and establishments over time
- Data on firms include size (employment), age, location, sector and number of plants; data on business owners and employees include gender, age, hierarchical level, tenure, and schooling



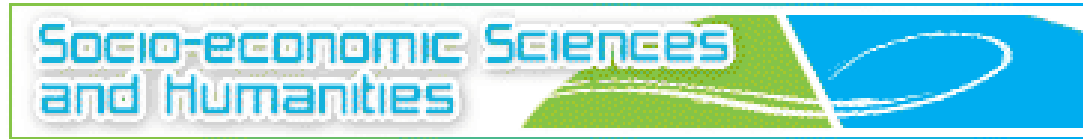
COINVEST

www.coinvest.org.uk

The Matched Employer-employee Data

Overview of the main variables and dimensions of analysis

- *Identifiers*
 - Year
 - Identifier of the individual
 - Identifier of the firm
- *Individuals' demographics*
 - Gender
 - Age
 - Date of birth
 - Nationality
 - Schooling
- *Individuals' occupational status*
 - Occupation (6 digit)
 - Job level
 - Date of admittance in the firm
 - Date of the last promotion
 - Type of contract
 - Partial /full time work
- *Earnings and working hours*
 - Earnings – Regular, Irregular, Extra
 - No. of hours worked , regular, extra
- *Demography of firms*
 - Number of employees
 - Number of establishments
 - Establishing year
 - NACE code (6 digit)
- *Firm Location*
 - Parish, Municipality; District;
 - Regions: NUTS III
- *Financial indicators and type of ownership*
 - Sales volumes (Euros)
 - Initial capital (Euros)
 - Legal type of the business



COINVEST
www.coinvest.org.uk

Community Innovation Survey

- Guiding principles of the Oslo Innovation Manual and executed under the supervision of Eurostat
- Deals directly with heads of R&D departments or innovation management
- Looks at innovation in a broad perspective, and not only at the adoption of one specific technological innovation, R&D expenditures or patents
- Firm-level matching information on innovation behaviour, and other firm's characteristics
- Manufacturing sector and some selected service sectors (including financial industry)