



GPEAR

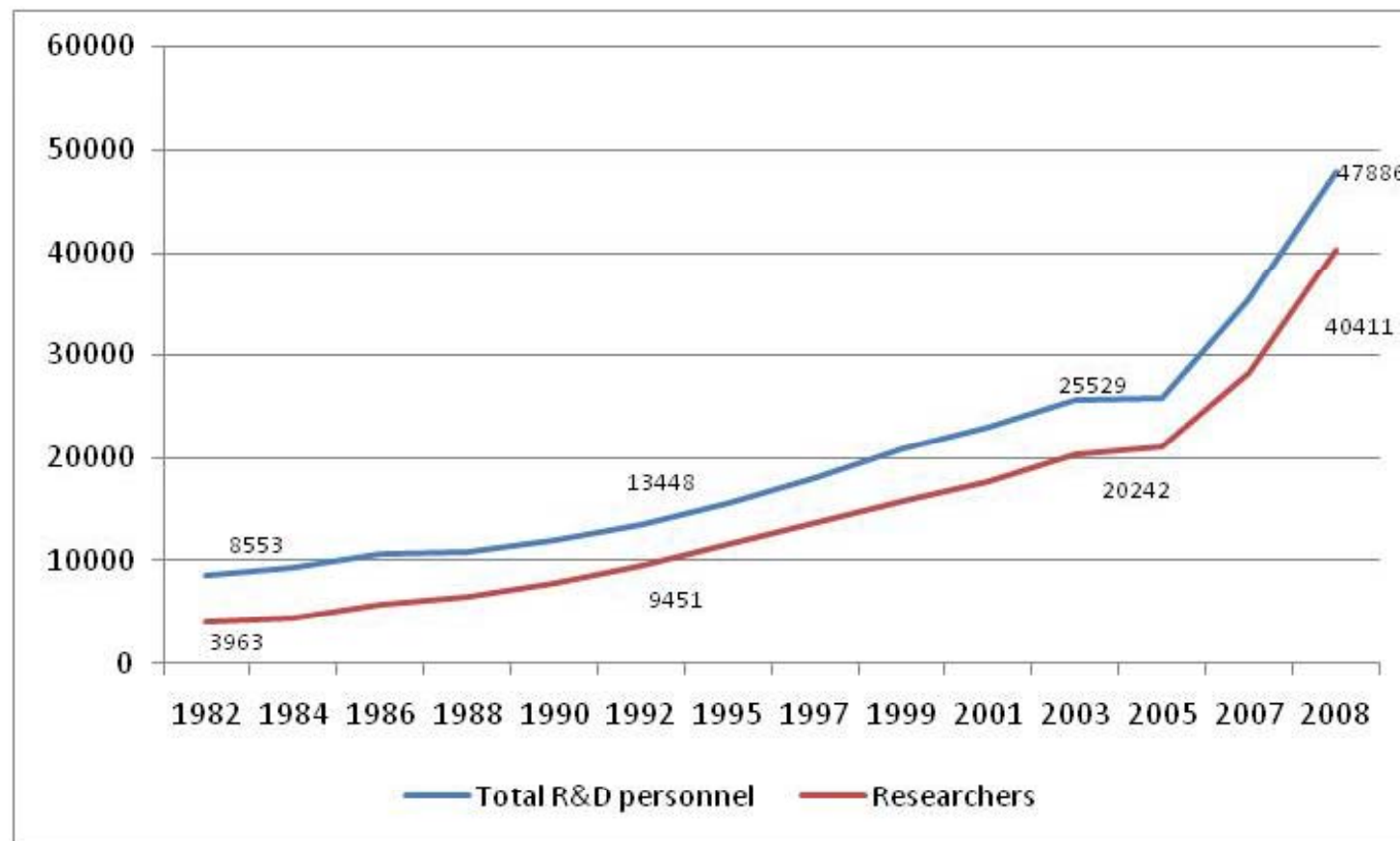
Gabinete de Planeamento, Estratégia, Avaliação e Relações Internacionais
Ministério da Ciência, Tecnologia e Ensino Superior

Human Resources in R&D

New ways to improve data on human
resources

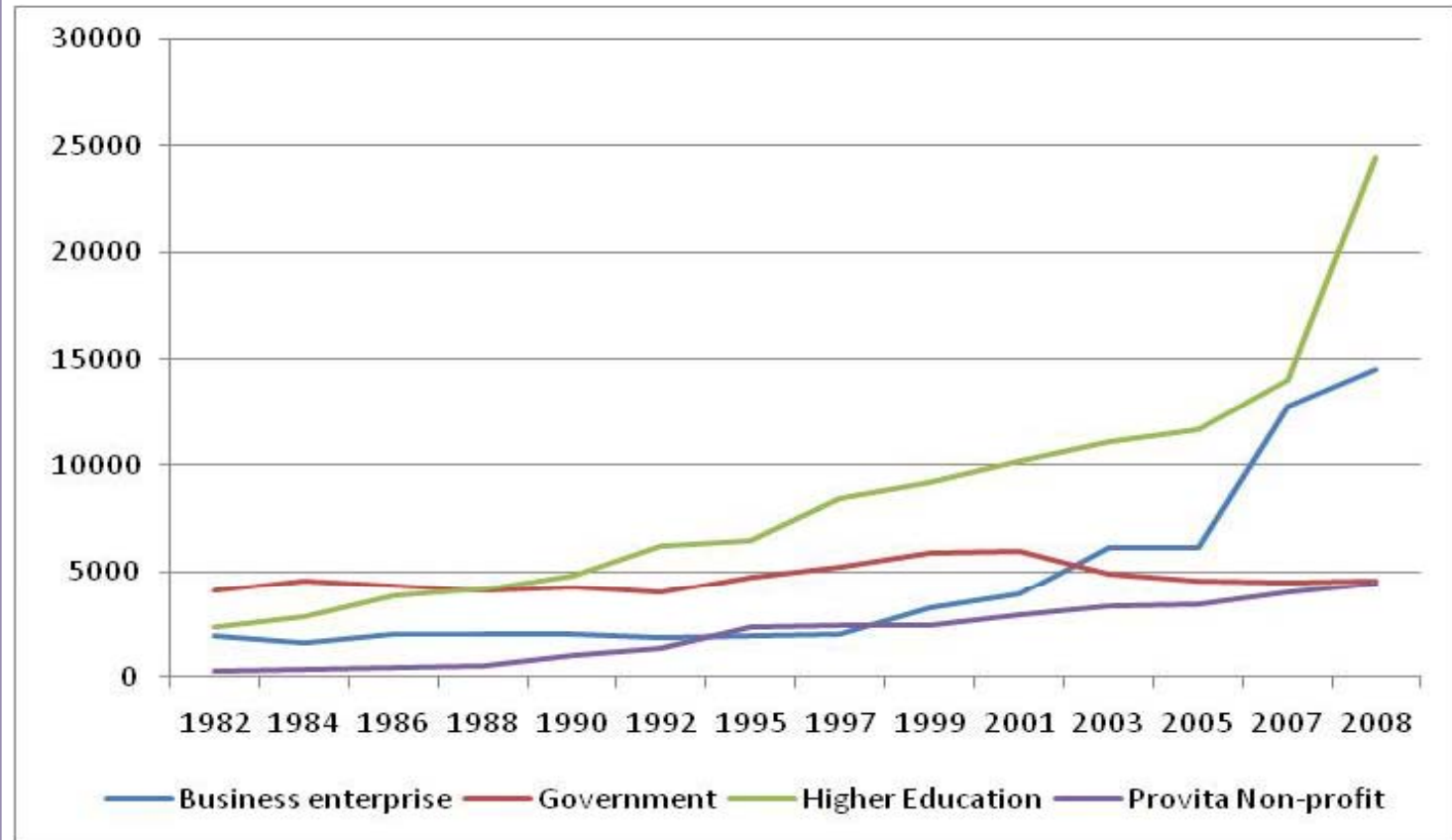
28-29 June 2010

Researchers (FTE) on R&D, 1982-2008



Source: IPCTN08 / GPEARI / MCTES

Researchers (FTE) by sector of performance, 1982-2008



Source: IPCTN08 / GPEARI / MCTES

R&D Survey for the Institutional Sector

– Where do we gather data from?

- ◆ Before 2005: R&D Units + State Laboratories and some faculties/universities.
- ◆ Now: R&D units + State Labs + Faculties (National register of active academic staff)
- ◆ Why: Covering R&D units is not enough to be cover all the institutional R&D system. Gathering data beyond the R&D units needed;
- ◆ In R&D 2008 National register of active academic staff dataset used.

R&D Survey for the Institutional Sector – How do we gather data?

- ◆ Institutional questionnaire to R&D units (collects data such as human resources, expenditure, etc.)
- ◆ Individual questionnaire to R&D units (collects biographic data such as name, birth date, sex, nationality, identity number, etc; used to validate the data)
- ◆ Why: validation; organizational and individual data of R&D units

Human resources in R&D activities

But several instruments are needed to know more about the human resources in R&D...

Emphasizing international comparative analyses: Careers on Doctorate Holders (CDH) Survey: looking for similarities and differences concerning doctoral holders in several countries.

Paths matter, exploring longitudinal data: analyzing the professional path of Portuguese doctorates since the 1970s

An international view - careers on doctorate holders (CDH) survey

- ◆ GPEAR is going to launch in July 2010 the 3rd Edition of CDH Survey, a joint project with UOE.
- ◆ This survey is implemented to all PhDs living in Portugal on 31/12/2009; less than 69 years old.
- ◆ Stratified sample by sex, age, scientific area and year of award.

A longitudinal view: analyzing the professional path of Portuguese doctorates since the 1970s

Answering to some questions, such as:

- ◆ Where are the 18365 doctorate holders awarded (or recognized) in Portugal since 1970?
- ◆ How many doctorate holders were funded by public funding? Where do doctorate holders work?

A longitudinal view: analyzing the professional path of Portuguese doctorates since the 1970s

How are we going to do it?

Use the National register of doctorate holders

Database where all the doctoral degrees granted by Portuguese universities are registered (since the 1970)

BUT...

A longitudinal view: analyzing the professional path of Portuguese doctorates since the 1970s

How are we going to do it?

- ◆ Using complementary sources of data from other institutions or ministries:
- ◆ Advanced fellowships and grants dataset from the Foundation for Science and Technology (FCT/MCTES)
- ◆ Personnel tables from the Ministry of Labor and Social Security

Main Ideias

- ◆ Measuring human resources enrolled in R&D activities require analyzing individual and organizational data.
- ◆ To better understand human resources in R&D, several instruments need to be used: international and longitudinal views concerning career paths
- ◆ Often this requires using and articulating various datasets