

# Expenditure on Research and Development

## Dimension - Science & Technology

Associated Key Factor:

### Research and Development

Data Source:

Eurostat New Chronos

<http://www.eu-datashop.de/datenba/EN/thema9/bereiche.htm>

[europa.eu.int/comm/eurostat/](http://europa.eu.int/comm/eurostat/)

#### General Availability:

Reporting unit: Monetary

Reporting level: national

Reporting period: annually

Data available from 1980 to 2002

#### Availability by country:

1980 - 2002: EU-15

1980 - 2002: Member States (EU-15)

1991 - 2002: Accession Countries

Data Source:

United Nation Development Programm

[http://www.undp.org/hdr2003/indicator/indic\\_107\\_1\\_1.html](http://www.undp.org/hdr2003/indicator/indic_107_1_1.html)

<http://undp.org>

#### General Availability:

Reporting unit: Monetary

Reporting level: national

Reporting period: annually

#### Availability by country:

1980 - 2003: EU-15+AC

#### The indicator:

Measures the gross domestic expenditure on Research and Development (GERD).

#### Description

Composed of four types of expenditure: Business enterprise expenditure in R&D (BERD), Higher Education expenditure in R&D (HERD), Government expenditure in R&D (GOVERD) and Private Non-profit expenditure in R&D (PNRD).

#### How is it measured?

Compilation of expenditures on RTD by government, higher education institutions and business -- the latter on the basis of surveys. This is then presented as a percentage of GDP.

#### What are the advantages of the indicator?

Strongly correlates with output indicators on innovation. It is particularly relevant in time-series to trace S&T policy. Available for most countries.

#### What are the disadvantages of the Indicator?

The correct interpretation of the indicator should consider background knowledge of the economic structure of the countries being compared. In particular, care is needed when comparing / assessing the BERD as it often includes double counting of government expenditures.

#### What is the policy relevance of the indicator?

Standard input indicator regarding S&T and innovation.

#### The Indicator is relevant for the following pathways of the FORESIGHT FOR TRANSPORT exercise:

	Transport Impact	External Determining Variable	Intermediate Variable	Contextual Information
Technological innovation and diffusion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trends regarding renewable energy source (RES) and rational use of energy (RUE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technological improvements and alternative fuels	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>