

## **Comparison between NABS 2007 and NABS 1992**

**October 2008**

## **PREFACE**

This document is the final description of the work with revising the Nomenclature for the Analysis and Comparison of Scientific Programmes and Budgets (NABS) of 1992 version into the 2007 version and provides a comparison between the two versions.

It further contains, as annexes, the final version of the NABS 2007 chapter and sub-chapter headings, the final version of NABS 2007 including the detailed annotations as well as a detailed bridge table between NABS 2007 and NABS 1992.

The classification is linked to the Frascati Manual (OECD 2002). The area of socio-economic objectives (SEO) of research and development (R&D) activities is considered in two ways in the Frascati Manual. The first is as a functional classification of the performance of R&D and the second relates to the analysis of government appropriations to R&D (GBOARD). The body responsible for the NABS classification is Eurostat.

The NABS nomenclature was originally established in 1969 and earlier revisions were carried out in 1975, 1983, 1992 and recently in 2007

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## 1. Introduction

The objectives of government funding of R&D (Research and Development) have long been of interest to policy makers. The system of classification used was the NABS (Nomenclature for the Analysis and comparison of Scientific programmes and Budget) which was developed in 1969 and first revised in 1975. NABS is mainly used for GBAORD (Government budget appropriations or outlays on R&D) and R&D statistics at international and national level.

After a first survey among users (at the Commission level, at the national level (National Statistical Institutes) and other actors (OECD for example) and users of GBAORD data, Eurostat, together with a number of countries, started to work on the revision in 2003/2004. A mini Task Force with some countries was then created at the end of 2005 by the WP on STI statistics in November 2005.

The mandate of this mini task force was to elaborate a further proposal according to the conclusions of the STI Working Party of November 2005.

- The socio-economic objectives (SEO) of the revised NABS should reflect the last evolutions in national budgets related to Science and Technology;
- Wherever possible, NABS should be linked to (harmonized with) existing classifications (FOS, IEA-RTD, NACE, COFOG);
- The structure of the revised NABS should be simplified;
- The NABS chapters should be better balanced with regard to the share of the totals which they take;
- The revision should allow continuity with regard to the current data; so there should be a conversion table comparing revised NABS and the previous version.

Based on the conclusions of the Mini Task Force, the NABS classification was discussed during the Task Force on Science and Technology held at Eurostat on 15/16 May 2006 and during the OECD NESTI meeting held in Berlin from the 29<sup>th</sup> of May to the 1<sup>st</sup> of June 2006.

Based on the input of this discussion a final draft proposal of the revised NABS was developed by the taskforce and presented at the STI WG meeting in November 2006. The members of the WG meeting agreed on the final structure, subject to some minor modifications. After the agreement Eurostat made the classification official through its classification server RAMON.

## 2. Overview of differences between NABS 2007 and 1992

The chapters in the final version of NABS 2007 are further improved and updated, according to users requirements balanced with the availability of data at the country level. It has also on one hand been further correlated with the FOS<sup>1</sup> classification, COFOG<sup>2</sup>, EPHF<sup>3</sup>, NACE<sup>4</sup> rev2, the IEA RD&D flow definitions<sup>5</sup>, and on the other the reference to the chapters of NABS 1992 has been kept as far as possible:

In NABS 2007 the subchapter level has disappeared, except in the chapters 12 and 13 where they are correlated with the FOS classification. At the same time chapter 08 from NABS 1992 has been divided into three new chapters. The purpose with these changes are, beside to provides more adequate and significant headlines and a better weighted balance between the NABS chapters.

As all NABS 2007 chapters correspond to a NABS 1992 chapter or sub-chapter, the previous content of the specific chapters have been used except for NABS 2007 chapters '12 – General advancement of knowledge: research financed from GUF' and NABS 2007 '13 - General advancement of knowledge: research financed from other sources'.

As the 4 first new NABS 2007 chapters (01, 02, 03 and 04) as well as chapter '14 – Defence' exactly correspond to a chapter in NABS 1992, the previous content was taken as it was and where possible, additional details have been given.

For NABS 2007 Chapter '05 - Energy', the old content is used and harmonized, as far as possible, with the categories used by the IEA R&D questionnaire.

For NABS 2007 Chapter '06 – Industrial production and technology', the old content is used and linked to the new version of the NACE (Rev2).

For NABS 2007 Chapter '07 - health', the old content is used but harmonized with the EPHF.

For NABS 2007 Chapter '08 – Agriculture', the old content is used and, as far as possible, harmonized with the FOS classification.

NABS 2007 chapters '09 – Education'; '10 – Culture recreation, religion and mass media' and '11 – Social protection/security and working conditions' correspond to the previous NABS 1992 chapter 8. The old content is used, and where possible, harmonized with COFOG.

NABS 2007 chapters '12 - General advancement of knowledge: Research financed from GUF' and '13 -General advancement of knowledge: Research financed from other sources' corresponds to chapter 10 and 11 of NABS 1992, and their content at sub-chapter follows the FOS classification.

The NABS 1992 chapter '12 - Other civil research' has no correspondence in NABS 2007.

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<sup>1</sup> REVISED FIELD OF SCIENCE AND TECHNOLOGY (FOS) CLASSIFICATION IN THE FRASCATI MANUAL, OECD 2006.

<sup>2</sup> Classification of the Functions of Government, *Classification of Expenditures According to Purpose*, Statistical Papers, Series M, No. 84 (New York: United Nations)

<sup>3</sup> Essential public healthfunctions Bettcher D, Sapirie S, Goon EHT. Essential public health functions: results of the international Delphi study. *World Health Statistical Quarterly*, 1998,51:44-55

<sup>4</sup> Statistical Classification of Economic Activities in the European Community, Rev. 2

<sup>5</sup> ENERGY TECHNOLOGY RD&D BUDGETS: BEYOND 2020 DOCUMENTATION, 2007 edition, IAE 2007

## **Annex A: DESCRIPTION OF THE CHAPTERS AND SUB-CHAPTERS OF NABS 2007**

### **CHAPTER 1: Exploration and exploitation of the Earth**

This chapter includes research and experimental development (R&D) related to:

- The exploration of the earth's crust and mantle, seas, oceans and atmosphere, and their exploitation;
- Climatic and meteorological research, polar exploration (under various headings, as appropriate) and hydrology.

This chapter also includes R&D related to:

- Mineral, oil and natural gas prospecting;
- Exploration and exploitation of the sea-bed;
- Earth's crust and mantle excluding sea-bed;
- Hydrology;
- Sea and oceans;
- Atmosphere.

This chapter does not include R&D related to:

- Pollution (included in Chapter 2);
- Soil improvement (included in Chapter 4);
- Land-use and fishing (included in Chapter 8).

### **CHAPTER 2: Environment**

This chapter includes R&D related to:

- The control of pollution, aimed at the identification and analysis of the sources of pollution and their causes, and all pollutants, including their dispersal in the environment and the effects on man, species (fauna, flora, microorganisms) and biosphere;
- Development of monitoring facilities for the measurement of all kinds of pollution;
- The elimination and prevention of all forms of pollution in all types of environment.

This chapter also includes R&D related to:

- Protection of atmosphere and climate;
- Protection of ambient air;
- Solid waste;
- Protection of ambient water;
- Protection of soil and groundwater;
- Noise and vibration;
- Protection of species and habitats;
- Protection against natural hazards;
- Radioactive pollution.

### **CHAPTER 3: Exploration and exploitation of space**

This chapter includes all R&D related to civil space.

This chapter also includes R&D related to:

- Scientific exploration of space;
- Applied research programmes;
- Launch systems;
- Space Laboratories and space travel.

This chapter does not include corresponding R&D in the defence field (included in Chapter 14).

It should be noticed that civil space R&D is not, in general, concerned with particular objectives, it frequently has a specific goal, such as the increase of general knowledge (e.g. astronomy), or relates to particular applications (e.g. telecommunications satellites).

### **CHAPTER 4: Transport, telecommunication and other infrastructures**

This chapter includes R&D related to:

- Infrastructure and land development, including the construction of buildings;
- The general planning of land-use;
- Protection against harmful effects in town and country planning.

This chapter also includes R&D related to:

- Transport systems;
- Telecommunication systems;
- General planning of Land-use;
- Construction and planning of building;
- Civil engineering;
- Water supply.

This chapter does not include R&D related to other types of pollution than harmful effects in town (included in Chapter 2).

### **CHAPTER 5: Energy**

This chapter includes R&D related to:

- The production, storage, transportation, distribution and rational use of all forms of energy;
- Processes designed to increase the efficiency of energy production and distribution;
- The study of energy conservation.

This chapter also includes R&D related to:

- Energy efficiency;
- CO<sub>2</sub> capture and storage;
- Renewable energy sources;
- Nuclear fission and fusion;
- Hydrogen and fuel cells;
- Other power and storage technologies.

This chapter does not include R&D related to:

- Prospecting (included in Chapter 1);
- Vehicle and engine propulsion (included in Chapter 6).

## **CHAPTER 6: Industrial production and technology**

This chapter includes R&D related to:

- The improvement of industrial production and technology;
- Industrial products and their manufacturing processes.

This chapter also includes R&D related to:

- Increasing economic efficiency and competitiveness;
- All manufactures as defined in the NACE Rev. 2 (codes 10 to 33);
- Recycling waste (metal and non metal).

This chapter does not include R&D related to industrial products and their manufacturing processes where they form an integral part of other objectives (e.g. defence, space, energy, agriculture).

## **CHAPTER 7: Health**

This chapter includes R&D related to protecting, promoting and restoring human health - broadly interpreted to include health aspects of nutrition and food hygiene. It ranges from preventative medicine, including all aspects of medical and surgical treatment, both for individuals and groups, and the provision of hospital and home care, to social medicine and paediatric and geriatric research.

This chapter also includes R&D related to:

- Prevention, surveillance and control of communicable and non-communicable diseases;
- Monitoring the health situation;
- Health promotion;
- Occupational health;
- Public health legislation and regulations;
- Public health management;
- Specific public health services;
- Personal health care for vulnerable and high risk populations.

## **CHAPTER 8: Agriculture**

This chapter includes R&D related to:

- The promotion of agriculture, forestry, fisheries and foodstuff production;
- Chemical fertilizers, biocides, biological pest control and the mechanization of agriculture;
- The impact of agricultural forestry activities on the environment;
- The field of developing food productivity and technology.

This chapter also includes R&D related to:

- Agriculture, forestry, and fishery;
- Animal and dairy science;
- Veterinary science and other agricultural sciences.

This chapter does not include R&D related to:

- The reduction of pollution (included in Chapter 2);
- The development of rural areas, the construction and planning of buildings, the improvement of rural rest and recreation amenities and agricultural water supply (included in Chapter 4);
- Energy measures (included in Chapter 5);
- The food industry (included in Chapter 6).



## **CHAPTER 9: Education**

This chapter includes R&D related to:

- Education general including training, pedagogy, didactics;
- Education, special (to gifted persons, those with learning disabilities).

This chapter also includes R&D related to:

- Pre- and primary school;
- Secondary school;
- Post secondary non-tertiary education;
- Tertiary education;
- Tertiary education;
- Subsidiary services to education.

## **CHAPTER 10: Culture, recreation, religion and mass media**

This chapter includes R&D related to:

- The social phenomena of cultural activities, religion and leisure activities so as to define their impact on life in society;
- Racial and cultural integration and on socio-cultural changes in these areas. The concept of "culture" covers the sociology of science, religion, art, sport and leisure and also comprises inter alia R&D on the media, the mastery of language and social integration, libraries, archives and external cultural policy.

This chapter also includes R&D related to:

- Recreational and sporting services;
- Cultural services;
- Broadcasting and publishing services;
- Religious and other community services;

## **CHAPTER 11: Political and social systems, structures and processes**

This chapter includes R&D related to:

- The political structure of society,
- Public administration issues and economic policy;
- Regional studies and multi-level governance;
- Social change, social processes and social conflicts;
- The development of social security and social assistance systems;
- The social aspects of the organization of work.

This chapter also includes R&D related to:

- Gender-related social studies including discrimination and familiar problems;
- The development of methods of combating poverty at local, national and international level;
- The protection of specific population categories on the social level (immigrants, delinquents, "drop outs" etc.), on the sociological level, i.e. with regard to their way of life (young people, adults, retired people, the handicapped etc.) and on the economic level (consumers, farmers, fishermen, miners, the unemployed etc.);
- Methods of providing social assistance when sudden changes (natural, technological or social) occur in society.

This chapter does not include R&D related to Industrial health, the health control of communities

from the organisational and socio-medical point of view, pollution at the place of work, prevention of industrial accidents and the medical aspects of the causes of industrial accidents (included in Chapter 07).

## **CHAPTER 12: General advancement of knowledge: R&D financed from General University Funds (GUF)**

### *12.1 R&D related to Natural Sciences - financed from GUF*

This heading covers:

R&D financed from GUF on mathematics, computer and information sciences, physical sciences, chemical sciences, earth and related environmental sciences, biological sciences (medical included in 12.3, and veterinary included in 12.4), other natural sciences.

### *12.2 R&D related to Engineering Sciences - financed from GUF*

This heading covers:

R&D financed from GUF on civil engineering, electrical engineering, electronic engineering, information engineering, mechanical engineering, chemical engineering, materials engineering, medical engineering, environmental engineering, environmental biotechnology, industrial biotechnology, nano-technology, other engineering and technologies.

### *12.3 R&D related to Medical Sciences - financed from GUF*

This heading covers:

R&D financed from GUF on basic medicine, clinical medicine, health sciences, medical biotechnology, other medical sciences.

### *12.4 R&D related to Agricultural Sciences - financed from GUF*

This heading covers:

R&D financed from GUF on agriculture, forestry, and fishery, animal and dairy science, veterinary science, agricultural biotechnology, other agricultural sciences.

### *12.5 R&D related to Social Sciences - financed from GUF*

This heading covers:

R&D financed from GUF on psychology, economics and business, educational sciences, sociology, law, political science, social and economic geography, media and communications, other social sciences.

### *12.6 R&D related to Humanities - financed from GUF*

This heading covers:

R&D financed from GUF on history and archaeology, languages and literature, philosophy, ethics and religion, art (arts, history of arts, performing arts, music), other humanities.

## **CHAPTER 13: General advancement of knowledge: R&D financed from other sources than GUF**

### *13.1 R&D related to Natural Sciences - financed from other sources than GUF*

This heading covers:

R&D financed from other sources than GUF on mathematics, computer and information sciences, physical sciences, chemical sciences, earth and related environmental sciences, biological sciences (medical included in 13.3, and veterinary included in 13.4), other natural sciences.

### *13.2 R&D related to Engineering Sciences - financed from other sources than GUF*

This heading covers:

R&D financed from other sources than GUF on civil engineering, electrical engineering, electronic engineering, information engineering, mechanical engineering, chemical engineering, materials engineering, medical engineering, environmental engineering, environmental biotechnology, industrial biotechnology, nano-technology, other engineering and technologies.

### *13.3 R&D related to Medical Sciences - financed from other sources than GUF*

This heading covers:

R&D financed from other sources than GUF on basic medicine, clinical medicine, health sciences, medical biotechnology, other medical sciences.

### *13.4 R&D related to Agricultural Sciences - financed from other sources than GUF*

This heading covers:

R&D financed from other sources than GUF on agriculture, forestry, and fishery, animal and dairy science, veterinary science, agricultural biotechnology, other agricultural sciences.

### *13.5 R&D related to Social Sciences - financed from other sources than GUF*

This heading covers:

R&D financed from other sources than GUF on psychology, economics and business, educational sciences, sociology, law, political science, social and economic geography, media and communications, other social sciences.

### *13.6 R&D related to Humanities - financed from other sources than GUF*

This heading covers:

R&D financed from other sources than GUF on history and archaeology, languages and literature, philosophy, ethics and religion, art (arts, history of arts, performing arts, music), other humanities.

## **CHAPTER 14: Defence**

This chapter includes R&D related to:

- Military purposes,
- Basic, nuclear and space R&D financed by Ministries of Defence.

This chapter does not include for example R&D financed by Ministries of Defence in the fields of meteorology, telecommunications and health, should be classified in the relevant chapters.

## **ANNEX B: Overview of NABS - 2007 chapter and subchapter level**

1. EXPLORATION AND EXPLOITATION OF THE EARTH
2. ENVIRONMENT
3. EXPLORATION AND EXPLOITATION OF SPACE
4. TRANSPORT, TELECOMMUNICATION AND OTHER INFRASTRUCTURES
5. ENERGY
6. INDUSTRIAL PRODUCTION AND TECHNOLOGY
7. HEALTH
8. AGRICULTURE
9. EDUCATION
10. CULTURE, RECREATION, RELIGION AND MASS MEDIA
11. POLITICAL AND SOCIAL SYSTEMS, STRUCTURES AND PROCESSES
12. GENERAL ADVANCEMENT OF KNOWLEDGE: R&D FINANCED FROM GENERAL UNIVERSITY FUNDS (GUF)
  - 12.1 *R&D related to Natural Sciences - financed from GUF*
  - 12.2 *R&D related to Engineering Sciences - financed from GUF*
  - 12.3 *R&D related to Medical Sciences - financed from GUF*
  - 12.4 *R&D related to Agricultural Sciences - financed from GUF*
  - 12.5 *R&D related to Social Sciences - financed from GUF*
  - 12.6 *R&D related to Humanities - financed from GUF*
13. GENERAL ADVANCEMENT OF KNOWLEDGE: R&D FINANCED FROM OTHER SOURCES THAN GUF
  - 13.1 *R&D related to Natural Sciences - financed from other sources than GUF*
  - 13.2 *R&D related to Engineering Sciences - financed from other sources than GUF*
  - 13.3 *R&D related to Medical Sciences - financed from other sources than GUF*
  - 13.4 *R&D related to Agricultural Sciences - financed from other sources than GUF*
  - 13.5 *R&D related to Social Sciences - financed from other sources than GUF*
  - 13.6 *R&D related to Humanities - financed from other sources than GUF*
14. DEFENCE

**ANNEX C: Table of Concordance- NABS 2007 and NABS 1992**

NABS 2007	<i>Codes</i>	<i>Codes</i>	NABS 1992
<p><b>Exploration and exploitation of the Earth</b></p> <p>The exploration of the earth's crust and mantle, seas, oceans and atmosphere, and their exploitation;</p> <p>Climatic and meteorological research, polar exploration (under various headings, as appropriate) and hydrology</p> <p>Mineral, oil and natural gas prospecting</p> <p>Exploration and exploitation of sea-bed</p> <p>Earth's crust and mantle excluding sea-bed</p> <p>Hydrology</p> <p>Sea and oceans</p> <p>Atmosphere</p>	<p><b>1</b></p>	<p><b>1.</b></p> <p>1.0</p> <p>1.1</p> <p>1.2</p> <p>1.3</p> <p>1.4</p> <p>1.5</p> <p>1.6</p> <p>1.9</p>	<p><b>Exploration and exploitation of the Earth</b></p> <p>General research</p> <p>Mineral, oil and natural gas prospecting</p> <p>Exploration and exploitation of sea-bed</p> <p>Earth's crust and mantle excluding sea-bed</p> <p>Hydrology</p> <p>Sea and oceans</p> <p>Atmosphere</p> <p>Other research on the exploration and exploitation of the Earth</p>
<p><b>Environment</b></p> <p>The control of pollution, aimed at the identification and analysis of the sources of pollution and their causes, and all pollutants, including their dispersal in the environment and the effects on man, species (fauna, flora, microorganisms) and biosphere;</p> <p>Development of monitoring facilities for the measurement of all kinds of pollution;</p> <p>The elimination and prevention of all forms of pollution in all types of environment.</p> <p>Protection of atmosphere and climate</p> <p>Protection of ambient air</p> <p>Solid waste</p>	<p><b>2.</b></p>	<p><b>3.</b></p> <p>3.0</p> <p>3.1</p> <p>3.2</p> <p>3.3</p>	<p><b>Control and care of the environment</b></p> <p>General research on the environment</p> <p>Protection of atmosphere and climate</p> <p>Protection of ambient air</p> <p>Solid waste</p>

<b>NABS 2007</b>	<i>Codes</i>	<i>Codes</i>	<b>NABS 1992</b>
Protection of ambient water		3.4	Protection of ambient water
Protection of soil and groundwater		3.5	Protection of soil and groundwater
Noise and vibration		3.6	Noise and vibration
Protection of species and habitats		3.7	Protection of species and habitats
Protection against natural hazards		3.8	Protection against natural hazards
Radioactive pollution		3.9	Radioactive pollution
		3.10	Other research on the environment
<b>Exploration and exploitation of space</b>	<b>3.</b>	<b>9.</b>	<b>Exploration and exploitation of space</b>
All R&D related to civil space		9.0	General research
Scientific exploration of space		9.1	Scientific exploration of space
Applied research programmes		9.2	Applied research programmes
Launch systems		9.3	Launch systems
Space Laboratories and space travel		9.4	Space Laboratories and space travel
		9.9	Other research on the exploration and exploitation of space
<b>Transport, telecommunication and other infrastructures</b>	<b>4.</b>	<b>2.</b>	<b>Infrastructure and general planning of land-use</b>
Infrastructure and land development, including the construction of buildings; The general planning of land-use; Protection against harmful effects in town and country planning.		2.0	General research
Transport systems		2.4	Transport systems
Telecommunication systems		2.5	Telecommunication systems
General planning of land-use		2.1	General planning of land-use
Construction and planning of building		2.2	Construction and planning of building
Civil engineering		2.3	Civil engineering
Water supply		2.6	Water supply
		2.9	Other research on the infrastructure and general planning of land-use

NABS 2007	<i>Codes</i>	<i>Codes</i>	NABS 1992
<p><b>Energy</b></p> <p>The production, storage, transportation, distribution and rational use of all forms of energy;</p> <p>Processes designed to increase the efficiency of energy production and distribution;</p> <p>The study of energy conservation.</p> <p>Energy efficiency</p> <p>CO2 capture and storage</p> <p>Renewable energy sources</p> <p>Nuclear fission and fusion</p> <p>Hydrogen and fuel gas</p> <p>Other power and storage technologies</p>	<p>5.</p>	<p>5.</p> <p>5.0</p> <p>5.6</p> <p>5.5</p> <p>5.5.1</p> <p>5.5.2</p> <p>5.5.3</p> <p>5.5.4</p> <p>5.2</p> <p>5.4</p> <p>5.3</p> <p>5.1</p> <p>5.9</p>	<p><b>Production, distribution and rational utilization of energy</b></p> <p>General research</p> <p>Rational utilization of energy</p> <p>Renewable energy sources</p> <p>Solar, thermal, and photovoltaic energy</p> <p>Geothermal energy</p> <p>Water, wind and wave energy</p> <p>Research into biomass and in the processing of waste from industry, agriculture etc</p> <p>Nuclear fission</p> <p>Nuclear fusion</p> <p>Radioactive waste management including decommissioning</p> <p>Fossil fuels and their derivatives</p> <p>Other research on the production, distribution and rational utilization of energy</p>
<p><b>Industrial production and technology</b></p> <p>The improvement of industrial production and technology;</p> <p>Industrial products and their manufacturing processes.</p> <p>Increasing economic efficiency and competitiveness</p>	<p>6.</p>	<p>7.</p> <p>7.0</p> <p>7.1</p>	<p><b>Industrial production and technology</b></p> <p>General research</p> <p>Increasing economic efficiency and competitiveness</p>





<b>NABS 2007</b>	<i>Codes</i>	<i>Codes</i>	<b>NABS 1992</b>
Personal health care for vulnerable and high risk population		4.6 4.3 4.9	Drug abuse and addiction  Biomedical engineering and medicines  Other medical research
<b>Agriculture</b>  The promotion of agriculture, forestry, fisheries and foodstuff production; Chemical fertilizers, biocides, biological pest control and the mechanization of agriculture; The impact of agricultural forestry activities on the environment; The field of developing food productivity and technology Agriculture, forestry and fishery  Animal and diary science  Veterinary science and other agricultural science	<b>8.</b>	<b>6.</b>  6.0  6.2+6.4+6.5  6.1  6.3+6.6  6.9	<b>Agricultural production and technology</b>  General research  6.2 Fishing and fish-farming 6.4 Crops 6.5 Forestry and timber production Animal product 6.3 Veterinary medicine 6.6 Food technology  Other research on agricultural production and technology
<b>Divided in to new chapters</b>	<b>9 to 11</b>	<b>8.</b>  8.0	<b>Social structures and relationships</b>  General research
<b>Education</b>  Education general including training, pedagogy, didactics; Education, special (to gifted persons, those with learning disabilities) Pre- and primary school  Secondary school  Post secondary non tertiary education  Tertiary education  Subsidiary services to education	<b>9.</b>	8.1	Education, training, recurrent education and retraining

NABS 2007	<i>Codes</i>	<i>Codes</i>	NABS 1992
<p><b>Culture, recreation religion and mass media</b></p> <p>The social phenomena of cultural activities, religion and leisure activities so as to define their impact on life in society;</p> <p>Racial and cultural integration and on socio-cultural changes in these areas. The concept of "culture" covers the sociology of science, religion, art, sport and leisure and also comprises inter alia R&amp;D on the media, the mastery of language and social integration, libraries, archives and external cultural policy</p> <p>Recreational and sporting services</p> <p>Cultural services</p> <p>Broadcasting and publishing services</p> <p>Religious and other community services</p>	<b>10.</b>	<b>8.2</b>	<b>Cultural activities</b>
<p>Political and social systems, structures and processes</p> <p>The political structure of society</p> <p>Public administration issues and economic policy;</p> <p>Regional studies and multi- level governance;</p> <p>Social change, social processes and social conflicts;</p> <p>The development of social security and social assistance systems;</p> <p>The social aspects of the organization of work</p> <p>Gender-related social studies including discrimination and familiar problems</p> <p>The development of methods of combating poverty at local, national and international level</p>	<b>11.</b>	<b>8.3</b>  (8.4+8.5+8.6+8.7+8.9)	<p><b>Management of business and institutions</b></p> <p>8.4 Improvement of working conditions</p> <p>8.5 Social security system</p> <p>8.6 Political structure of society</p> <p>8.7 Social change, social processes and social conflicts</p>

NABS 2007	<i>Codes</i>	<i>Codes</i>	NABS 1992
<p>The protection of specific population categories on the social level (immigrants, delinquents, "drop outs" etc.), on the sociological level, i.e. with regard to their way of life (young people, adults, retired people, the handicapped etc.) and on the economic level (consumers, farmers, fishermen, miners, the unemployed etc.</p> <p>Methods of providing social assistance when sudden changes (natural, technological or social) occur in society</p>			
<p><b>General advancement of knowledge: R&amp;D financed from General University Funds (GUF)</b></p> <p><b>R&amp;D related to Natural Sciences - financed from GUF</b></p> <p>Mathematics, computer and information sciences</p> <p>Physical sciences</p> <p>Chemical sciences</p> <p>Earth and related environmental sciences</p> <p>Biological sciences</p> <p>Other natural sciences</p> <p><b>R&amp;D related to Engineering Sciences - financed from GUF</b></p> <p>R&amp;D financed from GUF on civil engineering, electrical engineering, electronic engineering, information engineering, mechanical engineering, chemical engineering, materials engineering, medical engineering, environmental engineering, environmental biotechnology, industrial biotechnology, nano-technology, other engineering and technologies</p> <p><b>R&amp;D related to Medical Sciences - financed from GUF</b></p>	<p><b>12.</b></p> <p><b>12.1</b></p> <p><b>12.2</b></p> <p><b>12.3</b></p>	<p><b>10.</b></p> <p>10.0 to 10.4</p> <p><b>10.5</b></p> <p><b>10.6</b></p>	<p><b>Research financed from General University Funds (GUF)</b></p> <p>10.0 Mathematics and computer science</p> <p>10.1 Physical science</p> <p>10.2 Chemical sciences</p> <p>10.4 Earth and related (environmental)</p> <p>10.3 Biological science</p> <p><b>Engineering science</b></p> <p><b>Medical science</b></p>

NABS 2007	<i>Codes</i>	<i>Codes</i>	NABS 1992
<p>R&amp;D financed from GUF on basic medicine, clinical medicine, health sciences, medical biotechnology, other medical sciences</p> <p><b>R&amp;D related to Agricultural Sciences - financed from GUF</b></p> <p>R&amp;D financed from GUF on agriculture, forestry, and fishery, animal and dairy science, veterinary science, agricultural biotechnology, other agricultural sciences</p> <p><b>R&amp;D related to Social Sciences - financed from GUF</b></p> <p>R&amp;D financed from GUF on psychology, economics and business, educational sciences, sociology, law, political science, social and economic geography, media and communications, other social sciences</p> <p><b>R&amp;D related to Humanities - financed from GUF</b></p> <p>R&amp;D financed from GUF on history and archaeology, languages and literature, philosophy, ethics and religion, art , other humanities</p>	<p><b>12.4</b></p> <p><b>12.5</b></p> <p><b>12.6</b></p>	<p><b>10.7</b></p> <p><b>10.8</b></p> <p><b>10.9</b></p>	<p><b>Agricultural Sciences</b></p> <p><b>Social Sciences</b></p> <p><b>Humanities</b></p>
<p><b>General advancement of knowledge: R&amp;D financed from other sources than GUF</b></p> <p><b>R&amp;D related to Natural Sciences - financed from other sources than GUF</b></p> <p>Mathematics, computer and information sciences</p> <p>Physical sciences</p> <p>Chemical sciences</p> <p>Earth and related environmental sciences</p> <p>Biological sciences</p> <p>Other natural sciences</p>	<p><b>13.</b></p> <p><b>13.1</b></p>	<p><b>11.</b></p> <p>11.0 to 11.4</p>	<p><b>Non-oriented research</b></p> <p>11.0 Mathematics and computer science</p> <p>11.1 Physical science</p> <p>11.2 Chemical sciences</p> <p>11.4 Earth and related (environmental)</p> <p>11.3 Biological science</p>

<b>NABS 2007</b>	<i>Codes</i>	<i>Codes</i>	<b>NABS 1992</b>
<p><b>R&amp;D related to Engineering Sciences - financed from other sources than GUF</b></p> <p>R&amp;D financed from other sources than GUF on civil engineering, electrical engineering, electronic engineering, information engineering, mechanical engineering, chemical engineering, materials engineering, medical engineering, environmental engineering, environmental biotechnology, industrial biotechnology, nano-technology, other engineering and technologies</p>	<b>13.2</b>	<b>11.5</b>	<b>Engineering science</b>
<p><b>R&amp;D related to Medical Sciences - financed from other sources than GUF</b></p> <p>R&amp;D financed from other sources than GUF on basic medicine, clinical medicine, health sciences, medical biotechnology, other medical sciences</p>	<b>13.3</b>	<b>11.6</b>	<b>Medical science</b>
<p><b>R&amp;D related to Agricultural Sciences - financed from other sources than GUF</b></p> <p>R&amp;D financed from other sources than GUF on agriculture, forestry, and fishery, animal and dairy science, veterinary science, agricultural biotechnology, other agricultural sciences</p>	<b>13.4</b>	<b>11.7</b>	<b>Agricultural Sciences</b>
<p><b>R&amp;D related to Social Sciences - financed from other sources than GUF</b></p> <p>R&amp;D financed from other sources than GUF on psychology, economics and business, educational sciences, sociology, law, political science, social and economic geography, media and communications, other social sciences</p>	<b>13.5</b>	<b>11.8</b>	<b>Social Sciences</b>
<p><b>R&amp;D related to Humanities - financed from other sources than GUF</b></p> <p>R&amp;D financed from other sources than GUF on history and archaeology, languages and literature, philosophy, ethics and religion, art (arts, history of arts, performing arts, music), other humanities</p>	<b>13.6</b>	<b>11.9</b>	<b>Humanities</b>
<b>Distributed into chapters 1 to 13</b>		<b>12</b>	<b>Other civil research</b>
<b>Defence</b>	<b>14</b>	<b>13</b>	<b>Defence</b>