

Nomenclature for the Analysis and Comparison of Scientific Budgets and Programmes (NABS 2007). Distribution by socioeconomic objectives

Chapter 1. The Exploration and Exploitation of the Earth

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

- The exploration and exploitation of the Earth's crust, mantle, seas, oceans and atmosphere;
- Climatology and meteorological research, polar and hydrological exploration.

This chapter also includes R&D with respect to:

- Mineral, petroleum and gas prospection;
- The exploration and exploitation of the Earth's submerged plates;
- The Earth's crust and mantle except for the submerged plates;
- Hydrology;
- Seas and oceans;
- Atmosphere.

This chapter does not include R&D with respect to:

- Pollution (included in chapter 2);
- Soil improvement (included in chapter 4);
- Spatial planning and the fishing industry (included in chapter 8).

Chapter 2. The Environment

This chapter includes R&D with respect to:

- Pollution control, with the aim being to identify and analyse pollution sources and their causes, and all of the polluting agents, including the dispersion thereof in the environment and their effects on mankind, species (fauna, flora and microorganisms) and the biosphere;
- The development of monitoring installations for measuring all types of pollution;
- The elimination and prevention of all types of pollution in the environment.

- This chapter also includes R&D with respect to:

- Atmosphere and climate protection;
- Protecting the air;
- Solid wastes;
- Water protection;
- Soil and phreatic water protection;
- Noise and vibrations;
- The protection of species and their habitats;
- Protecting against natural hazards;
- Radioactive pollution.

Chapter 3. The Exploration and Exploitation of Space

This chapter includes all of the R&D carried out with respect to space.

- This chapter also includes R&D with respect to:

- The scientific exploration of space (for example, astronomy);
- Applied research programmes (for example, communications satellites);

- Launch systems;
- Space laboratories and travel.

This chapter does not include R&D with respect to defence (included in chapter 14).

Chapter 4. Transport, Telecommunications and Other infrastructures

- This chapter includes R&D with respect to:
 - Territorial infrastructure and development, including the construction of buildings;
 - General land usage planning;
 - Protection against the harmful effects of rural and urban planning.

- This chapter also includes R&D with respect to:
 - Transport systems;
 - Telecommunications systems;
 - General spatial planning;
 - Construction and habitat planning;
 - Civil engineering;
 - Water supply.

This chapter does not include R&D with respect to harmful pollutants in cities (included in chapter 2)

Chapter 5. Energy

- This chapter includes R&D with respect to:
 - The production, storage, transportation, distribution and rational usage of any type of energy;
 - Processes designed to increase efficiency in the production and distribution of energy;
 - Energy conservation study.

- This chapter also includes R&D with respect to:
 - Energy efficiency;
 - The capture and storage of CO₂;
 - Sources of renewable energies;
 - Nuclear fission and fusion;
 - Hydrogen and gas;
 - Other energy and storage technologies.

This chapter does not include R&D with respect to:

- Prospection (included in chapter 1);
- Vehicles and propulsion motors (included in chapter 6).

Chapter 6. Industrial Production and Technology

- This chapter includes R&D with respect to:
 - Improving industrial production and technology;
 - Industrial products and their manufacturing processes.

- This chapter also includes R&D with respect to:
 - Improving economic efficiency and competitiveness;
 - Manufacturing as and how defined in NACE Rev.2 (codes 10 to 33);

- Waste recycling (metallic and non-metallic).

This chapter does not include R&D with respect to industrial products and their manufacturing processes when these form part of another socioeconomic objective (for example, defence, space, energy, agriculture).

Chapter 7. Health

This chapter includes R&D with respect to:

The protection, promotion and re-establishment of human health, in general terms (including those aspects relative to nutrition and food hygiene). This encompasses everything from preventive medicine, including all aspects of medical and surgical treatments, both for individuals and groups, and the provision of hospitals and healthcare in the home, social medicine and paediatric and geriatric research.

- This chapter also includes R&D with respect to:
 - The prevention, monitoring and control of transmittable and non-transmittable diseases;
 - Health monitoring;
 - Health promotion;
 - Occupational medicine;
 - Public Health legislation and regulations;
 - Public Health management;
 - Specific Public Health services;
 - Personal medical care for vulnerable and high-risk populations.

Chapter 8. Agriculture

This chapter includes R&D with respect to:

- The promotion of agriculture, forestry, the fishing industry and the foodstuffs industry;
- Chemical fertilisers, biocides, biological pest control and agricultural mechanisation;
- The environmental impact of forestry activities;
- Production and technology in the foodstuffs industry.

This chapter also includes R&D with respect to:

- Agriculture, forestry and the fishing industry;
- The science of animal production;
- Veterinary science and other agricultural sciences.

This chapter does not include R&D with respect to:

- Reducing pollution (included in chapter 2);
- The development of rural areas, the construction and planning of buildings, rural tourism activities and the supply of water for agricultural purposes (included in chapter 4);
- Energy metering (included in chapter 5);
- The foodstuffs industry (included in chapter 6).

Chapter 9. Education.

This chapter includes R&D with respect to:

- General education, including training, pedagogy, didactics;
- Special education (exceptionally gifted people, people with learning difficulties).

This chapter also includes R&D with respect to:

- Infant and primary education;
- Secondary education;
- Post-secondary (not higher) education;
- Higher education;
- Subsidiary education services.

Chapter 10. Culture, Leisure, Religion and Media

- This chapter includes R&D with respect to:
- The social phenomena of cultural activities, religion and leisure activities as well as their impact on life in society;
- Racial and cultural integration and socio-cultural changes in these areas.

The "culture" concept includes the sociology of science, religion, art, sport and leisure and, among other aspects, also encompasses the media, language and social integration, libraries, archives and cultural policy.

- This chapter also includes R&D with respect to:
- Recreational and sports services;
- Cultural services;
- Broadcasting and advertising services;
- Religious and other community services.

Chapter 11. Political and Social Systems, Structures and Processes

- This chapter includes R&D with respect to:
- The political structure of society;
- Questions of public administration and economic policy;
- Regional and governance studies;
- Social changes, processes and conflicts;
- The development of social security and social welfare systems;
- The social aspects of workplace organisation.

- This chapter also includes R&D with respect to:
- Social studies relative to the subject area including family and discrimination problems;
- The development of methods for combating poverty on a local, national and international level;
- Protecting different categories of the population (immigrants, criminals, "outcasts", etc.) in accordance with their social categories (young people, adults, pensioners, the handicapped, etc.) and economic categories (consumers, farmers, fishermen, miners, the unemployed, etc.);
- Methods of providing social assistance in situations of catastrophe or drastic change (natural, technological or social).

This chapter does not include R&D with respect to occupational health, community health control from the organisational and medical-social points of view, the prevention of accidents in the workplace and the medical aspects of the causes of accidents in the workplace (included in chapter 7).

Chapter 13. The General Progress of Knowledge: R&D financed by other sources

13.1 R&D with respect to the Natural Sciences

This subchapter includes:

R&D with respect to mathematics, computer and information sciences, physical sciences, the chemical sciences, Earth sciences and other sciences related with the environment, biological sciences (medical included in 13.3 and veterinary included in 13.4), and other natural sciences.

13.2 1 R&D with respect to Engineering

This subchapter includes:

R&D with respect to civil engineering, electrical engineering, electronic engineering, computer engineering, industrial engineering, chemical engineering, materials engineering, medical engineering, environmental engineering, environmental biotechnology, industrial biotechnology, nanotechnology, other types of engineering and technologies.

13.3 1 R&D with respect to the Medical Sciences

This subchapter includes:

R&D with respect to basic medicine, clinical medicine, health sciences, medical biotechnology, other medical sciences.

13.4 1 R&D with respect to Agricultural Sciences

This subchapter includes:

R&D with respect to agriculture, forestry and the fishing industry, animal production science, veterinary science, agricultural biotechnology, other agricultural sciences.

13.5 1 R&D with respect to the Social Sciences

This subchapter includes:

R&D with respect to psychology, economics and businesses, education sciences, sociology, law, political sciences, social geography and economics, media and communications, other social sciences.

13.6 1 R&D with respect to the Human Sciences

This subchapter includes:

R&D with respect to history and archaeology, languages and literature, philosophy, ethics and religion, art (art, art history, theatre, music), other human sciences.

Chapter 14. Defence

- This chapter includes R&D with respect to:
- Military objectives;
- Basic, nuclear and space R&D financed by the Defence Ministries.

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