A new list of 15 national smart specialisations

A new list of 15 national smart specializations (NSS) has been in force since 2019.

As a result of work on thematic concentration in the section „Natural resources and waste management", the Ministry of Entrepreneurship and Technology along with the Working Groups for national smart specialisations decided to create a specialisation „Circular economy - water, fossil raw materials, waste" covering 3 previous specialisations:

- NSS 7 Modern technologies for acquiring, processing and using natural resources and manufacturing their substitutes;
- NSS 8 Minimisation of waste generation, including non-recyclable waste, and the material and energy use of waste (recycling and other recovery methods);
- NSS 9 Innovative solutions and technologies in water and wastewater management.

The working group proposed minor modifications to the description of NSS 4 „High-efficiency, low-carbon, integrated systems for generation, storage, transmission and distribution of energy". They are mainly of an ordering nature.

The current list of national smart specialisations is as follows:

HEALTHY SOCIETY

NSS 1. HEALTHY SOCIETY

AGRICULTURE AND FOOD BIOECONOMY, FOREST BASED AND ENVIRONMENTAL BIOECONOMY

NSS 2. INNOVATIVE TECHNOLOGIES, PROCESSES AND PRODUCTS OF THE AGRICULTURE AND FOOD AND FOREST BASED SECTOR

NSS 3. BIOTECHNOLOGICAL AND CHEMICAL PROCESSES, BIOPRODUCTS AND PRODUCTS OF DEDICATED CHEMISTRY AND ENVIRONMENTAL ENGINEERING SUSTAINABLE ENERGY INDUSTRY

NSS 4. HIGHLY EFFICIENT, LOW-CARBON AND INTEGRATED SYSTEMS OF GENERATION, STORAGE, TRANSMISSION AND DISTRIBUTION OF ENERGY

NSS 5. SMART AND ENERGY-EFFICIENT CONSTRUCTION

NSS 6. ENVIRONMENT FRIENDLY TRANSPORT SOLUTIONS

CIRCULAR ECONOMY – WATER, FOSSIL RAW MATERIALS, WASTE

NSS 7. CIRCULAR ECONOMY – WATER, FOSSIL RAW MATERIALS, WASTE

INNOVATIVE TECHNOLOGIES AND INDUSTRIAL PROCESSES (HORIZONTAL APPROACH)

NSS 8. MULTIFUNCTIONAL MATERIALS AND COMPOSITES WITH ADVANCED PROPERTIES,

INCLUDING NANOPROCESSES AND NANOPRODUCTS

NSS 9. SENSORS (INCLUDING BIOSENSORS) AND SMART SENSOR NETWORKS

NSS 10. SMART NETWORKS, INFORMATION AND COMMUNICATION TECHNOLOGIES AND

GEOINFORMATION TECHNOLOGIES

NSS 11. PRINTED, ORGANIC AND FLEXIBLE ELECTRONICS

NSS 12. AUTOMATION AND ROBOTICS OF TECHNOLOGICAL PROCESSES

NSS 13. PHOTONICS

NSS 14. INTELLIGENT CREATION TECHNOLOGIES

NSS 15. INNOVATIVE MARITIME TECHNOLOGIES FOR SPECIALIZED VESSELS, MARITIME AND

OFFSHORE STRUCTURES AND LOGISTICS BASED ON THE SEA AND INLAND WATERWAY

TRANSPORT

A detailed description of national smart specialisations in force from 1 January 2019
 843.76 KB

National smart specialisations are socio-economic priorities in the field of research, development and innovation, which concentrate investments in areas ensuring the added value of the economy and its competitiveness. Smart specialisations are the result of cooperation between public administration, representatives of business and science in order to identify bottom-up areas in which Polish enterprises and scientists have development potential, and the concentration of support will allow return on investment and development of innovation. Smart specialisations are to contribute to the transformation of the national economy through its modernization, structural

transformation, diversification of products and services and the creation of innovative socio-economic solutions, also supporting the transformation towards a resource-efficient economy, including natural resources.