



BOOK OF ABSTRACTS

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for Polish Higher Education and Research Ecosystems:
Digital European Studies*

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Keywords: *Dairy Sector Transformation, Sustainable Investment, Circular Economy, Methane Emissions Reduction, Productivity Innovation, Rural Economic Resilience, Nutritional Excellence*

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EU Strategies for the Economic, Social, and Environmental Revitalisation of Ecosystems Based on the Bioeconomy

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Sustainable development strategies call for a transition from linear economic models to a closed-loop economy, or circular economy. The circular economic model is based on recycling (renewability). European Union countries and other developed nations have developed and are implementing dual transition strategies – the simultaneous green and digital transformation of society. Achieving this dual transition requires new economic models that ensure the attainment of the Sustainable Development Goals. Effective synergy in the development and implementation of national strategies for the transition (transformation) to new economic models of sustainable development will ensure the development of sustainable value chains and their integration into European ecosystems. The bioeconomy model is based on the sustainable use of renewable biological resources (biomass) in a circular manner through biotechnological processes. More active development of a sustainable bioeconomy will help the EU accelerate progress toward a circular and low-carbon economy. A sustainable circular bioeconomy, an economic model based on circular principles, aims to address food security and the environmental crisis, enhance competitiveness, reduce dependence on non-renewable resources, and ensure the sustainable management of natural resources without slowing economic growth. It is geared toward sustainable, inclusive development, focusing on ecosystem goods and services, and contributes to achieving the Sustainable Development Goals. Looking ahead, the circular bioeconomy is emerging as a new economic paradigm, having previously been merely one tool of the “green economy” in the broad sense. In this paradigm, the bioeconomy is the intrinsic foundation of the circular economy. Together with several other innovative tools of the sustainable development economy, the circular bioeconomy defines a new mission (vision) and objectives.

Keywords: *Economy, Digital Economy, Digital Transformation, Green Transition, Bioeconomy, Sustainable Development*

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