Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: **dr hab. inż. Agnieszka Karczmarczyk, prof. SGGW**	
Scientific discipline/ disciplines	Environmental engineering, mining and energy
Professional development (degrees and titles) in chronological order	November 19, 2003 - obtaining a doctoral degree in agricultural sciences in the field of environmental management. Faculty of Engineering and Environmental Management, Warsaw University of Life Sciences July 4, 2018 - obtaining the habilitation degree in technical sciences in the field of environmental engineering. Faculty of Civil and Environmental Engineering, Gdańsk University of Technology
Most important publications/ patents in the last 3 years (maximum 10)	https://bw.sggw.edu.pl/info/author/WULS304eae5d76c14f289a48933b006d6806/
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	Co-supervisor: Ayana Dyuisenkhan, KazNARU, Almaty, Kazakhstan, supervisor: Ainura Aldiyarova Supervisor of research internships: Ieva Andriulaityte, VGTU, Lithuania, supervisor: Marina Valentukevičienė Ayana Dyuisenkhan, KazNARU, Almaty, Kazakhstan, supervisor: Ainura Aldiyarova
Project/grants achievements (in the last 10 years)	Reducing Emissions by Turning Nutrients and Carbon into Benefits (RETURN). 1.12.2017 - 30.06.2018. EU Science for a Better Future of the Baltic Sea Region (BONUS) Testing the leachate from extensive green roofs in terms of the amount of water and phosphate content. 25.07. 2016 – 30.06.2018. Implemented under the cooperation agreement 1 / KKŚ / 2016 Effect of biological membrane development on phosphate removal through flow-controlled mineral filters. 01.07.2017 implemented under the cooperation agreement CiiTT / 27/2017
Topic – research problem – for which the candidate supervisor seeks a doctoral student	The study aims to assess the state of implementation, verify the indicators, and identify the limitations of adapting the SDGs across different countries, as well as to develop recommendations for a set of goals and indicators that would better address the challenges and needs of economies at varying levels of development and could be implemented after 2030. The

	necessity of conducting the research stems from issues of data quality and comparability, the lack of enforceability of certain indicators, and substantial disparities between countries and differing capacities to finance the transformation. Furthermore, there is a need to develop a coherent, flexible, and measurable assessment system that would, on the one hand, preserve the universal SDG approach, and, on the other hand, effectively tailor the goals and instruments to the national context and to changing climatic, technological, and demographic conditions. The primary research objective is to identify the key constraints of the current SDG construct—namely, (1) measurement and data quality, (2) universality and fit to national contexts, (3) policy coherence and financing mechanisms, and (4) enforceability and transparency of progress. The research will be conducted in four tightly interconnected blocks: (1) diagnosis of the current state: a literature review, assessment of data quality and SDG indicators, identification of methodological gaps, and identification of national and regional contexts; (2) analysis of the relationships between data quality, characteristics of institutional systems, and SDG achievements in selected countries at different levels of development; (3) development of development progress reporting standards (as opposed to state-of-implementation indicators); (4) formulation of recommendations for post-2030 goals and indicators.
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