Name and surname:	**Sebastian Opaliński**
Academic Degree	dr hab. inż. (DSc.)
Institute/Department	Department of Environment Hygiene and Animal Welfare
e-mail address:	sebastian.opalinski@upwr.edu.pl
ORCID:	0000-0003-3669-5994
UPWr Base of Knowledge - link	https://bazawiedzy.upwr.edu.pl/info.seam?id=UPWr042d8442ed8e494f97809881607fa68f
Researchgate:	https://www.researchgate.net/profile/Sebastian-Opalinski
Personal website / Working group website:	https://upwr.edu.pl/en/research/leading-research-group/animal-science-for-future-asc4future
Projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)):	The project concerning the evaluation of odour reducing microbial-mineral additive for poultry manure, financially supported by The National Centre for Research and Development grant no. PBS2/B8/14/2014 "Innovative biopreparation for poultry production premises", RF ERA-NET CO-FUND ICT-AGRI-FOOD, LivestockSense, "Enhancing environmental sustainability of livestock farms by removing barriers for adoption of ICT technologies", PI;
Research topic and funding	
1) PhD topic:	Selected precision livestock farming tools and their impact on animal welfare and production efficiency at
2) Research discipline in Doctoral School	Animal Science and Fisheries
3) Short description of the research problem to be solved in the PhD:	Digital technologies have been developed to monitor various livestock species' production efficiency and environmental conditions in real-time (Banhazi et al., 2012). Precision Livestock Farming (PLF) tools enable improving animal health & welfare, maximising production efficiency, increasing product quality, and mitigating livestock emissions. Unfortunately, PLF tools are not widely used on poultry farms cause European farmers lack the knowledge to understand the benefits of PLF. Thus, promoting and adopting PLF is a significant challenge in animal production because the development of sustainable animal husbandry requires the removal of socio-economic and cultural barriers preventing PLF adoption. Therefore, the main objectives of the research planned for PhD student are (1) conducting tests with the use of PLF tools to determine its real impact on improving the efficiency of animal production, (2) collecting as much data as possible from farms where PLF tools operate under production conditions, (3) determining the real expectations and concerns of livestock farmers towards PLF, based on surveys obtained from the largest possible target group.
4) Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques):	Higher education in animal science. Interest in scientific work, the ability to work both independently and in a group, communication skills. Necessary skills in planning experiments, data analysis and writing scientific publications. Computer skills in the MS Office environment and the statistical package. Participation in conferences and scientific publications on the issues of livestock farming and breeding. Knowledge of English at the C1 level. The candidate should be ready to complete the min. 4-month internship at a foreign research centre dealing with precision livestock farming methods.
5) Details of the project to support PhD research	
a) Project title:	ERA-NET CO-FUND ICT-AGRI-FOOD, LivestockSense, "Enhancing environmental sustainability of livestock farms by removing barriers for adoption of ICT technologies"
b) Agreement number:	The agreement will be signed soon, the Project starts on April 1, 2021
c) Number of months in the project to support PhD (in months; starting from 1st of October 2021):	12
6) Project webside:	https://ictagrifood.eu/node/44588