

### **A list of the main scientific results that made it possible to achieve the impact of**

The main activity of the Quality Systems Management Research Laboratory aimed at popularization of research results is the development and further maintenance of quality management systems in accordance with the requirements of DSTU ISO 9001:2015 “Quality Management Systems. Requirements”, DSTU EN ISO/IEC 17025:2019 ‘General requirements for the competence of testing and calibration laboratories’, DSTU EN ISO/IEC 17020:2019 ”Conformity assessment. Requirements for the work of different types of inspection bodies”, implementation of organizational and technical measures to improve the quality of services provided, monitoring and expansion of the Institute's activities. A significant part of the research carried out by the laboratory is aimed at improving the existing quality management systems and expanding the range of research work performed by the institute by popularizing the results of its own research and research of other structural units.

Within the period of 2020-2024 years the research laboratory obtained scientific results that made it possible to achieve impact:

- 1 A methodology and procedure for product sampling was developed.
- 2 Guidelines for implementing the requirements of the quality management system were developed.
- 3 Participation in research work on the study of the technical condition of rolling stock with scientists of the Enterprise.
- 4 The importance of the process approach in the implementation of the requirements of the quality management system, taking into account the environment of the organization, is determined.
- 5 The key points of conducting an internal audit in accordance with the requirements of DSTU ISO 19011:2019 “Guidelines for conducting audits of management systems”.

As a result of these developments, the main scientific results were obtained, which ensured the achievement of impact through their publications. The authors of the impact are: Deputy Director for Research, Senior Scientist Sulym A.O., Head of the Research Laboratory Kholod K.Yu., research scientist Fedorak O.O.