

Criteria and requirements for technologies.

Multicriterial evaluation system of a conservation technology.

Katuščák, S.

The evaluation system of the Consortium Kniha^{SK} takes into account the needs of the country in the field of promoting sustainable conservation science, technology and industry, continuing education and cultural development (Table 1).

The evaluation of efficacy of the conservation technology is the object of the second criteria K2.

Table 1 Multicriterial evaluation system of a conservation technology, including deacidification, for sustainable development, as recommended by the consortium of national memory and academic institutions (Kniha^{SK}) in the Slovak republic

ID	Evaluation criteria	Description
K1	Sustainability	Documenting evidence on the sustainability of the technology & know how supplied, mainly technology age, the latest improvements, continuing improvements (<i>continuerliche Verbesserung</i>) of competitiveness and position on market, present and future possibilities of improvements sustainability. Collaborative research data, such as technology development (RTD), agreements duration of RTD present or proposed contracts including SR, collaborative innovations and patents, interest in technical joint actions, potential growth of employment of highly educated personnel related with improvements and promoting RTD, marketing and education in SR and/or worldwide.
K2	Efficacy of the conservation	Objective measurable data on the efficacy of the technology and treatment process. Objective data on increase of the lifetime or life expectancy of the treated cultural heritage object. The data on the mechanical permanence, chemical stability or combination thereof. E.g. factor of mechanical permanence LoC/Kniha ^{SK} for the deacidification technology; Requirement $S_{(LoC/KnihaSK)} \geq 3$.
K3	Safety of the heritage	Safety of cultural heritage. Damage or destruction of books and other documents. Long term data safety and quality control data on the treated heritage damage. Extent of deterioration. Supplier is required to document percentage of deterioration from reference conservation facilities. Guaranteed max. deterioration. Quality and safety control system.
K4	Quality	Quality characteristic parameters. Complex comparative objective evaluation with competitive technologies. Advantages and disadvantages.
K5	Environmental sustainability and hazard	Environmental quality and eco-sustainability. Provide evidence on continuing improvements of (K5.1) Toxicity, sanitary and sensoric properties; (K5.2) Environmental impact; (K5.3) Fire hazard, health protection at work in conservation facilities, libraries or archives.
K6	Economic competitiveness and sustainability	Min. price and costs at max. quality achieved. Provide data on economic sustainability. Data supporting short term and long term sustainability of the technology in SR.
K7	Supplementary criteria and data	Supplier may introduce supplementary information supporting quality of its technology, quality and efficacy of supporting sustainable cultural heritage protection, competitiveness of the memory institution.