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**General requirements for the construction of science and
technology evaluation indicator system**

科技评估指标体系构建通用要求

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Foreword

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Introduction

0.1 The role of the conceptual model and indicator system for science and technology assessment Technology assessment activities are activities that assessors conduct through specific procedures and methods, targeting specific objects in the field of science and technology, based on the purpose of the assessment and the needs of the client.

Coordinate and integrate relevant elements, collect, analyze and synthesize various types of information around specific assessment content, and form factual judgments based on evidence The process of obtaining evaluation results through the organization and implementation of evaluation activities and the application of results to achieve the evaluation orientation and expected goals.

Science and technology assessment plays an important role in promoting scientific and technological innovation and promoting economic and social development.

The construction and application of the science and technology evaluation indicator system runs through the planning and design of evaluation activities, information collection, analysis and synthesis, and the formation of evaluation results.

Process is an important part of the evaluation activities, and its functions include but are not limited to the following aspects.

a) Measurement and evaluation object. Through the indicator system, the characteristics of the evaluation object are reflected, and the evaluation object is measured, described and judged.

Comparison of the object with the benchmark, including longitudinal comparison of the object's own status, horizontal comparison between different objects, and comparison of the object's actual status.

Compare the current situation with the expected situation, and on this basis, analyze and evaluate the assessment object.

b) Reflect the elements and evaluation criteria of the evaluation activities.

Elements such as purpose, object, content, basis, and information reflect the evaluation criteria of the assessment activities.

c) Support the realization of the evaluation activity orientation and objectives. Through the indicator system and its application, support relevant management decision-making and supervision accountability, It can motivate, guide, regulate and supervise relevant subjects and behaviors, and realize the orientation and expected goals of the evaluation activities.

The conceptual model of science and technology assessment and the schematic diagram of the indicator system are shown in Figure 1.

Note. The elements (E) and basic procedures (P) of science and technology assessment activities refer to GB/T 40147-2021, which include 10 assessment elements (E1 to E10 in the figure), 4 assessment The evaluation results include 4 aspects (R1 to R4 in the figure),