

Analysis of Research Excellence Assessment Frameworks and Providing Policy Requirements for Iran

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Abstract

Purpose: Many countries have developed and implemented research excellence frameworks tailored to their specific social, cultural, and academic context. This study aims to investigate and compare national research excellence frameworks based on their objectives, indicators, levels of implementation, and evaluation processes.

Methodology: This applied and library-based research was conducted using a comparative approach and the Beri model (1969). The study employed a descriptive-comparative method to analyze the structure, implementation, and evaluation mechanisms of selected frameworks

Findings: Seven major research excellence frameworks were identified and examined, including Research Excellence Framework (REF), Standard Evaluation Protocol (SEP), Excellence in Research for Australia (ERA), Committee for Evaluation of Italian Research (CIVR), Canada First Research Excellence Fund (CFREF), Excellence Initiative (EI), Research Assessment Exercise (RAE). The comparative analysis revealed both similarities and differences among these frameworks in terms of objectives, evaluation indicators, levels of comparison (national, international, or both), assessment approaches (quantitative, qualitative, or mixed), scoring methods (quantitative or qualitative), and implementation processes.

Conclusion: evaluating the quality and societal impact of research is essential for determining the role and accountability of academic institutions . Therefore, the development and use of comprehensive, context-sensitive indicators and metrics are necessary to assess research excellence effectively, taking into account each country's unique requirements and policy priorities.

Value: This comparative study provides an opportunity to analyze and compare national research excellence frameworks in terms of their objectives, indicators, scoring methods, approach, levels of implementation, and execution processes.

Keywords: *Research Excellence Frameworks, National Research Policies, Research Quality Indicators, Comparative Evaluation*

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Extended Abstract

Introduction: Research excellence has become a prominent concept in science policy, particularly in the areas of research of funding and evaluation. However, the interpretation and implementation of research excellence in practice and research management are influenced by a complex interplay of factors, including political considerations as well as diverse social, cultural, and organizational contexts in which researchers operate. Accordingly, several countries have developed and implemented their own frameworks and models to assess research excellence, each adapted to their specific societal and institutional conditions.

Purpose: This study aims to investigate and compare national research excellence frameworks in terms of their objectives, indicators, implementation levels, and execution processes.

Methodology: This research is applied in nature and based on library studies. It was conducted using a comparative method grounded in the Beri model (1969), along with a descriptive-comparative approach.

Findings: A total of seven frameworks were identified and analyzed, including Research Excellence Framework (REF), Standard Evaluation Protocol (SEP), Excellence in Research for Australia (ERA), Committee for Evaluation of Italian Research (CIVR), Canada First Research Excellence Fund (CFREF), Excellence Initiative (EI), and Research Assessment Exercise (RAE). The comparative analysis revealed that these frameworks share both similarities and differences regarding their objectives, evaluation indicators, levels of comparison (national, international, or both), scoring methods (quantitative or qualitative), approach (quantitative, qualitative, or mixed), and implementation processes. A summary of the key findings is presented in the following table, which highlights the main comparative results.



Journal of
Knowledge-Research
Studies (JKRS)

Vol 4

Issue 2

Serial Number 12

Table 1. Objectives of National Research Excellence Frameworks

Frameworks	objectives
Research Excellence Framework (REF)	Providing a unified framework for evaluating research across all disciplines, with a set of common required data in all submissions from academic institutions, using standardized criteria and procedures
Standard Evaluation Protocol (SEP)	Detecting and verifying the excellence and societal value of research, and enhancing them as necessary
Excellence in Research for Australia (ERA)	Identifying and promoting research excellence across all fields and activities in Australian higher education
Committee for the Evaluation of Italian Research (CIVR)	Assessing research capacity and identifying areas for development to inform policy and investment decisions
Canada First Research Excellence Fund (CFREF)	Empowering Canadian institutions to compete globally for top talent and collaborative opportunities, capitalize on emerging trends and opportunities, and unlock their full potential by developing bold, innovative, and forward-thinking institutional strategies that drive excellence and impact
Excellence Initiative (EI)	Fostering a culture of excellence in universities by introducing robust incentives for outstanding research and doctoral education, and enhancing their global reputation to attract the world's most talented researchers and students
Research Assessment Exercise (RAE)	Elevating research excellence globally and fostering a culture of quality in well-funded universities through a comprehensive and independent peer review process



Table 2. Indicators of National Research Excellence Frameworks

Frameworks	Indicators
Research Excellence Framework (REF)	Research outputs, iImpact, and research environment
Standard Evaluation Protocol (SEP)	Research quality, research activity, and research application
Excellence in Research for Australia (ERA)	Qualitative indicators, research productivity, international mobility, socio-economic impact, resource attraction, and resource management
Committee for Evaluation of Italian Research (CIVR)	Qualitative indicators, research productivity, international mobility, socio-economic impact, resource attraction, and resource management
Canada First Research Excellence Fund	Inputs, activities, outputs, immediate outcomes, intermediate outcomes, long-term outcomes, and final outcomes.
Excellence Initiative (EI)	Excellence in research and education, interdisciplinary integration, international research collaborations, and collaboration with Other universities or non-academic research institutions
Research Assessment Exercise (RAE)	Research outputs, impact, and environment.

Table 3. Comparison Levels of National Research Excellence Frameworks

Frameworks	Comparison Levels
Research Excellence Framework (REF)	National and international
Standard Evaluation Protocol (SEP)	National and international
Excellence in Research for Australia (ERA)	National and international
Committee for Evaluation of Italian Research (CIVR)	National
Canada First Research Excellence Fund	National and international
Excellence Initiative (EI)	National
Research Assessment Exercise (RAE)	National and international

Table 4. Approach of National Research Excellence Frameworks

Frameworks	Approach
Research Excellence Framework (REF)	Mixed (Quantitative and Qualitative)
Standard Evaluation Protocol (SEP)	Mixed (Quantitative and Qualitative)
Excellence in Research for Australia (ERA)	Quantitative
Committee for Evaluation of Italian Research (CIVR)	Mixed (Quantitative and Qualitative)
Canada First Research Excellence Fund	Mixed (Quantitative and Qualitative)
Excellence Initiative (EI)	Qualitative
Research Assessment Exercise (RAE)	Mixed (Quantitative and Qualitative)

Table 5. Implementation Processes of National Research Excellence Frameworks

Frameworks	implementation process
Research Excellence Framework (REF)	A comprehensive collection of research outputs from higher education institutions, spanning 36 units and diverse fields of study, is gathered through a specialized software system and assessed by panels of subject-matter experts and specialists
Standard Evaluation Protocol (SEP)	The evaluation of research is the sole responsibility of the board of directors and professors at Dutch universities
Excellence in Research for Australia (ERA)	Research is evaluated by a committee of internationally recognized experts, who bring their expertise and knowledge to the evaluation process
Committee for Evaluation of Italian Research (CIVR)	The Ministry of Education, Universities and Research has established a Research Evaluation Committee to assess the quality and effectiveness of research in Italy and provide recommendations for improvement
Canada First Research Excellence Fund	Leaders of Canada's main research funding agencies, along with senior officials from Health Canada and Innovation, Science and Economic Development Canada, form a high-level steering committee that guides the country's research agenda
Excellence Initiative (EI)	The university's management team ensures that proposals align with institutional strategic goals and priorities and are submitted consistently with the university's mission and values
Research Assessment Exercise (RAE)	An expert panel composed of leading researchers and scholars evaluates research projects, bringing their expertise and knowledge to the assessment process



**Journal of
Knowledge-Research
Studies (JKRS)**

Vol 4

Issue 2

Serial Number 12

Conclusion: Overall, evaluating the impacts and benefits of research is essential to determine the role and responsibilities of academic research in society. Consequently, it is crucial to develop and employ comprehensive, accurate, and relevant indicators and metrics to assess research quality, while considering the specific requirements and contextual factors of different countries.

Value: This comparative study offers the opportunity to systematically examine and contrast national research excellence frameworks in terms of their objectives, indicators, scoring methods, approaches, implementation levels, and execution processes.

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Journal of
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Vol 4

Issue 2

Serial Number 12

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**Journal of
Knowledge-Research
Studies (JKRS)**

Vol 4

Issue 2

Serial Number 12

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**Journal of
Knowledge-Research
Studies (JKRS)**

Vol 4

Issue 2

Serial Number 12