
**DEMOCRATIZING INNOVATION AND KNOWLEDGE
RECOGNITION: A GLOBAL FRAMEWORK FOR RECOGNIZING
GRASSROOTS INNOVATORS, EXPERIENTIAL EXPERTS,
TRADITIONAL KNOWLEDGE HOLDERS, AND INDEPENDENT
RESEARCHERS**

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ABSTRACT

Contemporary innovation ecosystems primarily recognize discoveries emerging from universities, research laboratories, and formally qualified professionals. While these institutions play a critical role in scientific advancement, a substantial volume of innovation originates outside formal academic structures. Across the world, grassroots innovators, village inventors, traditional knowledge holders, self-taught researchers, natural prodigies, and experts by experience continue to generate practical solutions to social, technological, agricultural, medical, and industrial challenges.

Despite their contributions, many remain unrecognized due to the absence of formal educational qualifications, institutional affiliations, technical documentation, and access to intellectual property systems. Simultaneously, valuable traditional knowledge systems are often neglected, inadequately documented, or appropriated without proper recognition.

This paper proposes a comprehensive global framework for democratizing innovation through the establishment of Innovation Recognition and Advancement Authorities, Traditional Knowledge Validation Councils, and Inclusive Patent Accessibility Reforms. The framework seeks to create alternative pathways for recognition, certification, protection, commercialization, and promotion of innovations emerging from all sections of society while maintaining rigorous quality standards.

The paper argues that innovation should be evaluated based on merit, utility, originality, and societal value rather than solely on institutional credentials. Such an approach can unlock

hidden intellectual capital, strengthen national innovation ecosystems, preserve traditional knowledge, and contribute significantly to economic development and global technological progress.

KEYWORDS: Grassroots Innovation; Traditional Knowledge; Experiential Expertise; Independent Researchers; Innovation Governance; Patent Reform; Knowledge Democracy; Inclusive Innovation; Intellectual Property; Rural Innovation; Public Policy.

INTRODUCTION

Innovation is one of the principal drivers of economic growth, technological advancement, and social development. However, contemporary innovation ecosystems remain heavily dependent upon formal educational qualifications and institutional affiliations.

Across nations, millions of citizens possess valuable knowledge acquired through experience, observation, experimentation, craftsmanship, necessity-driven problem solving, and traditional practices. Yet many of these innovations remain invisible because existing systems lack mechanisms to recognize and support them.

The result is a significant loss of intellectual capital, economic opportunity, and social progress.

The Hidden Innovation Gap Current systems tend to privilege:

Academic qualifications Institutional affiliations Formal research publications

Laboratory-based experimentation

Consequently, the following groups often remain excluded:

Village innovators Traditional artisans Farmers Mechanics Craftsmen

Self-taught inventors Independent researchers Natural prodigies Experts by experience

This exclusion creates a hidden innovation gap that exists in many countries across the world.

Knowledge Beyond Institutions

Knowledge emerges through multiple pathways. Formal Knowledge

Acquired through schools, colleges, universities, and research institutions.

Experiential Knowledge

Acquired through long-term practice and professional engagement. Traditional Knowledge

Acquired through cultural transmission across generations. Independent Knowledge

Acquired through self-directed learning, experimentation, and inquiry. A mature innovation

ecosystem should recognize all four pathways.

Traditional Knowledge: An Underutilized Resource

Many societies possess extensive repositories of traditional knowledge related to: Medicine

Agriculture

Water management Architecture

Food preservation Environmental sustainability

Unfortunately, many traditional practices have either been ignored or insufficiently documented. The issue is not whether every traditional practice is correct.

The issue is whether potentially valuable knowledge is being rejected without adequate scientific investigation.

A scientific society should neither blindly accept nor automatically reject traditional knowledge. Instead, such knowledge should be systematically examined, validated, documented, and preserved.

Establishment of Innovation Recognition and Advancement Authority (IRAA)

This paper proposes the creation of an Innovation Recognition and Advancement Authority (IRAA).

The institution shall function as a parallel innovation recognition channel operating alongside universities and research organizations.

The objective is not to replace formal institutions but to complement them.

Categories of Innovators

Category A: Qualified Innovators

Formally educated innovators and researchers. Category B: Experts by Experience

Individuals possessing exceptional expertise acquired through practice. Category C: Independent and Natural Innovators

Self-taught innovators, prodigies, and independent researchers.

All categories shall be evaluated under common standards of merit.

Organizational Structure National Level

Chairman

Two Vice-Chairpersons Secretary General National Advisory Board State Level

State Innovation Centers. District Level

District Innovation Centers.

District centers shall serve as the primary access points for innovators.

Innovation Evaluation Process Submission

Any citizen may submit an innovation. Demonstration

Innovators explain their creations in their own language and manner. Documentation

Professional experts prepare technical documentation. Evaluation

Technical and subject experts evaluate:

Originality Utility Safety Feasibility

Social relevance Certification

Successful innovations receive formal recognition.

Innovation Documentation Support

Many innovators possess knowledge but lack documentation skills. Therefore:

Documentation should be the responsibility of the institution, not a barrier imposed upon innovators.

Dedicated expert teams shall transform ideas, prototypes, and demonstrations into professional technical records.

Traditional Knowledge Validation Council A dedicated council shall be established to:

Collect traditional knowledge. Document indigenous practices. Conduct scientific validation.

Preserve cultural knowledge. Prevent unauthorized appropriation.

The council shall serve as a bridge between traditional wisdom and modern science.

Patent Accessibility Reform

Quality standards should remain unchanged. However, accessibility should improve.

The following reforms are proposed: Fast-Track Patent Evaluation

Reducing unnecessary delays while preserving rigorous examination. Reduced Costs

Affordable patent pathways for grassroots innovators. Patent Assistance Centers

Providing technical and legal assistance. Multilingual Filing Support

Removing language barriers. Government Patent Facilitation

Supporting innovators through documentation and filing processes. The guiding principle should be:

Maintain Standards, Minimize Delays.

Commercialization and Technology Transfer Recognized innovations shall receive support for:

Patent protection Licensing Technology transfer

Commercial partnerships National exhibitions International exhibitions

Revenue generated from commercialization shall primarily benefit innovators.

Funding Framework

The proposed model shall operate through:

51% Public Funding

49% Corporate Participation

Corporate contributors shall not influence evaluation decisions. Independent oversight mechanisms shall ensure transparency.

Expected Benefits

implementation of this framework can: Increase innovation output.

Protect traditional knowledge. Improve patent generation.

Enhance exports. Create employment.

Encourage entrepreneurship. Strengthen technological self-reliance. Reduce innovation inequality.

Promote inclusive development.

Policy Implications

The proposed framework introduces a second pathway into the innovation ecosystem without compromising quality standards.

The system recognizes that talent is not confined to classrooms, laboratories, or institutions. Innovation may emerge from villages, workshops, farms, homes, factories, and independent inquiry. Public policy must therefore evolve from credential-centric recognition toward merit-centric recognition.

CONCLUSION

The future of innovation depends not only on universities and research laboratories but also on society's ability to identify and empower hidden talent.

Millions of innovators across the world remain unrecognized because existing systems often prioritize credentials over demonstrated capability. By establishing inclusive innovation institutions, validating traditional knowledge, simplifying patent accessibility, and supporting

grassroots creativity, nations can unlock vast reservoirs of intellectual capital.

A truly democratic innovation ecosystem recognizes excellence wherever it emerges.

The challenge of the twenty-first century is therefore not merely to create new knowledge, but to recognize knowledge that already exists and enable it to serve humanity.

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