

# THE INNOVATION NEXUS

## MULTIDISCIPLINARY STRATEGIES FOR DISCOVERY

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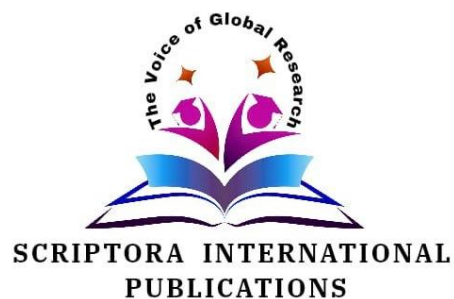
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**THE INNOVATION NEXUS: MULTIDISCIPLINARY STRATEGIES FOR DISCOVERY**

*by: Dr. Mallanna.I. Biradar, Captain. Prof. H. G. Patil, Prashant Bansal, Ms. Shivangi Seth*



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## INNOVATION LABS AND THINK TANKS: INCUBATING IDEAS THROUGH MULTIDISCIPLINARY DIALOGUE

Dr. B.R. Kumar <sup>1</sup>

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### Abstract

In an increasingly complex and dynamic global landscape, innovation is no longer confined to isolated disciplines or traditional research and development departments. Instead, it is being reimagined through collaboration, co-creation, and the convergence of diverse perspectives. Innovation labs and think tanks serve as transformative spaces where cross-disciplinary engagement fosters the incubation of new ideas, development of innovative solutions, and informed decision making. By integrating knowledge from science, technology, business, humanities, and policy, these platforms bridge gaps between theory and practice, as well as research and implementation. This chapter examines the structure, processes, and significance of innovation labs and think tanks in fostering innovation through multidisciplinary dialogue. It also presents successful models, case studies, and future directions in building inclusive and sustainable innovation ecosystems.

**Keywords:** *Innovation Labs, Think Tanks, Multidisciplinary Dialogue, Systems Thinking, Policy Innovation, Social Impact*

### Introduction

The 21st century is defined by complexity and rapid change—ranging from climate crises to technological disruption, geopolitical instability to public health emergencies. These challenges transcend national borders, disciplinary silos, and institutional boundaries. Solving such multidimensional problems requires not only deep domain expertise but also the ability to connect ideas across disciplines and sectors. In this evolving context, innovation labs and think tanks are emerging as vital platforms for creative collaboration, informed policy formulation, and agile problem-solving.

Unlike traditional institutions confined by bureaucratic inertia or disciplinary rigidity, these spaces encourage experimentation, systems thinking, and co-creation. By drawing insights from science, technology, business, policy, and the humanities, they catalyse novel solutions and transformative action. This chapter explores the nature, role, and functioning of innovation labs and think tanks, underscoring their capacity to drive meaningful change through multidisciplinary dialogue.

## 2. Understanding Innovation Labs and Think Tanks

### 2.1. Innovation Labs: Definition and Functions

Innovation labs—also known as i-labs, design labs, or living labs—are structured yet flexible environments that nurture creativity, experimentation, and iterative problem-solving. These labs can take physical, digital, or hybrid forms and are typically established by governments, universities,

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<sup>1</sup> Professor & Director, Dept of MBA, Andhra Loyola College, Vijayawada

NGOs, or private enterprises to address complex, real-world problems through innovation-driven approaches.

### 2.1.1 Definition

An innovation lab is a collaborative workspace that brings together individuals from varied disciplines—such as technology, social sciences, public policy, business, and the arts—to co-create novel solutions. These environments encourage open-ended exploration, where failure is viewed as a learning opportunity and experimentation is central to progress.

Innovation labs are grounded in:

- **Design Thinking:** A user-centered approach that prioritizes empathy, ideation, and iterative prototyping.
- **Human-Centered Design:** Focusing on designing solutions with and for people by deeply understanding their experiences and needs.

They serve as safe spaces for calculated risk-taking, where participants can test disruptive ideas without the constraints of conventional organizational or bureaucratic systems.

### 2.1.2 Key Characteristics

Innovation labs typically exhibit the following features:

- **Multidisciplinary Collaboration:** Teams are composed of individuals with diverse expertise—including technologists, policymakers, academics, designers, and community stakeholders.
- **Rapid Prototyping:** Concepts are quickly translated into tangible models or services that can be tested and refined.
- **Iterative Processes:** Feedback loops from users and stakeholders are built into the development cycle to ensure relevance and responsiveness.
- **Systems Thinking:** Labs often explore how different societal components interact, making them well-suited to tackle complex, interconnected challenges.
- **Agile Methodologies:** Flexibility and responsiveness are prioritized over rigid planning, enabling teams to pivot based on real-time insights.

### 2.1.3 Core Functions of Innovation Labs

The core functions of innovation labs go beyond simple ideation. They are dynamic incubators of systemic transformation:

#### 2.1.3.1 Prototype and Test Innovative Solutions

Innovation labs focus on converting conceptual ideas into working prototypes. These prototypes are often tested in real or simulated environments to gather feedback and improve design before wider implementation. This reduces the cost and risk of failure.

#### 2.1.3.2 Facilitate Stakeholder Engagement and Co-Creation

Labs serve as neutral grounds for diverse stakeholders—citizens, government officials, business leaders, NGOs—to come together, voice their perspectives, and collaboratively shape solutions. This participatory model builds trust and enhances social acceptance.

### 2.1.3.3 Translate Abstract Ideas into Scalable Implementations

Beyond experimentation, innovation labs play a vital role in scaling successful pilots. They create roadmaps, toolkits, and implementation strategies that help organizations replicate and adapt these innovations across different settings.

### 2.1.3.4 Encourage Calculated Risk-Taking and Agile Adaptation

Innovation labs foster a culture that welcomes uncertainty and embraces failure as a step toward discovery. This enables organizations to challenge the status quo and respond quickly to emerging issues.

## 2.1.4 Notable Global Examples

### MIT Media Lab (USA)

Founded at the Massachusetts Institute of Technology, the MIT Media Lab is a world-renowned hub for interdisciplinary research. It operates at the intersection of art, science, design, and technology—producing groundbreaking work in AI, robotics, biotech, and digital media. The lab's ethos emphasizes creativity without disciplinary boundaries, making it a model for innovation ecosystems worldwide.

### UNDP Accelerator Labs (Global Network)

The United Nations Development Programme (UNDP) Accelerator Labs are part of a global initiative that aims to reimagine development for the 21st century. Operating in over 90 countries, these labs use local knowledge, grassroots innovation, and real-time data to experiment with context-specific solutions to complex development challenges such as poverty, climate change, and inequality.

### Nesta Innovation Lab (UK)

**Nesta**, an innovation foundation based in the UK, operates several labs that apply behavioural science, data analytics, and co-design methods to address public policy issues. Through its innovation labs, Nesta has advanced work in healthcare delivery, education reform, digital inclusion, and public sector innovation.

## 2.1.5 The Strategic Value of Innovation Labs

Innovation labs offer a structured yet flexible space for imagining alternative futures and prototyping transformation. They are especially relevant in today's world of volatility and uncertainty, where traditional approaches may no longer suffice. By blending creativity with strategy, and experimentation with real-world application, innovation labs are fast becoming catalysts of systemic change in both public and private sectors.

## 2.2 Think Tanks: Definition and Scope

Think tanks are independent, semi-autonomous, or institutionally affiliated organizations that conduct research, develop policy proposals, and contribute to public debates on key societal issues. These institutions serve as bridges between knowledge and policy, converting complex academic findings into actionable insights for governments, corporations, and civil society.

### 2.2.1 Definition

A think tank is a research-driven institution that specializes in the systematic investigation of issues affecting society—ranging from public policy, economics, security, and international relations to



emerging areas such as environmental sustainability, health equity, and digital governance. Unlike universities, which prioritize academic publishing and education, think tanks aim for policy influence, public engagement, and timely interventions in ongoing societal debates.

### 2.2.2 Core Roles and Functions

Modern think tanks perform a wide range of functions, which have evolved to meet the demands of an increasingly complex and interconnected world. Their principal roles include:

- **Evidence-Based Research and Policy Foresight**

Think tanks conduct rigorous qualitative and quantitative research, including scenario analysis, impact assessments, and trend mapping. This research serves as the foundation for data-informed policy recommendations tailored to current and future societal challenges.

- **Knowledge Brokerage**

Think tanks act as intermediaries between academic knowledge and real-world application, translating complex theories into accessible formats for decision-makers, journalists, and the public. They convene stakeholders across sectors—academia, government, business, and civil society—to facilitate informed and balanced policy dialogue.

- **Advocacy and Public Engagement**

Many think tanks go beyond research to engage in strategic advocacy, promoting reforms through media campaigns, public consultations, and legislative lobbying. They play a vital role in shaping civic discourse, informing voters, and raising awareness on critical policy matters.

- **Thought Leadership and Innovation Diffusion**

By identifying blind spots in traditional policy frameworks, think tanks often lead the charge in framing emerging challenges, such as AI governance, climate finance, and post-pandemic recovery. Their work helps disseminate innovations that can scale across governments and industries.

### 2.2.3 Evolution in Focus Areas

While historically associated with fields such as defense, foreign affairs, and macroeconomics, modern think tanks have significantly diversified their agendas to remain relevant in a changing global context. Key emergent areas include:

- **Digital Transformation and AI Policy:** Addressing data privacy, algorithmic accountability, cybersecurity, and digital inclusion.
- **Environmental Sustainability:** Designing policies for climate resilience, renewable energy transition, and sustainable development.
- **Health Equity:** Investigating disparities in healthcare access, pandemic response, and the social determinants of health.
- **Inclusive Global Development:** Promoting equitable economic growth, gender equity, and social justice in a globalized world.

This expansion in focus reflects a broader interdisciplinary shift, as think tanks increasingly recognize the intersectionality of societal issues and the need for integrated policy frameworks.

## 2.2.4 Prominent Global Examples

### Brookings Institution (USA)

Founded in 1916, the Brookings Institution is one of the oldest and most influential American think tanks. It produces in-depth research across governance, economics, international affairs, and urban policy. Known for its balanced and non-partisan stance, Brookings is often cited by policymakers, scholars, and media alike.

### Carnegie Endowment for International Peace (USA)

Established in 1910, the Carnegie Endowment focuses on international peace and security, democracy promotion, and geopolitical analysis. With global centers in Europe, Asia, and the Middle East, Carnegie is a leader in fostering cross-cultural dialogue and multilateral cooperation.

### Observer Research Foundation (ORF, India)

Based in New Delhi, ORF is one of Asia's leading multidisciplinary think tanks. It addresses issues such as strategic affairs, energy policy, technology governance, and sustainable development. ORF has played a crucial role in shaping India's digital policy and promoting South-South cooperation.

### Chatham House (UK)

Formally known as the Royal Institute of International Affairs, Chatham House is a world-renowned think tank that examines global political, economic, and security trends. It is known for the “Chatham House Rule,” which encourages open and confidential dialogue among stakeholders. Its research informs both British foreign policy and international diplomacy.

## 2.2.5 Strategic Role in Multidisciplinary Innovation

Think tanks are increasingly engaging in multidisciplinary and cross-sectoral collaborations with innovation labs, academic consortia, and public-private partnerships. Their ability to synthesize insights from diverse disciplines positions them as crucial facilitators of system-level innovation. By combining rigorous analysis with practical policy tools, think tanks not only influence short-term decisions but also shape long-term societal trajectories.

## 3. Multidisciplinary Dialogue: The Core of Innovation Ecosystems

Innovation thrives at **disciplinary intersections**. The power of innovation labs and think tanks lies in their ability to enable meaningful interaction among varied knowledge systems.

### Key Benefits of Multidisciplinary Dialogue:

- **3.1 Systems Thinking:** Fosters understanding of interconnected, dynamic systems.
- **3.2 Knowledge Integration:** Encourages blending of theory with praxis across domains.
- **3.3 Creative Problem-Solving:** Stimulates novel ideas by crossing epistemic boundaries.
- **3.4 Mutual Learning:** Promotes appreciation for different perspectives and paradigms.

### Challenges in Practice:

- Navigating disciplinary jargon.
- Balancing epistemological differences.
- Ensuring equitable participation.

- Building shared understanding and goals.

Despite these hurdles, when guided by mutual respect and collaborative intent, multidisciplinary dialogue acts as a catalyst for breakthrough innovation.

#### **4. Structures and Models: How Innovation Labs and Think Tanks Operate**

##### **4.1 Structural Features of Innovation Labs**

**4.1.1 Flat Hierarchies:** Flattened organizational structures promote egalitarian dialogue.

**4.1.2 Flexible Spaces:** Modular and tech-enabled environments foster experimentation.

**4.1.3 Cross-Functional Teams:** Blend of engineers, designers, economists, etc., for holistic problem-solving.

**4.1.4 Rapid Prototyping:** Embraces iterative cycles of design, feedback, and improvement.

**4.1.5 User-Centric Approaches:** Active involvement of users ensures relevance and inclusivity.

##### **4.2 Operational Models of Think Tanks**

**4.2.1 Academic Model:** Produces peer-reviewed studies, policy briefs, and conceptual frameworks.

**4.2.2 Advocacy Model:** Shapes discourse and policy through campaigns and lobbying.

**4.2.3 Hybrid Model:** Merges rigorous research with consultancy, incubation, and training.

**4.2.4 Networked Model:** Participates in global or regional coalitions to share data, tools, and policy insights.

#### **5. Case Studies: Innovation in Action**

##### **5.1 The GovLab (New York University, USA)**

The Governance Lab (GovLab) at NYU is a pioneering innovation hub focused on enhancing public sector governance through data, technology, and civic engagement. Notable initiatives include the Open Data 500, which analyzes how businesses use government data, and CrowdLaw, which promotes citizen participation in the legislative process. Through platforms like the GovLab Academy, it empowers public entrepreneurs to adopt data-driven and participatory reforms, significantly influencing global governance innovation.

##### **5.2 Climate-KIC (European Union)**

Climate-KIC, the EU's flagship climate innovation program, fosters systemic change by integrating policy, entrepreneurship, finance, and education. It supports green startups and circular economy models, and operates Urban Resilience Labs to help cities respond to environmental risks. Its Deep Demonstrations initiative exemplifies systems-level experimentation to redesign sustainable urban, energy, and food systems, making it a leading force in climate innovation.

##### **5.3 Atal Innovation Mission (India)**

The Atal Innovation Mission (AIM), under NITI Aayog, promotes grassroots and national innovation across India. Its key initiatives include Atal Tinkering Labs in schools, Atal Incubation Centers for startups, and Community Innovation Hubs in rural areas. By connecting innovators with industry through programs like Mentor India and New India Challenges, AIM is democratizing innovation and fostering a culture of entrepreneurship and problem-solving.

## 5.4 Nesta's Collective Intelligence Design Lab (UK)

Nesta's Collective Intelligence Design Lab in the UK uses a blend of human insight, data, and AI to address complex public challenges. It has led projects on vaccine confidence, digital misinformation, and participatory democracy. By merging behavioural science with civic technology, the lab creates inclusive and evidence-based solutions, demonstrating how collaborative intelligence can reshape public innovation.

## 6. Enabling Conditions for Success

For innovation platforms to succeed, the following conditions must be strategically established:

**6.1 Leadership and Vision:** Clear mission alignment and support for experimentation.

**6.2 Diverse Participation:** Embracing gender, geographic, disciplinary, and cultural diversity.

**6.3 Funding and Sustainability:** Flexible funding models that ensure independence and scalability.

**6.4 Ethical Frameworks:** Safeguards for privacy, equity, transparency, and public interest.

**6.5 Capacity Building:** Training in collaborative tools, systems mapping, and scenario planning.

## 7. Challenges and Limitations

Despite their transformative potential, labs and think tanks face operational and structural constraints:

### 7.1 Institutional Resistance

Institutional resistance often stems from entrenched bureaucratic structures and legacy systems that are slow to change. Innovation labs and think tanks may face pushback when their ideas challenge established protocols or hierarchies. This resistance is frequently driven by risk aversion, limited flexibility, or lack of understanding, making it difficult to embed innovative practices into mainstream institutional processes.

### 7.2 Fragmentation

Many innovation efforts suffer from fragmentation, where multiple initiatives operate in silos without coordination. This leads to duplication, inefficiency, and missed opportunities for synergy. Without mechanisms for collaboration and knowledge sharing, even well-intentioned projects may fail to contribute to systemic change.

### 7.3 Evaluation Challenges

Measuring the impact of innovation labs and think tanks is complex due to the non-linear, long-term, and often intangible nature of their outcomes. Traditional evaluation tools may not capture behavioral shifts, policy influence, or social change effectively, leading to difficulties in justifying or scaling experimental initiatives.

### 7.4 Inclusivity Gaps

Despite their aim to democratize innovation, many initiatives lack inclusive participation from marginalized or underrepresented groups. Barriers such as language, access, or social bias can exclude critical voices, resulting in solutions that may not reflect or serve the needs of diverse communities.

Proactive approaches to equity, collaboration, and measurement can mitigate these limitations.

## **8. Future Directions: Toward Inclusive and Sustainable Innovation Ecosystems**

Looking ahead, the evolution of innovation platforms will be shaped by:

### **8.1 Digital Transformation**

Innovation labs and think tanks are rapidly evolving through digital transformation, leveraging technologies like AI for predictive foresight, blockchain for transparent governance, and metaverse platforms for immersive collaboration and simulation. These tools are not only enhancing the speed and scope of innovation but also enabling real-time experimentation, virtual co-creation, and more secure, decentralized decision-making models.

### **8.2 Global South Leadership**

A notable shift is the emergence of innovation leadership from the Global South, where localized solutions are being developed to meet indigenous priorities and socio-economic realities. These include frugal innovations that are cost-effective, scalable, and rooted in local knowledge systems. Countries across Africa, Asia, and Latin America are setting new paradigms by integrating traditional wisdom with cutting-edge technology to address global challenges.

### **8.3 Intersectional Innovation**

The future of innovation is increasingly intersectional, embedding principles of equity, justice, and inclusivity into both design and implementation. This trend recognizes that social identities—such as gender, race, and class—intersect to shape people’s experiences with innovation. As a result, more labs are adopting inclusive frameworks to ensure that solutions are not only effective but also just and accessible.

### **8.4 Youth and Citizen Engagement**

There is growing emphasis on youth leadership and citizen participation in innovation ecosystems. Through tools like digital town halls, hackathons, and participatory policy labs, communities are becoming active co-creators of solutions. This shift promotes civic innovation, community resilience, and grassroots empowerment, making innovation more democratic and responsive to real-world needs.

By combining technological tools with social values, future innovation ecosystems can become agents of empowerment and equity.

## **Conclusion**

Innovation labs and think tanks are more than institutional formats—they are embodiments of a new ethos: collaborative, inclusive, anticipatory, and impactful. In a world marked by volatility, uncertainty, complexity, and ambiguity (VUCA), these platforms offer hope and direction by bridging divides between disciplines, sectors, and communities. Cultivating them with intent, inclusivity, and adaptability is crucial for addressing the grand challenges of our time.

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