

Session 7.

Building a CNU GenAI innovation ecosystem

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Multi-layered technological ecosystems – the Chinese case

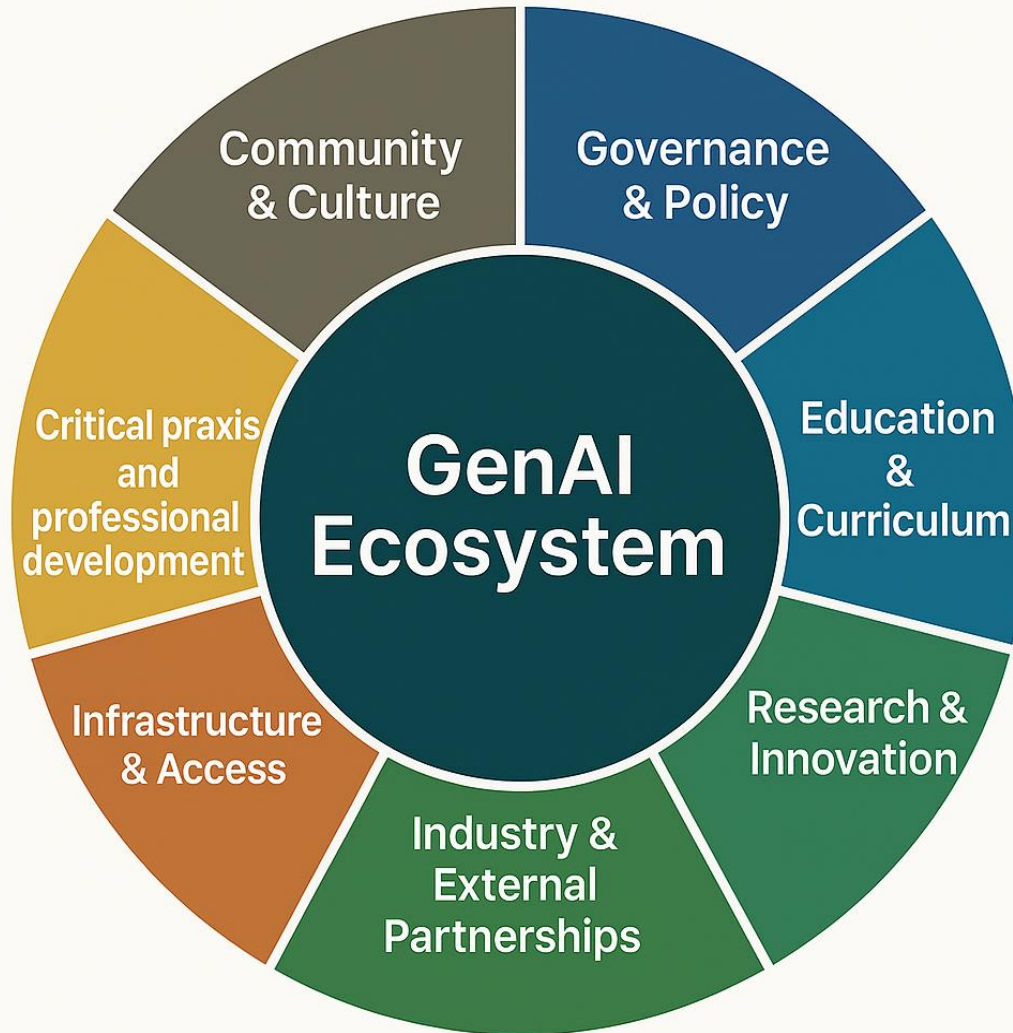
Macro (national sovereignty in the globalised context)

Exo (regional economic/technological integration)

Meso (institutional/organizational innovation)

Micro (collaborative personal/social praxis)

University GenAI Innovation Ecosystems



- Reciprocal relationship of parts as a functional unit
- Ecosystem synergies support innovation
- Socio-innovation ecosystems need to be 'mission-led'
- Catalytic factors kickstart the ecosystem (e.g. development programmes)
- 'Keystone species' have disproportionate effect on the ecosystem (e.g. Technological Organic Intellectuals).

University GenAI innovation ecosystems (1)

1. Governance & policy

- **Institutional Guidelines** - ethical use, academic integrity, privacy, and compliance.
- **AI Governance Bodies** - committees or centre for oversight and global alignment.
- **Risk Management** - bias, security, and responsible deployment protocols.

2. Education & curriculum

- **Curriculum embedding**: AI literacy across all disciplines.
- **Mandatory AI Ethics Modules**: For students and staff.
- **Specialized Programmes**: Summer schools, interdisciplinary GenAI tracks.

3. Research & innovation

- **AI-for-Science initiatives** - materials, life sciences, social sciences.
- **Innovation projects** - linking education, research, and industry.
- **Dedicated institutes & labs** - foundational and applied GenAI research.

University GenAI innovation ecosystems (2)

4. Industry & External Partnerships

- **Collaborations with Tech Companies** - for LLMs, multimodal AI, and specialist LLMs
- **Joint Ventures**: Education-industry innovation hubs.
- **Global Governance Partnerships**: UN, international forums.

5. Critical praxis and professional development

- **Staff Training Programmes** - pedagogical use of GenAI (e.g. Collaborative Critical Praxis).
- **Continuous Learning** - micro-credentials and certifications.
- **Leadership Development** - AI strategy for institutional leaders.

6. Infrastructure & Access

- **Dedicated webpages & portals** - centralized resources and guidelines.
- **Innovation Hubs** - physical and virtual spaces for experimentation.
- **AI Tools & Platforms** - secure access for staff and students.

7. Community & Culture

- **Ethical AI Awareness Campaigns**.
- **Student-Led AI Clubs & Hackathons**.
- **Open Forums**: For dialogue on AI's societal impact.

Fudan & Tsinghua - GenAI ecosystem comparison

Dimension	Fudan University	Tsinghua University
Education	<ul style="list-style-type: none">- 100+ AI literacy courses integrated across disciplines.- Global AI Governance Centre for capacity building.	<ul style="list-style-type: none">- AI+ Talent Cultivation Initiative embedding AI across all disciplines.- Mandatory AI ethics coursework.- Generative AI Summer Schools with hands-on labs.
Research	<ul style="list-style-type: none">- Strong emphasis on AI-for-Science(materials, life sciences, earth sciences).- Partnerships for ethical AI frameworks.	<ul style="list-style-type: none">- College of AI (CollegeAI) for foundational breakthroughs.- Institute for AI Industry Research (AIR) focusing on LLMs, multimodal AI & healthcare AI.
Industry links	<ul style="list-style-type: none">- Collaborations with global organizations for governance and ethics.	<ul style="list-style-type: none">- Deep industry partnerships (e.g. ByteDance, DeepSeek for scalable LLMs SALMONN multimodal project, SIA Lab for large model intelligence).
Governance	<ul style="list-style-type: none">- Center for Global AI Innovative Governance launched at WAIC 2025.- Works with UN to provide AI public goods and ethical frameworks.- Focus on closing global 'intelligence divide'.	<ul style="list-style-type: none">- Leads global discourse on AI ethics and governance (e.g. frameworks like <i>AI Governance Ethics: Shared Values and Rules</i>).- Hosts International AI Cooperation and Governance Forum annually.

A provisional GenAI roadmap for CNU

Group activity

Each group discuss and report back **immediate action points** on one of the following priority development themes:

1. Forming the **Organising Development Group** and its immediate agenda.
2. Creating attractive **CNU webpages** on LLM developments.
3. Creating **user guidelines for staff & students**.
4. **Linking with schools** (teachers and students) in Beijing.
5. Possible **journal articles** based on CNU developments going forward.

Possible CNU development activities 2025-6

1. Appointment of an LLM Innovation Co-Ordinator.
2. Formation of a GenAI Working Group to organize the overall Program.
3. Development of dedicated CNU webpages to achieve CNU, China-wide & global reach.
4. Formation of a student LLM user-group to exchange practice ideas.
5. Development of CNU LLM-User Guidelines for both staff and students.
6. Creation of several LLM-related research and development projects in the field of education.
7. Formation of linkages and collaborations with Beijing schools and Chinese universities.
8. Build a research and publishing program (like Tsinghua).
9. Develop a writing project of journal articles (in possible partnership with MDPI).