

Session 7.

# Building a CNU GenAI innovation ecosystem

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# Multi-layered technological ecosystems – the Chinese case

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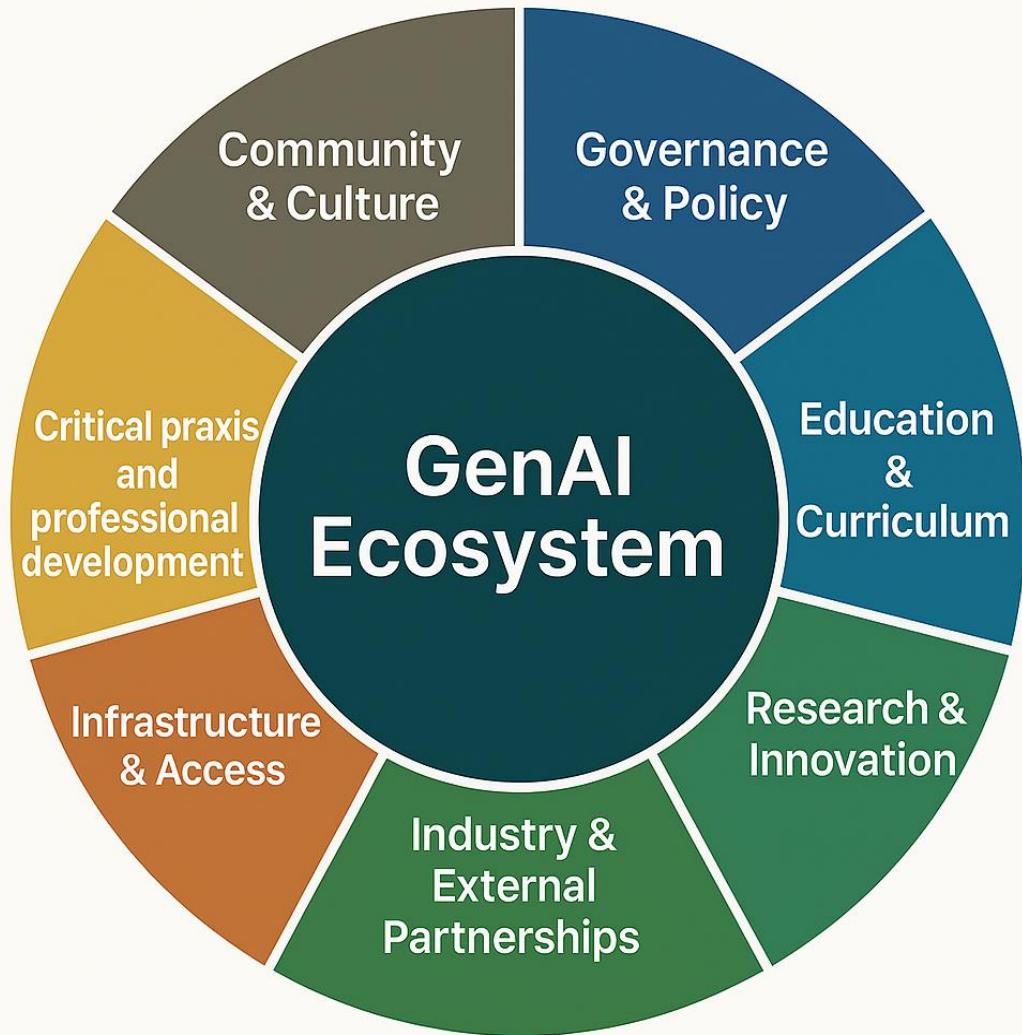
Macro (national sovereignty in the globalised context)

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)

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## 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)

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

# *A provisional GenAI roadmap for CNU*

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# Group activity

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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

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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).