

Higher Education's role in Digital Transformation and Green Transition in the Context of Each Developing Member Country

Higher Education of the Future: Leading Digital and Green Transformations through Collaboration

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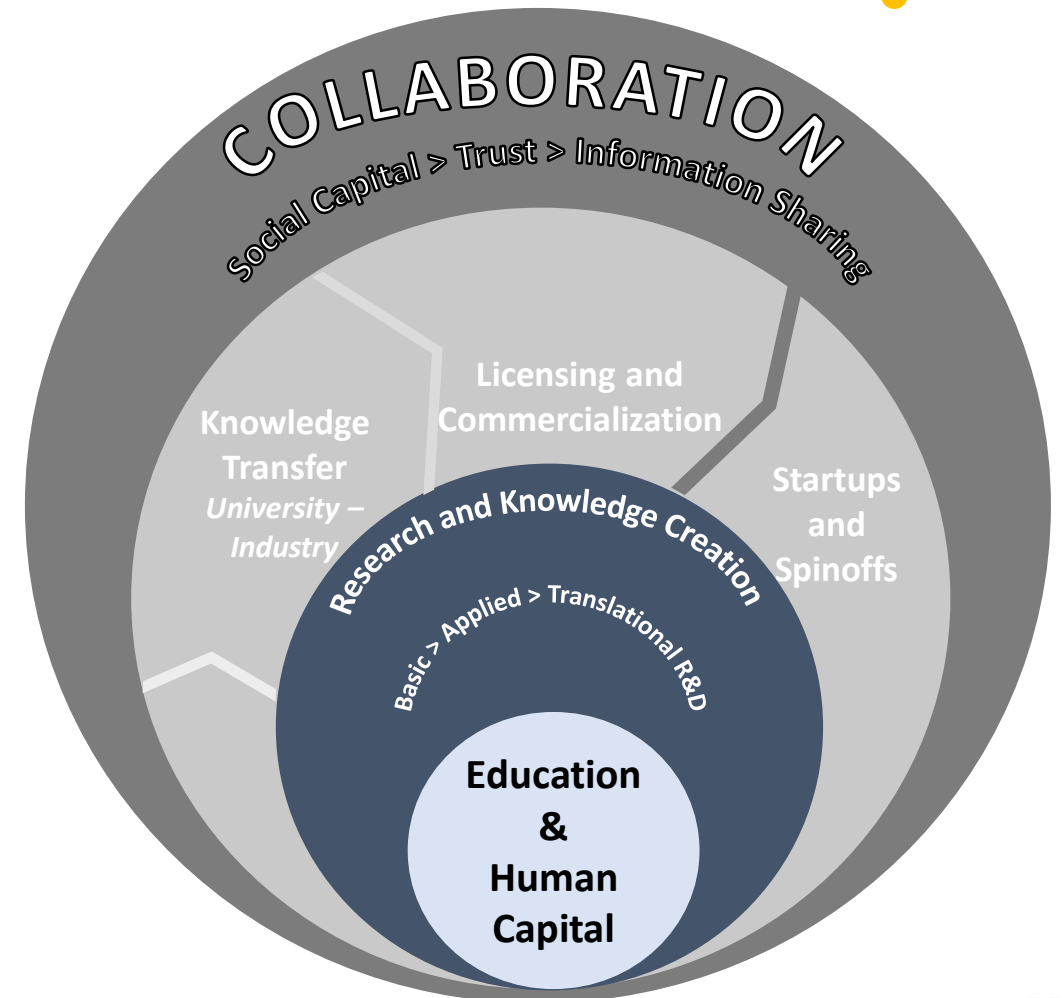
The Philippine industrial strategy embraces new technologies as tools to drive an inclusive and sustainable growth

STI driven Industrial Policy

- Create new products & services, environmental goods
- Upgrade processes, reduce material and energy use

Strong Government-Academe-Industry Collaboration

- University-industry collaboration: one of the main sources of external knowledge and technologies for companies
- Trust and information sharing are fundamental to the collaboration of stakeholders



Source: RTI Innovation Framework, 2017

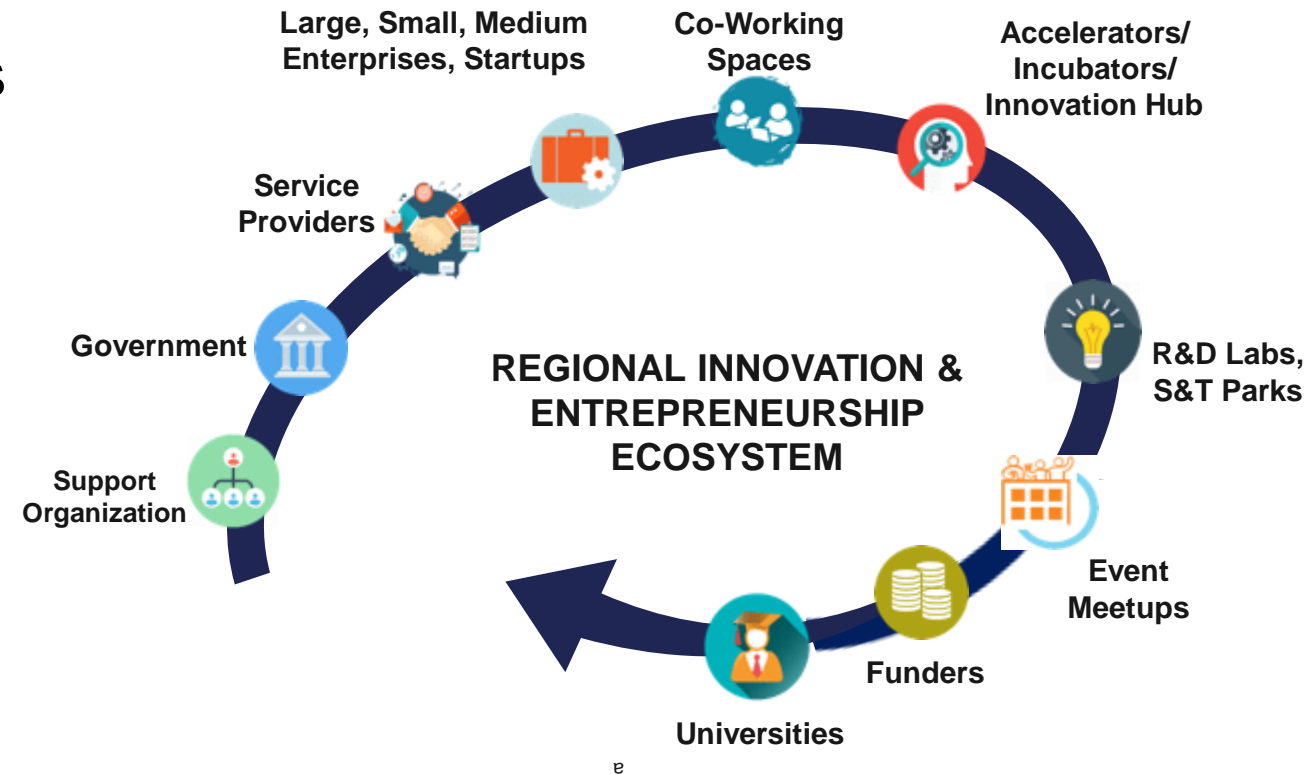
Challenges in building strong academe-industry collaboration and transforming universities to become **enablers of digital and green transformation and drivers of high-tech development**

- Mistrust between academe and industry
- Lack of full information about capabilities of academe – skills mismatches
- Siloed teams
- Limited information and knowledge sharing
- Competitive rather than collaborative attitude
- Industry not looking into academia for theoretical but applicable knowledge
- Academics sometimes not inspired by proving their research with industry
- Differences in expectations, requirements, goals leading to conflicting expectations
- Industry perspective: projects need to be timely, cannot depend on semester schedules, student assistant availability
- Academe: goal is to publish, concerns in attracting commercial funds

Regional Inclusive Innovation Centers

Most difficult challenge is creating a network of companies and academics who understand and trust each other and who can work through their respective limitations

- bridge the gaps in innovation and entrepreneurship ecosystem
- accelerate R&D commercialization and for universities and industries to work together in addressing societal and industry issues
- 11 RIICs: academe-industry R&D partnerships such as automation of ice cream production and automatic charging system for EVs to support SME innovation and digitalization



Planned initiatives to foster collaboration and enhance the role of higher education in accelerating digital and green transformation

- **Industry 4.0 Pilot Factory:** platform for learning and R&D collaboration on new technologies like robotics and IoT
- **Center for Artificial Intelligence Research:** conduct AI R&D, AI tech products, AI training, and provide AI consultancy services
- **Innovation partnerships with foreign universities :** training program with Taiwan on integrated circuit design, joint R&D projects with Industrial Technology Research Institute, Israel Innovation Authority
- **R&D funding**
- **Capacity building and HRD** programs on new technologies and applications to industries
 - generate new knowledge and commercialize their research
 - focus not only on teaching and basic research but also on entrepreneurial engagement and application or commercialization of scientific knowledge
 - new clean energy technologies that are cost efficient & effective
 - PH as hotspot or testbed for climate solutions & resilience technologies