

# Potentials of Tertiary Education for Inclusive Green Transformation

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# Innovative Climate Action with Technology Innovation

“For Climate Action, **Technology Innovation** is essential”

UN Climate Speech of Patricia Espinosa ('19.5)  
The Executive Secretary of UNFCCC



“Technology Innovation is the core of Low-carbon & Climate-resilient development”

Article 10.1 of Paris Agreement ('15.12)  
COP21



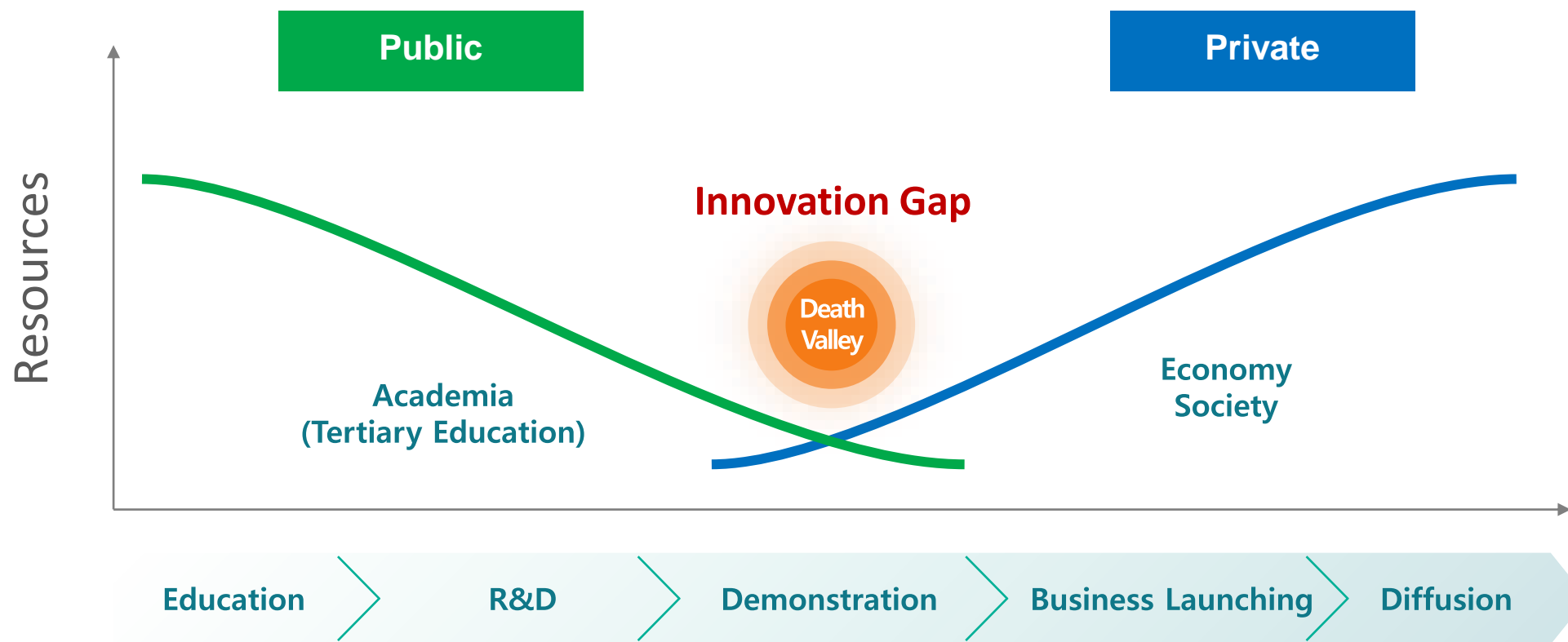
“Promote the development and transfer of innovative green technologies”

IPCC Special Report for Methodological and Technological Issues in Technology Transfer ('20.7)

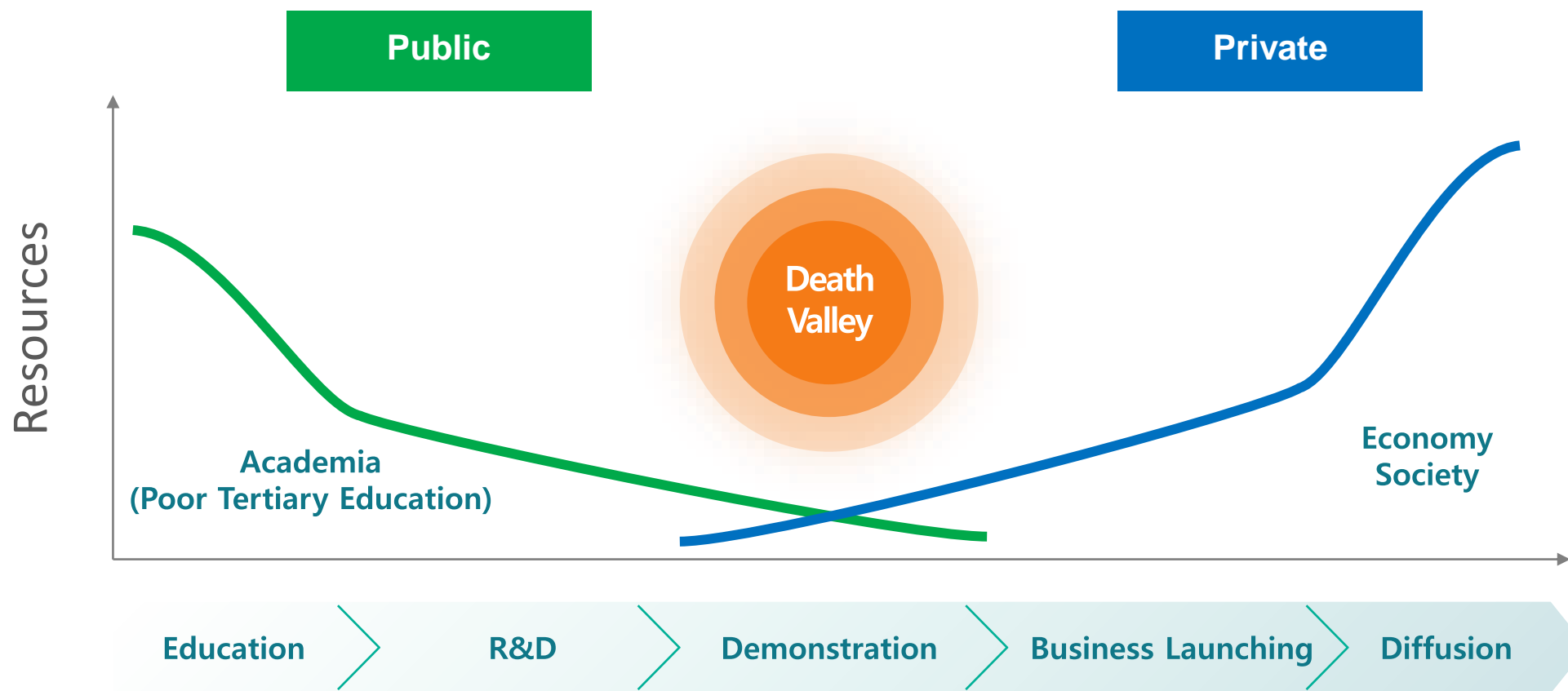


“Facilitate the deployment & diffusion of technology innovation”

# Valley of Death in Technology Innovation

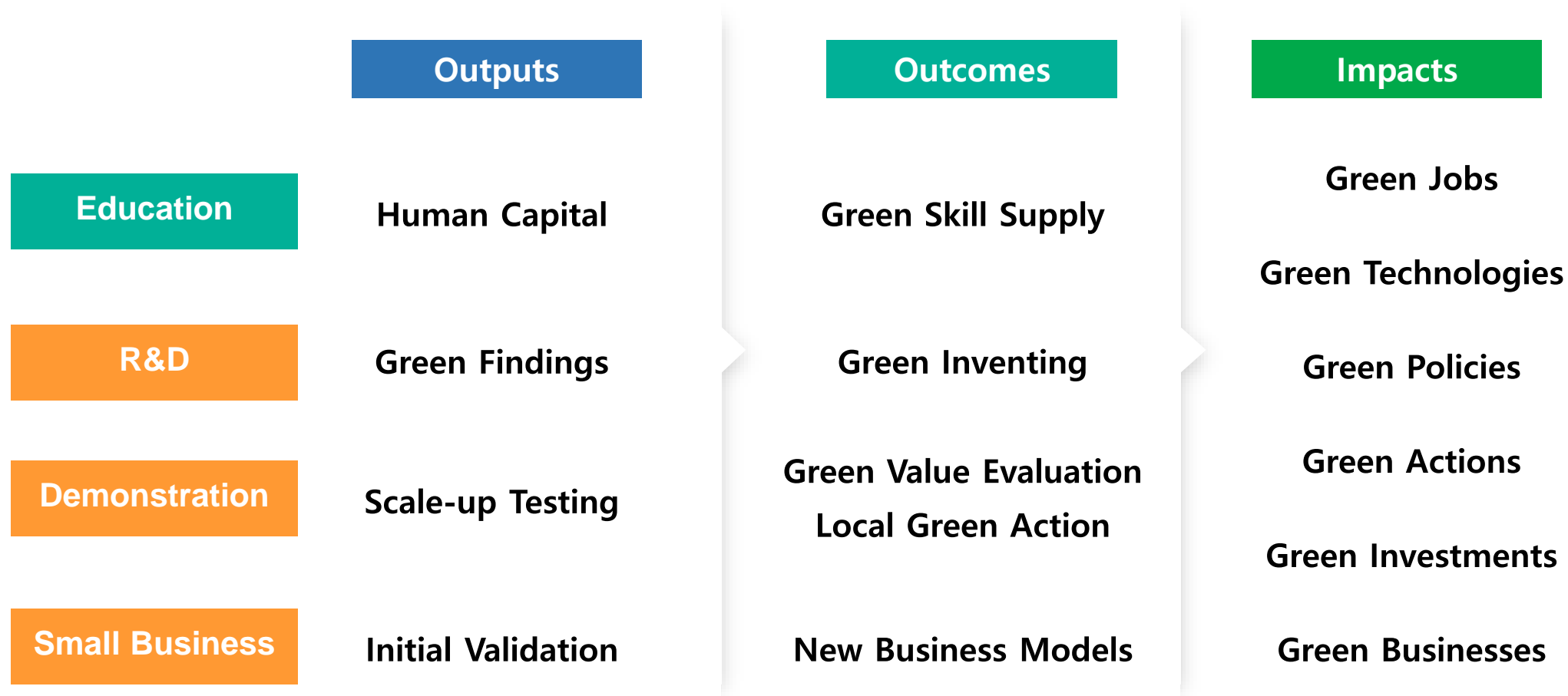


# Valley of Death in Green Technology Innovation

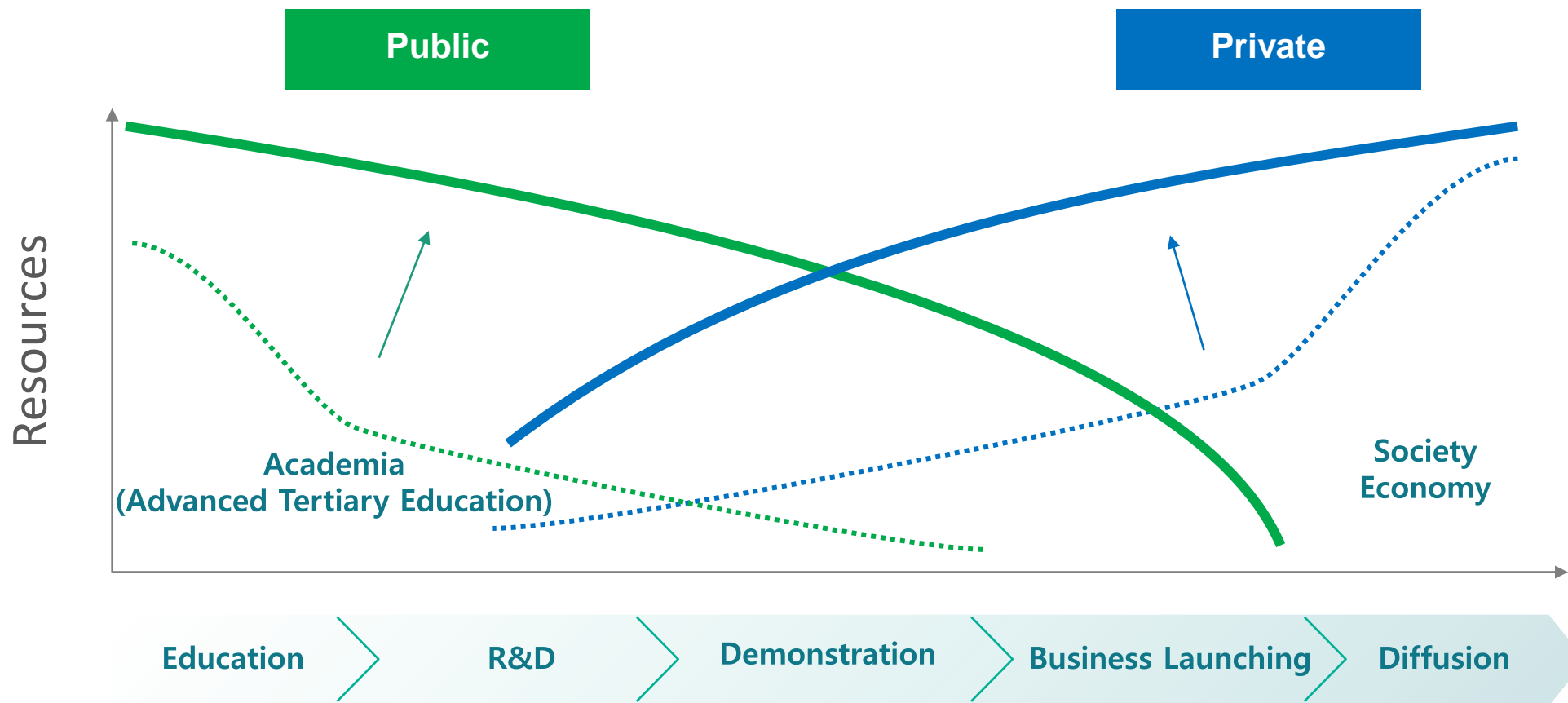


# Advancing Tertiary Education w/ Green R&BD Investment

## Extending the Roles of Tertiary Education for Greener Capacities of Society & Economy



# Advancing Tertiary Education w/ Green R&BD Investment



# Tertiary Education for Green Industry Innovation

Supply of green-tech workforce enables green industry development.



[https://youtu.be/1Cqdl\\_c6h0I?t=9](https://youtu.be/1Cqdl_c6h0I?t=9)

LG Energy Solution partners with Yonsei University to nurture talents in battery field

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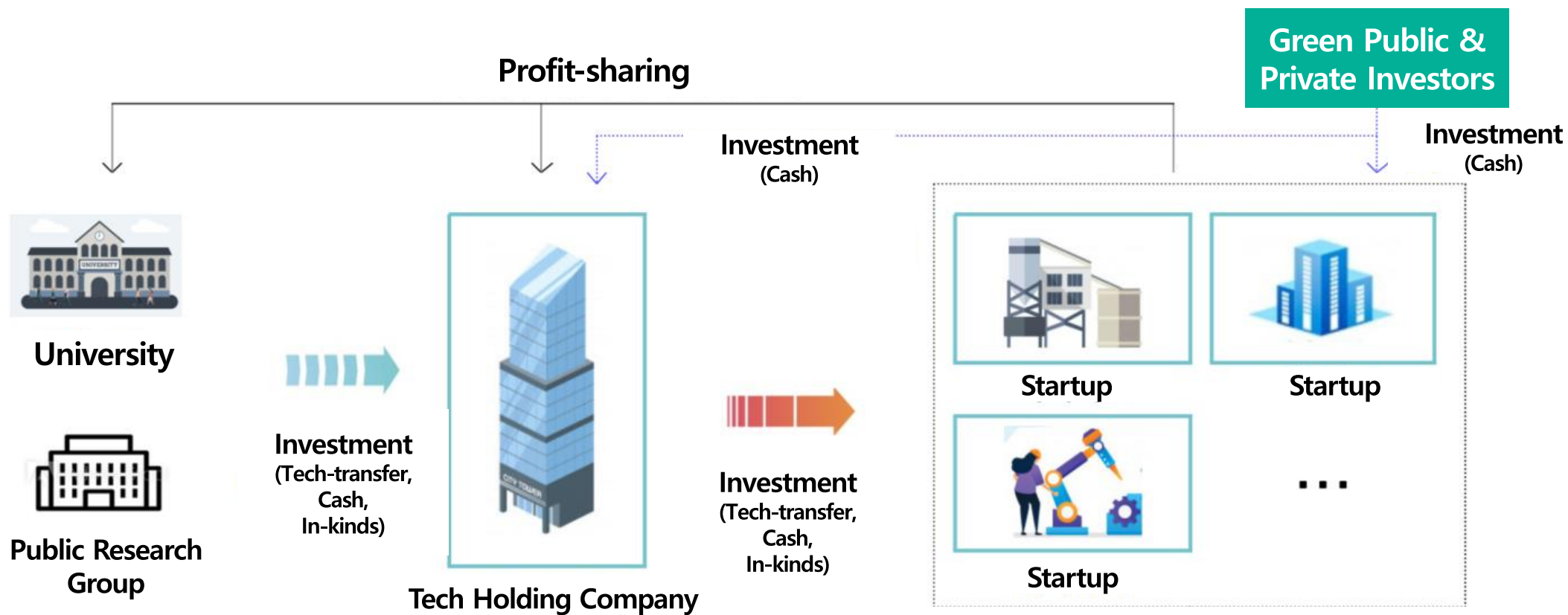
△[Photo provided by LG Energy Solution]

Korea's top battery maker LG Energy Solution has joined hands with one of the country's prestigious universities Yonsei University to nurture talented professionals in battery sector to make up for labor shortage in the burgeoning industry. The company said Wednesday that the two signed an agreement on a master's and doctoral degree interdisciplinary program on secondary batteries. Successful applicants will be offered incentives like full scholarship, living expenses, and job at LG Energy Solution. The company also opened a battery-smart factory major in September in partnership with Korea University in an aggressive move to allure talents into the rising field.

(Source:  
english.etnews.com)

# Tertiary Education for Green Business Innovation

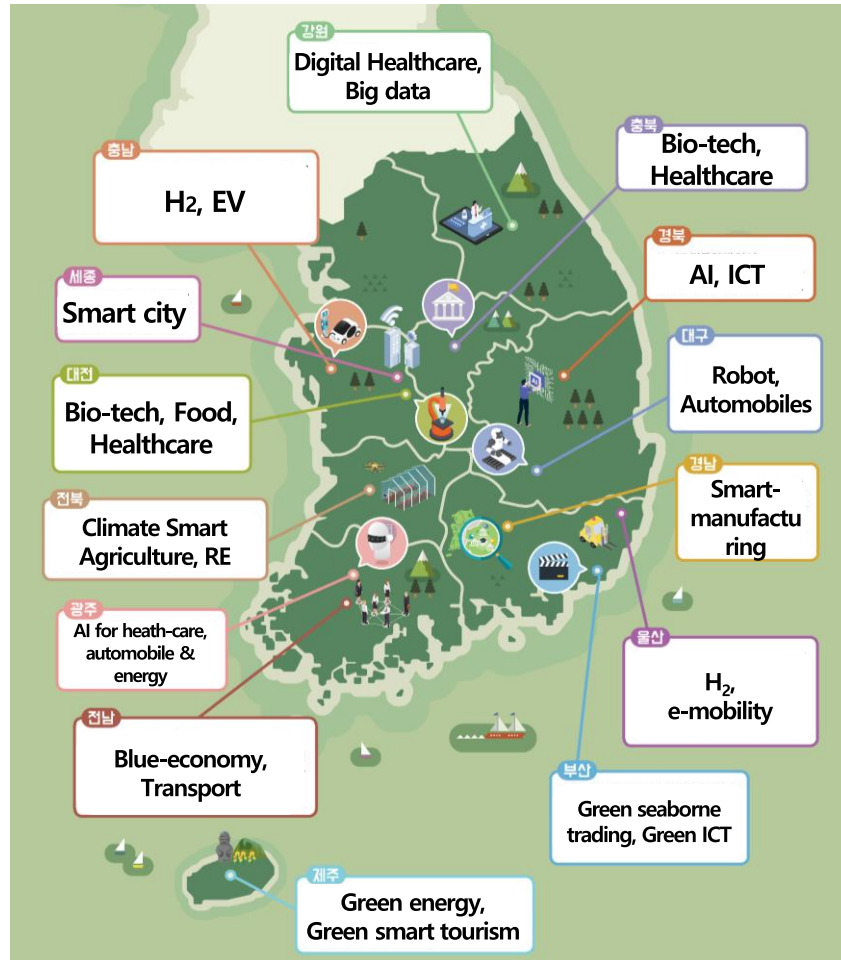
Tertiary institutions w/ incubating can accelerate green business development.



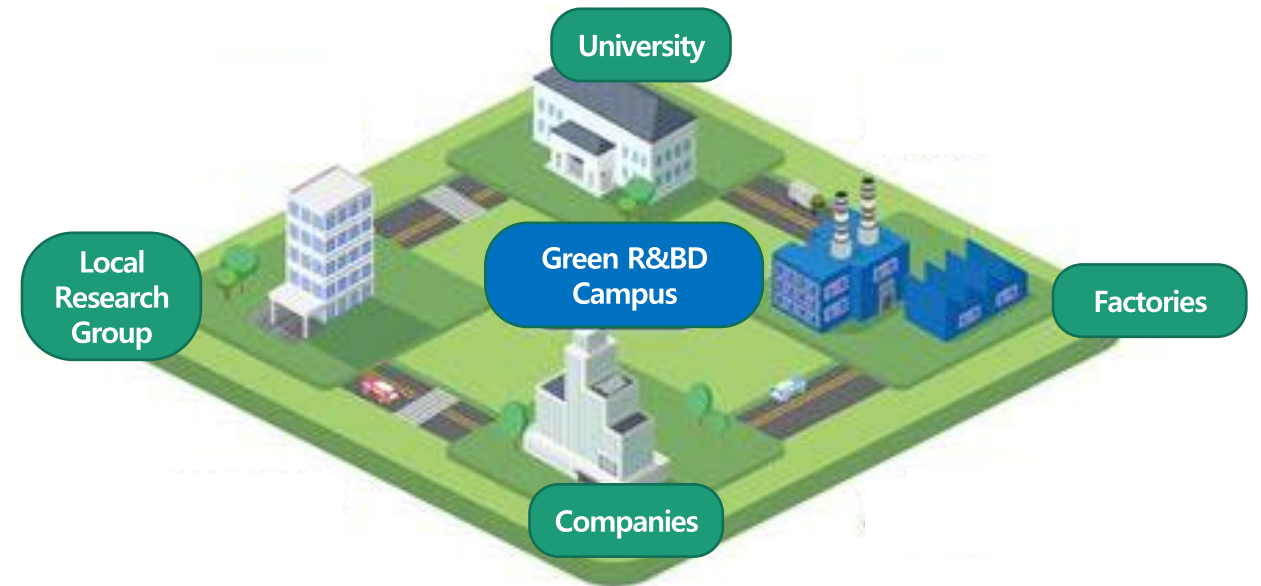
(Source: Jaeyoung Park, National Assembly Research Service, 2020)

# Tertiary Education for Green Local Innovation

Value-cocreation w/ local entities promotes green local economy.

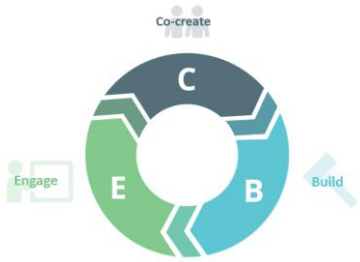


<'21-'25 Tertiary Education Strategy Plan for Local New Deals>



(Source: Korea Ministry of Education, 2021)

# Tertiary STEM Education for Climate Gender Equality



**How is more important than what.**  
**With whom is much more important than *just* how.**



**Co-create**

Co-design workshop to identify barriers to stay in STEM2D courses

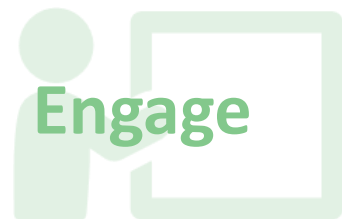
- Self-efficacy
- Lack of role models
- University climate



**Build**

Bias Literacy Workshop

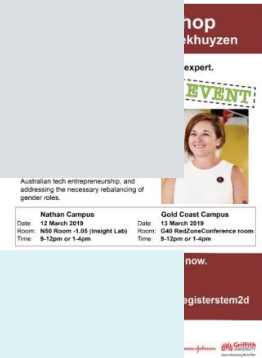
- Open to all students studying in STEM2D courses
- Delivered by female renowned scientist
- Placed and promoted through existing University platforms



**Engage**

Rewards

- Certification of completing the workshop
- Networking opportunity
- Increase in self-efficacy & voluntary creation of gender equity student club





# Key Point Summary

- 1. Enhancing tertiary education with R&BD features mitigates the innovation gaps.**
- 2. Green R&BD investments advance innovation capacities of society & economy.**
- 3. Systematic linkages of tertiary education with green society & economy development sustain inclusive green transformation.**

# Thank you

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