

# Co-innovation

## **International collaboration in innovation towards Redesigning Economies**

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# Agenda

- COVID-19 Impacts
- Recovery Strategies
- Role of Technology
- Co-innovation

## COVID-19

- Devastating Impacts
- Exposing vulnerability of systems
- Posing existential challenges

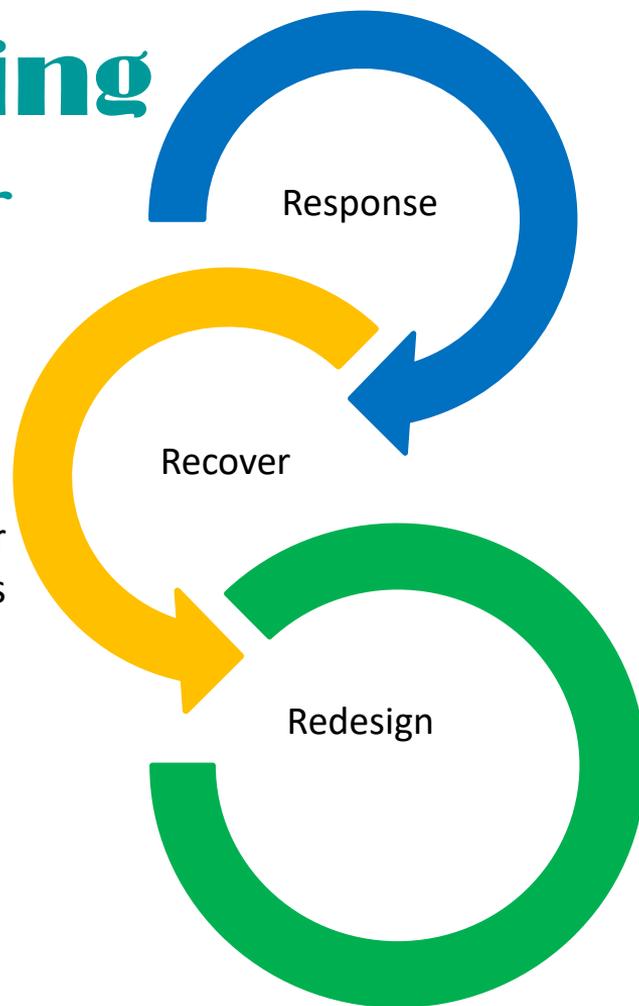


# Building Back Better

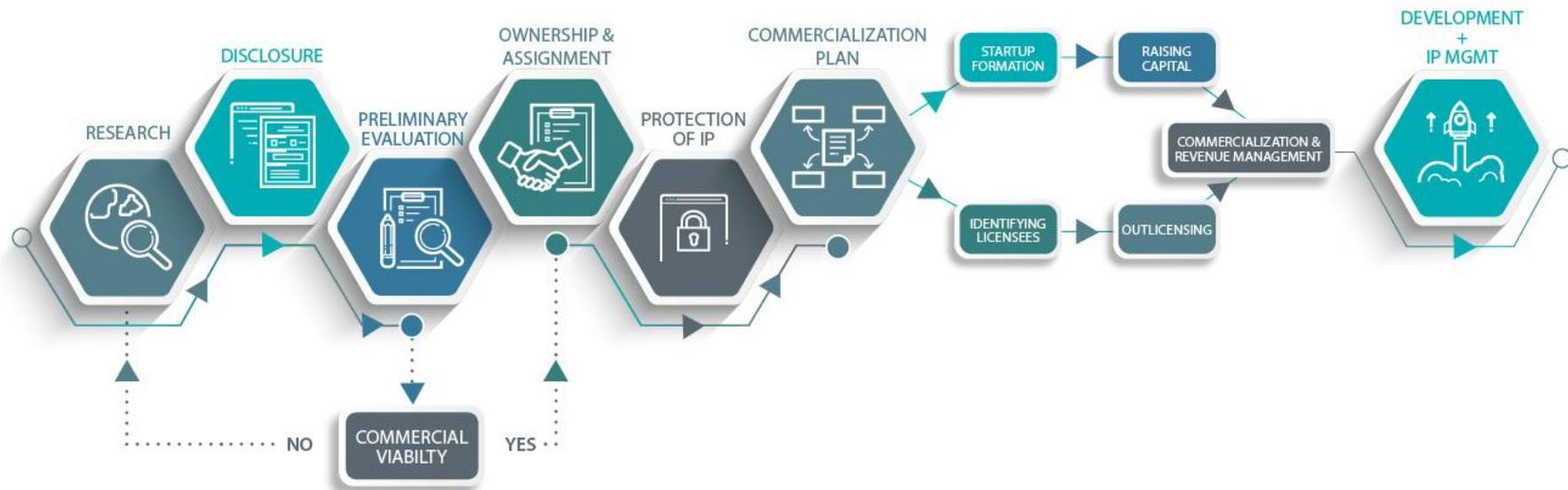
**Response:** Measures of immediate response focuses on health impacts due to COVID-19

**Recover:** Measures to recover focuses on economic stimulus packages

**Redesign:** Long-term redesigning of policies to move towards a sustainable pathway



Technology  
to play a key  
role in  
response,  
recovery  
and  
redesign

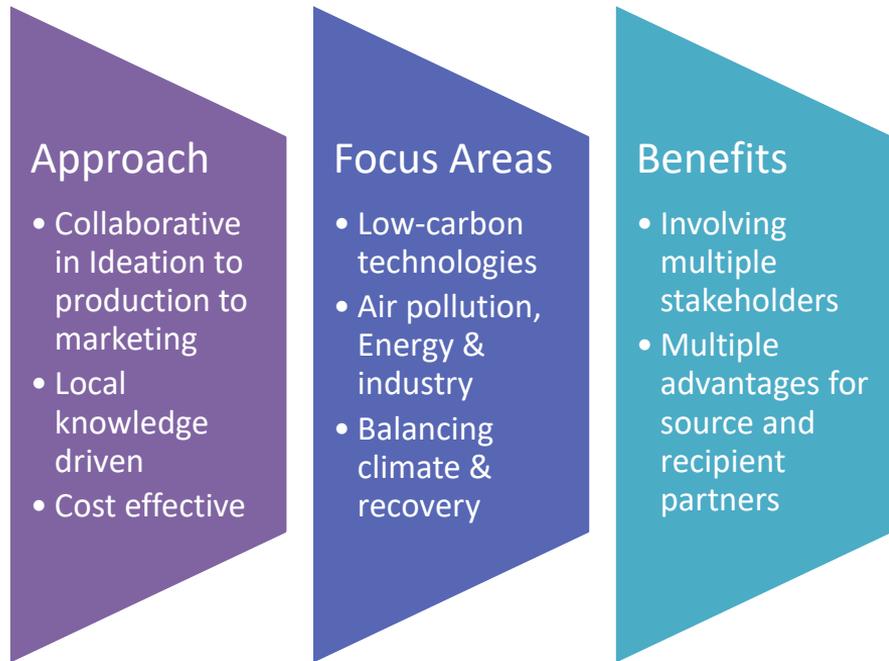


# Technology: Transfer or Sale?

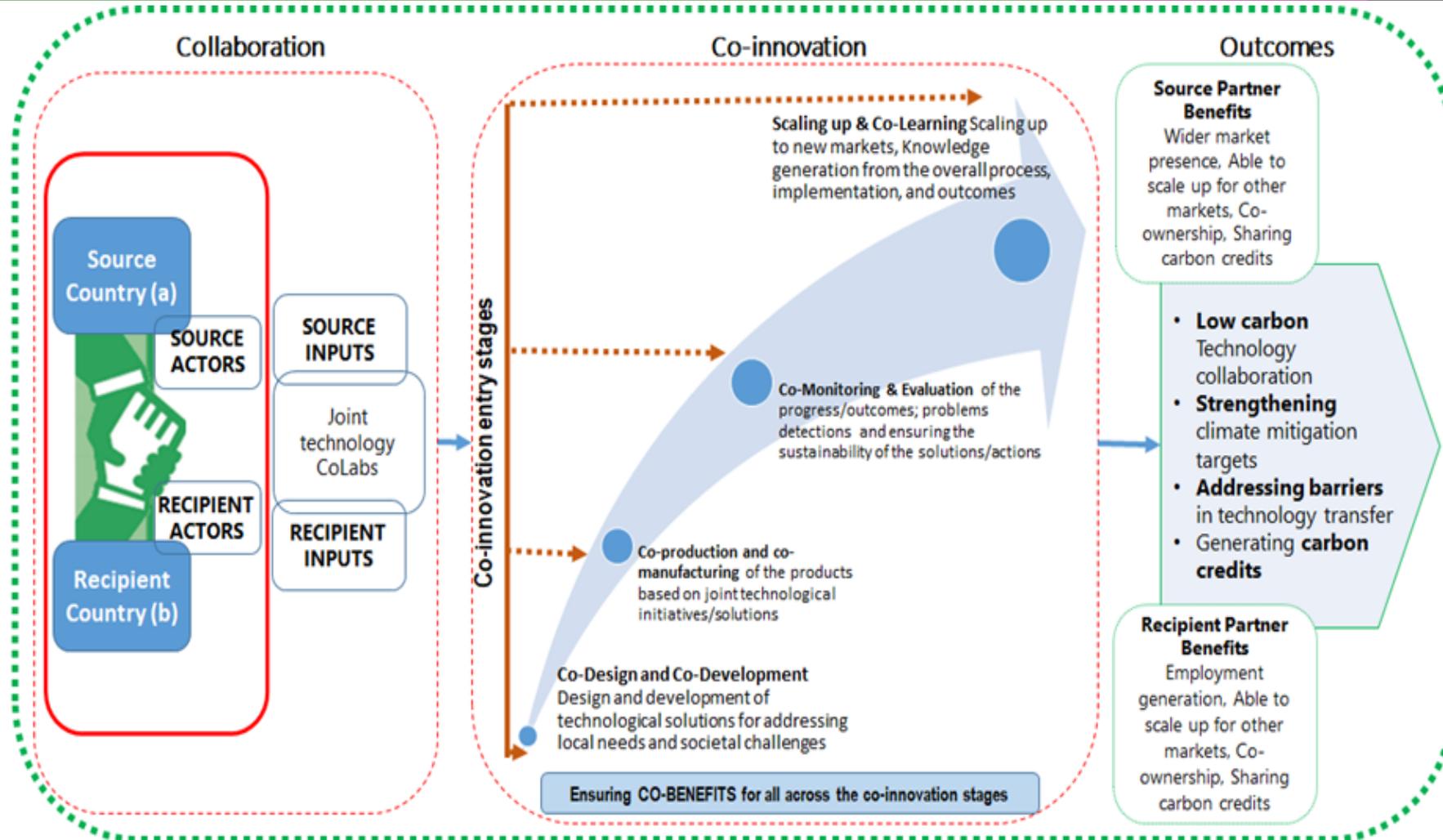
Are developing countries equipped to meet the huge demand for technology?

Category	Business-as-usual	Co-innovation
<b>Discretion</b>	Based in source country or entity	Locally-led
<b>Research &amp; development</b>	By source partner	Joint R&D
<b>Supply</b>	Import-basis	Local production
<b>Product specifications</b>	Specifications originally made for source partner	Localized
<b>Funding</b>	Product is largely developed by source partner funding	Co-financing
<b>Human resource</b>	Dispatch of managers and experts from Source partner	Local human resource development
<b>Pricing</b>	Often unaffordable	Competitive

“ **Co-innovation is a collaborative and iterative approach to jointly innovate, manufacture and scale up technologies** ”



## Co-innovation



# Critical in redesigning economies

- Demand for clean energy technologies in developing countries are likely to grow as countries push for greater 'self-sufficiency' and 'strengthening local economies'.
- Demand for newer technologies that can support economic recovery are expanding quickly.
- Co-innovation can be of significant in areas where closer collaboration among stakeholders are critical.

## Policy Attention Needed:

- ▶ Institutional development
- ▶ Intellectual property regime
- ▶ Incentivise Private Sector Participation

## Thank You

Nanda Kumar Janardhanan

### References:

- Janardhanan, N., Bao, P. N., Hibino, K. & Akagi, J., 2021. Japan's low-carbon technology collaboration with Southeast Asia: Co-innovation and Co-benefits. In: H. Farzaneh, E. Zusman & Y. Chae, eds. *Aligning climate change and sustainable development policies in Asia*. Tokyo: Springer.
- Janardhanan, N., Ikeda, E., Zusman, E. & Tamura, K., 2020. *Co-innovation for Low Carbon Technologies: The Case of Japan-India Collaboration*, Hayama: Institute for Global Environmental Strategies.
- **Picture source:** Unsplash