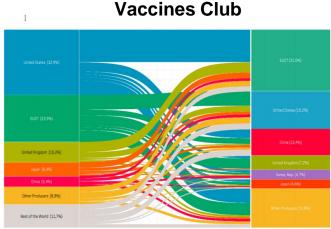
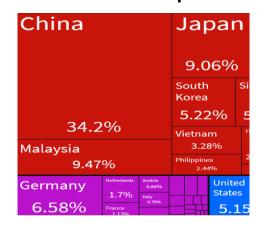


Technological Development:



Source: World Integrated Trade Solution (WITS) for 2017, 2018 and 2019 for the key vaccine ingredients listed in Appendix Table 1.

Semiconductor exporters

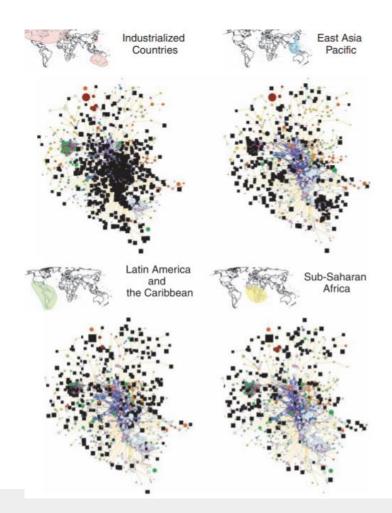


- 13 countries are concentrating the global market.
- In the semiconductor industry the situation is even worst: 80% of global market is concentrated by just 8 countries.

Economic Complexity: How technological knowledge flows

Technological Knowledge is concentrated in geographical hubs

Countries trade more with those nations with whom they share history, language, and a culture. It suggests that trade is limited by information constraints.

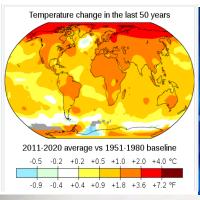


Technological Gap: a global crisis

Technological Gaps is not just a developing country's problem, but also an issue that impacts developed countries.

- Global value chains
- Climate change response

MC Kinsey report states that climate change effects such as hurricanes, floods and droughts will negativelly impact global distribution of essential products in the near future.







Success stories: TT as strategy. Newly industralised countries:





Success stories: Newly industralised countries

Indigenous capabilities:

- Technical capacity
- Collaboration to work: science -industry

The Chilean Innovation Ecosystem

Triple Helix: articulating through technological consortium

Programa mejoramiento genético hortofrutícolas

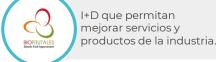


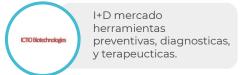
Diversificación de la Industria Acuícola



Consorcios Tecnológicos









I+D soluciones en el área de biomedicina de salud humana de alto impacto



Obtener nuevas variedades de frutas, de alto valor comercial



I+D centrados en mejoramientos genéticos de viñedos y sustentabilidad.

The Chilean Innovation Ecosystem

Center of excellence attraction: technology transfer

Centros de Excelencia Internacional



CORPORATIVOS







Centros Tecnológicos en foco prioritario









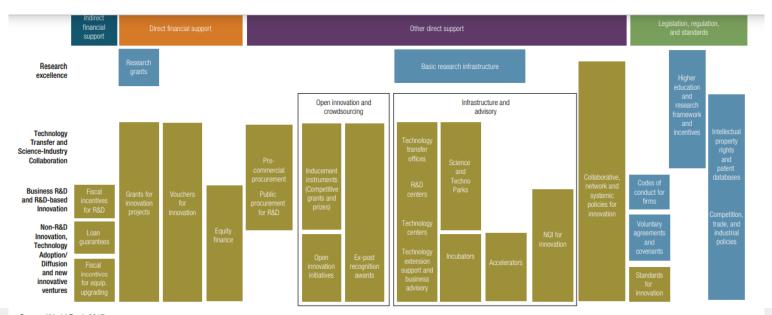






Success stories: Newly industralised countries

Innovation strategy: Aligning several aspects to generate impact at the local level



Source: World Bank 2017.

Success stories: Newly industralised countries

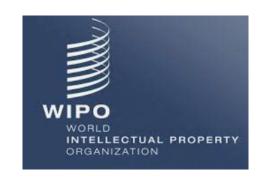
More co-development than manufacturing agreements (moving away from "cut and paste agreements"). Because development agreements allow:

- Co development activities to learn
- Share Foreground IP
- Own future IP

In this sense IP is a key element, not only as incentive for international corporations to be actively involved in TT process, but also as an opportunity for developing countries to create new capabilities and industries.

International Organizations role in the Third way







Regional Development Banks

International Organizations could have a key role as articulators and supporters at the international level

International Organizations role in the Third way

International Organisations could have a key role as articulators and supporters at the international level:

- 1) Indigenous capabilities: could be performed an international analysis by region
- **2) Innovation strategy**: could support developing countries to have a long term strategy and look for country's commitment to its implementation.
- 3) Development agreements: training and capacity building activities to understand negotiation and management

International Organizations role in the Third way

As a bottom line it is important to state that: Collaboration through Intellectual property, is a key factor to have a more balanced and sustainable technological development worldwide

