

2018/SOM3/AVG/DIA/002

# The Importance of the Unfinished Business of the Bogor Goals for Modern Trade Dynamics: Evolving International Division of Labor and International Commercial Policies

Submitted by: Keio University



Multi-Stakeholder Dialogue on APEC Toward 2020 and Beyond Port Moresby, Papua New Guinea 15 August 2018 2018 Multi-Stakeholder Dialogue on APEC Toward 2020 and Beyond (August 15, 2018 @Port Moresby, PNG)

# The Importance of the Unfinished Business of the Bogor Goals for Modern Trade Dynamics: Evolving International Division of Labor and International Commercial Policies

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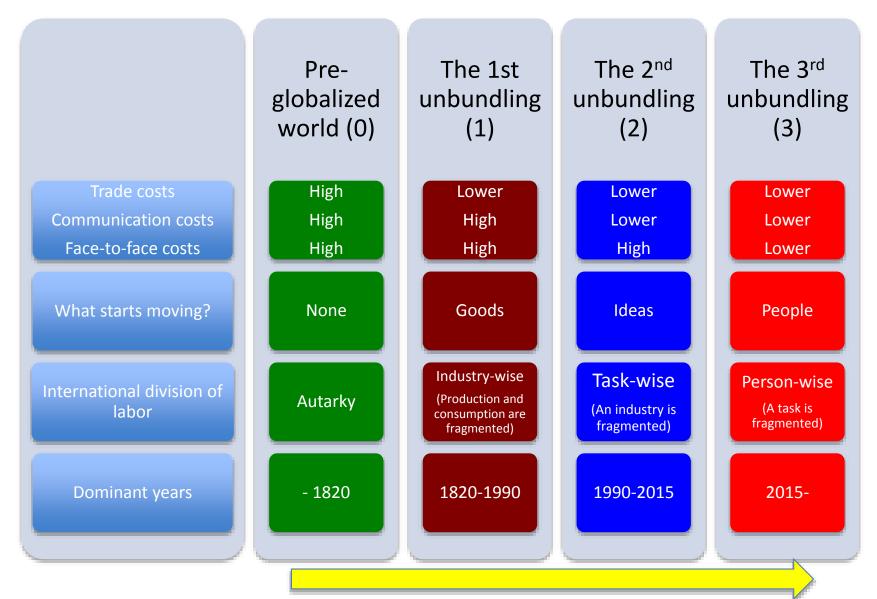
#### 1. The international division of labor in Asia-Pacific

- 1989: APEC
- 1994: the Bogor Goals
  - "free and open trade and investment by 2010 for IEs and by 2020 for DEs"
- Pioneer for task-wise international division of labor (the second unbundling) [1990-2015]
  - Mainly in manufacturing; "ideas" in B2B
  - Fragmentation of production and the formation of industrial agglomeration
  - Still room for widening and deepening the involvement
  - Cf. Eastern Europe, Latin America, South Asia, Africa, ...
- The wave of the digital economy has arrived. [2015-]
  - Reduction in face-to-face costs (matching costs in B2C, C2C)
    - Social media; wholesale/retail, transportation, tourism, service outsourcing, ...
  - Cross-border service outsourcing (the third unbundling) will come soon.

#### 2. Conceptual framework (a la Baldwin (2016))

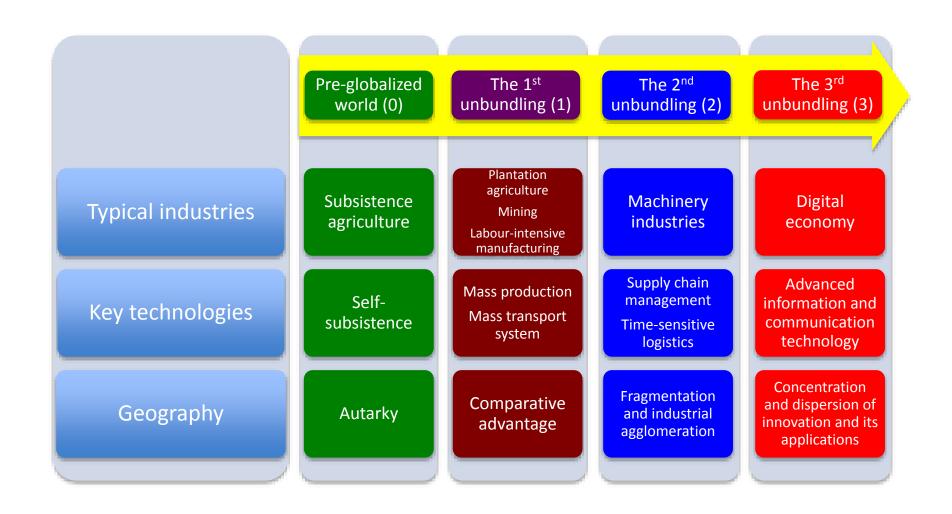
- Technological breakthroughs to overcome distance
  - Uneven preparedness for a higher level of unbundlings across economies/regions
- The first unbundling
  - Mass transport system -> Trade costs lower -> goods move
     -> production and consumption unbundled -> industry wise division of labor
- The second unbundling
  - ICT revolution -> Communication costs lower -> ideas move -> production unbundled -> task-wise division of labor
- The third unbundling
  - Further ICT -> Face-to-face costs lower -> people move -> task unbundled -> B-to-C/C-to-C matching/sharing easier, person-wise division of labor

#### "Unbundlings" to overcome distance



Source: Kimura (2018).

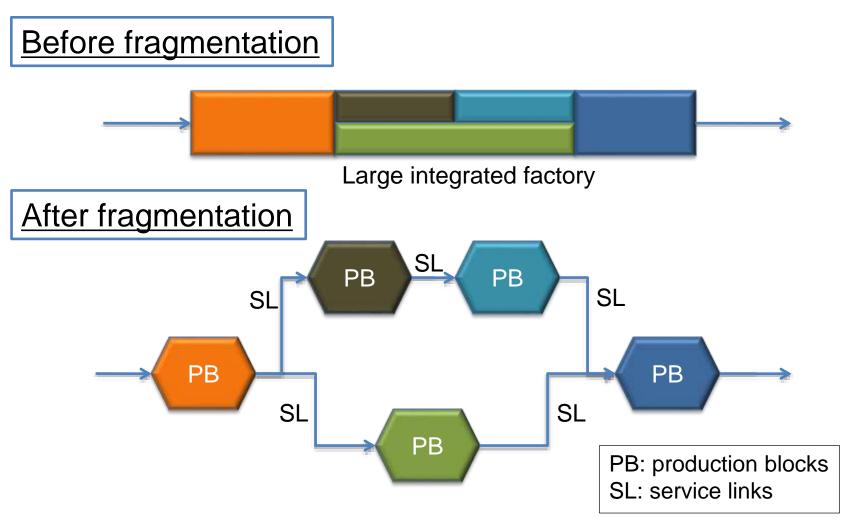
#### "Unbundlings" and industrialization



#### 3. The digital economy for developing economies

- Two faces of the same technological paradigm
  - Information technology (IT)
    - AI, Industry 4.0, faster data processing, machine learning...
    - Reduces the number of tasks, (sometimes) replaces human by machines, and generates concentration forces
    - ADB (2018)
  - Communication technology (CT)
    - Internet, smartphone, ...
    - Overcomes distance, encourages the division of labor, and generates dispersion forces
- Preparation: "digital" connectivity
  - While keeping up with the development of IT with innovation hubs, developing economies must take advantage of CT and invite/generate businesses.
  - Take advantage of the reduction in face-to-face costs or matching costs of B-to-C and C-to-C.
  - Key players: technology developer, platforms, applications, participants (small businesses, consumers, rural residences, ...)

## The 2<sup>nd</sup> unbundling



Fragmentation of production a la Jones and Kierzkowski (1990).

#### The evolution of the 2<sup>nd</sup> unbundling

Cross-border production sharing (back-and-forth; intra-firm)

The United States

Consumers

Mexico

Headquarters or affliates

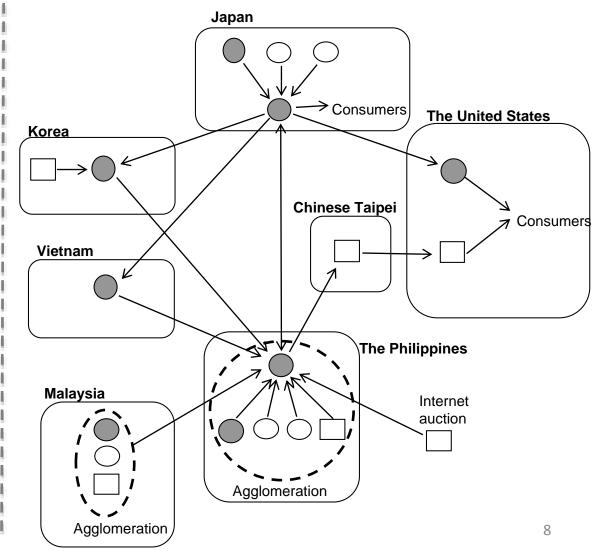
Unrelated firms with same firm nationality

Unrelated firms with different firm nationality

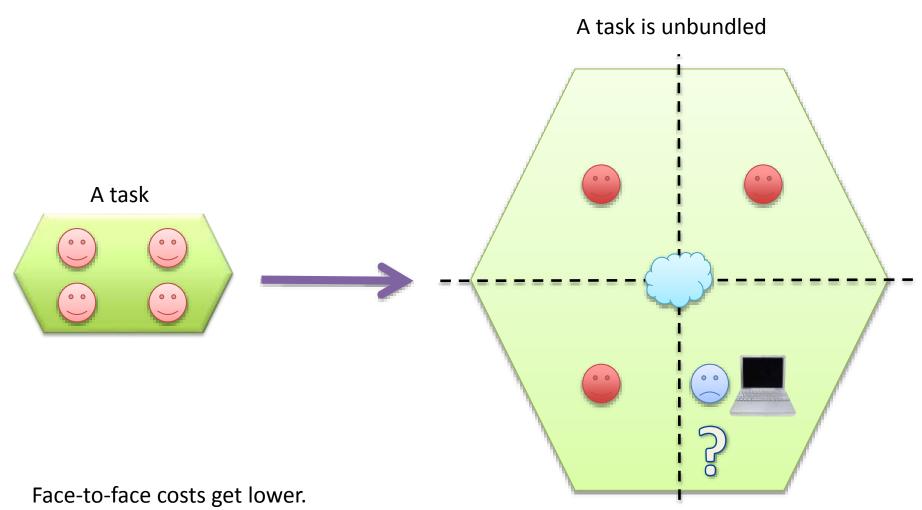
Source: Ando and Kimura (2010).

#### **Production networks**

("networks"; fragmentation and agglomeration; intra-firm in short distance, arm's length in long distance)



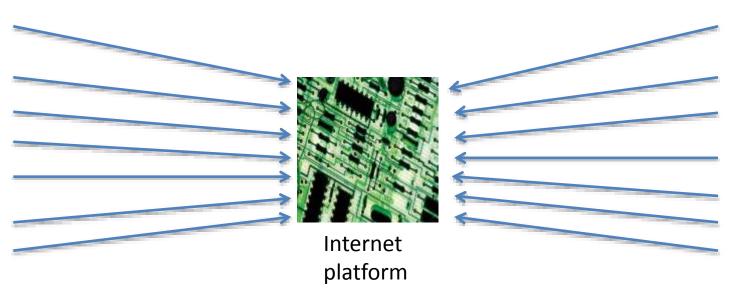
# The 3<sup>rd</sup> unbundling



A task can be unbundled; person-to-person matching becomes easier.

#### The 3<sup>rd</sup> unbundling: Reduction in B2C, C2C matching costs





- Where are we now? (e.g., Indonesia)
  - Internet, smartphone, and social media
    - By the end of 2017, the number of internet users reached 143.3 million (54.7% of total population; 7.6% increase from a year before), of which 87.13% are active social media users(APJII 2018).
    - The ratios of internet user penetration are 72.41% in urban areas while 49.49% and 48.25% in rural-urban and rural areas, respectively. By islands, the penetration ratio is 57.70% in Java, 54.23% by Bali-Nusa, 47.20% in Sumatera, 72.19% in Kalimantan, 46.70% in Sulawesi, and 41.98% in Maluku-Papua (APJII 2018).
  - Old industries/businesses are revitalized by the reduction in face-toface costs
    - E-commerce
      - As of Jan. 2018, the total number of people purchasing consumer goods via e-commerce is 28.07 million (+13% from a year before), and the value of the consumer goods ecommerce market (total annual sales revenue) amounts to US\$7.056 billion (+22%) (We Are Social 2018).
    - Transportation
      - Go-Jek, Grab, Uber, ...
    - Tourism
      - Airbnb
    - E-payments, fintech
  - The seed of the 3<sup>rd</sup> unbundling or services outsourcing
    - Job-matching platforms (e.g., Upwork, witmart.com, amazon mechanical turk, ... not much in Indonesia yet?)
- Loose regulation has accelerated the application of new technologies though a series of back-up policies are needed.

#### 4. Industrial dynamism and development strategies

#### Step-by-step

- The first unbundling as a preparation for the second unbundling
- The second unbundling as a preparation for the third unbundling
- Policy environment, infrastructure, and human resources help step up and expand the scope.

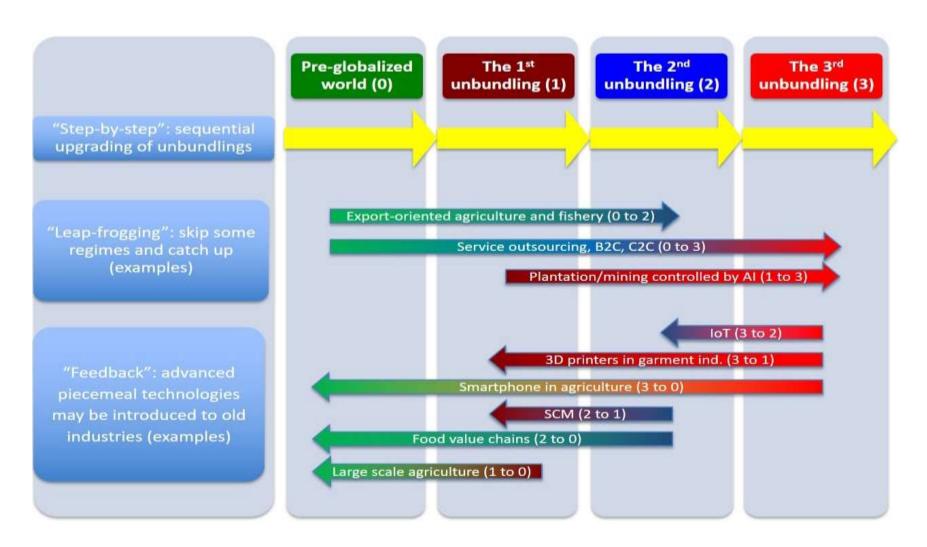
#### Leap-frogging

 Economies/regions may skip some stages though the scope would be limited.

#### Feedback

- Apply new technologies for old industries.
- Although the scope would be limited, it would invigorate creativity in business and change people's perception.

#### Industrial dynamism among unbundling regimes



Source: Kimura (2018). Slightly modified.

### 5. Required policies

- Each unbundling requires a different set of policies.
- (i) International commercial policies and behind-the-border issues
- (ii) Hard infrastructure and physical economic/living environment
- (iii) Human aspects and inclusiveness

#### Required policies for unbundlings

	Pre-globalized world (0)	The 1st unbundling (1)	The 2nds unbundling (2)	The 3 <sup>rd</sup> unbundling (3)
(i) International commercial policies (FTAs) and behind-the-border issues: Institutional connectivity		Trade liberalization - GATT/WTO round negotiations - GSP	Trade liberalization and facilitation - FTAs - Tariff removal - E-customs, TBT - Services (B2B) and investment liberalization for GVCs	Trade liberalization  - De minimis  - Modes 3 and 4 in services (B2B, B2C, C2C)  - (Cross-border) e-commerce and e-payments  - Free flow of data  Trade facilitation  - SPS  - Standards and conformance  Backup policies and regulations  - Consumer protection  - Competition policy  - Taxation  - Cyber-security
(ii) Hard infrastructure and physical economic/living environment: Physical connectivity		Medium-grade connectivity - Road networks - Ports and airports Infrastructure services	High-grade connectivity  - Full-scale port with container yard  - Full-scale airport  - Multi-modal (cargo, passenger) Urban/sub-urban development for industrial agglomeration  - Logistics (highway system)  - Mass economic infrastructure services (special economic zones/industrial estates, electricity, energy, water)	ICT connectivity - Internet connection - Integrating connectivity Metropolitan development and urban amenities (Glaeser, et al. (2001)) - Urban transport (LRT, subway, airport access, access to resorts) - Residential environment (children's education, medical services, safety) - Other urban amenities ("consumption")
(iii) Human aspects and inclusiveness: People-to-people connectivity	SME development - e.g., cottage industry	SME development - e.g., exporting primary products Human resource development - Primary and secondary education	SME development - e.g., supporting industry Human resource development - Managers, engineers	SME development - e.g., venture, start-ups Consumer (people)-centered policies - Consumer protection/privacy - Human resource development for innovation and new businesses - Movements of educated people - Avoid digital divide R&D capabilities and innovation hub

#### 6. The flow of data: future agenda?

- In principle, policy environment must provide "free flow of data."
  - Explosive increases in international data flows (Bughin and Lund 2017).
  - E-commerce chapter of CPTPP
    - (i) Free flow of data, (ii) prohibition of data localization requirements, and (iii) prohibition of forced disclosure of program codes as a principle
  - However, ad-hoc data localization requirements pervasive (Cory 2017)
    - Cf. strict data localization (as a process) by General Data Protection Regulation (GDPR) of EU
    - Cf. China (Ferracane and Lee-Makiyama 2017)
- Then we certainly need a series of back-up policies including
  - Consumer protection
  - Privacy issues
  - Competition policy
  - Taxation
  - Cyber-security
  - (Infant industry protection or digital protectionism)

#### 7. Conclusion

- Asia-Pacific
  - Have been a pioneer of the second unbundling.
  - Should incorporate the third unbundling or the digital economy into development strategies.
    - Institutional/physical/people-to-people connectivity
- Unfinished agenda for the Bogor Goals
  - For the second unbundling
    - Tariffs, trade facilitation/TBT, B2B services to support value chains, ...
  - For the digital economy and the third unbundling
    - E-commerce, SPS/standards and conformance, e-payments, B2C/C2C services, service outsourcing, movement of natural persons, ...
    - "Free" flow of data

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