



## **Measuring Global Value Chains**

### Ivo Havinga United Nations Statistics Division

Seminar on Accounting for Global Value Chains 6-8 June 2017 Luxembourg



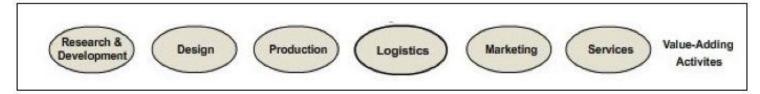
- National perspective to measuring GVCs
- GVC Satellite accounts of the SNA
- Based on integrated business statistics with a corporate/global firm approach large cases
- Consistent SUT and integrated accounting framework across territories of products (linking goods and services), activities (income and jobs), business functions, geography
- Multi-partner country GVC Satellite Account with shared national data compiler ownership
- Built on the work done by OECD, UNECE, WTO, IMF and others

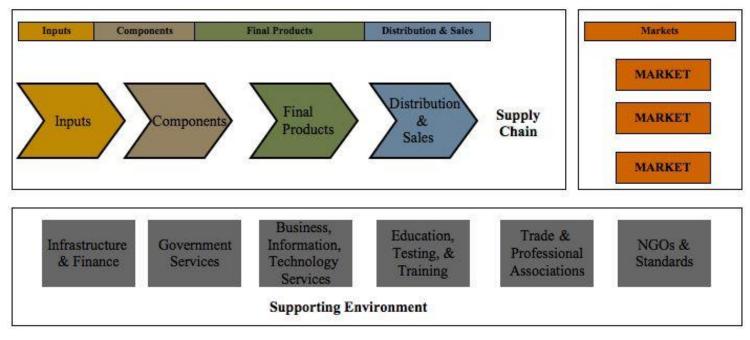


A **Global Value Chain** is a set of interrelated activities (from conception to its end use and beyond) that cross economic territories which are coordinated by lead firms for the production of a product (good or service), its delivery to market(s), supports its uses, and recycling.

- The GVC framework include 4 dimensions that describe the structure, dynamics and relationships among stakeholders in GVCs:
  - Business functions
  - Geographical scope
  - Governance
  - Institutional context







Source: Frederick (2010)

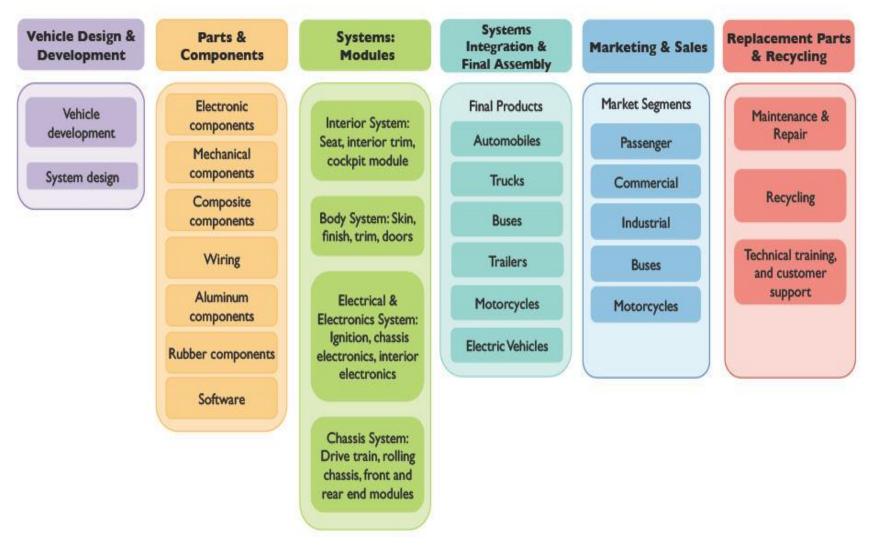


- Define and classify the relevant actors in the GVC, e.g. lead firms, suppliers, (affiliated and non-affiliated suppliers)
- Define and classify the **products** relevant for the GVC
- Define and classify the **business functions** relevant for the GVC
- Identify the main (partner) countries in the GVC [perspective of national data compiler]
- Collect relevant information
- Build the accounts in cooperation with partners



### Automotive GVC

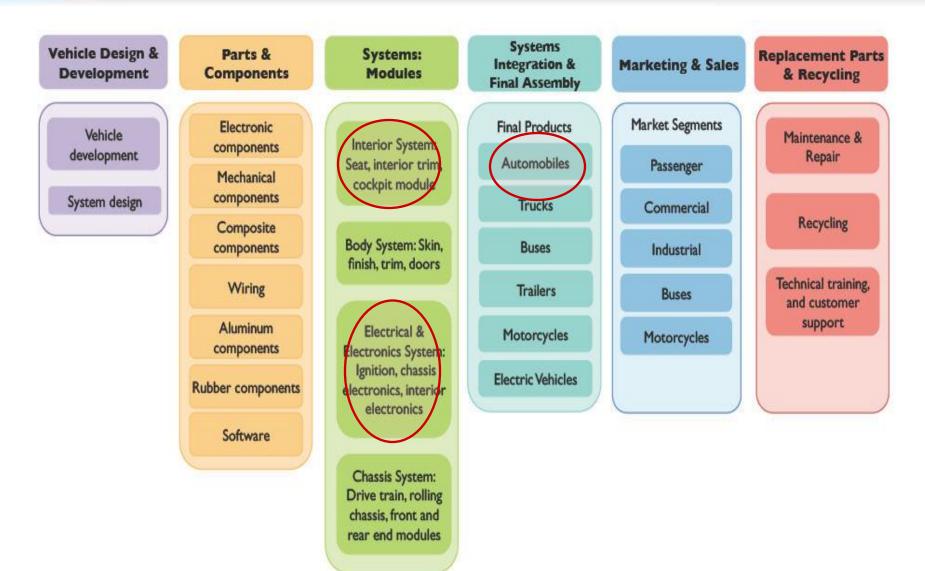
### **United Nations Statistics Division**



Source: Timothy Sturgeon, Jack Daly, Stacey Frederick, Penny Bamber and Gary Gereffi (2016) *The Philippines in the Automotive Global Value Chain* 



## Morocco in the automotive GVC





# Identification (and measurement) of the governance structure of the GVC

- Lead firm
- Controlled firm
- Non-controlled firm

Importance of business registers, large case units to focus on lead firms and supplying firms



### **Example: Automotive GVC HS codes in Morocco**

Value Chain Stage/ Subassembly	HS Codes (2002)	HS Code Descriptions	Producer
Passenger vehicles	8703	Passenger vehicles	Lead Firms
Body system	870600	Chassis fitted with engines	
Drive train	840733 840734 840820	Reciprocating piston engines used for the propulsion of vehicles of Chapter 87	Lead Firms
Body system (suspension, panels front & rear end modules, interiors)	401110 401211 8708 8707 7007	Tires, Brakes, Road wheels and parts, Suspension systems, Steering wheels, columns and boxes, Bodies, Laminated safety glass, Bumpers, Radiators, Silencers and exhaust pipes, Sealed beam lamp units, Seats, Safety seat belts, Instrument panel	Suppliers
Drive train / Electrical Equipment	8708 854430 8512	Parts/accessories of motor vehicles of headings 87.01-05; Gear boxes, Drive-axles with differential, Clutches, Ignition wiring sets, : Electrical lighting, windscreen wipers, defrosters, Air conditioning	

Source: Ouljour H., Jansen R. Stugeon T. (2017) Measurement of Morocco's participation in the Automotive Global Value Chain



ISIC 72	ISIC 293,	ISIC 292		ISIC 291 tegration an assmebly firms	d final	ISIC 7 ISIC 4	-	ISI	C	ISIC	C	Other ISIC
Research and	Parts and	Systems: Modules			othors	Marketin	ig and	replacem	nent parts	Logi	stic	
development Components		Systems. Modules	foreign	nationally	others	sales and recylci		cylcing	Logistic			
GVC gov.	GVC gov. other	GVC gov. other	owned	owned		load firms	othor	lead	other	GVC gov.	other	
structure	structure	structure				lead firms	other	firms	other	structure	other	

Where

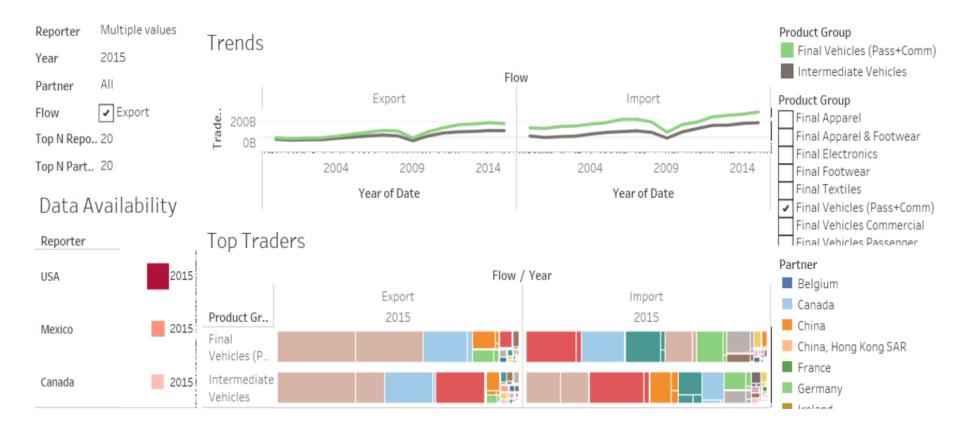
ISIC 72 - Scientific research and development

ISIC 293 - Manufacture of parts and accessories for motor vehicles

ISIC 292 - Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers

ISIC 291 - Manufacture of motor vehicles











- Experimentation and testing for regional GVCs
- agri-food, apparel and textiles, automotive, electronics, tourism
- Research agenda
- statistical units, classifications, format of the SUT and integrated accounts



# Thank you!