Webinar Series06 March 2024



Measuring Digital Trade in Jamaica: An inventory of data sources

Esmond McLean UNCEBTS

The presenter would like to thank the following institutions for their support











Facilitator



Name : Esmond McLean

Current role & organisation

IMF-Consultant, ESS

Involvement in IA

Director of Data Intelligence ,Bank of Jamaica. Short-term Consultant on ESS with IMF

A fun fact about :

me

passionate football fan!

Outline

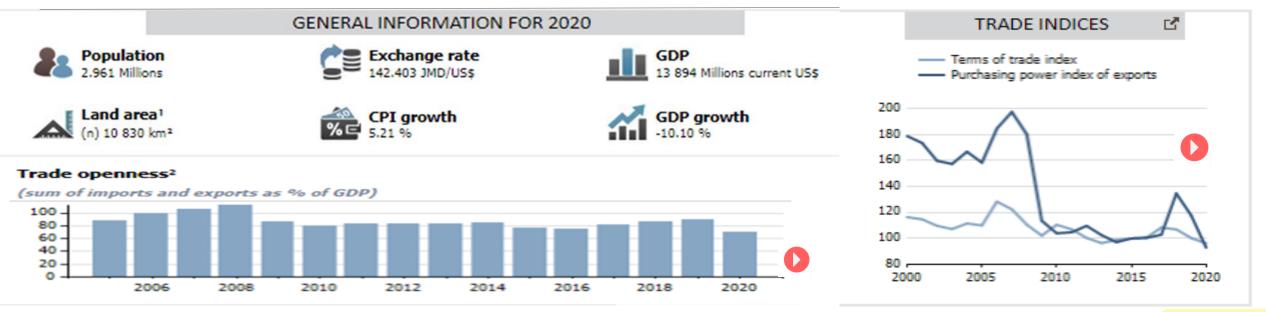


- I. Overview of the Jamaican Economy
 - Selected Indicators
- II. Conceptual Framework for Measuring Digital Trade
- III. Description of digital trade and E-Commerce in Jamaica
 - Key Data Sources
- IV. The way forward

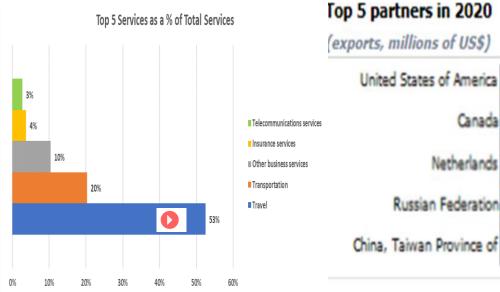
Overview of the Jamaican Economy

Overview of the Jamaican Economy: Selected Indicators





INTERNA	TIONAL TRADE	IN SERVICES	3	
Total trade in services ²				
(millions of US\$)	2005	2010	2015	2020
Services exports	2 330	2 634	3 059	2 146
Services imports	1 722	1 824	2 161	1 739
Services trade balance	608	810	898	406
Services exports by main ca	tegory ²			
(as % of total services)	2005	2010	2015	2020
Transport	19.4	11.2	6.1	7.8
Travel	66.3	76.0	78.5	65.7
Other services	14.3	12.8	15.5	26.5



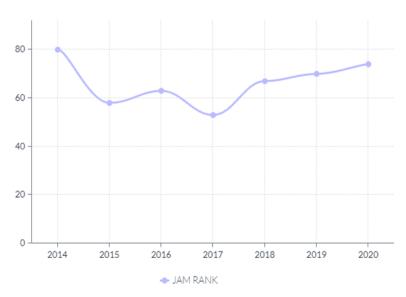


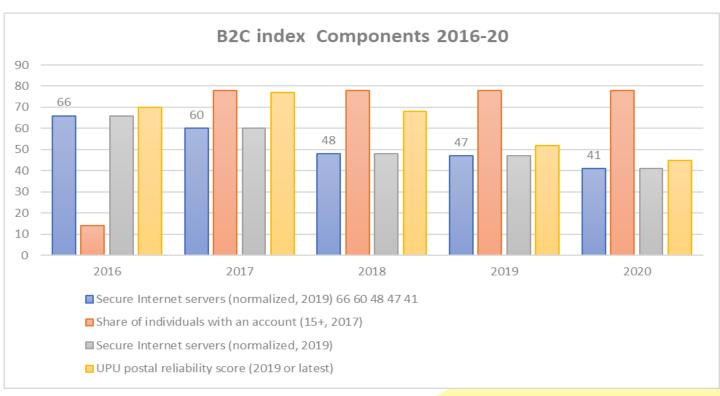
Description of e-commerce and Digital trade in Jamaica



1st in the Caribbean 7th in LAC

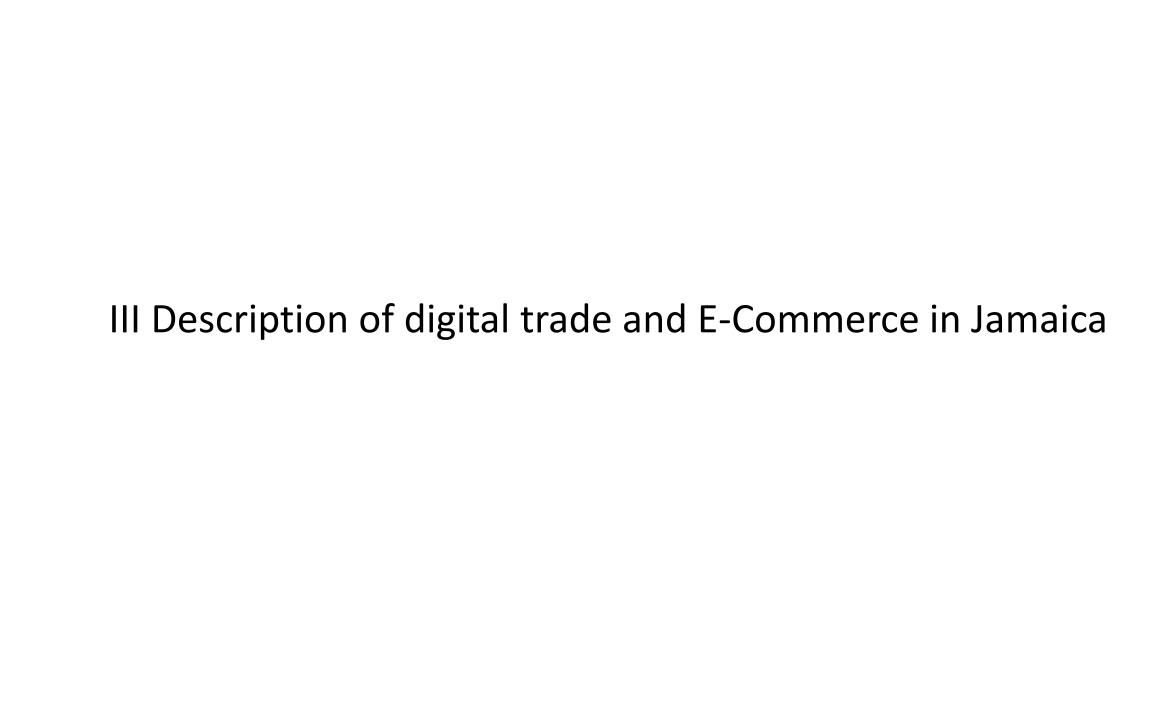








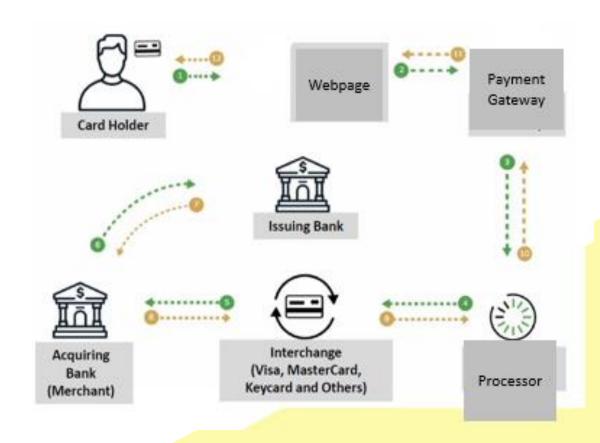
Telecommunication industry performance



Description of e-commerce and Digital trade in Jamaica



Туре	Activity/ Service Type
CT services providers	Mobile roaming
IT Services Providers	Software Programming, consultancy services web hosting
Post and Communications	Mobile , Fixed phone and post delivery
Computer and Telecommunications equipment installation and repair	Telecommunications equipment
Financial Services	Offshore Banking, Insurance



Description of e-commerce and Digital trade in Jamaica

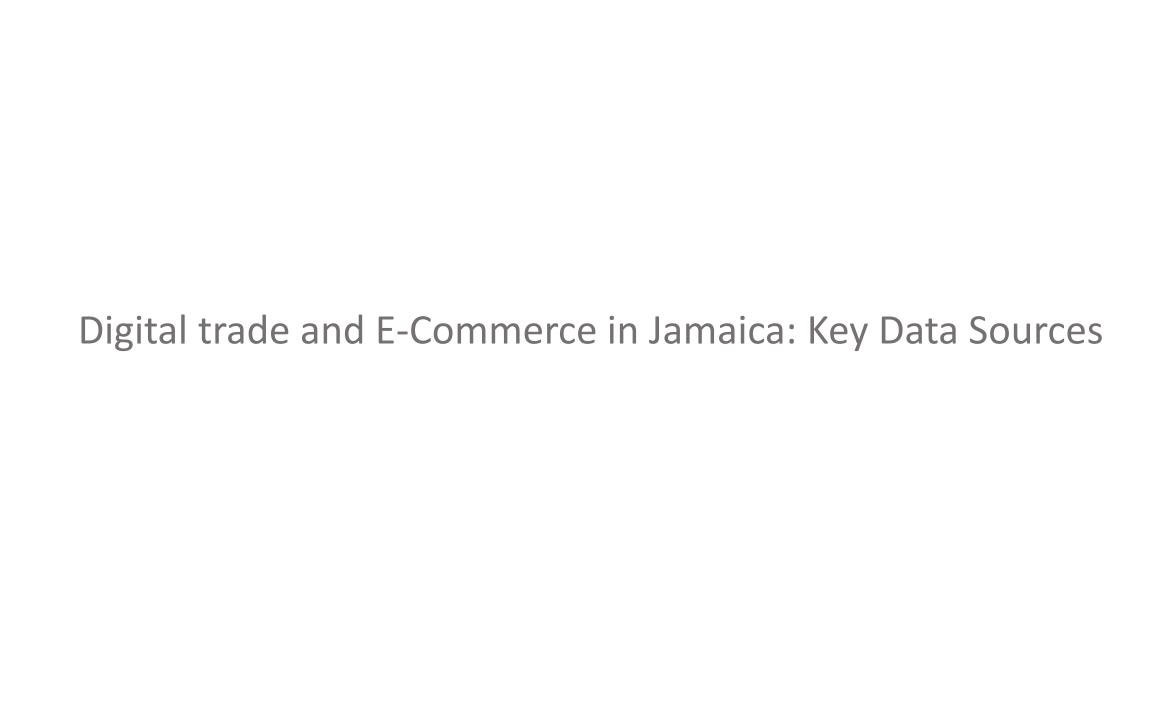


Formal Economy

Method	Description	Data Source
Business to Business (B2B)	This involves the online ordering or purchasing of other businesses' goods and services. This is done either raw material or final products.	ICT and e-commerce enterprise surveys Administrative data from financial statements
Business to consumer (B2C)	This involves enterprises that receive orders or make sales of goods and services online	ICT and e-commerce enterprise surveys Administrative data from financial statements Household Surveys on internet use
Govt. to Business (G2B)	Govt providing goods and services to business online	Administrative data
Govt. to Consumer (G2C)	Govt. providing goods and services to consumers online	Administrative Data

Informal Economy

Method	Description	Data Source
Business to	Informal sale	Illegal
Consumer	of goods and	Websites and
(B2C)	services by	social media
informal	business to	pages
	consumer on	Facebook,
	the internet	Instagram Etc.
Consumer to	Informal sale	Not Available.
Consumer	of goods and	However
(C2C)	services by	Partial
	business to	information
	consumer on	may be had
	the internet	from HH
	or using Cash	expenditure
	Apps.	survey



Digital trade and E-Commerce in Jamaica: Key Data Sources



Digitally Ordered Trade

- Enterprise Surveys A
- Household Survey
- Credit Card Data
- Payment Gateway data webay
- De Minimis Data
- Customs Statistics
- **Private Data Sources**





Digitally Delivered Trade

- 1. ITS Surveys
 - ITRS Surveys 🛕
- Credit Card Data
- Administrative Tax Data Tax Administration
- Household Surveys A
- Non-Bank Data on digital financial Services

Digitally Intermediation Platforms DATA PROVIDER. COM



- Big Data/Web Scraping AlphaSense
- Payment Gateways wepay



- Tourism Surveys MACA
- Large companies Surveys





















Digital trade and E-Commerce in Jamaica: Key Data Sources













JAMAICA: DATA INVENTORY ON DIGITAL TRADE (with sources)

EXPORTS		CORPORATION				GOVERNMENT		NPISH					
		Source				Source		Source					
Source Availability %			43%	6					100%		100%		
i. Digitally Ordered	ES	НН	СС	PG	DT	CS F	S	AR		НН	СС		
ii. Goods	ES	НН	CC	PG	DT	CS F	S	AR		НН	СС		
iii. Services*not digitally delivered	ES/TS	НН	CC	PG	DT	CS F	S	AR		НН	СС		
iv. Services* digitally delivered	ES/TS	НН	CC	PG	DT	CS F	S	AR		НН	СС		
v. Digitally ordered	ES/TS	1111	CC	PG	DT	CS F	S	AR		НН	СС		
vi. Not digitally ordered	ES/TS	НН	CC	PG	DT	CS F	S	AR		НН	СС		
vii. Total Digi tal Trad e													
IMPORTS		COR	POR	ATIO	N				GOVERNMENT			NPISH	
		9	Sour	ce					Source			Source	
Source Availability %			43%	6					100%			100%	
i. Digitally Ordered	ES	НН	CC	PG	DT	CS F	S	AR		HS	СС		
ii. Goods	ES	НН	СС	PG	DT	CS F	S	AR		HS	CC		
iii. Services*not digitally delivered	ES	НН	СС	PG	ŊŢ	es F	S	AR		HS	СС		
iv. Services* digitally delivered	ES	HH	CC	PG	DT	CS F	S	AR		HS	СС		
v. Digitally ordered	ES	НН	СС	PG	DT	CS F	S	AR		HS	СС		
vi. Not digit <u>ally ordered</u>	ES	НН	СС	PG	DT	CS F	S	AR		HS	СС		
vi. Not aigitally ord ered	LO	11111		1 0	U			$\neg \iota \iota$		110	100		

Key

ES= Enterprise Survey

HH=Household Survey

CC= Credit Card Information

PG= Payment Gateways

CS= Customs Survey

AR= Administrative Records

DT = De Minimis Trade

TS = Tourism Survey



Digital trade and E-Commerce in Jamaica: DIP











JAMAICA: DATA INVENTORY ON DIGITA	L TRADE (with sou	rces):Digital In	termediation Providers (D	NP)
DIP(EXPORTS)				
	COR	PORATION	GOVERNMENT	NPISH
		Source	Source	Source
Source Availability %		50%	100%	50%
i. Digitally Ordered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
ii. Goods	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
iii. Services*not digitally delivered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
iv. Digitally delivered services	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
v. Digitally ordered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
vi. Not digitally ordered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
DIP(IMPORTS)	COR	PORATION	GOVERNMENT	NPISH
		Source	Source	Source
		50%	100%	50%
i. Digitally Ordered	BD/WS PG	TS LCS	<mark>AR</mark>	BD/WS PG TS LCS
ii. Goods	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
iii. Services*not digitally delivered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
iv. Digitally delivered services	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
v. Digitally ordered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS
vi. Not digitally ordered	BD/WS PG	TS LCS	AR	BD/WS PG TS LCS

Key
BD/WS= Big Data/Web scraping
PG= Payment Gateways
TS= Tourism Survey
LCS= Large Company Survey
AR= Administrative Records





Case Study

Background

Incorporated in 2019, to provide an ecommerce platforms to facilitate the delivery of:

- 1. logistics
- ecommerce fulfilment services
- 3. cross-border online shopping
- 4. Local online shopping
- 5. sea freight shipping and
- 6. brokerage services.
- 7. branded MasterCard.

Case Study: Popular Jamaican start-up as online Platform

QUESTIONS ANSWERED

Is it possible to deliver a virtual (both local and int'l) shopping experience to Jamaicans?

APPROACH

Form an online shopping company with courier service and merged it with prominent retailers

BUSINESS INSIGHTS/IMPACT

Revoluitionized
e-commerce in
particular ,the courier
service with innovative
packages and a wider
markets to choose from
for consumers .

RESULTS

- 1. Local expanded line to include Grocery and Stationery and a Wholesale club delivering island wide
- 2. Dominate the market with about 65% of total local online purchases with delivery
- 3. Represent a good source of de minimi digital trade info. for both local and int'l.



Of all locally digitally ordered purchases

Key Questions for the Committee



- What recommendations do you have for measuring <u>human capital</u> <u>development</u>
- 2. What legislation in administrative data is most effective in capturing de minimis trade
- We are requesting improved guidance on the rules governing economic vs legal ownership of <u>intellectual property assets</u>
- 4. What recommendations do you have in <u>cloud services</u> in particular the source of imported services
- 5. What recommendations do you have in the treatment of cryptocurrencies and crypto-assets

The Way Forward



2022

• It is recommended that this body of work continues to include country experiences and best practices in the form of case studies. This would enable the manual to go next level in assisting the global community's efforts in estimating economic activity.

Thank you!



Esmond McLean, Senior Economist Bank of Jamaica

esmond.mclean@boj.org.jm

The presenter would like to thank the following institutions for their support













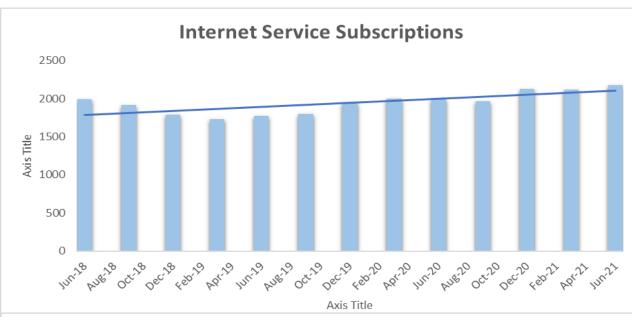
Additional Slides

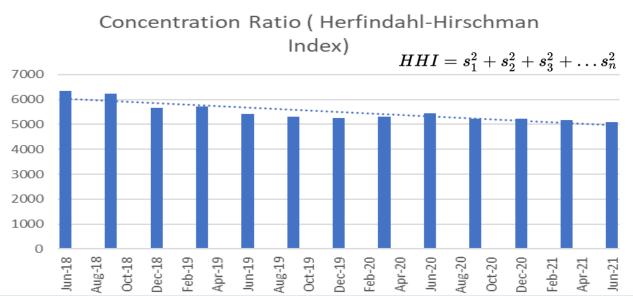
Credit Card Information Survey form extract

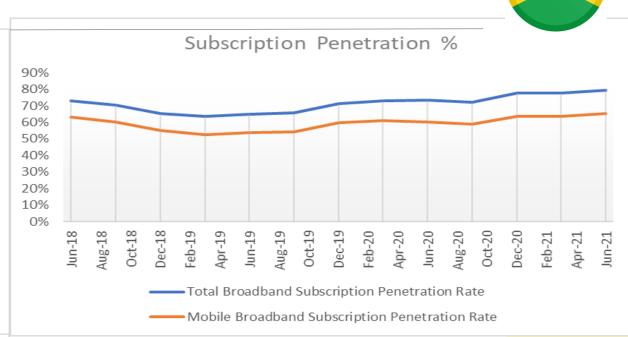


			J	MD			
		Vo	LUME		ALUE MD \$)	VOLUME	
LEVEL CODE	DESCRIPTION	ON-US	NOT ON-US	ON-US	NOT ON-US	ON-US	NOT ON-US
	DEBIT CARD TRANSACTIONS						
.1	OVER THE COUNTER WITHDRAWAL						
.2	OVER THE COUNTER TRANSFER						
.3	AUTOMATED BANKING MACHINE (ABM) WITHDRAWAL						
1.4	AUTOMATED BANKING MACHINE (ABM) DEPOSIT						
.5	AUTOMATED BANKING MACHINE (ABM) CREDIT						
.6	BILL PAYMENT						
1.7	POINT OF SALE						
1.8	TELEPHONE						
1.9	DOMESTIC E-COMMERCE (ONLINE TRANSACTIONS)						
1.10	CROSS BORDER E-COMMERCE (ONLINE TRANSACTIONS)						
.11	MOBILE TOP-UP						
.12	OTHER TRANSACTIONS						
2	CREDIT CARD TRANSACTIONS						
2.1	CASH ADVANCE						
2.2	OVER THE COUNTER WITHDRAWAL						
2.3	OVER THE COUNTER TRANSFER						
2.4	AUTOMATED BANKING MACHINE (ABM) WITHDRAWAL						
2.5	AUTOMATED BANKING MACHINE (ABM) DEPOSIT						
2.6	AUTOMATED BANKING MACHINE (ABM) CREDIT TRANSFER						
2.7	BILL PAYMENT						
1.8	POINT OF SALE						
2.9	TELEPHONE						
2.10	DOMESTIC E-COMMERCE (ONLINE TRANSACTIONS)						

Telecommunications performance







Tourism Information: Satisfaction Survey Results 2020



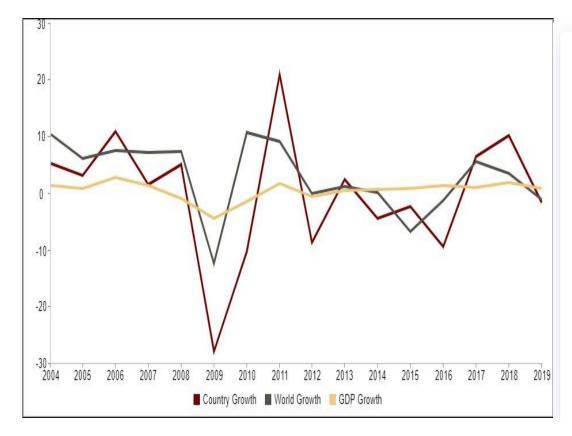


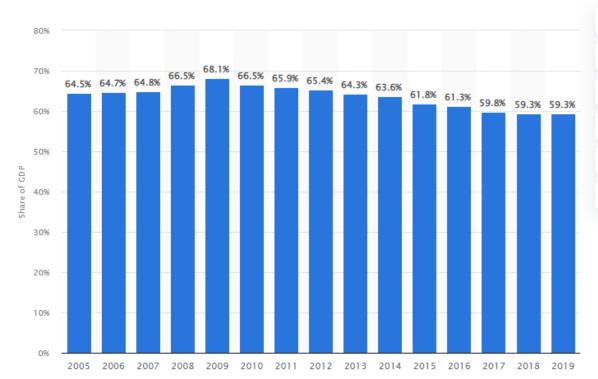
Method used to make reservation

Method used to make	Туре о	Overall		
reservation	First time visitor	Repeat visitor		
Travel Agent	58%	41%	33.0%	
Airline tour package	58%	42%	5.3%	
The Internet	42%	58%	47.0%	
Called directly to the hotel reservation office	41%	59%	9.0%	
Dialled 1-800-JAMAICA	67%	33%	0.3%	
Other	44%	56%	3.0%	

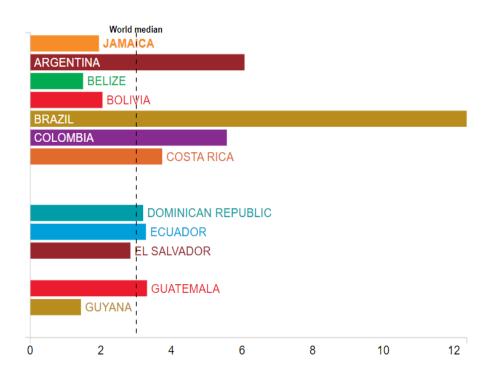
Method used to make reservation by country

Method used to make reservation	Country									
	USA	Canada	UK	Germany	Italy	Other Europe	Latin America	Carib bean	Japan	Other
Travel Agent	31%	45%	36%	25%	0%	43%	33%	11%	35%	50%
The Internet	49%	32%	43%	63%	100%	49%	53%	61%	60%	38%
Called directly to the hotel reservation office	10%	6%	6%	13%	0%	0%	0%	11%	5%	13%
Airline tour package	4%	11%	9%	0%	0%	6%	7%	11%	0%	0%
Dialled 1-800-JAMAICA	0.3%	0.2%	2%	0%	0%	0%	0%	0%	0%	0%
Other	3%	26%	1%	0%	0%	0%	7%	6%	0%	0%

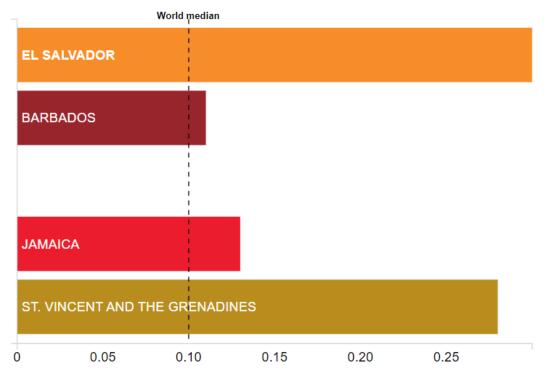




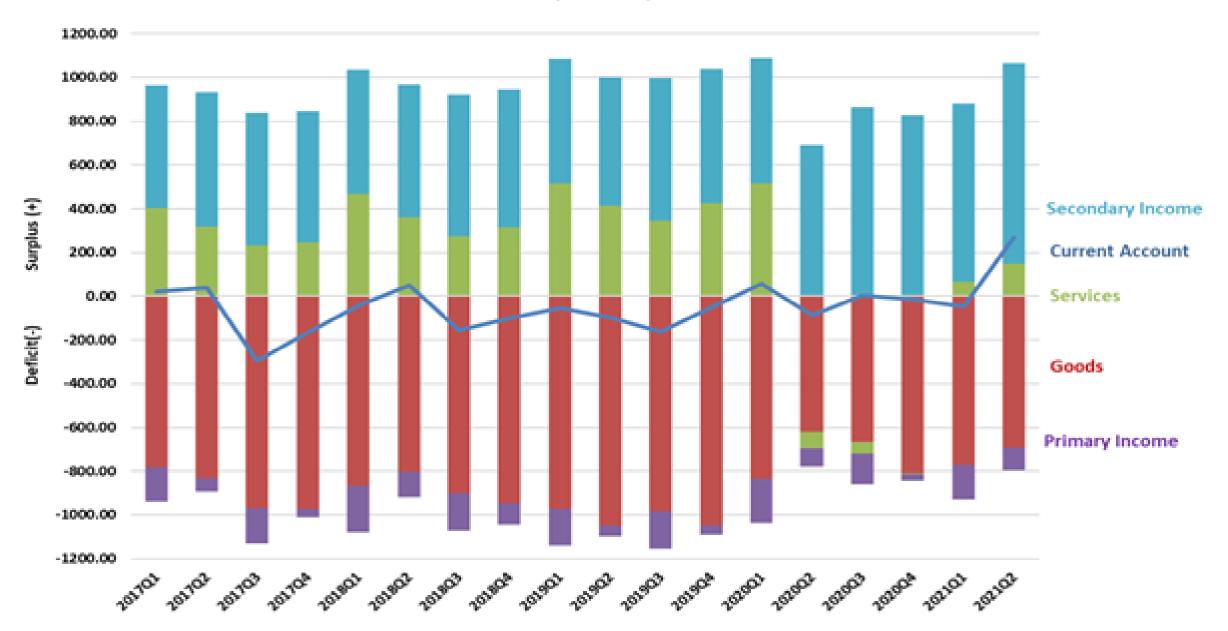
Index of Export Market Penetration



HH Market Concentration Index



Quarterly Current Account and Component Balances (US\$ Mn)



Digital trade and E-Commerce in Jamaica: Key Sectors





Key Indicators

2019/2020



2019/2020



2019/2020









2020/2021



2020/2021







2020



2020



2020



40000 **JOBS CREATED**



2019









VESSEL VISITS







Big Data : Data Scraping/Crawling







