



Riding the wave of information technology

IT Solutions
Software Development
Consultancy

2/8/2017

www.ictual.com





IOT & SMART ISLANDS

ANDREW SOLOMON

MANAGING DIRECTOR



**33rd Annual
General Meeting**



**Jan. 29th to
31st, 2017**

2/8/2017

we may not know the future...
but we can see that technology has
already dramatically changed the
world around us

The world around us has changed



Location: Vatican City 2005



Location: Vatican City 2013

reduction in cost of computing

A wide waterfall cascading over a rocky ledge into a pool of water. The background shows green hills under a clear sky. A small white hand cursor is visible near the top left of the waterfall.

	1990	2013
Cost per M computations <i>Declining 33% annually</i>	\$527	\$0.05
Cost per Gb storage <i>Declining 38% annually</i>	\$569	\$0.02
Cost per 1000 Mbps bandwidth <i>Declining 27% annually</i>	\$1,245	\$16

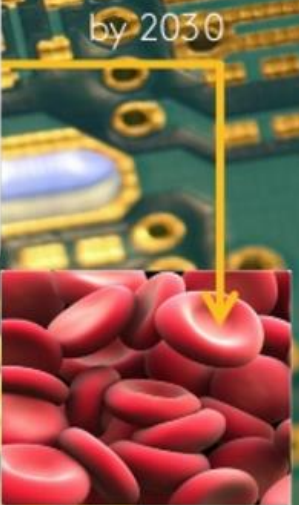
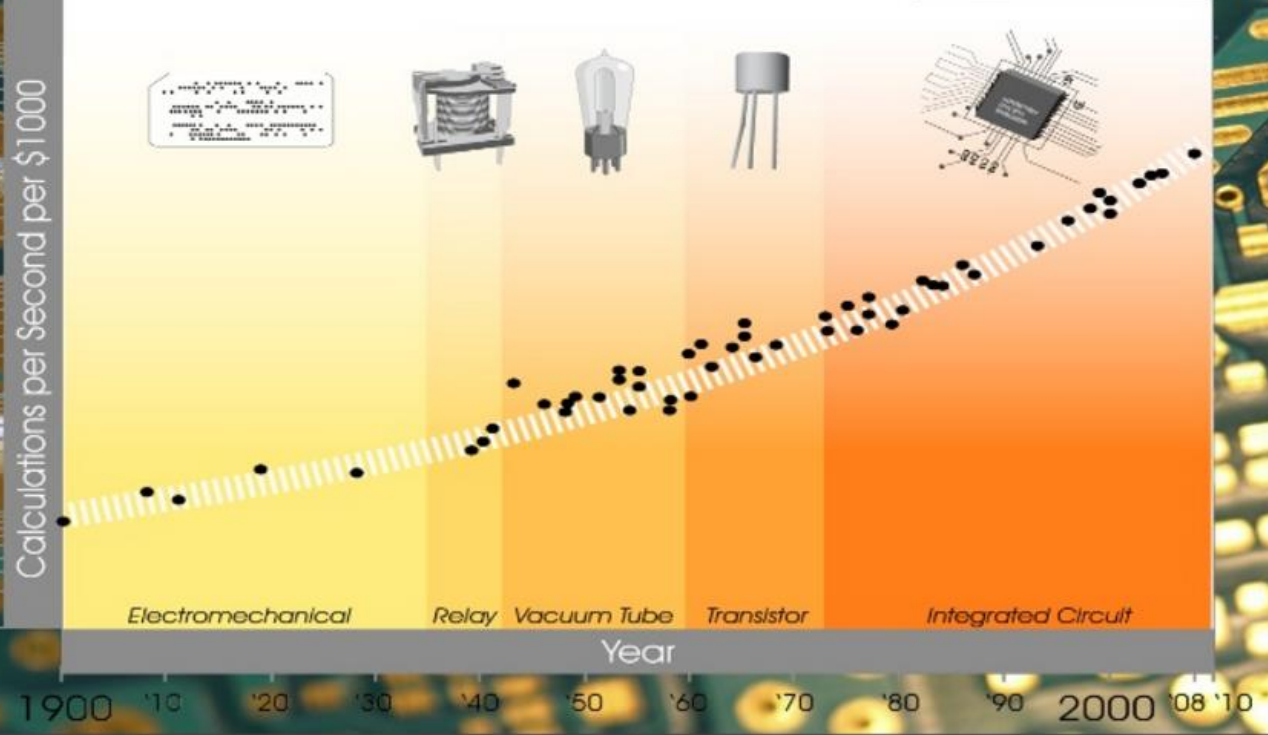
(Source: Mary Meeker @KPCB Internet trends 2014)

computing power is growing exponentially

Exponential Growth of Computing for 110 Years

Moore's Law was the Fifth, not the First, Paradigm to Bring Exponential Growth in Computing

Logarithmic Plot



by 2030

Source: Ray Kurzweil (www.kurzweilai.net)

people are more tech savvy



people are looking for better user experiences



Julie Ask (Forrester Research)

FORRESTER®

Great Apps Pay Off, Good Apps Are Not Enough

Julie Ask, VP & Principal Analyst

Study commissioned by IBM

October 14, 2015



what does all this mean for us here in the Caribbean?

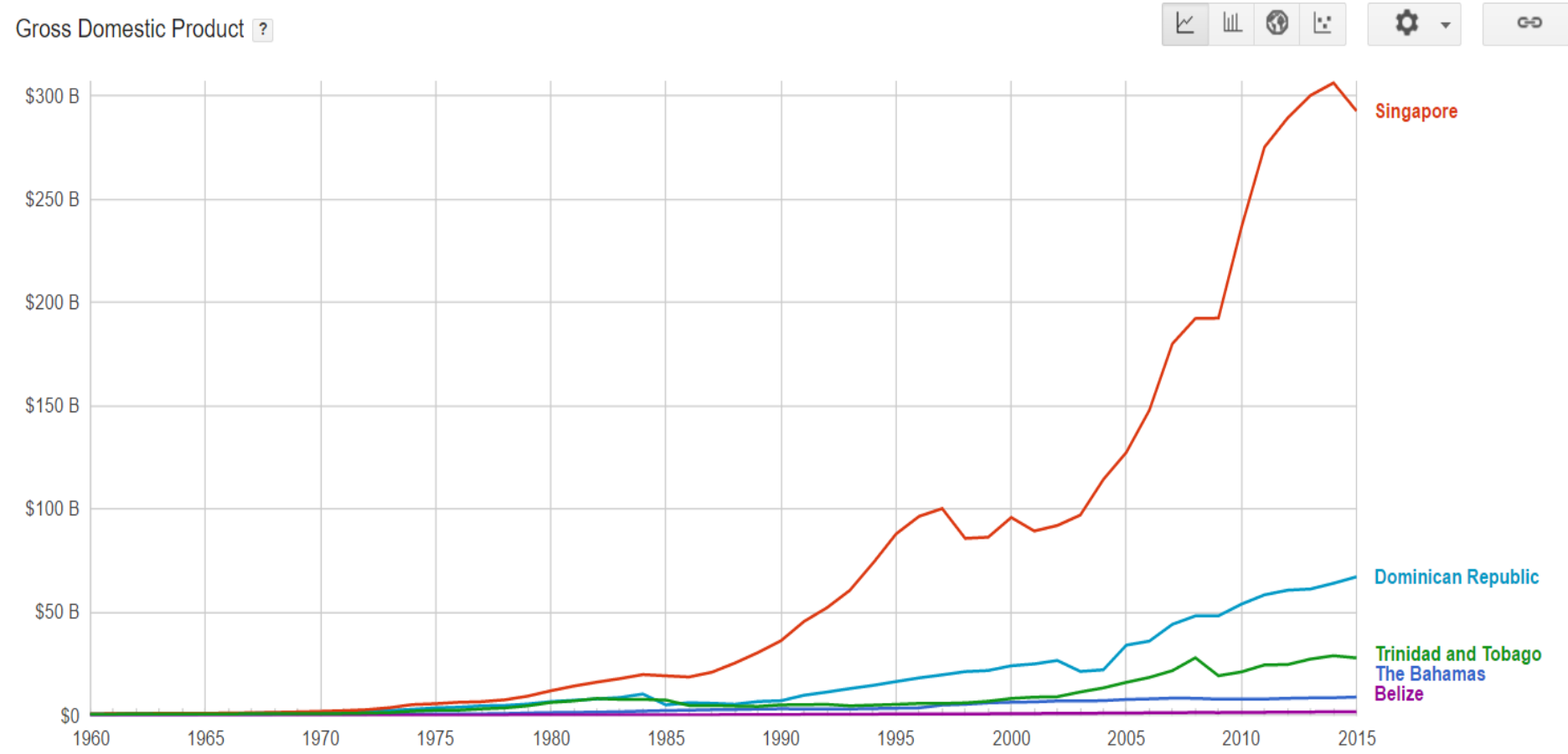
let's look at an inspiring example...
an island similar in size as most Caribbean islands



slimme **steden**



SINGAPORE COMPARABLE?



• <https://www.google.com/publicdata/explore>

IOT & SMART ISLANDS

- **Important statements by Balakrishnan**
- **“if we want to be relevant to the world...”**
- **“we need to understand the internet, AI, robotics, big data, the IOE...”**
- **“it’s about jobs, the quality of life, about the future...”**
- **“we need to take advantage of the opportunity...”**
- **“we are a working model for the future...”**



IOT & SMART ISLANDS

- Can we become “smart *islands*” example?
- Can we become “the *working islands model* of the future”?

IOT & SMART ISLANDS

- **We may or may not have the ambition to become smart islands but...**
- **If we want to compete globally,**
- **If we want to be attractive economies to invest in,**
- **If we want to seize the opportunity of all the developments needed for the IOE,**
- **If we want to be relevant..**

we need to invest in becoming smart islands

The Internet of Things is Already Here





IOT & SMART ISLANDS: TRANSPORTATION

IoT Revenue Opportunity - Worldwide

2018



2014

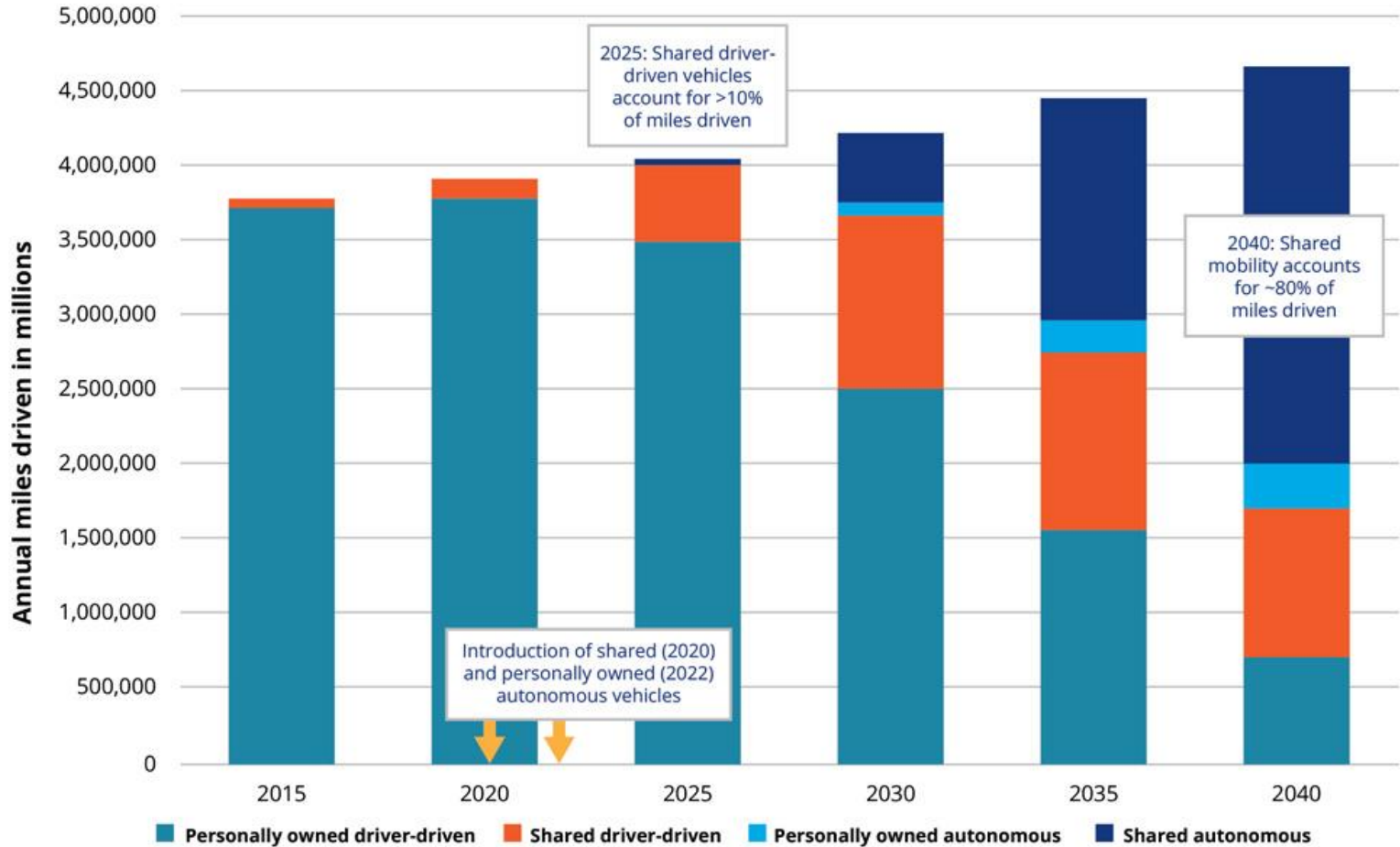


IDC, Internet of Things Spending Guide by Vertical Market, 2014



IOT & SMART ISLANDS: TRANSPORTATION

Figure 2. Forecast of total miles driven in the United States

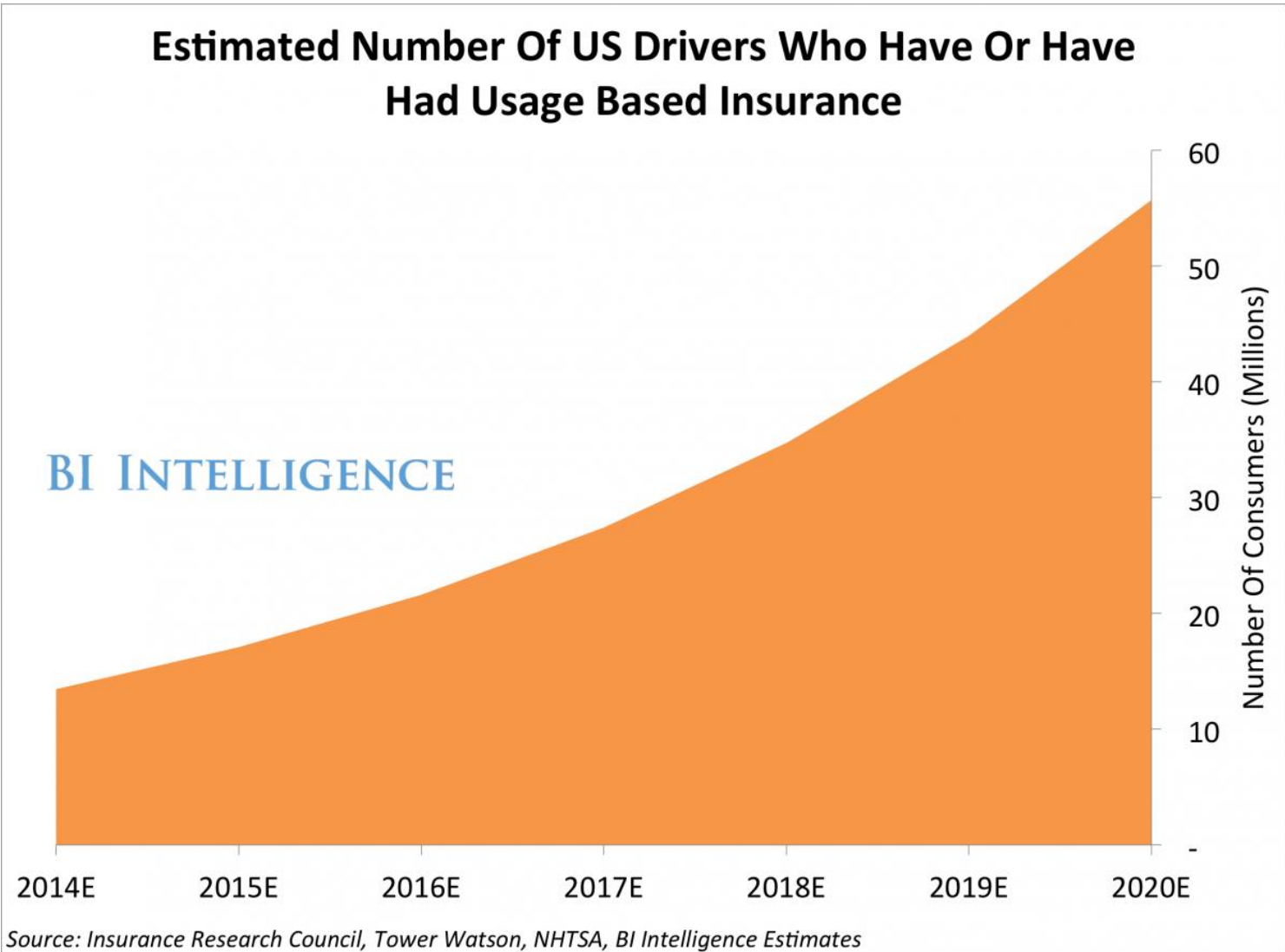


Source: Deloitte analysis based on publicly available information. See appendix for data sources.

Graphic: Deloitte University Press | DUPress.com

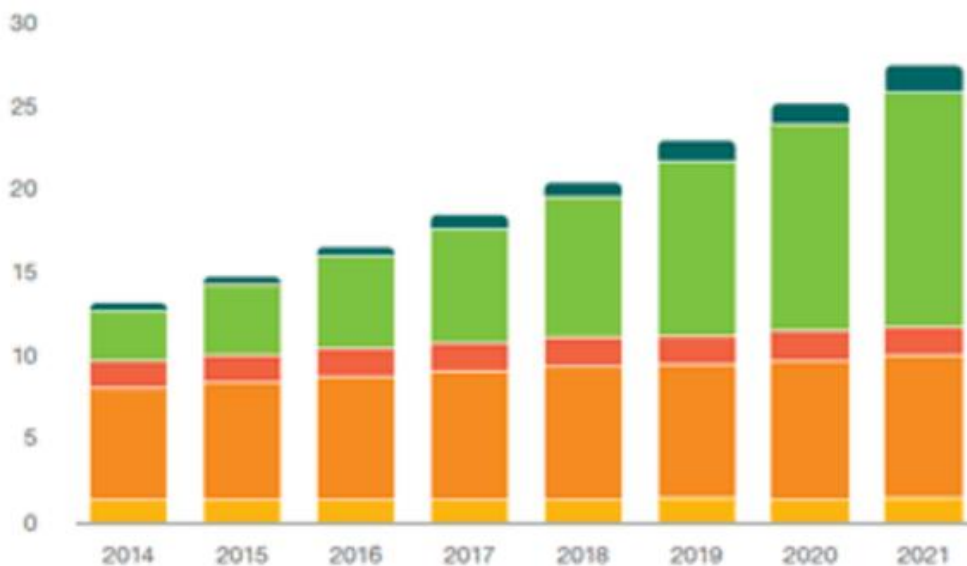


IOT & SMART ISLANDS: TRANSPORTATION





Connected devices (billions)



	15 billion	28 billion	CAGR 2015-2021
Cellular IoT	0.4	1.5	27%
Non-cellular IoT	4.2	14.2	22%
PC/laptop/tablet	1.7	1.8	1%
Mobile phones	7.1	8.6	3%
Fixed phones	1.3	1.4	0%

IoT devices are about to surpass mobile phones as the largest category of connected devices – source Ericsson Mobility Report 2016



WHY SMART ISLANDS?

- The most important reason for us Islanders?





WHY A SMART ISLAND

- We ALMOST live in paradise
- 5 star tourist service?
- What about 5 star citizen service!
- If we really want to live in paradise we might need to work harder but especially *smarter... using ICT*
- We need to jump into the Knowledge Economy together



ICTUAL 'S VISION

- **By creating a smart island**
- **We will become an even more attractive place to live**
- **We will become an even more attractive employer for YDK**
- **Having them come back on the island & preventing Brain Drain**

- **But ... we also need to make sure enough YDK get into the field of ICT in the first place**

ICTUAL 'S VISION

- We need to make the jump into the knowledge economy



SOFTWARE DEVELOPMENT
AND MORE

XLAB Ictual Camp

October 5 - 9

Naf. 100 (incl.ob)

8.00 - 17.00

X-LAB is a youth program, introducing technology to teens in a fun and explorative way. This 5 day workshop is a CITI initiative and will be facilitated by ICTUAL experts and Ricardo Lochan, ICT expert, and Project coordinator of CITI's youth programs.

"Unleash your inner creativity"

For more information, please contact CITI via info@citi.cw, or call +5999 738 6299







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