

GMS Business Council

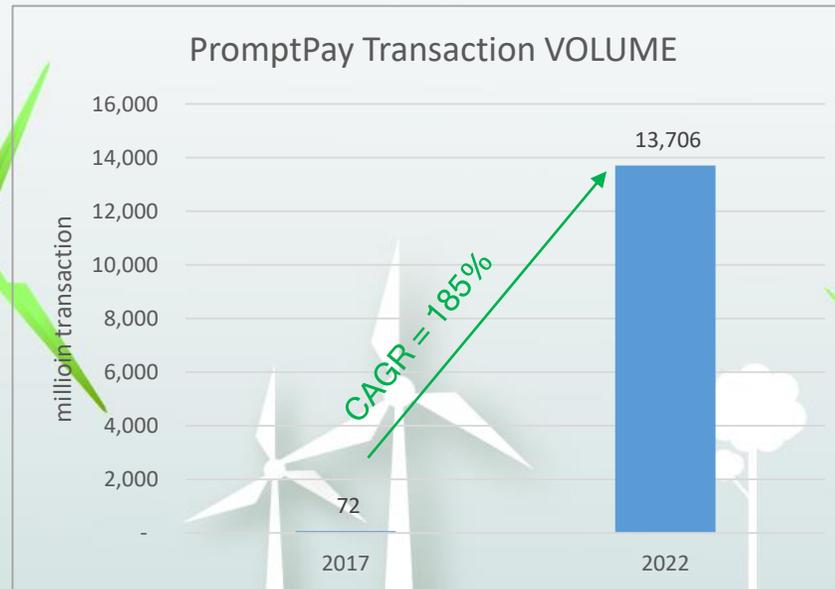
GMS Task Force meeting 25th April 2023

DIGITAL PAYMENT IN THAILAND FOR CLIMATE CHANGE

PRESENTED by NATIONAL ITMX COMPANY

“Switching to digital payments can help us reduce environmental impact by decreasing carbon emission with online payment options and there are rooms to improve digital payments in order to save the planet such as promoting greener digital infrastructure to save energy”

SUSTAINABILITY

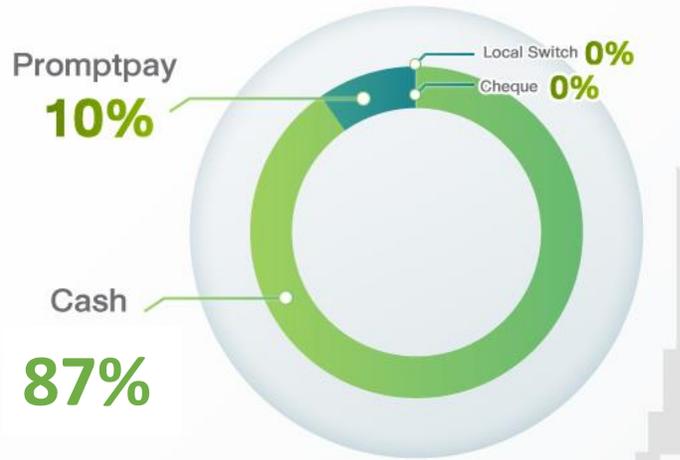


NITMX's PromptPay showcased a CAGR of 185% in terms of transaction volume during 2017 – 2022.

Switching from cash to PromptPay, we could possibly reduce carbon emission more than 2.6 million tons a year.

The CO2 emissions of each payment method

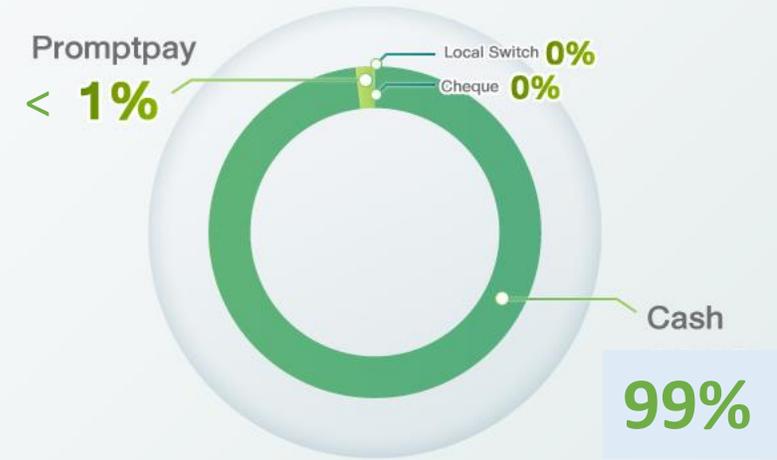
Payment Type/Year (Trx,Qty)



Digital payments generate 10x fewer carbon emissions



Carbon emission/Year (Tons)



Thailand CO2 Emissions

Fossil CO2 Emissions (2016)	Yearly Change	Global Share	Tons per capita
271,040,160 tons	+1.55%	0.76%	3.93

Thailand CO2 emissions 2022 is Approximate **290 million tons** or (4 tons per capita)

Source: Worldometers.info

The evaluation of the CO2 emissions of each payment method:

Payment Type	Transaction (million)	Carbon emission (tons)
Cash	123,354 trx	2,713,788 tonnes
PromptPay	13,706 trx	13,706 tonnes
Debit Card	125 trx	375 tonnes
Cheque	35 qty	525 tonnes

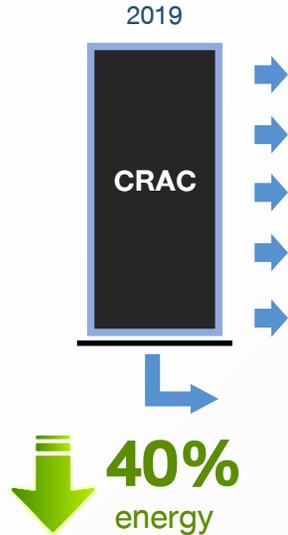
1 ton = 1,000,000 g.

Switching from cash to PromptPay, we could possibly reduce carbon emission by 2.6 million tons a year.

$$\begin{aligned}
 & \rightarrow 2,713,788 - (13,706 \times 9) \\
 & = 2,590,434 \text{ tons} \\
 & = 1\% \text{ of Thailand CO2 emission}
 \end{aligned}$$

Data Centers Save Energy

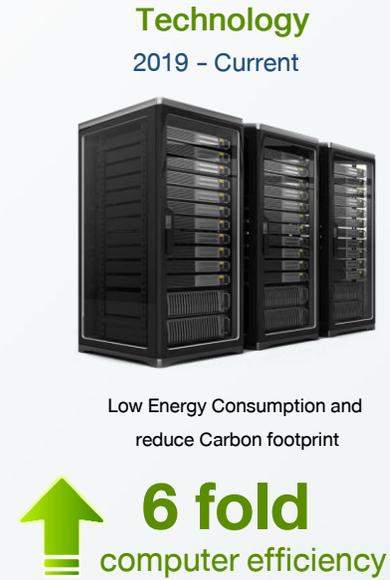
Boost Airflow Management



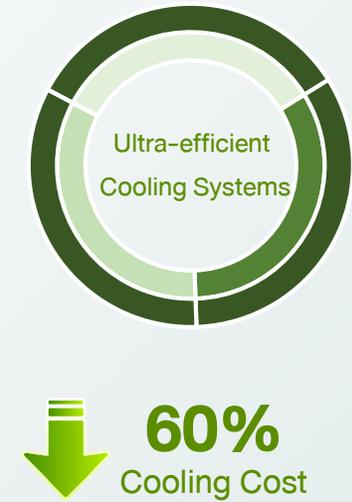
Consolidate and Cloud Infra Server



Improve Processing Technology



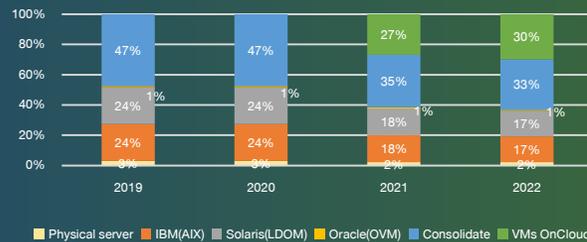
exploring innovation cooling technology



CWT POWER CONSUMPTION(KW)



Logical Server ITMX



Benefit:

replacing an older server with a design the uses today's latest technology and at least 30% less energy

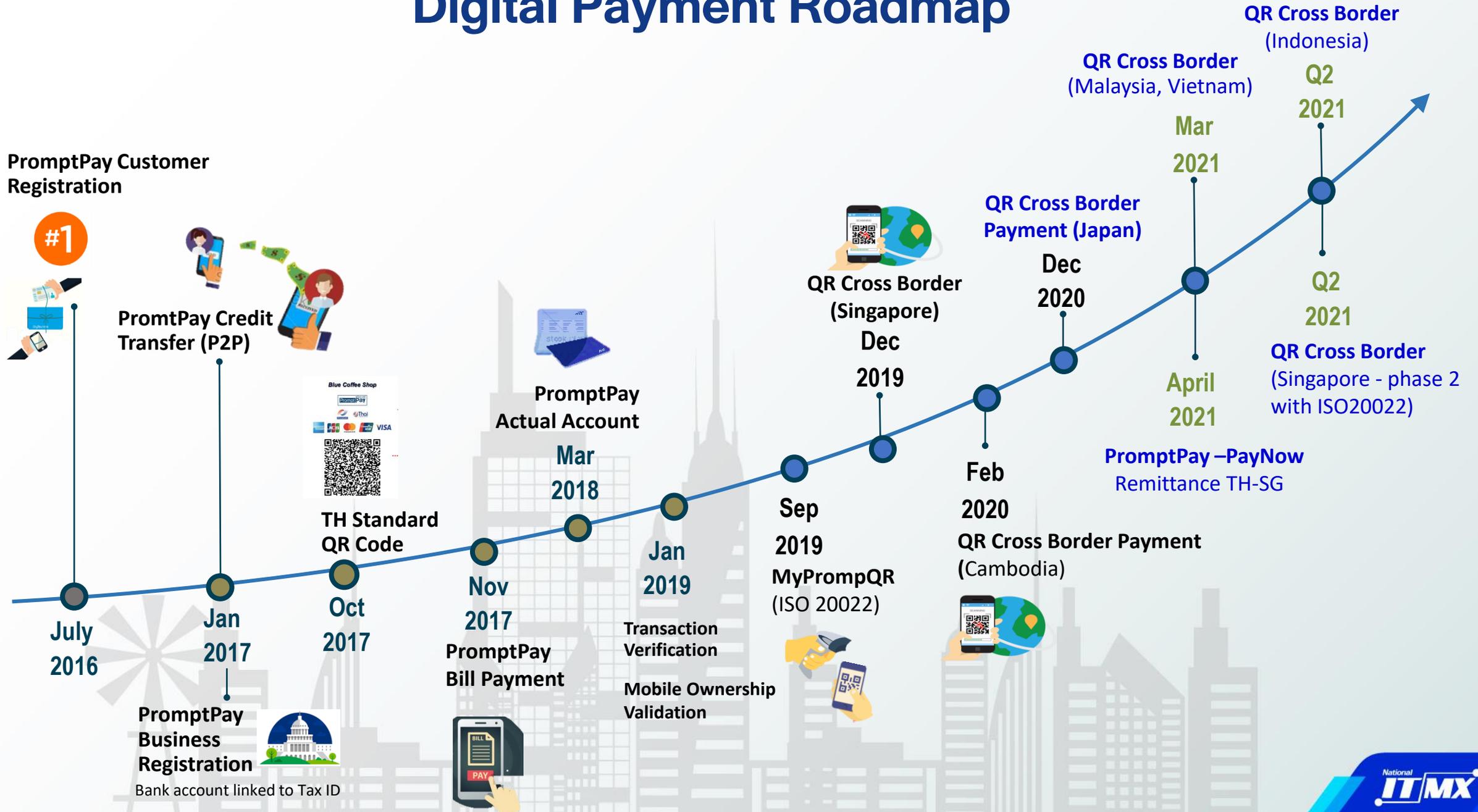


enough electricity to avoid up to 1 ton of carbon emission



saves:

Digital Payment Roadmap



THANK YOU