

# GMS Business Council

---

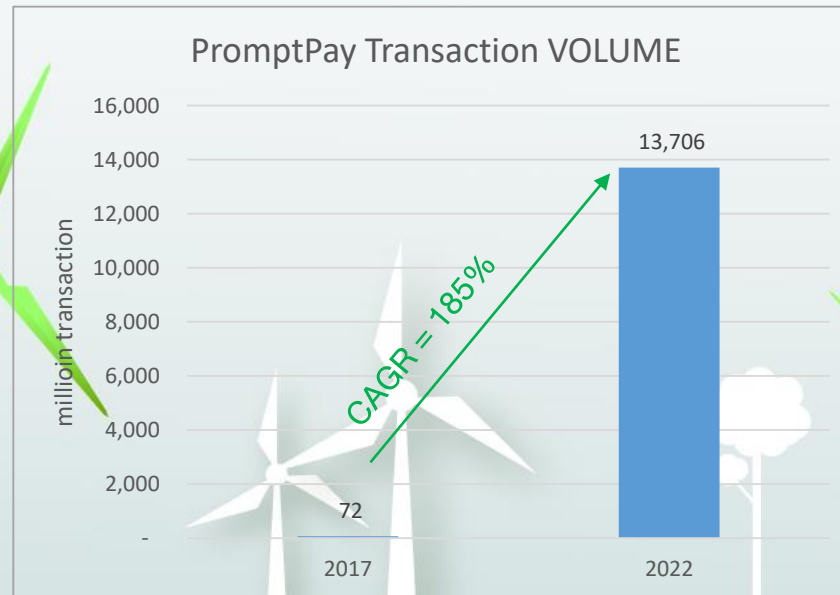
GMS Task Force meeting 25<sup>th</sup> April 2023

## 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

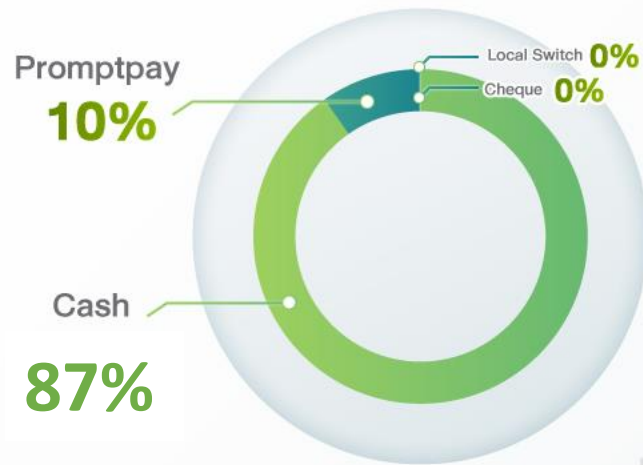


*NITMX's PromptPay showcased a CAGR of 185% in terms of transaction volume during 2017 – 2022.*

*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

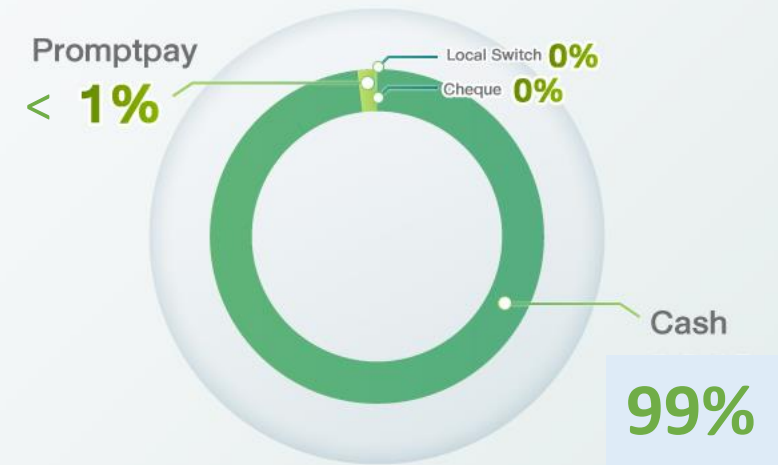
Payment Type/Year (Trx,Qty)



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)	1 ton = 1,000,000 g.	
		Carbon emission (tons)	
Cheque	15 g		
Cash	22 g		
Debit Card	3 g		
Internet payment	4 g		
Account to Account	1 g		
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	

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

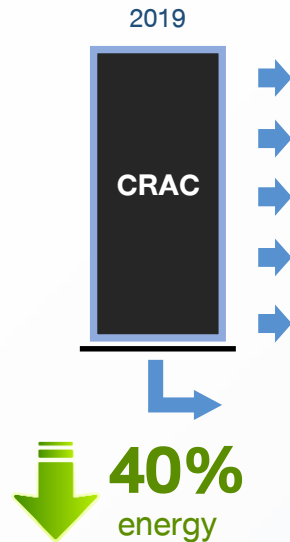


$$\begin{aligned}
 &2,713,788 - (13,706 \times 9) \\
 &= 2,590,434 \text{ tons} \\
 &= 1\% \text{ of Thailand CO2 emission}
 \end{aligned}$$

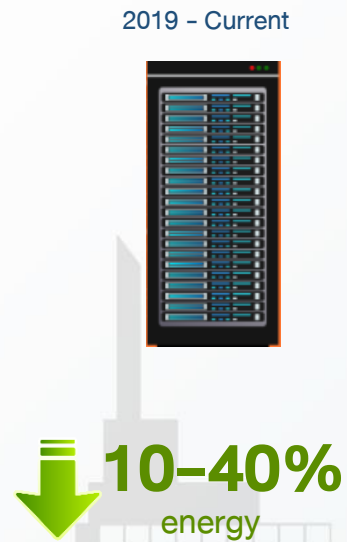


# Data Centers Save Energy

## Boost Airflow Management



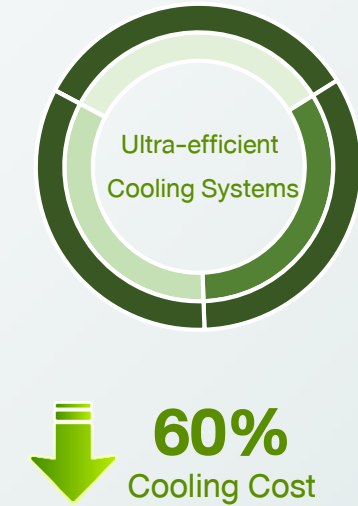
## Consolidate and Cloud Infra Server



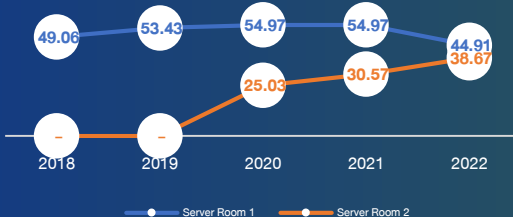
## Improve Processing Technology



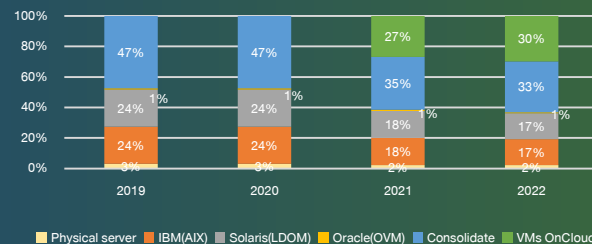
## exploring innovation cooling technology



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

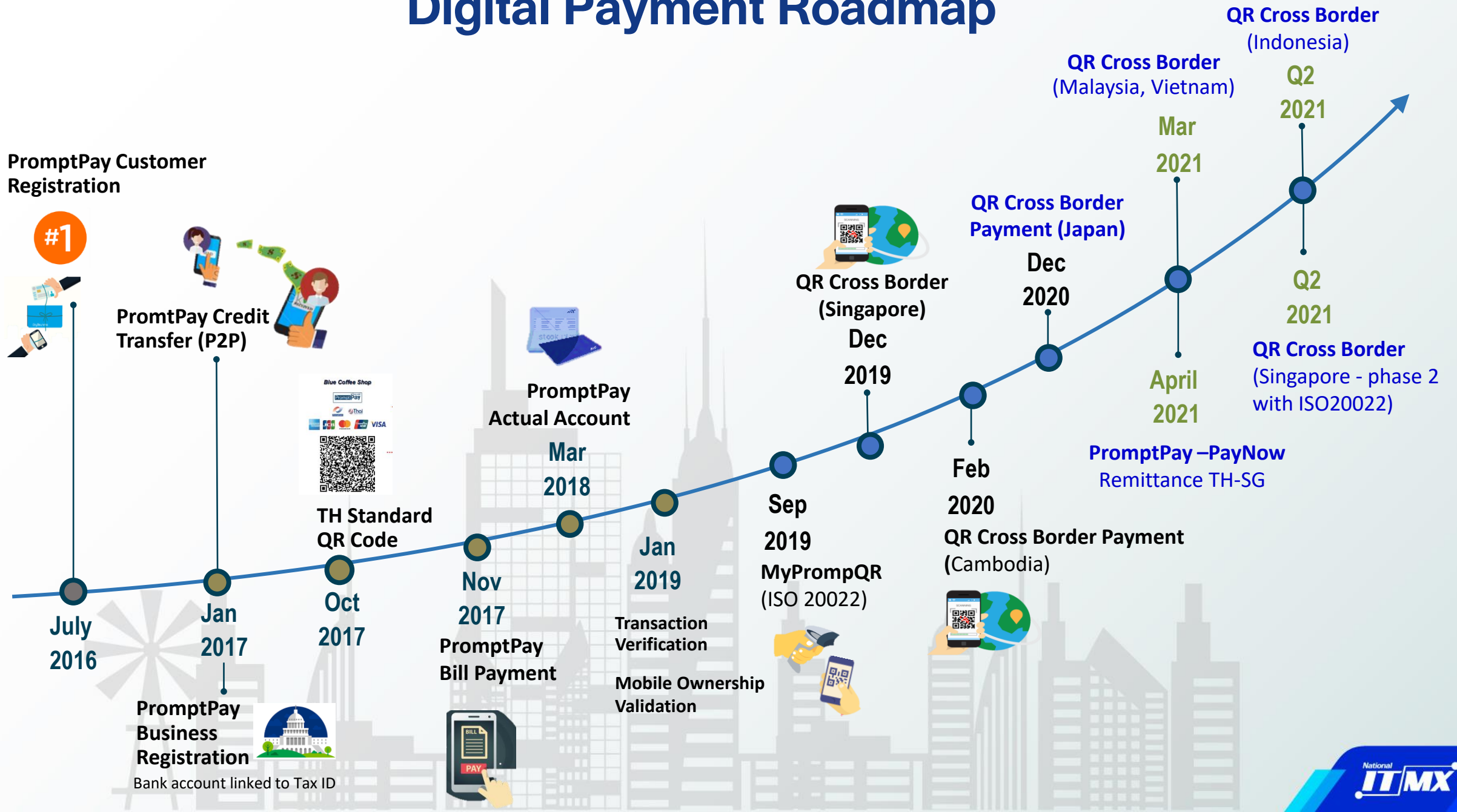


enough electricity to avoid  
up to 1 ton of carbon  
emission



## saves:

# Digital Payment Roadmap



THANK YOU