

# Introduction to HKGIX

Hong Kong Global Internet eXchange



# Calvin ZHANG

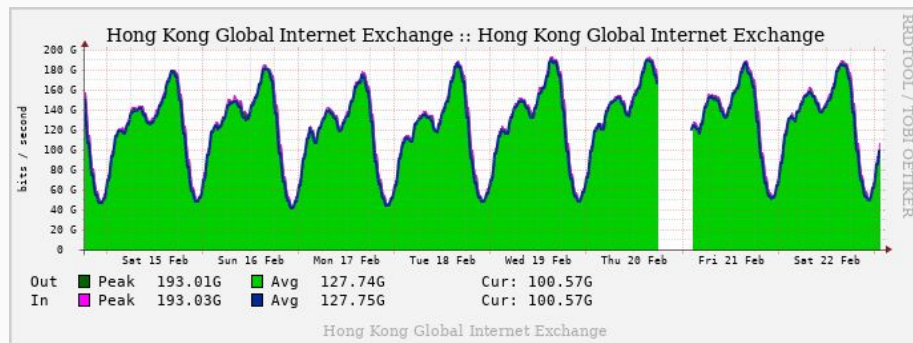
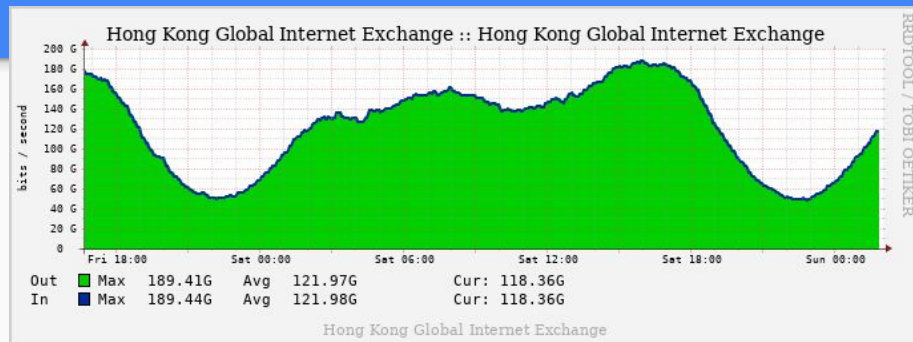
- Studied communication technologies
- Researched and developed 4G prototype systems
- Studied Financial Engineering
- Worked for a securities brokerage and later a hedge fund
- Started Eons Data Communications Limited in 2018

# Eons Data Communications Limited

- Service-Based Operator based in Hong Kong.
- Provides web hosting and internet access services.
- Present in 7 data centers in the metropolitan area.
- Administering HKGIX as a not-for-profit project.

# HKGIX Status Update

- Started in mid 2024.
- 17 members connected, 3 more pending turn up.
- Available from 9 data centers around town.
- Daily peak traffic around 200Gbps.
- IXP for the poor and small.



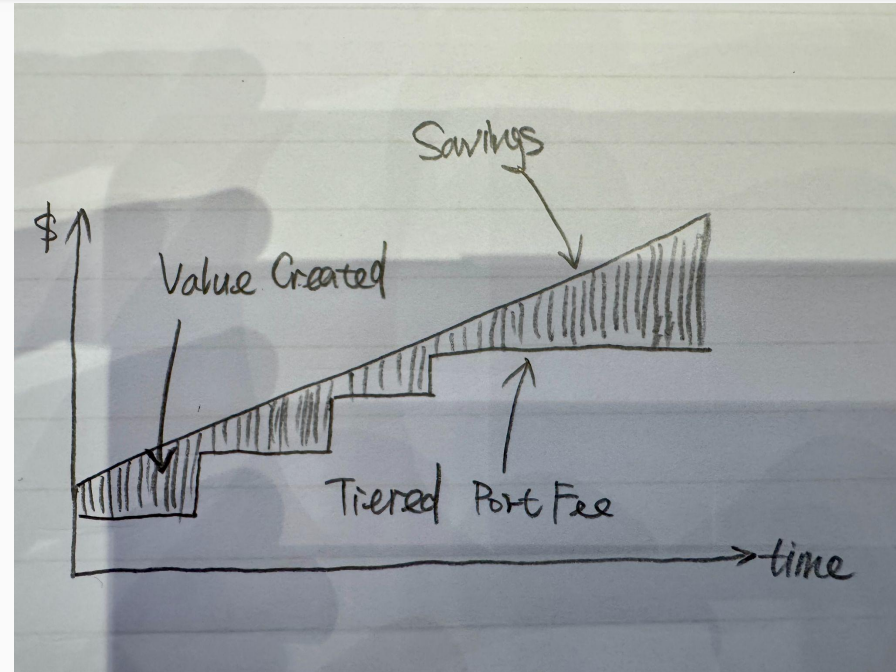
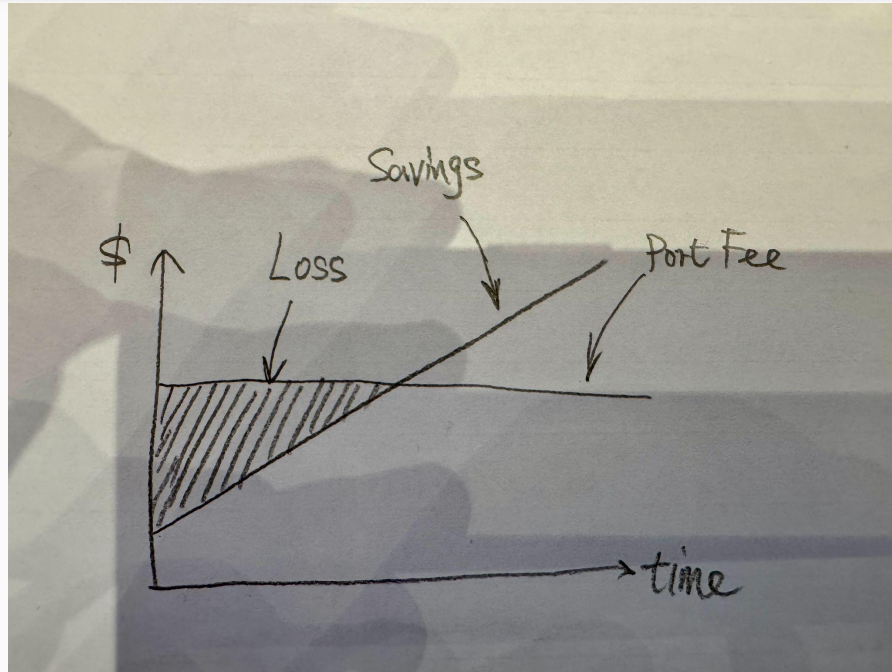
# HKGIX Philosophy

- Low ping IXP is better IXP.
- Cheaper IXP is better IXP.
- Bring values to members first.

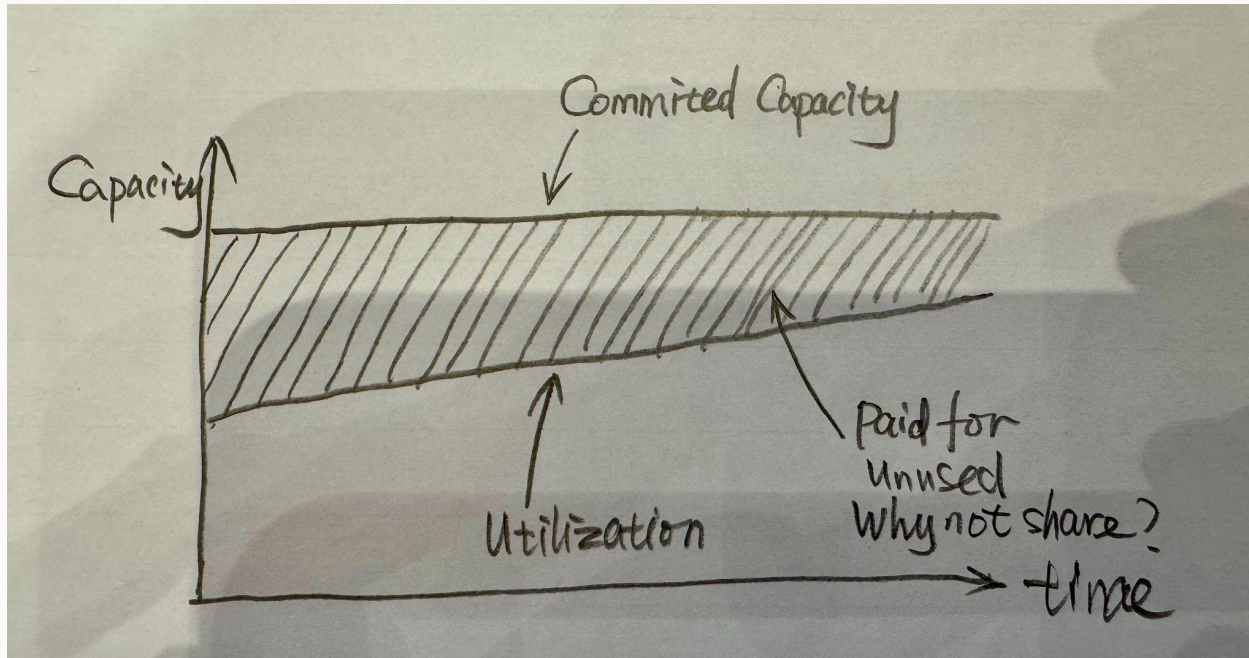
# HKGIX Financial Goals

- Self-sustained. Member payments should cover
  - Power and rack
  - Fibers, waves, and other interconnections
  - Acquisition and upgrade of equipments
- Not there yet

# IXP Economics



# Excess Capacity $\Rightarrow$ Member Value





# Internet Philanthropists @ HKGIX

- AS138997 shares its excess PNI and IXP capacities with members tagged with lower QoS priority.
- AS17433 provides free 1Gbps IP transit.
- AS216458 offers free 100Mbps egress to China eyeball networks via CMI.

# HKGIX Pricing Policy

## Connecting from core sites

- Equinix HK1 / HK2 / HK3
- \$0 port fee
- Free OOB management DIA available upon request
- Traffic level based tiered pricing

Traffic Level	MRC (USD)
Below 2G	Free
Above 2G	\$30.00
Above 4G	\$60.00
Above 8G	\$120.00
Above 16G	\$240.00
Above 32G	\$480.00
Above 64G	\$960.00

# HKGIX Pricing Policy

## Connecting from satellite sites

- HKGIX operated satellite sites
  - Direct connection to switching fabrics
  - Affordable fees
- Member operated satellite sites
  - Low transport costs
  - Avoid high XC costs

Satellite Site	10G MRC	100G MRC
MEGA Gateway	\$100.00	\$700.00
iTech Tower 1	\$100.00	\$700.00
iTech Tower 2	\$100.00	\$700.00
CUG Global Center	\$400.00	N/A
NTT Financial DC	\$200.00	N/A
TGT Hong Kong DC2	\$200.00	N/A

# Help Us Grow

## Participation

- Cloud providers
- CDNs
- Hyperscalers
- Carrier networks

Connect to HKGIX. Let's talk!

## Device donation

- Switches
- Servers
- Content cache

Thanks to Mr. Ren for Juniper QFX5120-48Y. It will be deployed in iTech Tower 2 soon.