

Roaming Costs: how to create a new virtuous circle
2014-05-26
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# ROAMING: TOWARDS A NEW DEAL?

## Roaming or not roaming?



















- Roaming is expensive
- Users don't communicate or communicate 10 times less than usual.

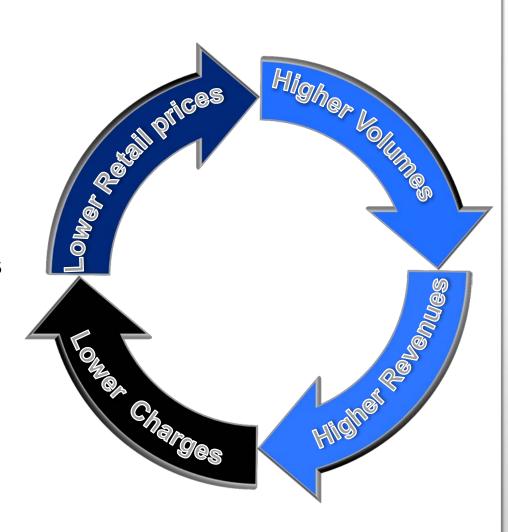
- OTT applications with WiFi connexion will win the race
- Unless...

#### **Create a new Virtuous Circle**



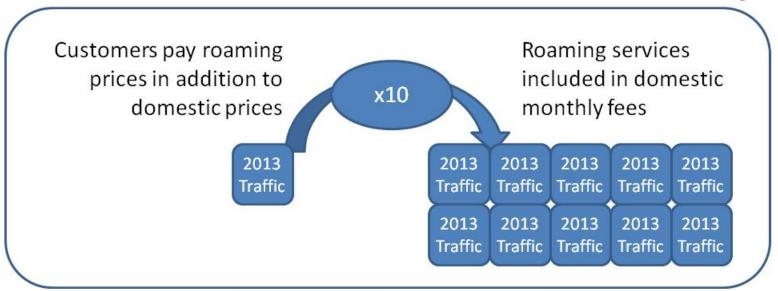
## Roaming <u>MUST BE TIME</u> <u>LIMITED</u>

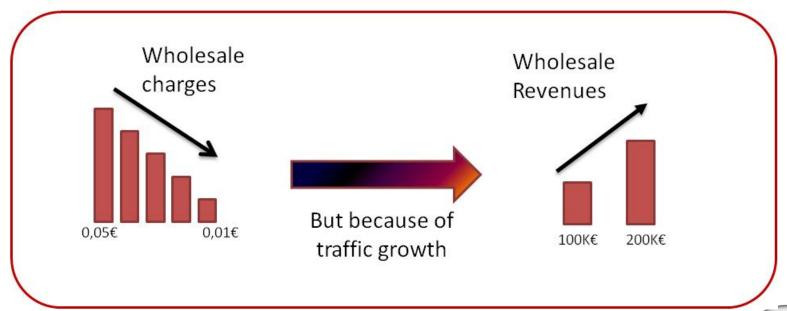
- → To avoid cannibalism and allow profit for Visited MNO
- → To allow profitable roaming services for Home MNO
- → While answering customers needs during their holidays or business trips



### Impact of the new virtuous circle









# COST MODEL: THINK DIFFERENT

## **Roaming Traffic impact on cost**

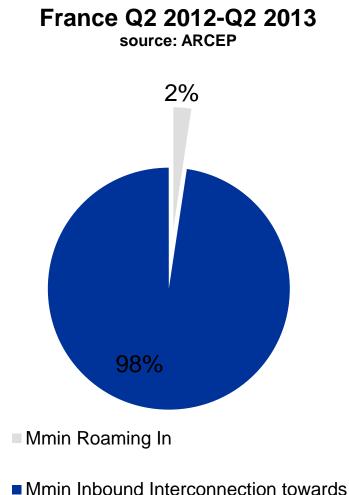


Costs	Roaming traffic impact on cost	
Radio Network	Very Low	HODERATE TO THE TOTAL THE
Core Network	Low	MODERATE AND A STATE AND A STA
Data Clearing House (DCH)	Low	MODERATE PROPERTY OF THE PROPE
GRX (data) transit	High	MODERATE HIGH
SS7 (signalling) transit	Low	NODERATE TO STATE OF THE PARTY
Voice transit	Moderate	MODURATE MADE AND A STATE OF THE STATE OF TH
Voice Termination Fees	High	MODERATE HIGH

## **Roaming Traffic**



- Roaming trafic is a very small part of a MNO network traffic.
- In France, it is about 2% of Inbound interconnection traffic.
- Voice and SMS Termination Fees includes radio and core network costs and are usually « cost indexed »



**MNO** 

## **Roaming Cost – Voice & SMS**



Voice roaming costs shall be around

Visited Termination Fee + International Transit + Destination Termination Fee

If Visited Termination Fee is regulated and directly related to costs Roaming SMS (MO) costs shall be around

Visited SMS Termination Fee

## **Roaming Costs - Data**



Data cost should be around
 Visited Voice Termination Fee + GRX costs

- Assumption:
  - → Voice bandwidth (codec + IP overhead) = 100Kbits/s = 0,1Mbits/s
- Calculation: Cost per MB = Termination Fee \* 8 bits

**Voice Bandwidth \* 60s** 



## **CONCLUSION**

#### **Conclusion**



Roaming Costs are not as expensive as we may think, especially if time limited to reduce risks.

- New Business Model can be deployed, based on less costs and higher volumes
- Target costs shall be close to Termination Fees

If nothing is done, roaming will die and OTT through local 3G or Wi-Fi connexion will win.