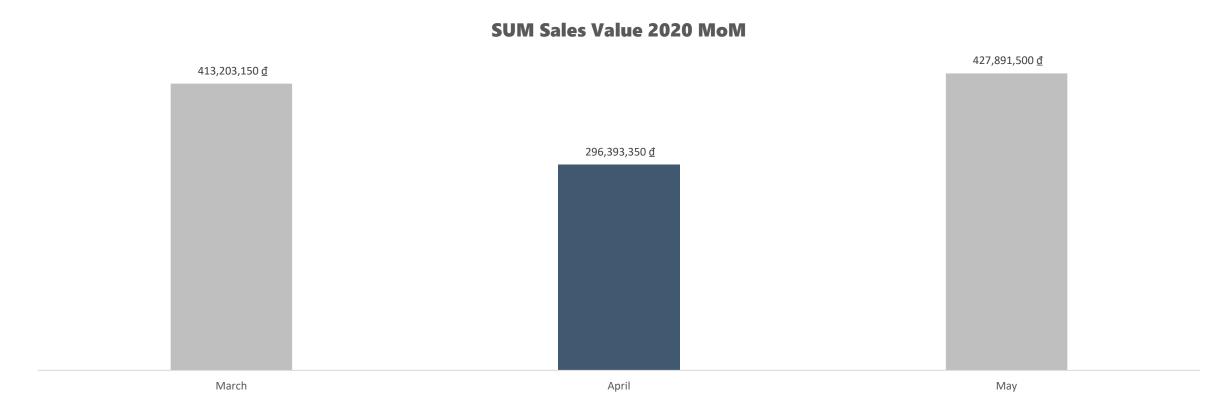
Vending Machine Capstone Project: Improvement Opportunities Regarding Location

by Dao Thanh Dat

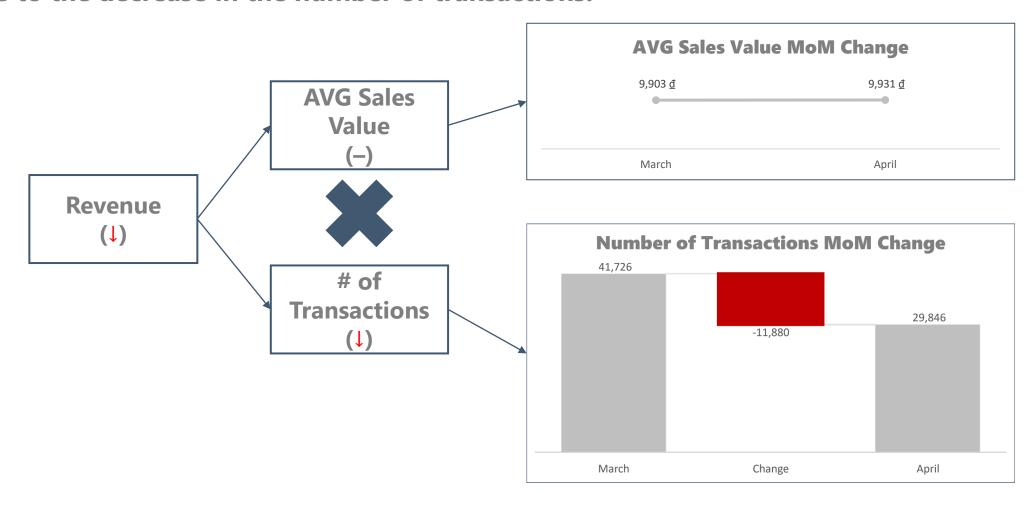
Sales dropped by 117 mil VND in Apr 2020.



April witnessed over 100 mil VND loss compared to March & May. This was over 25% of the normal market conditions' figure.

Sales MoM dropped in April

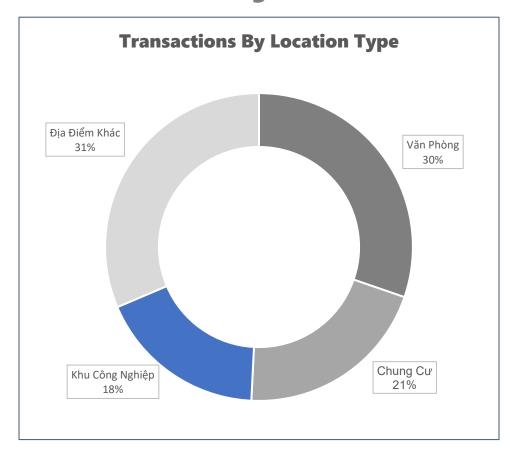
due to the decrease in the number of transactions.

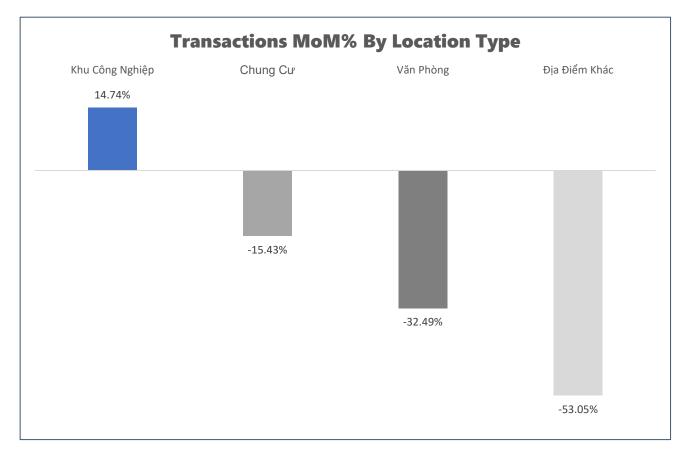


#1: Increase Transactions in Industrial Zone.

Machines at industrial zone always generated top 3 Transactions Count.

During April, industrial zone was also the only location type that had positive MoM% Transactions change.





#1: Increase Transactions in Industrial Zone.

For each transaction, revenue is expected to increase by 11,423 VND, OR:

1.1474 (Principal + Expected Growth Rate) x 9,955.45 (AVG Sales Value)

Industrial zone is expected to have a revenue of 72 mil VND in June, OR:

1.1474 x 9,955.45 x 6,317 (# Transactions in May)

IF there is another society-wide isolation next month

AND nothing is changed about Skillhub's operation.

This would increase the revenue from May's figure by 13% OR 8.5 mil VND.

Statistics Table			
Loại địa điểm	AVG Sales Value ▼	Transactions MoM%	# Transactions
	9,955.45 <u>đ</u>	44.70%	20449
May	10,076.14 <u>d</u>	-16.34%	6317
April	9,926.63 ₫	14.74%	7551
March	9,872.66 ₫		6581
Total	9,955.45 ₫	44.70%	20449

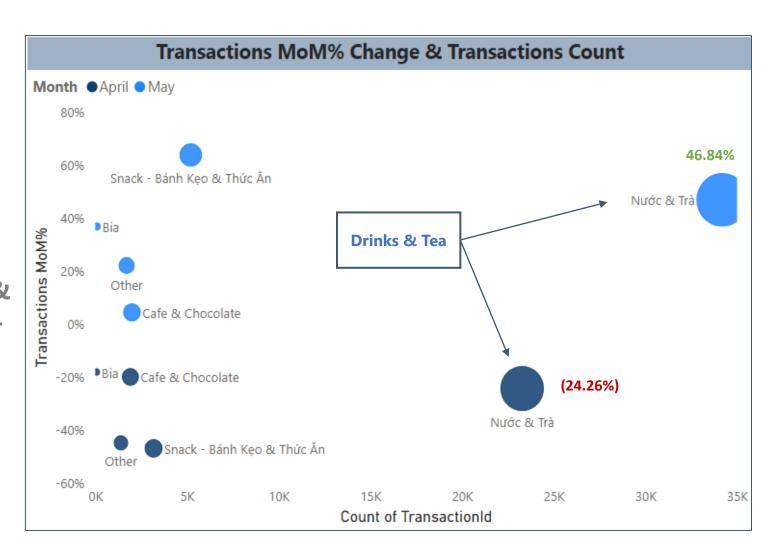
#2: Increase Transactions in Drinks & Tea

Despite April witnessed 24.26% decrease in Transactions MoM% Change.

Drinks & Tea were accounted for over 78% of Monthly Total Transactions every month.

Focusing on the staples - drinks & tea and cutting back on the long-tailed product (low volume, negative Transactions MoM%) is crucial in uncertain time.

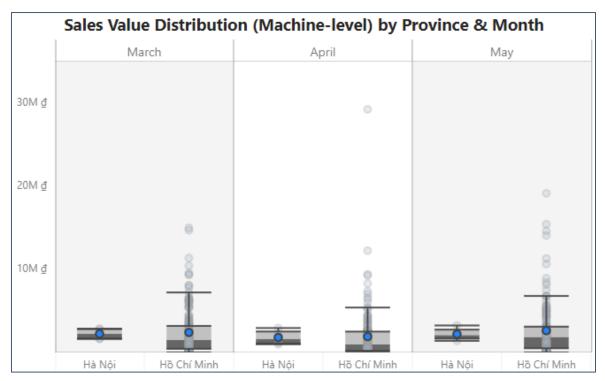
Keeping this growth rate would lead to an incremental 156 mil VND.

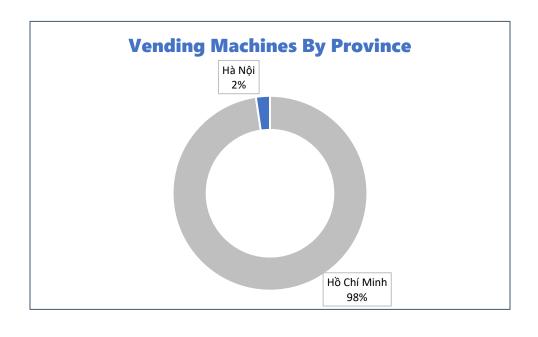


#3: Increase Machines (Hanoi)

will also leads to an increase in sales:

(SUM Sales Value) = (AVG Sales Value By Machine) X (# of Machines)



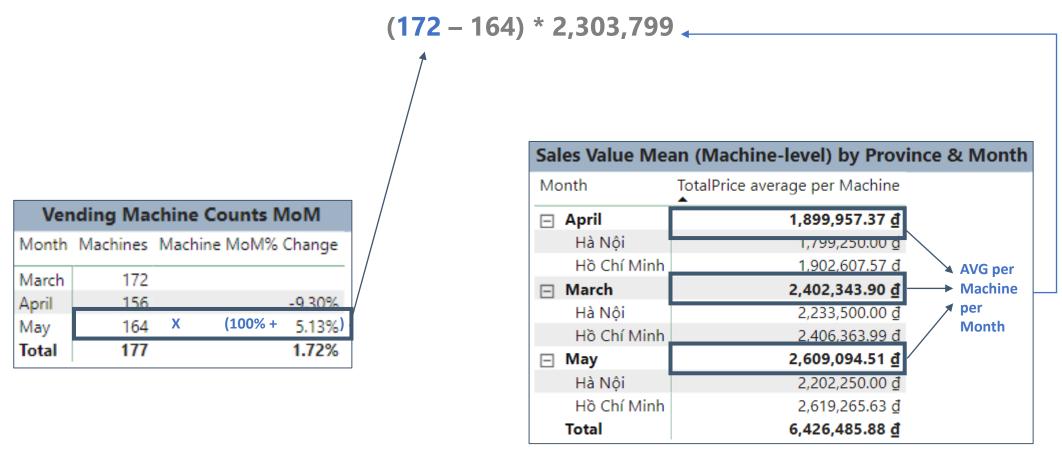


Hanoi has a similar AVG Sales Value By Machine MoM (difference btwn 200,000 – 400,000 VND) BUT has only 2% of total vending machines.

With every new machine setup in Hanoi, the expected monthy revenue is over 2 mil VND.

#3: Increase Machines (Hanoi)

With May Machines Count MoM% Change of 5.13%, the number of machines is expected to be 172 and expected increase in revenue would be 18 mil VND, OR:



Aha Moment

Focusing on key location type, products, and region could contribute from 180 mil VND to Skillshub's monthly revenue *OR* 42% of revenue in May.

Solutions & Next Steps

- 1. Increase number of transactions: push marketing in industrial zone. Industrial zone is less affected by the society-wide isolation.
- 2. Focus on drinks & tea product category and reduce other products. The products are staples and contributes a huge percentage to transaction counts and revenue.
- 3. Set up machines in Hanoi: spread out the risk in case there would be district-wide or province-wide isolation in Saigon.