

Summary of Previous Discussion

- *Penetration of bonus cards is 20 – 30 % of entire base. Thus majority subscribers do not use any bonus cards.*
- *Typically subscribers prefer single type of bonus cards and not a combo.*

This is exhibited in both circles.

- *The popularity of combos remain consistent month on month.*
- *The type of combos that are popular differ from place to place.*

MP exhibits affinity to local and STD products while Kerala exhibits affinity to Data products.

- *Details of both given in excel sheet attached.*

Feedback

- Data indicated presence of latent factors behind products being consumed.
- More in depth study of subscriber usage patterns along with recharge patterns needed to be done to clearly understand recharge behavior.

Way Forward

- Cluster subscribers based on local, std, onnet, total, sms and data usages.
- See how clusters are different in MP and KL
- Identify key recharge behaviors in each of clusters.

Understanding the characteristics of subscribers in MP vs KL (univariate findings)

- KL bonus users are more data savvy than MP
 - Median MP : 54.74 MB vs Median KL : 143.53
- KL bonus users are heavier ISD users compared to MP
- MP bonus users have higher recharge frequency for bonus cards
 - Median MP : 2 bonus rchgs vs Median MP : 1 bonus rchgs
- KL bonus users use higher local MOUs as compared to MP
 - Median MP 89.9 min vs Median KL : 134.4 min
- ARPUs of KEL users are higher as compared to MP
 - Median MP: Rs 148.93 vs Median : Rs. 285.7

Understanding the characteristics of subscribers in MP (Multivariate Findings)

- Subscribers clustered on usage KPIs
- 8 major clusters

HIGH_N_BONUS_RCHG_CNT + MODERATE_KPIS (Count : 362240) (Data or Local Products)

HIGH_DATA+HIGH_COUNT_RCHG+HIGH_ARPU (Count : 82814) (Data Products)

VERY_HIGH_LOCAL + HIGH SMS+VERY_HIGH_ARPU (Count: 36707) (Local Products)

VERY_HIGH_SMS+HIGH_COUNT_RCHG+HIGH_ARPU (22242) (SMS Products)

VERY_HIGH_STD+LOW_ARPU (Count : 17963) (STD Products)

VERY_HIGH_DATA+HIGH_ARPU (Count : 16058) (Data Products)

VERY_HIGH_LOCAL_ONNET+HIGH_N_BONUS_RCHG_CNT+HIGH_ARPU (Count 13895)

(Local Products)

VERY_HIGH_STD+HIGH_RCHG_CNT+VERY_LOW_ARPU (Count: 7077) (STD Products)

Understanding the characteristics of subscribers in KL (Multivariate Findings)

- Subscribers clustered on usage KPIs
- 8 major clusters

MODERATE_KPIs (Count: 464440)(**Data** or **Local** Products)

HIGH_DATA+HIGH_ARPU (Count: 170338)(**Data Products**)

VERY_HIGH_DATA+VERY_HIGH_ARPU (Count: 45018) (**Data Products**)

VERY_HIGH_LOCAL+VERY_HIGH_RCHG+VERYHIGH_ARPU (Count: 32101) (**Local** or **Data Products**)

VERY_HIGH_STD+VERY_HIGH_RCHG+VER_LOW_DATA_VERY_LOW_ARPU (Count: 27601)

(**STD Products**)

HIGH_ISD+HIGH_ARPU (Count: 22244) (**ISD** or **Data Products**)

VERY_HIGH_SMS+VERY_HIGH_RECHARGE+HIGH_ARPU (Count: 20419)(**SMS Products**)

VERY_HIGH_STD+VERY_HIGH_RCHG+VER_LOW_DATA_VERY_LOW_ARPU (Count: 16456)

(**STD Products**)

Multivariate Findings(MP & KL)

- Subscribers in a particular cluster take different products. Need of subscriber to take a particular product is not effectively captured in all clusters.
- Number of products have negative net_arpu. **Not necessary that only bad popular products can hurt overall margins.**
 - Ex. Some products have equal contribution off positive and negative ARPU subscribers and hence their overall health appears low. Typical of STD products.
- Comparison of clusters across geographies shows diversity in need and usage.