## Common Metrics

- Engagement:  $CTR = \frac{clicks}{impressions}$ , DAU/WAU/MAU = Curr + New + Resurrected Churned
- Sales: MRR/ARR = tracks momentum → predicts future growth = Curr + New + Resurrected + Upgrades Downgrades Churned
- Growth: CLTV =  $\frac{\text{avg monthly rev per cust}}{\text{monthly churn rate}}$ , CAC = cost to acquire customer  $\rightarrow$  segment by channel, Cost per Lead
- Retention: Stickiness  $(\frac{DAU}{MAU}, \frac{WAU}{MAU}) = \%$  of days/weeks in a month product used, 30/60/90 day retention, Churn Rate, NPS
- 1. Diagnose Problem underperforming metric find root cause, e.g. why driver ETA up 3min? why FB friend requests down 10%?
- Metric: fractional (num vs. denom,  $\frac{\text{comments}}{\text{users}}$ ), subset (tot usrs vs. active vs. unique), decompose (DAU = Curr + New + Resurrected Churned)
- Temporal: suddenly or progressively Product Line: are other metrics/products affected? recent change to other products → cannibalization?
- Trigger: internal (bug, corruption, outlier, model update) or external (season, competitor, industry trend, day of week)
- Cohort: usr activity Segment: decline isolated to segment? (usr age {new/old}, acquisition {organic/paid}, region, browser, age, time)
- Funnel User Journey: steep drop in conversion rate at any step in funnel? (compare funnels across segments or different usr paths)
- Propose Graph: churn/retention graph, conversion funnel, cohort analysis, bar graph, line chart
- 2. Measure Product Success/Tradeoff e.g. how to measure success of Yelp reviews? was adding stories to Instagram a good idea?
- How Product Ties Into: 1. Mission 2. Biz Goals: B2B = sales, Social Media = engagement, Marketplace = retention (CLTV), Startup = growth
- Discuss User Journey to Brainstorm Metrics: 1. product acquisition (discovery) 2. conversion 3. engagement (usage)
- Track Metrics: suggest dashboard metrics that track product health within categories: 1. engagement 2. revenue 3. growth
- 3. Improve Product e.g. how to improve Whatsapp? how to increase engagement on FB?
- Clarify: 1. Goal (what to improve: engagement, retention, revenue) 2. Scope (narrow if broad down to one product/feature)
- Brainstorm Features: 1. viz usr journey /w product (off page = reduce friction to find it, on page = increase awareness of it, on page & aware =
- decrease friction to use it, off page = send reminders) 2. segment usrs, gather data on usrs in each segment to investigate why (new usr,
- old usr never used, old usr not used in awhile, old usr frequently uses)
- Prioritize Features: estimate bottom-line impact Determine Success of New Feature: determine success/guardrail metrics → run A/B test