

Intelligent marketing made happier

### **Cross Screen**

is becoming increasingly important given the diverse user behaviors & patterns across devices.

19% of global users have both smartphone and tablet.

Usage of smartphone vs. tablets is highly dependent on time of day & day of week.

### **Ad Format**

With the exception of Southeast Asia,

### Rich media

is the best performing ad format across both smartphones and tablets.

### **Executive Summary**

### **Screen Size**

Data based on user behaviors across different screen sizes suggests an increasingly targeted strategy.

Consumer preference for **screen size is shifting towards the middle**; there is a growing number larger mobile phones and smaller tablets.

**Smaller screen** sizes, regardless of device type, show **higher CTR** potentially due to larger 'share of screen' on smaller screens.



Source: Statista & Appier | Period: 2014



### User behaviors across devices are extremely complex and cannot be predicted without leveraging AI & Big Data automation

56%

of users demonstrate highly similar behaviors (95%) across their tablets and mobile phones

23%

of users show completely different behaviors on their smartphones vs. tablets





usage of smartphones vs. tablets at various times

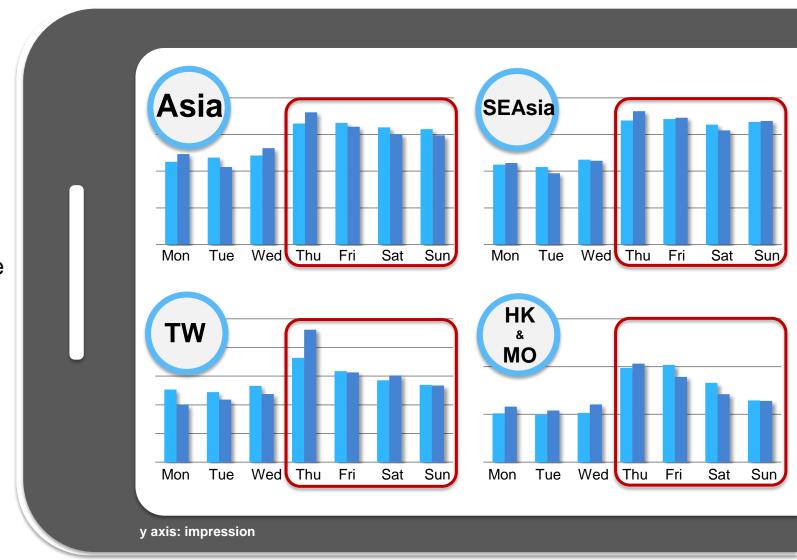


# Advertisers need to be prepared to capture the surge in weekend mobile traffic, which begins early on Thursdays.

Usage of Smartphone & Tablet

(Day of Week)

- smartphone
- tablet



### Smartphone traffic is generally higher on the weekends, with Fridays being the highest in volume for most markets.

Asia **SEAsia** 6x-6x 2x Sun Wed Thu Fri Sat Tue Wed Thu Fri Sat Sun Tue Mon HK TW 6x 6x -2x 2x Sat Sun Wed Thu Sun Mon Tue Wed Thu Fri Mon Tue Fri Sat y axis: impression

**Usage of Smartphone** 

(Day of Week)

#### Similarly, tablet traffic is generally higher on the weekends.

However, unlike traffic on smartphones, tablet traffic is the highest on Thursdays.

Asia **SEAsia** 6x 2x 2x Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon 10x HK TW & Wed Thu Fri Sat Sun Wed Thu Fri Sun Mon Tue Mon Tue Sat y axis: impression

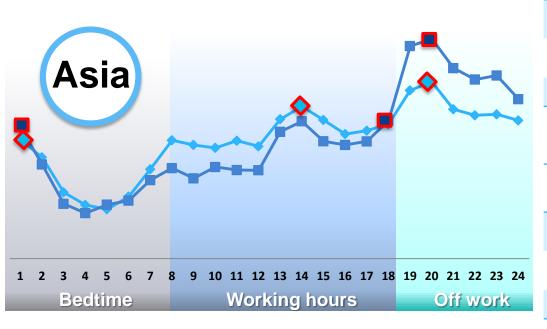
Usage of **Tablet**(Day of Week)

# Take advantage of the 3 spikes in mobile traffic in the day to increase awareness and engagement with potential users.

Mobile activity is the highest during lunchtime, right after work & right before bedtime.

#### Usage of smartphone vs. tablet (Time of Day)





#### Spikes in smartphone usage

Area	Bedtime	Working hours	Off work
SEAisa	01:00	14:00	19:00
HK & MO	01:00	14:00	20:00
Taiwan	01:00	13:00	20:00

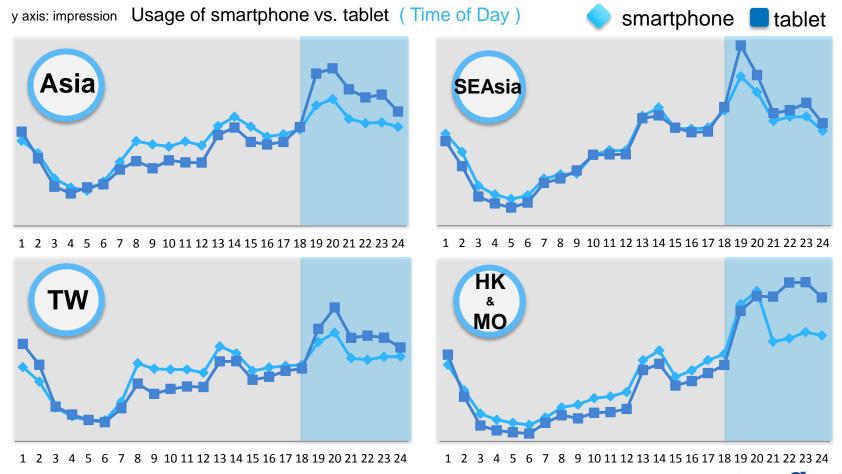
#### Spikes in tablet usage

Area	Bedtime	Working hours	Off work
SEAisa	01:00	18:00	19:00
HK & MO	01:00	14:00	23:00
Taiwan	01:00	14:00	20:00



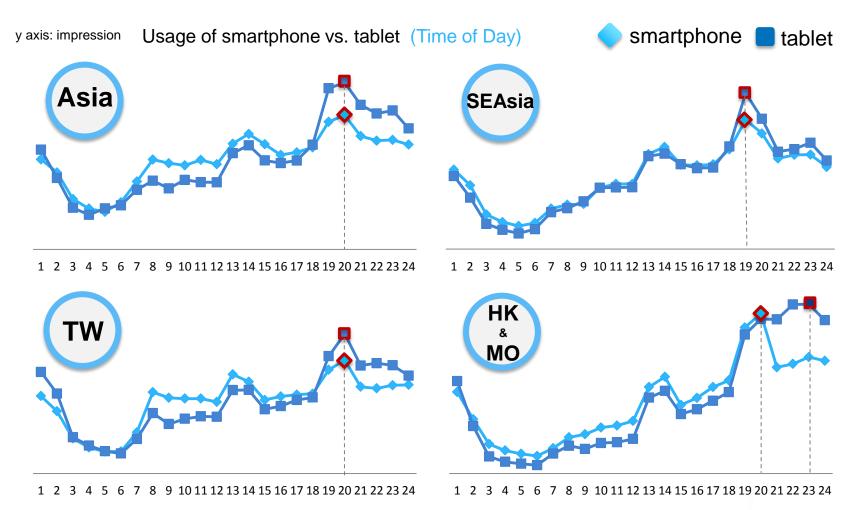
### Increase ad engagement by delivering ads via the right mobile devices at the right time.

- The highest mobile usage rate happens in the evening after 6pm.
- Smartphone usage is higher during the day when people are at work, while tablet usage is higher during off-work hours.



#### Mobile traffic is the highest at 8pm for most markets

Smartphone vs. tablet usage patterns are consistently similar across markets, with the exception of HK & Macau





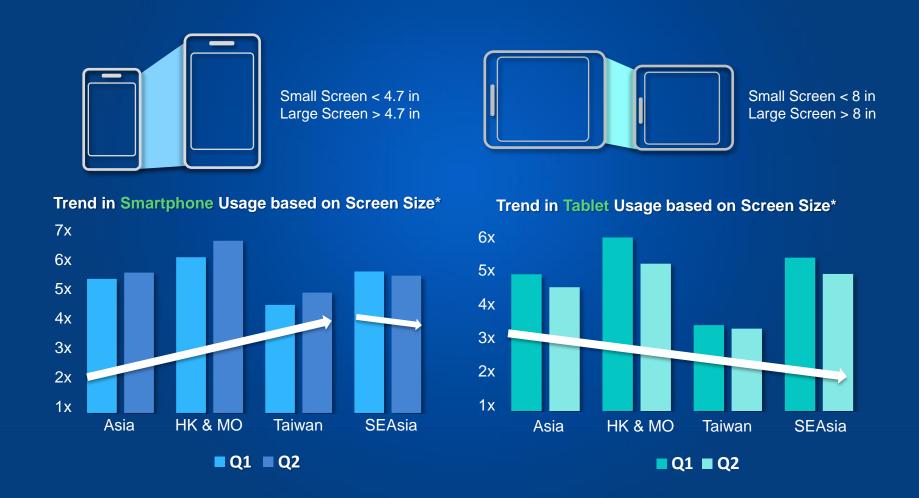


user preference for device screen size



### Consumer preference for device screen size is shifting towards the middle.

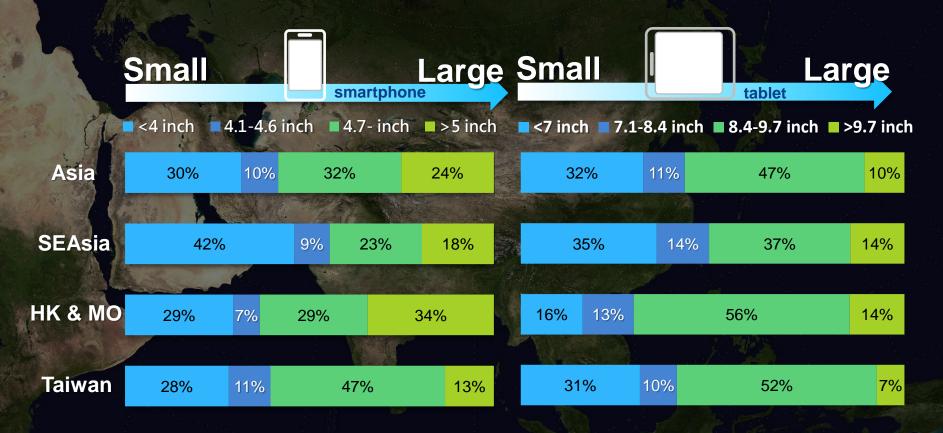
There is a growing number of larger mobile phones and smaller tablets.



Source: Appier

# Despite growing preference for smaller tablets, larger tablets still makes up for the majority of the tablet market

#### Screen Size Breakdown





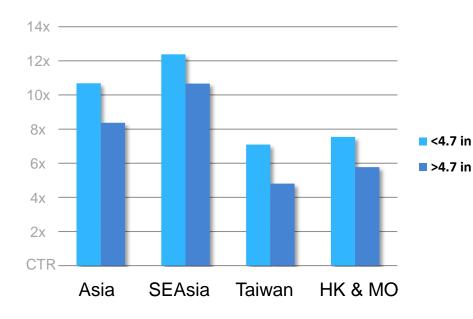
ad preferences on various screen sizes



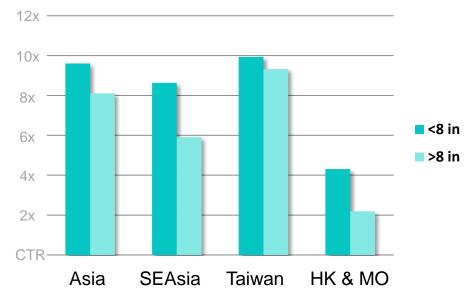
### Smaller screen sizes, regardless of device type, show higher ad click-through-rate (CTR)

The proportionally larger 'share of screen' on the smaller screens may be a potential explanation for the higher CTR on smaller screens.

#### **Smartphone CTR**



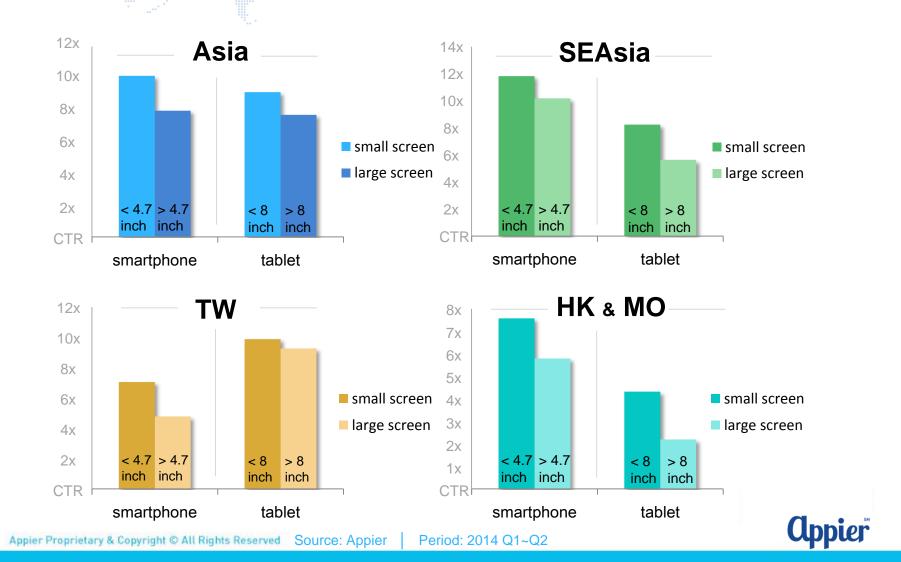
#### Tablet CTR





# Majority of the Asian markets show higher CTR on smartphone as opposed to tablets, with the exception of Taiwan.

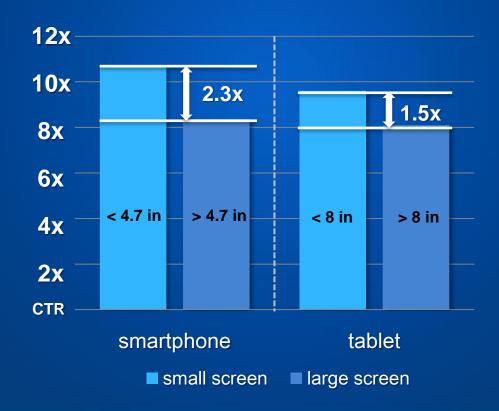
The Taiwanese market showed up to 30% higher CTR on tablet vs. smartphone.



#### **Overall Asian Market**

# Focus on capturing users on their smaller-screen smartphones may help with the increase of overall ad CTR.

- Not much difference in overall CTR between smartphones and tablets.
- That said, screen size has a signficantly larger impact on smartphones than they do on tablets. Smaller-screen smartphones have better CTR than larger-screen smartphones.

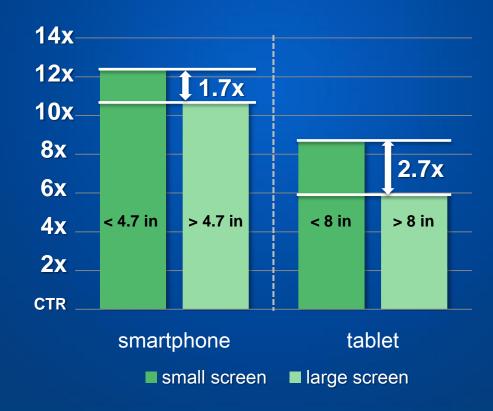




#### Southeast Asian Market

# Focus on capturing users on their smartphones & smaller-screen tablets may help with the increase of overall ad CTR.

- Overall, smartphones show higher CTR than tablets. Smaller-screen tablets have significantly higher CTR than larger-screen tablets.
- Little effects of screen size on ad CTR on smartphones

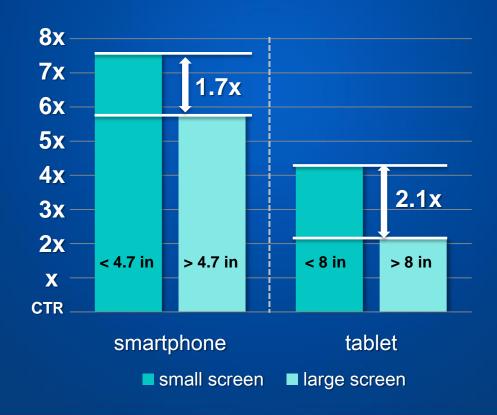




#### Hong Kong & Macau Market

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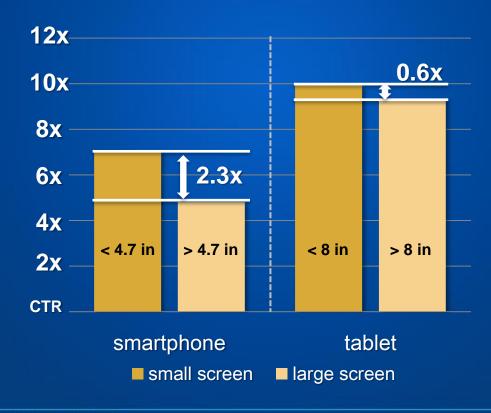




#### Taiwan Market

## Focus on capturing users on their tablets may help with the increase of overall ad CTR.

- Overall higher CTR on tablets than smartphones.
- Screen size has a signficantly larger impact on smartphones than they do on tablets.
   Smaller-screen smartphones have better CTR than larger-screen smartphones.





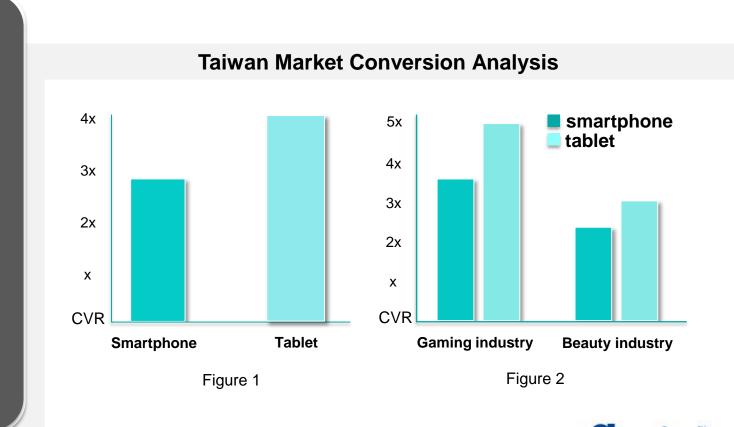
# For the Taiwanese market, Tablet traffic does not only have better CTR, but also better ad conversion rates (CVR)

CVR is 30% higher on tablets than smartphones in Taiwan (Figure 1)

Period: 2014 Q1~Q2

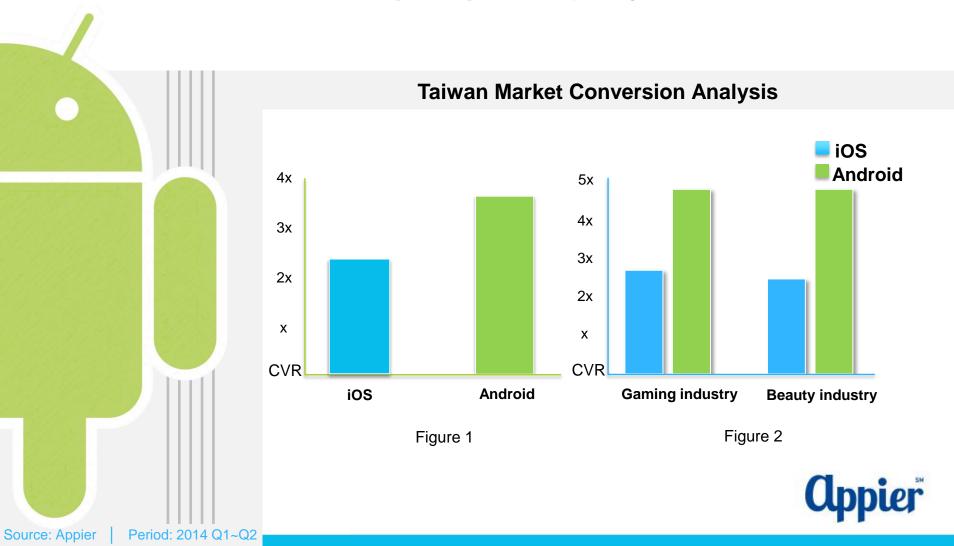
Source: Appier

 Similarly, CVR is much higher on tablets than smartphones for two of the most popular mobile ad industries in Taiwan, gaming & beauty. (Figure



### Due to the competitive nature of iOS, conversion rate is much lower on iOS than it is on Android in Taiwan.

Similarly, CVR is much higher on Android than iOS for two of the most popular mobile ad industries in Taiwan, **gaming & beauty**. (Figure 2)



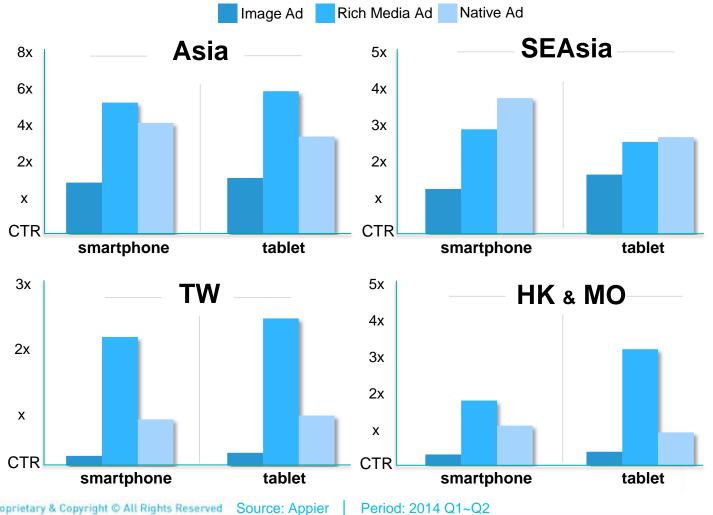


ad CTR for various ad formats

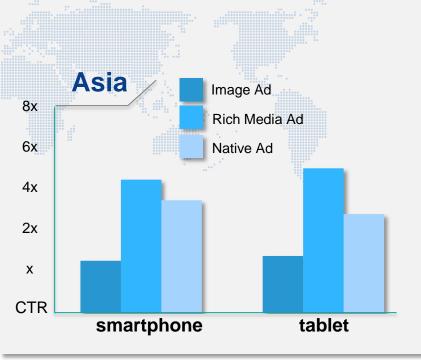


### Ad format plays a critical role in the success of your crossscreen advertising strategy.

With the exception of Southeast Asia, Rich Media is the best performing ad format across both smartphones and tablets.

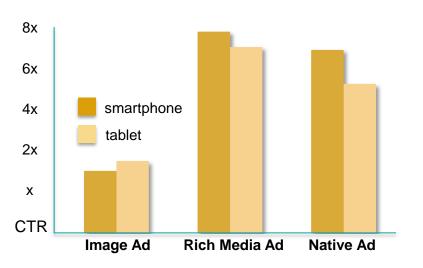






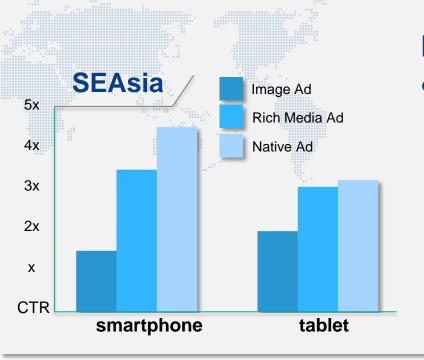
# Leverage Rich Media ads to increase CTR & user engagement

CTR in Asia Market:
Rich Media > Native Ad > Image Ad
across both smartphones and tablets



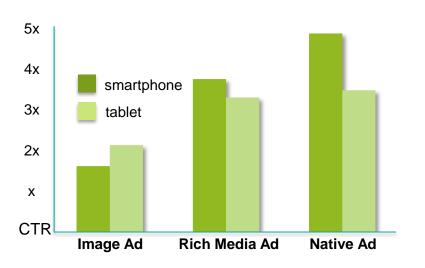
- Image ads receive higher CTR on tablets
- Rich Media & Native Ads both perform better (i.e. higher CTR) on smartphones
- Rich Media & Native ads have a 50% higher CTR than traditional Image ads.





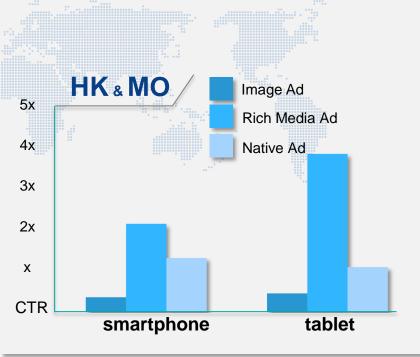
# Leverage Native ads to increase CTR & user engagement

CTR in SEAsia Market:
Native Ad > Rich Media > Image Ad
across both smartphones and tablets



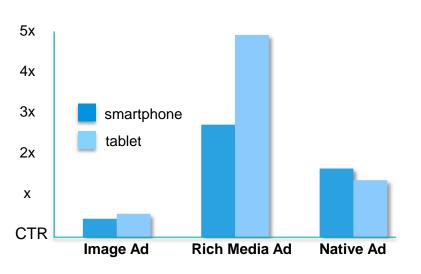
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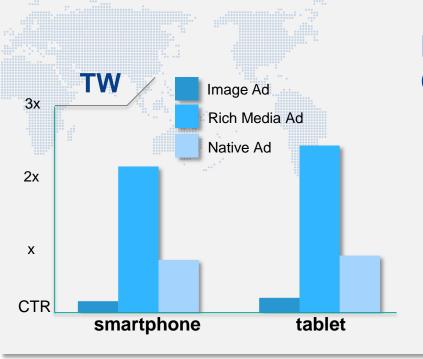
# Leverage Rich Media ads on tablets to increase CTR & user engagement

CTR in Hong Kong & Macau Market: Rich Media > Native Ad > Image Ad across both smartphones and tablets



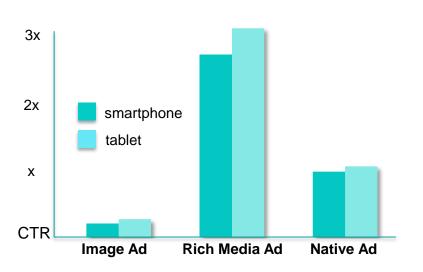
- Image ads receive higher CTR on tablets
- Rich Media ads perform better (i.e. higher CTR) on tablets; Native ads perform better on smartphones
- Rich Media & Native ads have a 70% & 60% higher CTR, respectively, than traditional Image ads.





# Leverage Rich Media ads to increase CTR & user engagement

CTR in Taiwan Market:
Rich Media > Native Ad > Image Ad
across both smartphones and tablets



- Rich Media ads perform better on tablets than smartphones.
- Image ads have only about 10% of Rich Media CTR.



### **Key Findings**

- An Era of Multi-Screen: Mobile devices such as smartphones and tablets are becoming increasingly common.
   By 2016, a quarter of the entire world will have at least 2 mobile devices.
- ◆ Complex Cross-Screen User Behaviors: User behaviors on various mobile devices are complex and cannot be easily predicted. Only half of the users show similar interests across devices, while 1/4 have no similarities at all.
- Mid-size Mobile Devices: Based on Appier's cross-screen data, users in Asia prefer "mid-size" mobile devices, specifically, smaller tablets and larger smartphones. Marketers need to develop different content based on the various screen-sizes and the advertisement layout on the different devices.
- ♦ 6 key Insights to Increasing Cross-Screen CTR on mobile devices:

<b>Enticing Content</b>	Size of the device is not the main factor for CTR performance, Content is still the key.
Engaging Ad Format	Rich Media and native ads allow for user interactions and often result in higher ad engagement.  Marketers should experiment with creative ways to leverage ad formats beyond traditional image ads.
The Perfect Time	Users spend more time on their smartphones after work, especially on the weekends.
Aggressive Investment during Peak Periods	As opposed to smartphone usage, users spend more time on tablets on Thursdays and anytime after work, whereas smatphone usages often happen on Fridays or during work hours. Invest heavily during peak periods on each device can increase impressions and clicks more effectively.
Smart Budget Allocation during Off-Peak Periods	Despite the lower usage rate during off-peak periods on mobile devices, it is crucial not to miss out on the (still very high) number of users who are on their mobile devices during these times. Leverage user database to identify high potential users with high engagement rate during off-peak hours and inteligently deliver to them their preferred content and ads on the right device.
The Right Device	Leveraging user behavior data & machine learning, retarget users that have shown interests in your product before by showing them relevant ads on their other devices.

- ◆ Focus on the Users: Successful cross-screen targeting campaigns deliver user-preferred ads at different times to different devices based on that target user's behaviors across his/her devices. It is a completely customized ad experience based on the individual user's cross-screen behaviors.
- ◆ It's not too Late to be Early: As we move into the era of multi-screen, digital marketing campaigns can no longer be relied on manual AB testing. Cross-screen user behaviors are more complex than ever before, and we must leverage machine learning to help us sort through this ocean of big data to achieve ultimate ROI.

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### **Regional Findings**

#### **Spotlight on SEAsia:**

- ◆ 7pm is the peak time for smartphone and tablet usage.
- ♦ There is an increasing trend for smaller screen-size smartphones and larger screen-size tablets; avg. CTR on smartphones is higher than tablets. Native ads perform better than other ad formats. Invest more budget on smartphone with native ad to increase overall CTR.
- ♦ Smaller tablets, like smaller smartphones, demonstrate higher CTR due to the larger share of screen. It is important to balance investments between the growing number of larger screen tablets and the higher CTR on smaller tablets.

#### **Spotlight on Hong Kong & Macau:**

- Smartphone usage is the highest at 8pm and tablet usage is the highest at 11pm. There is a significant drop in smartphone usage after 9pm. Tablet traffic increases steadily during offwork hours. Invest in tablet ad exposure in the offwork hours.
- ♦ While there are more numbers of larger screen devices, average CTR on smartphones is better than on tablets.
- ◆ Invest in Rich Media ads on tablet may increase overall CTR.

#### **Spotlight on Taiwan:**

- ♦ 8pm is the peak time for smartphone and tablet usage. Tablet usage surpasses smartphone usage after 7pm.
- Traditional image ads show lower CTR and user engagement. Leverage Rich Media ads to increase overall CTR.
- Average CTR and CVR are both higher on tablets than smartphones. Average CVR on Android devices is 30% higher than that of iOS; this is especially apparently in the gaming app industry.
- ◆ Given the high avg. CTR & CVR for gaming-apps traffic on tablets, advertisers should increase tablets ad budget.



### **Research Methodology**

- The data for this research was from a sample of 345 billion data points from Appier database from Q1 to Q2 2014 in Asia. The presented results were at a 95% confidence level, with a margin of error +/-4.5%.
- All data from this research report were based on actual user behavior data, no questionnaire was used.
- Research data covers the following 10 Asian markets:
   Hong Kong, Indonesia, Japan, Korea, Macau, Malaysia, Singapore,
   Taiwan, Thailand, Vietnam.



# **Appier**

Delivering the right content to the right audience on the right screen at the right time.

