Message

From: Surojit Chatterjee Redacted@google.com]

Sent: 8/13/2014 2:42:33 PM

To: Joan Braddi Redacted @google.com]

Subject: iOS8 overtriggering suggestions on spotlight search

Hi Joan,

A recent analysis shows how iOS8 is overtriggering and often giving irrelevant results in its spotlight search (Ex, showing Wikipedia entry for 'auto insurance') query. The <u>attached deck</u> shows more details.

I was wondering if we've reached out to Apple about this since this is not good from user experience point of view.

Thanks,

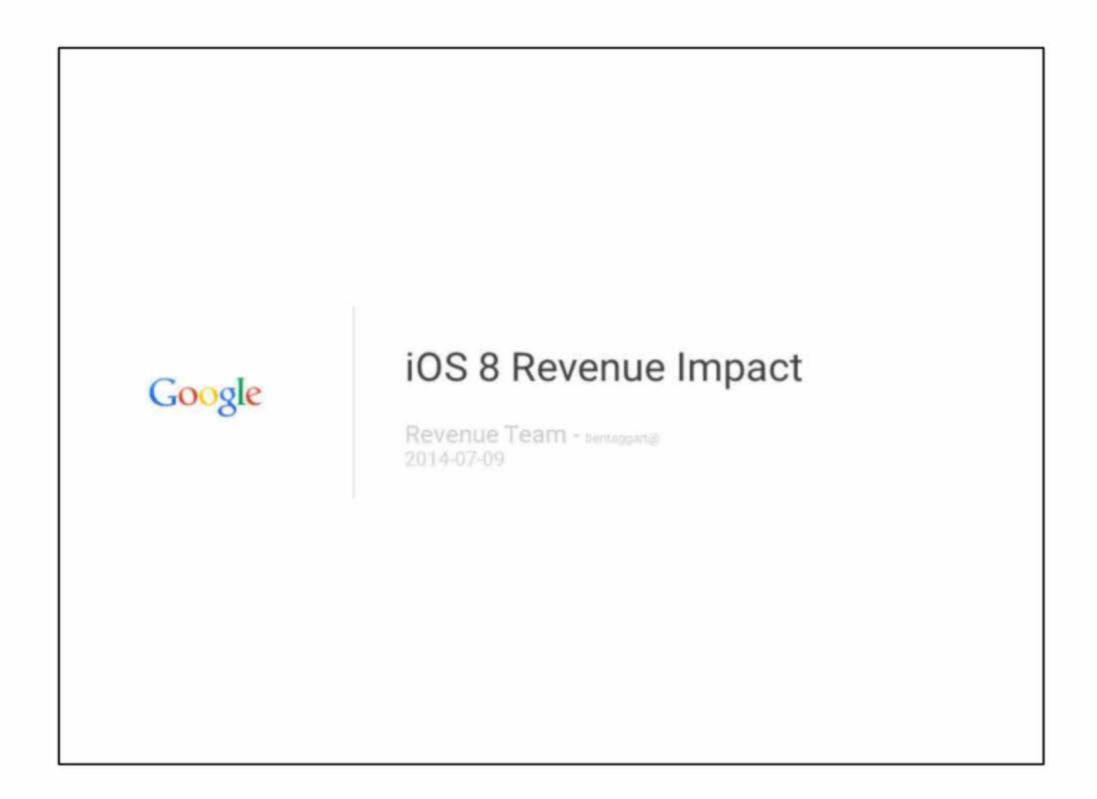
Surojit

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Ex. No.
UPX2010



Title Slide Option 1

Bottom Line: It's bad

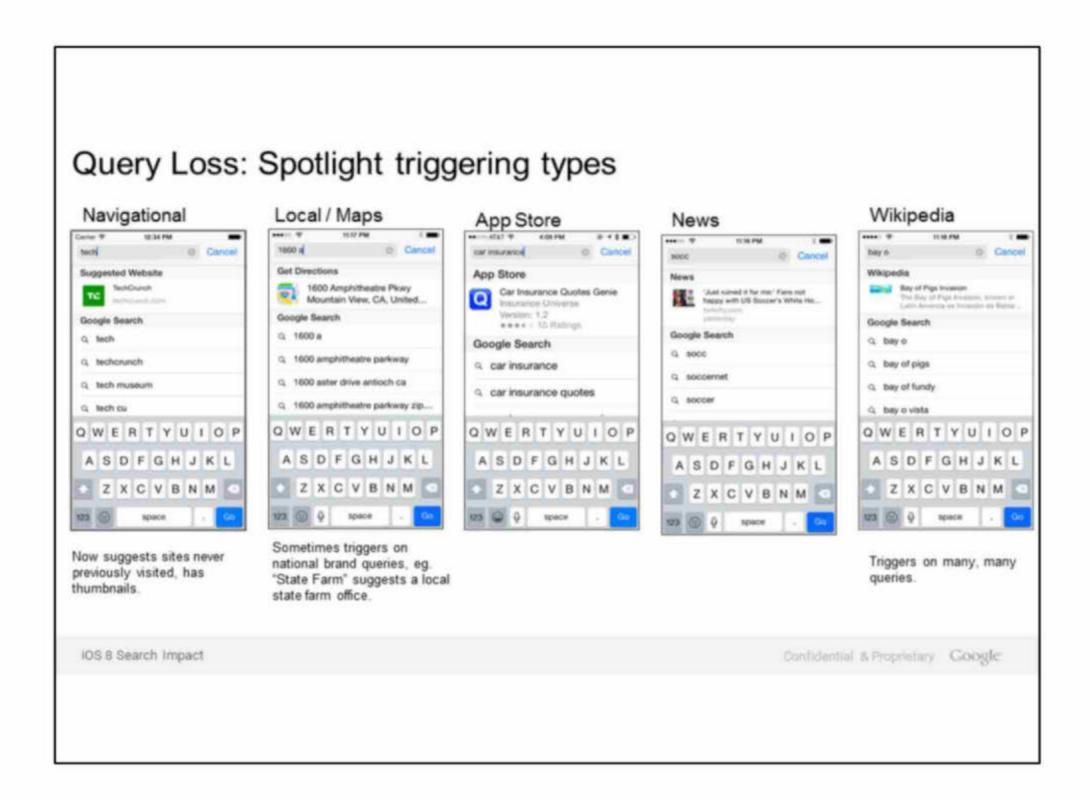
In iOS 8, Apple is introducing Spotlight suggestions into Safari search. We expect these suggestions to siphon queries away from Google in verticals where spotlight is triggered.

Search-team <u>estimates</u> put query loss from Apple's changes at Redacted of Safari traffic.

We estimate a smaller revenue loss of Redacted of iOS Safari revenue. This estimate depends greatly on several variables for which we do not currently have data.

More investigation and better data is needed to come up with more accurate expected revenue impacts ahead of the launch.

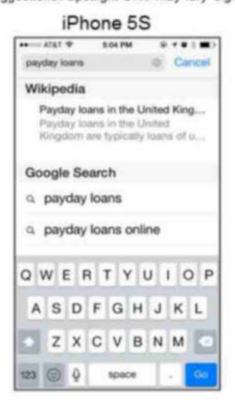


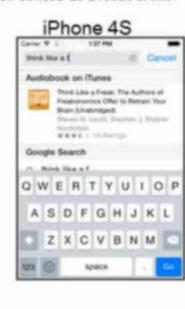


iOS 8: Device differences

There are important differences in Spotlight suggestion appearance between devices. On iPad, the suggestions occupy less of the screen. On the iPhone 4S, the suggestions can almost completely crowd out Google search suggestions. Spotlight CTR may vary significantly between devices as a result of this.







Wikipedia: The Wildcard







Spotlight triggers Wikipedia links on many top revenue generic queries, as well as some brand ones (See next slide).

Wikipedia could be the biggest source of spotlight-related revenue loss if coverage and CTR are both high.

Many wikipedia links of questionable utility, Apple may dial-back trigger rate for final release.

Unknowns (Need real data):

- Understanding of wikipedia triggering behavior.
- Exact % of revenue from queries where Wikipedia is triggered
- CTR on wikipedia entries for high-RPM commercial queries (eg. "Credit Cards")

Spotlight Triggers on 23 of the top 25 English Mobile/Tablet revenue queries - iOS 8 Beta 2

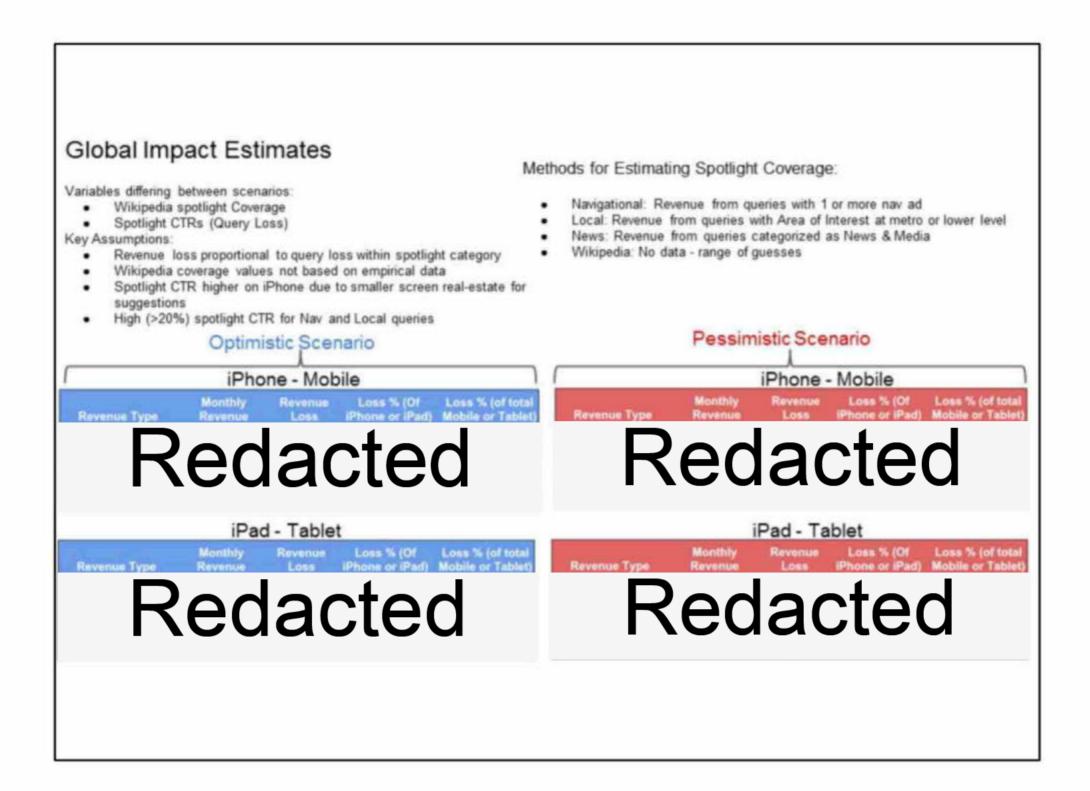
Query Category Monthly Queries Revenue RPM Spotlight Triggered? Type

Wikipedia: 14
Nav. 7
Local: 2

Variations on popular queries (eg. Redacted instead of Redacted affect spotlight triggering, Needs more data.

Unknown: Language differences in triggering, especially Japanese.

= Redacted of mobile/tablet revenue



Source:

https://docs.google.com/a/google.com/spreadsheets/d/13iGqRPXo_JtJ0vjndj4Smt217 NHZTmjoKvel_BCuQY4/edit#gid=0

ld	Date	Text
1	09/04/2014 06:48:39	
1	09/04/2014 06:48:39	Ben are these estimates (e.g. Redacted only for Safari or the entire device?

Next Steps

- Understand and measure spotlight triggering rates in each vertical. Google data (eg. knowledge panel trigger rate) may not be a good proxy for actual iOS 8 triggering rates.
- Measure or improve estimated CTR on spotlight suggestions to further improve query/revenue loss estimates.
- 1. Scope the potential impact of iOS 8 for non-English users (especially JP)

