Message

From: Steve Wang Redacted@google.com]

Sent: 12/19/2019 7:18:57 PM

To: Yuki Richardson Redacted@google.com]

CC: Ollie Proctor Redacted @google.com]; Paul Gennai Redacted@google.com]; Christian Veer Redacted@google.com];

Christian Cramer Redacted@google.com]; Rosie Lipscomb Redacted@google.com]; Andrew Nichols

Redacted @google.com]; John Yoo Redacted@google.com]; Emily Chen Redacted@google.com]; Natasja

Laheij Redacted@google.com]; Ben Friedenson Redacted @google.com]

Subject: Re: Privileged and Confidential - Android in Russia - *Dec 2019 Update*

Privileged and Confidential

Thanks for looping me in, Yuki. I requested access to the analysis to get a sense of the size of the revenue challenges. For context, Search Marketing budget is expected to be tight in 2020 in the backdrop of expanding Helpfulness efforts in top brand headwind marketing (US, DE, UK, FR, etc), which would mean that other investment opportunities will need to be evaluated and prioritized in that context. We'll engage Marvin/Rebecca for a discussion in Jan when we have more clarity on the overall Search budget grant and develop a POV from there.

Thanks!

Steve

On Wed, Dec 18, 2019 at 9:58 PM Yuki Richardson Redacted@google.com> wrote:

Privileged and Confidential

Thanks for this, Ollie. Very interesting and helpful. Wonder if we start to work on more marketing next year... +Steve Wang - what do you think?

Adding +Paul Gennai and +Christian Veer for their awareness and input on next steps for 2020 also.

Best,

Yuki

Yuki Richardson

Finance Director - Platforms & Services (Android, Communications, Google Fi)

Redacted@google.com

M: Redacted

On Tue, Dec 17, 2019, 12:49 PM Ollie Proctor Redacted @google.com > wrote: Privileged and Confidential

Hi Christian and Yuki.

Before we break for the holidays, I've done a *quick* refresh of the 'Android in Russia' analysis from the summer, reflecting an additional 6 months of data.

As a reminder, this is the forecast impact on Android mSearch share and revenue to Google, following the FAS Settlement in 2017.

Ex. No. UPX0170 1:20-cv-03010-APM

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High level summary:

Since the update in July...

- The device refresh cycle has been slower than expected so the revenue decline due to new device setups and user-choice has been slower than previously expected (which is good)
- But... the total Android search revenue in 2019 was significantly less than forecast, so the refresh cycle benefit is more than negated by this slower market growth such than the net revenue to Google is less than expected in the next 5 years.

Next:

The team in Russia [Polina, Vitaly] have *just* started looking at the impact of Huawei device launches in Russia, with an intention to bring an ask to Richard Turner. Andrew and I are plugged into this and will lean in after the holidays.

This thinking and analysis is, of course, applicable to other areas and we're happy to collaborate however is best.

@Rosie Lipscomb - are there any legal aspects to consider as we think specifically about Huawei in Russia?

Everyone - please let me know if you have questions or comment.

Cheers,	
Ollie	
Effects value	Ollie Proctor EMEA Business Finance - Platforms & Ecosystems Financial Analyst Redacted @google.com

Steve Wang, CFA Google Marketing FP&A

I'm hiring: FA/SFA Consumer Apps Marketing

Redacted

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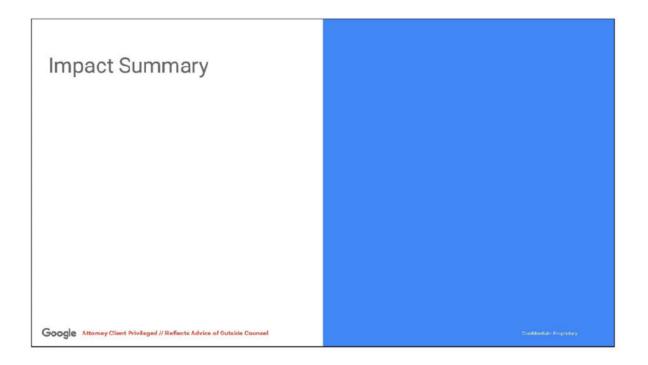
Update: Android in Russia

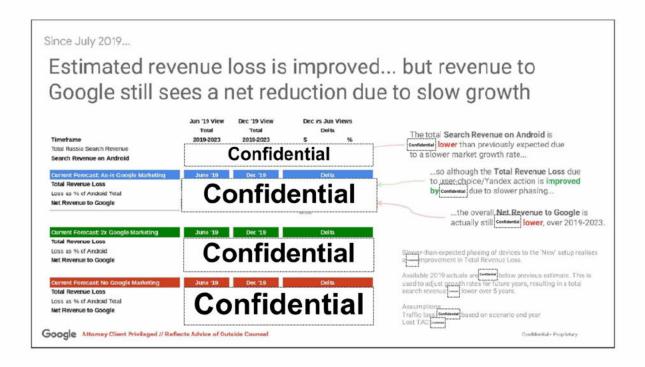
December 2019

6 months since last update

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Model here

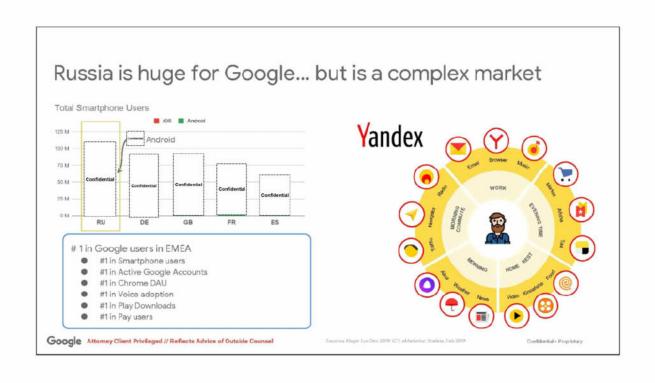
Topics Timeline of events Recap of the commercial agreement Market trends Search market share analysis Forecast and financial impact Appendix

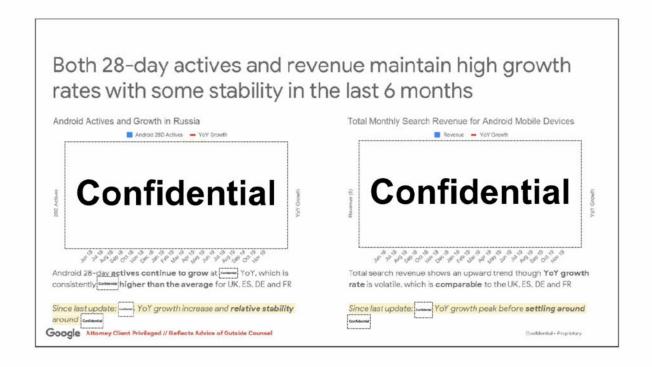
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imeline	Competition Details	Partnership Deals
April 2017	Settlement with FAS; Partnership Agreement with Yandex	Yandex / Mail.ru pays Google TAC for search traffic on new devices (see next slide for detail)
May 2017 – July 2017	Product design, rollout planning, including amendments to MADA / RSA	
August 2017	New Russia build requirements available to interested OEMs	
December 2017	Last month to obtain GTS approval for old Russia builds	
January 2018	New Russia build now <u>required</u> by all OEMs	
Ongoing	Monthly reporting to Yandex on status; periodic check-ins with FAS	
January 2019		New bounty+RSA deal taken to ACPX; approved with conditions but deployment paused pending wider RSA discussions

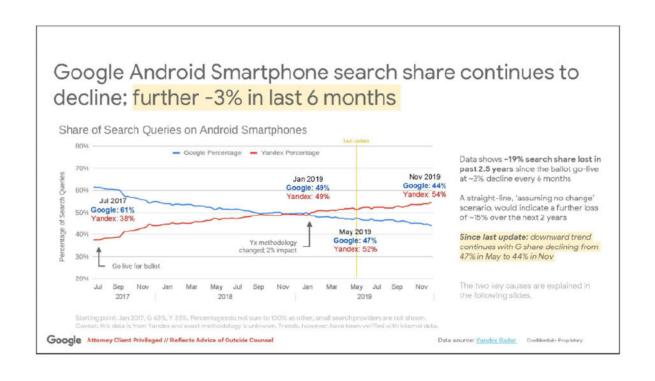
	Commercial Agreements ement meant that both existing and new device	
	Existing Devices	New Devices
Product Change	Choice prompt pushed to all existing devices Chrome (not widget) triggers in-app search provider promotion screen between Yandex / mail.ru and Google	All new devices ship with prompt for Chrome and Search widget (aka Chrome widget) to choose Google, Yandex, or mail.ru as default Chrome widget UI has some degree of Yandex/mail.ru branding
TAC	No TAC	Yandex / Mail.ru pays Google Confidential for search traffi on new devices if a user chooses Yandex / mail.ru as default OOB (ie. searches via Chrome or Chrome widget) and clicks on ads served by them
Territory / Term	Russia only (does not include CIS) Confidential	for Yandex and Mail.ru

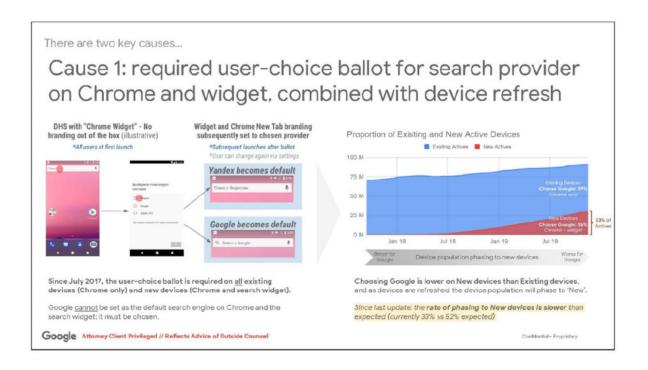




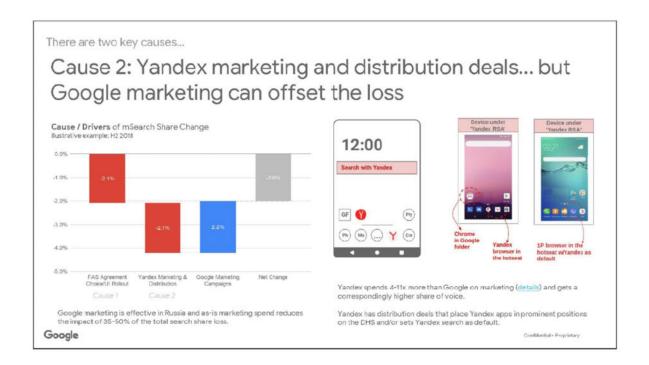
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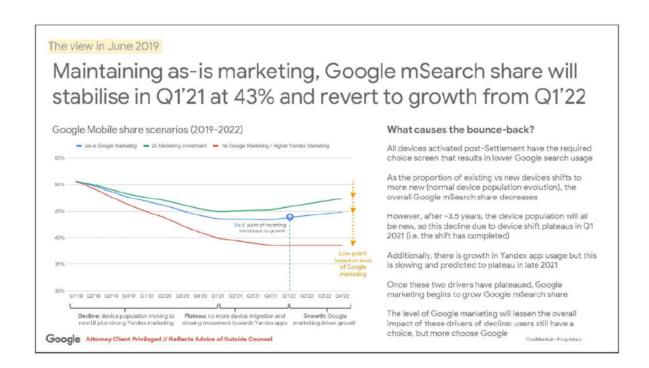
The YoY growth decline since Jan 2018 correlates with the start of the FAS Agreement / User-Choice ballot coming into effect in Jan 2017





Note that the ballot is only on Chrome and the widget, not Yandex browser (that is Yandex by default) nor any 1P/3P browsers (e.g. sBrowser or Firefox).





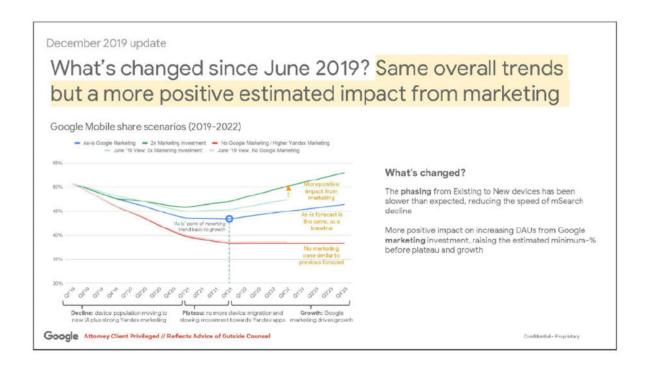
Assumptions:

The forecast browser share for Yandex search access points is equivalent to what Google had before the FAS

2x Google marketing assumes +40% additional DAUs (to be verified by a regional pilot).

Without marketing, ballot choice for Google plateaus at 52%.

In as-is and 2x Google marketing cases, assuming no additional marketing spend by Yandex. Assuming Yandex does not have a breakthrough product.



Assumptions:

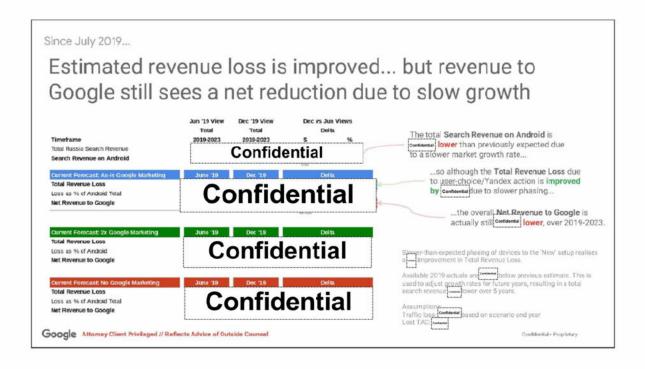
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Model here

Yandex-forward devices reduce use of Google apps



Yandex have revshare agreements to place their apps in prominent positions

Both Chrome and search-widget require user-choice of search engine

Yandex also has a very similar set of capable consumer services:

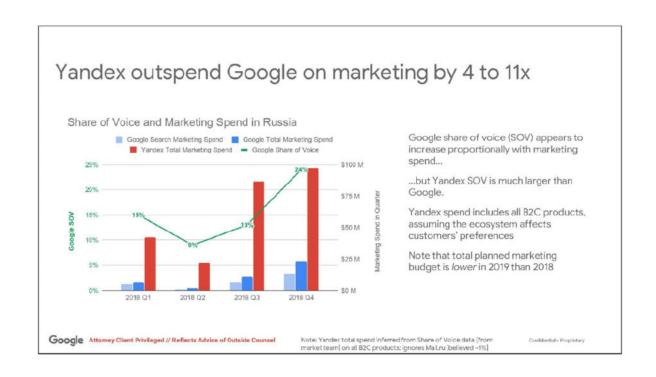
- Yandex for a Search Engine
- Yandex Browser
- Yandex Search App
- Yandex Assistant
- Yandex Maps
- Etc.

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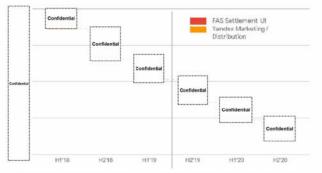
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Penetration of FAS Settlement UI devices will be the key driver of mSearch share loss until 2021

Incremental Impact of Key Drivers on mSearch



Note this deliberately does not show the positive impact of Google marketing that partially offsets this loss

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In the next 2.5 yrs 70% of users will need to transition from a Google Search Widget UI to a Yandex UI device

Yandex Search access points (YaApp, YaBrowser) are expected to reach 38% browser share in the next 3 yrs via OEM distribution deals and Assistant (Alisa) marketing

In 2021 Yandex is expected to reach the point of saturation in distribution and FAS Agreement Yandex UI device penetration

To offset mSearch share loss we would need to drive Confidential times more than the Russia market team plan to deliver in 2019

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