

WEBINAR

Getting the most out of your data: A case study in mobile agriculture & thoughts for the M4D sector

We're just waiting for participants to dial in and we'll start the webinar shortly.

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To ensure a clear line for everyone, all participant lines will be muted. Please ensure you **DO NOT UNMUTE** your line.

Please feel free to send any questions as a <u>private message</u> to Alex Smith – this can be done at any time via the chat function. Questions will be answered during the Q&A following the presentation.



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Getting the most out of your data: A case study in mobile agriculture & thoughts for the M4D sector

May 2014

Adam Wills, Analyst, GSMA Mobile for Development Impact Natalia Pshenichnaya, Senior Manager, GSMA Mobile Agriculture



Mobile for Development Impact

- 1. Introductions
- 2. The M4D opportunity in terms of user analytics
- 3. xAgri Info a case study in value of user analytics
- 4. The importance of analytics in project implementation
- 5. Q&A





Adam Wills, Analyst, GSMA Mobile for Development Impact

Mobile for **Development Impact**

Mobile for Development Impact supports the digital empowerment of people in emerging markets through a central platform of data, analysis and insight used to inform investment and design decisions for mobile services.

www.gsmaintelligence.com/M4D

MAP TABLE Featuring 1690 deployment(s) Country Sector ÷Ċ ÷ C Select One Select One Austria Kazakhsta France Jzbekistan Kyrgyzstar Spain urkmenistan. Portugal ÷ 5 Marent Afghanisto -Algeria Libya Egypt Western Sahara Saudi iritania Niger Chad يجر الغرب GSMA Intelligence DR Cong

ANALYSIS Mobile platform wars

February 2014



March 2014

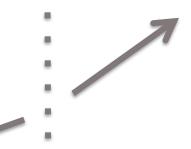
The importance of partnerships to mobile operators' value added services



GSMA Intelligence bile for Development

Case study: Kopo Kopo



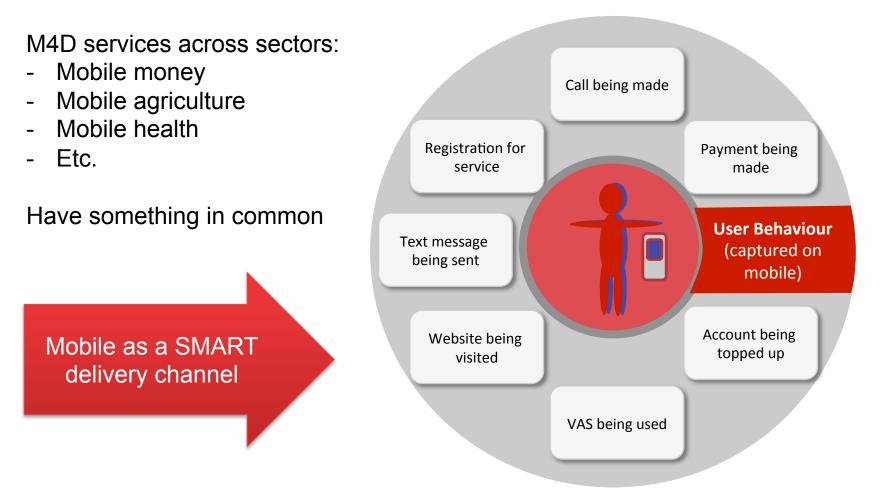


The mobile phone has been used in over <u>1,600 products and</u> <u>services</u> in the M4D space

Challenge

Scale and commercial viability have still not been achieved by the vast majority of M4D services. How can M4D service providers best utilize what <u>data</u> they already have to address this?





But don't' simply assume M4D services are capturing and using such data

Examples of the kind of behavior captured over mobile



An example of using analysis of usage data as the basis for decision making

xAgri Info



An MNO led service

delivered over a USSD platform

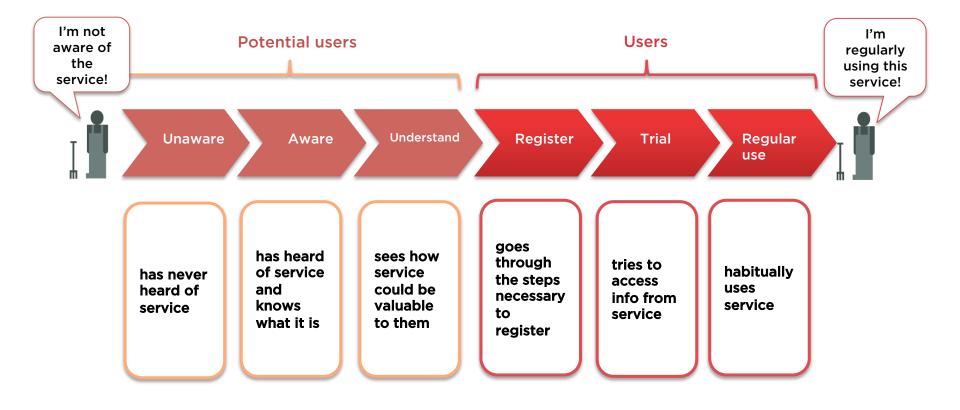
Over 100,000 registered users

Service offers information services in the areas of:

- ✓ Market prices
- ✓ Agronomy information
- ✓ Weather

The service has been live for over one year







How does the customer journey tell me where I'm losing value?

How many people are stuck in the journey toward regular use of my service?

> Where should I focus resources to see improvements in usage

1

Get the data... (below is a dummy sample table)

user id	timostama	contont tuno	charge	status_id
	timestamp	content_type	charge	
1	12/05/2014 00:00	MARKET_PRICE	0.01	1
2	13/05/2014 07:12	AGRONOMY	0.01	1
3	14/05/2014 14:24	WEATHER	0.01	1
4	15/05/2014 21:36	WEATHER	0.01	1
5	17/05/2014 04:48	WEATHER	0.01	1
6	18/05/2014 12:00	MARKET_PRICE	0.01	1
7	19/05/2014 19:12	MARKET_PRICE		0
8	21/05/2014 02:24	AGRONOMY		0
9	22/05/2014 09:36	MARKET_PRICE	0.01	1
10	23/05/2014 16:48	MARKET_PRICE	0.01	1
11	25/05/2014 00:00	MARKET_PRICE	0.01	1
12	26/05/2014 07:12	MARKET_PRICE	0.01	1
13	27/05/2014 14:24	MARKET_PRICE	0.01	1
14	28/05/2014 21:36	AGRONOMY	0.01	1
15	30/05/2014 04:48	AGRONOMY	0.01	1
16	31/05/2014 12:00	WEATHER	0.01	1
17	01/06/2014 19:12	WEATHER	0.01	1

Key data is a log of users... and their transactions with the service

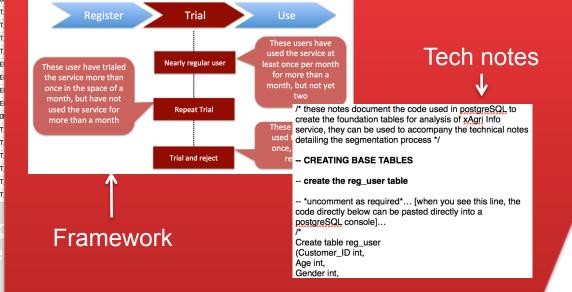
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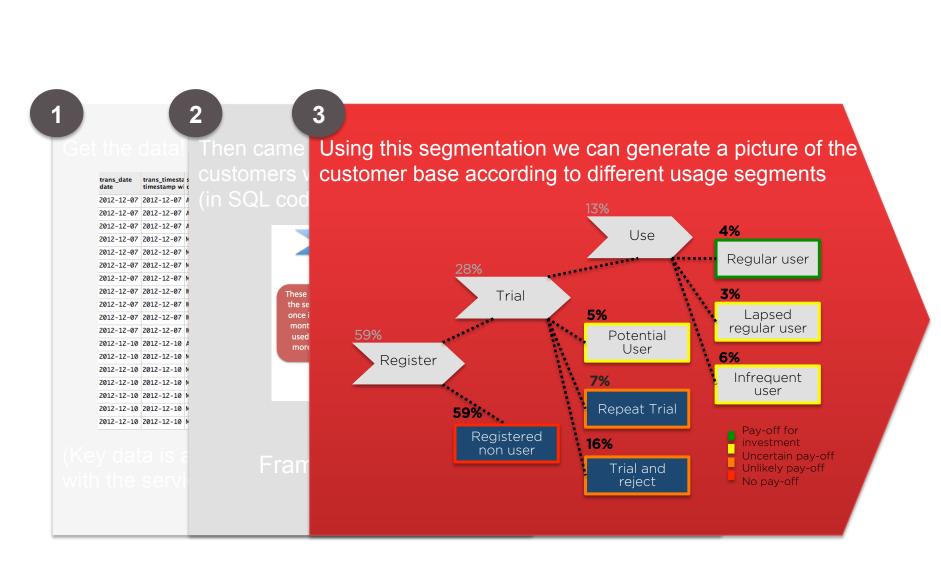
Get the data!! (i

2

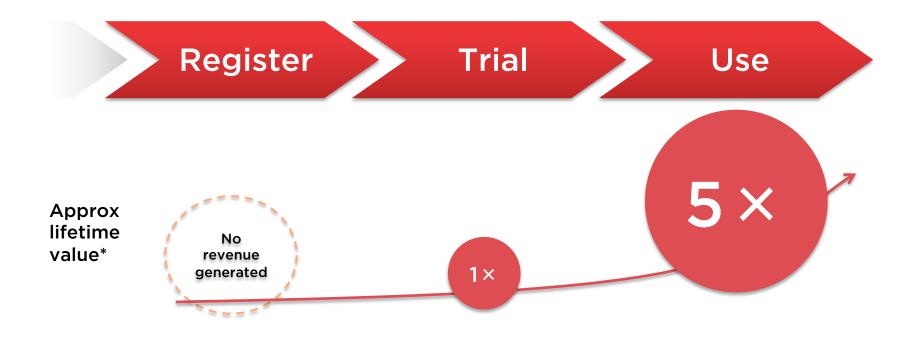
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(Key data is a <u>l</u> with the service Then used a <u>framework</u> for segmenting customers we have data for, and created a set of <u>technical notes</u> (in SQL code) to segment customers based on the data





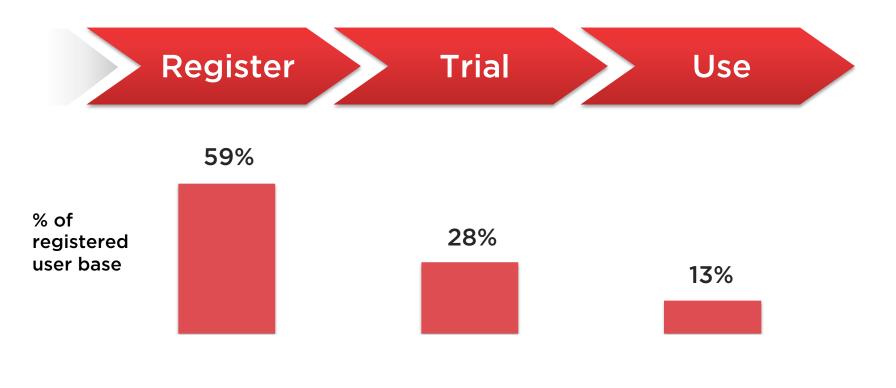




For xAgri Info, those who 'use' the service are **5 times more valuable** than 'trial' users.

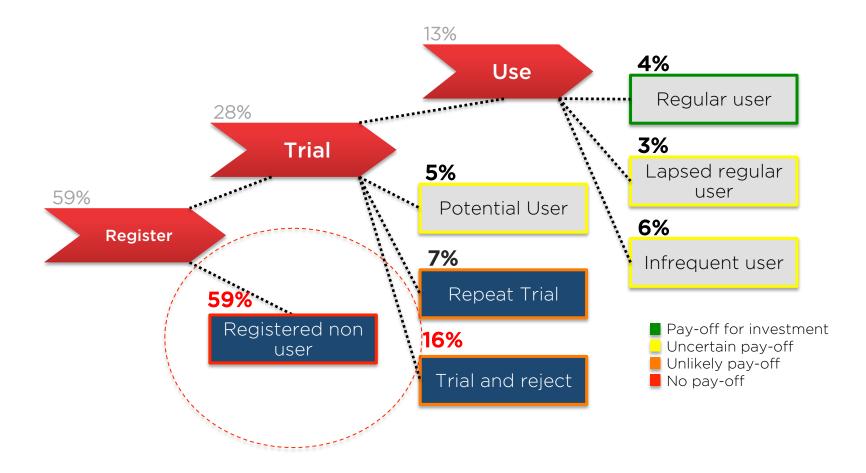
*segment value calculated by looking at the average number of months active x average monthly ARPU for segment. This gives a conservative estimate of how much value customers in the segment will generate over a longer period





The clear **bottlenecks are around registration and trial**, **87%** of customers are stuck at these stages

* 'Use' defined as using the service once on a monthly basis for at least two months



Focus on the biggest bottleneck here Registered non user

Ideas for "registered non-users"



59%

Registered non user

These users have signed up, but have never used the service

Idea 1: try to convert straight after registration

- Evidence of demand
- Going unfulfilled

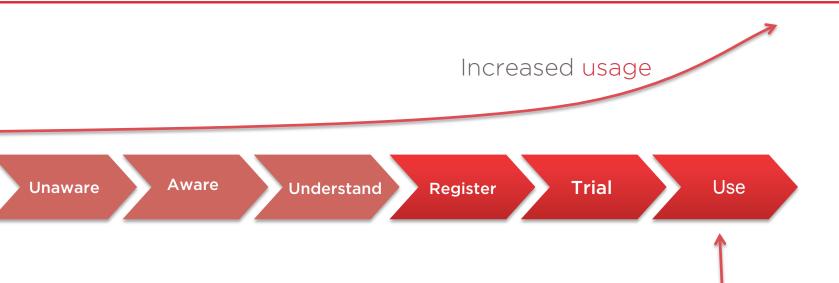
Idea 2: Make the service nature clear in marketing

- many similar services 'push' content
- Marketing use case properly?

Hypothesis testing: work out the biggest challenge for the segment

- Don't understand service nature (push/pull)?
- Don't see/understand value to them?
- Are put off by price?
- Can't reach content, usability issues

Use... Then Social/Commercial impact



Both commercial and social objectives align here

Mobile for

Development Impact

- Usage comes before impact and scale social or commercial
- Mobile not a magic tool you need to design things well, and use data to inform
- GSMA seen this apply in Mobile Money and Mobile Ag can we see more?

Mobile for Development Impact

Full case study:

Mobile Ag

<u>https://mobiledevelopmentintelligence.com/insight/</u> <u>Mobile user analytics: a case study in mobile agriculture</u>

Also look at:

Mobile Money

http://www.gsma.com/mobilefordevelopment/wp-content/uploads/ 2013/07/Customer-Business-Intelligence-.pdf

Technical notes available:

Mail me for inquiries on this - <u>awills@gsma.com</u>

www.gsmaintelligence.com/M4D





Natalia Pshenichnaya, Senior Manager, GSMA Mobile Agriculture

What we do:

- catalyse uptake of scalable, commercial mobile services that benefit the agriculture sector in emerging markets.

We work with:

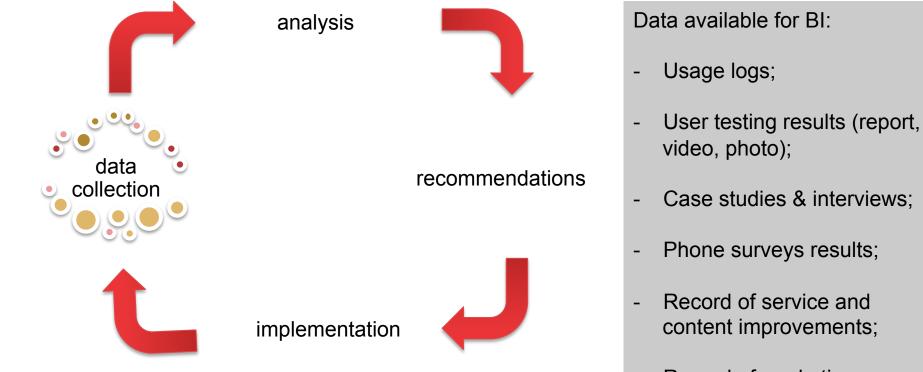
- mobile operators, VAS providers, development community and agriculture organisations.

We provide:

- risk capital, targeted consultancy, M&E tools;
- best practices, partnership brokering for wider industry.

Find us: www.gsma.com/mobilefordevelopment/programmes/magri

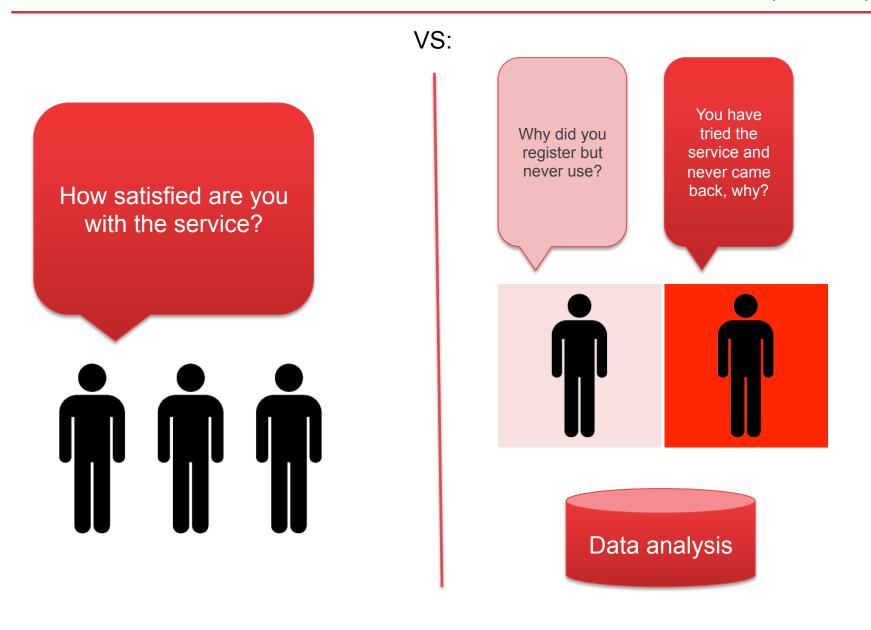




- Record of marketing activities.

Smart qualitative data

Mobile for Development Impact



Recommendations

Mobile for Development Impact

- First thing first data collection capture the data on user behavior to get full picture:
 - if possible capture data on user profile;
 - time of access;
 - channel of access;
 - duration of browsing;
 - transaction status;
 - charging;
 - type of content.
 - Create the dashboard that incorporates the most important usage KPIs and monitor on regular basis;
- Compliment data analytics with qualitative data capture: segment your users, generate hypothesis, validate assumptions.



Q&A

Please feel free to send any questions as a **private message** to **Alex Smith** – this can be done at any time via the chat function. Please include to whom you are addressing your question:



Adam Wills, Analyst, GSMA Mobile for Development Impact awills@gsma.com



Natalia Pshenichnaya, Senior Manager, GSMA Mobile Agriculture npshenichnaya@gsma.com