

"Mr. Watson, come here, I want to see you." March 10, 1876, Alexander Graham Bell,











First handheld mobile phone: 1973





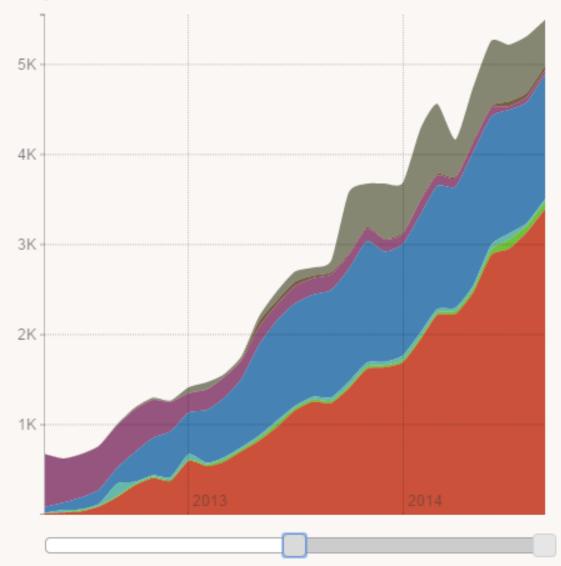
2015: Equipping FLWs with Mobile Apps

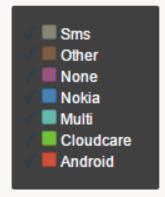




Users by device type, Jan 2010 – Sept 2014

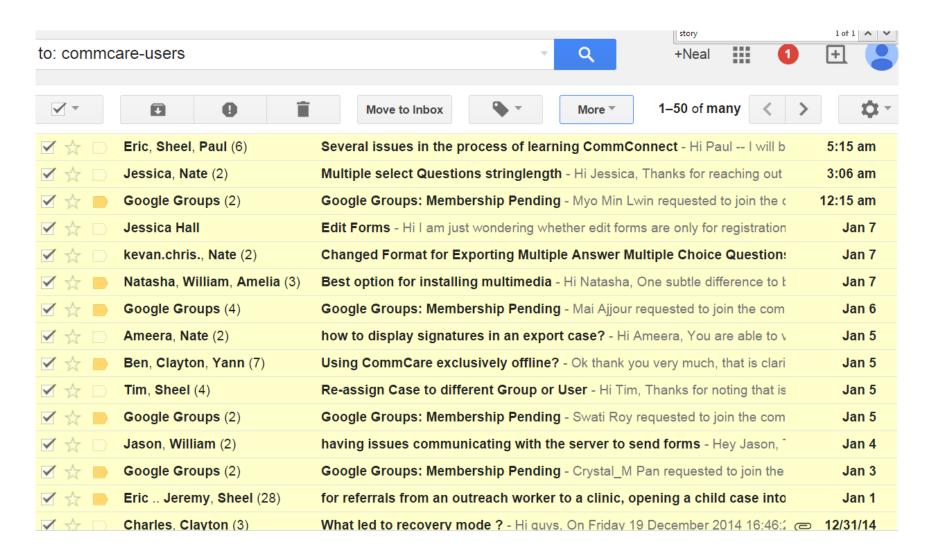
(moving the slider zooms the timeline)





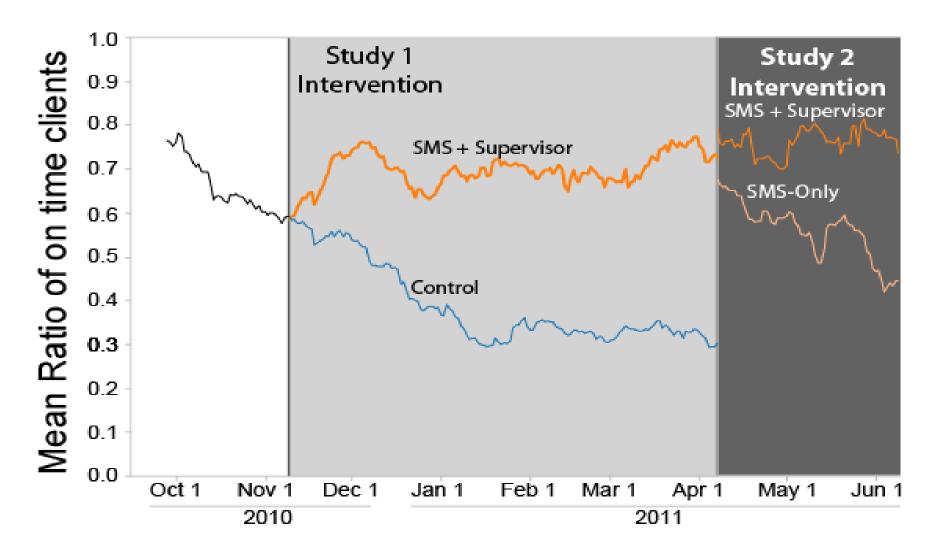


What it means to have a cloud product...





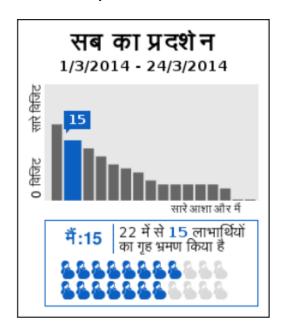
SMS Reminders w Escalation (DeRenzi et. al)

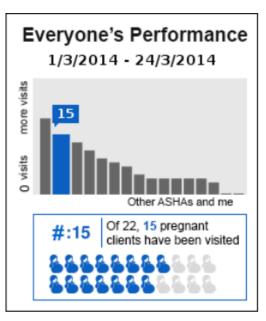




Self-tracking app w/ Relative Performance (Lee)

Led to 27% improvement in performance over the course of 10 months, and a 47% improvement in the top tercile of intrinsically motivated FLWs









Record for patient xxxxxxxxx

fakeid	initials	1	sex	status	ARV status		treatment site	Pregnant last visit
0721xxxx	xxx	adult	male	active	by MDH	15	Amana	na

first visit		last visit			CD4 change
23DEC04	25MAY05	05SEP05	04OCT05	d4T25/3TC100/NVP200 BD	34%

2. weeks	date	on arv	ARV	WT	нт	HGB	ALT	cd4	cd4%	vl	Н	sep- trin	тв	acute problem
date arv ARV	23DEC04			27.2	132.0	-		133			3	no	no	none
19JAN05 . 02FEB05 . NOT	19JAN05					10.8	32				3	-		
adenti 03MAR05 NOT 25MAY05 0 AZT1 NVPI	02FEB05	-	NOT b/c: exr shows tb adenitis	27.4	132.0	-	,		-		3	yes	no	BOILS ON THE FA
09JUN05 2 AZT2 NVP. 23JUN05 4 AZT2 NVP.	03MAR05		NOT b/c: has tb adenitis	27.3	132.0	-					3	yes	no	ABSCESS ON THE
24JUN05 4 22JUL05 8 d4T2i NVP.	25MAY05	0	AZT243/ 3TC108/ NVP121 OD	27.0	137.0	-	-	-	-		3	yes	yes	SKIN INFECTION
23JUL05 8 11AUG05 11 AZT0 22AUG05 13 d4T2i BD	09JUN05	2	AZT243/ 3TC108/ NVP203 BD	27.0	137.0	9.9	,		-			yes	no	none
23AUG05 13 05SEP05 15 d4T2: BD 06SEP05 15	23JUN05	4	AZT200/ 3TC110/ NVP204 BD	27.5	137.5	9.8			-			yes	yes	COUGH
recommended for next	24JUN05	4				-	55				-	-		
Consider changing p consider using 30mg of Order routine ALT	22JUL05	8	d4T200/ 3TC104/ NVP200 BD	26.0	137.1	10.1			-			no	no	none
	23JUL05	8				-	51				-			



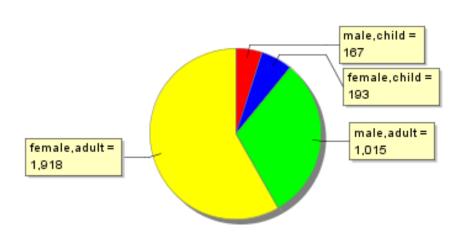
Successful Report

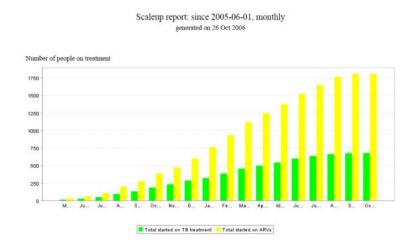
	Consultation, 04 Nov 2006												
User ID	Name	Age	Attend?	Weight		Food support today?	Alerts		(current regimen, TB start date)	arv (current regimen,initiation, last change)	accompangateur		
		37		54 kgs@19Janv06 64 kgs@12Juil06 66 kgs@9Aug06		ΥΝ		151 @23Janv06 344 @11Aug06		Triomune-40 (1 Co, 2/j) 20Janv06 2Mai06	MBUZUKONGIR A Thadee		
		31	ΥΝ	61 kgs@16Fevr06 65 kgs@22Aug06 69 kgs@18Seo06		YN			2006-06-16		MUPENZI Faustin		

<u>u</u>	Attend?	Weight	New weight	Food support today?	Alerts	(
		54 kgs@19Janv06 64 kgs@12Juil06 66 kgs@9Aug06	•	Z	-	1 3
		61 kgs@16Fevr06 65 kgs@22Aug06 69 kgs@18Sep06		Υ	late CD4	-



Unsuccessful Report





Exception Report 05 Mai 2007

	no cite in EMR	no ARV group in EMR			>82kgs but on 30 dose		incomplete address in EMR	HIV- and HIV+ Indications	Start ARV or TB In future		CD4 < 200 but No ARV	ARV start date incosistent with status
Rwinkwavu		417	109	52	3	11	927	8	3	57	12	67
Rukira		146	53	13	-	6	550	23	2	7	10	58
Kirehe		75	6	3	6	3	359	4		5	5	56
Mulindi		32	9	5	1		146			1		2
Rusumo		36	26	26	3	4	248	2		9	1	41
Nyarubuye		36	5	2	_		31			1	1	3
	50	43	43	14	_		28	6		1		17
Total	50	785	251	115	13	24	2289	43	5	81	29	244



Our most successful programs

- Take 1-2 years to hit stride
- Do a lot more than just tech/CommCare
- Use data, follow up with individual CHWs based on data
- Have champions!
- Constantly iterate and improve system



Maturity Model = Way to to Help Partners Grow



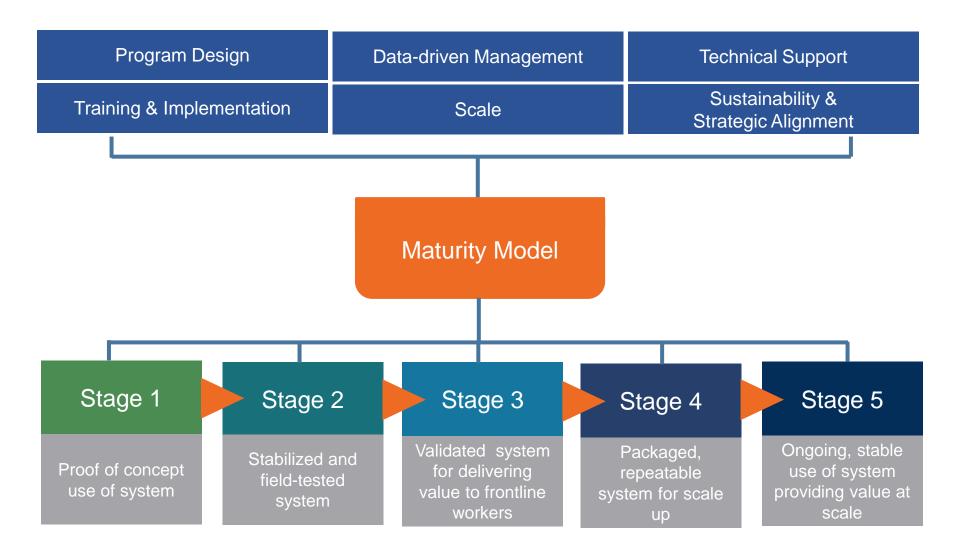
Initial Demonstration



Implementation at Scale



From Implementation Areas to Maturity Stages





Assessing "Maturity" across key areas

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Program Design	New content, small number of use cases			\Longrightarrow	Additional use cases added to technology platform
Data Driven Management	Data collected but not used to improve workforce	_		>	Data used to improve program design. Increasing levels of automation for data- driven management.
Technical Support	Limited technical capacity among program staff	_		$\longrightarrow \hspace{0.2cm} \rangle$	Technical resources fully capable of managing program independently of external support
Training and Implementation	Training and implementation policies not yet modified for mobile tech.	_		\Longrightarrow	Training and implementation practices institutionalized and improvements can be rolled out iteratively
Scale	Designing and demonstrating with small number of users	_		\Longrightarrow	Fully deployed to target userbase
Sustainability and Strategic Alignment	Focus within single organization with single source of funding			\longrightarrow	Core solution in national strategy receiving core programmatic funding



The Full Maturity Model

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Program Design	New content, small number of use cases	Refined content based on field iteration	Validated Content used by frontline workers	Frontline worker content stable. New supervisor content created and iterated.	Additional use cases added to technology platform
Data Driven Management	Data collected but not used to improve workforce	Data accessed, but rarely applied	Data periodically used for performance improvement or evaluation	Data regularly used for performance or evaluation	Data used to improve program design. Increasing levels of automation for data-driven management.
Technical Support	Limited technical capacity among program staff	Technical resources existing and trained, starting to use training in the field	Technical resources certified and regularly conducting basic support	Technical resources fully capable, but still needing limited external support	Technical resources fully capable of managing program independently of external support
Training and Implementation	Training and implementation policies not yet modified for mobile tech.	Adapted training and implementation policies to mobile tech.	Training and implementation policies for mobile tech used in practice	Training and implementation practices replicable under a cascaded approach	Training and implementation practices institutionalized and improvements can be rolled out iteratively
Scale	Designing and demonstrating with small number of users	Increasing adoption with frontline workers	Fully deployed with specific target users (or deployement experience). Users demonstrating value	All processes documented and expanding to additional users	Fully deployed to target userbase
Sustainability and Strategic Alignment	Focus within single organization with single source of funding	Building awareness, buy in and support of the program. Aligning to national strategy.	Seeking additional funding based on demonstrated value. Program aligned with national strategy.	Expansion funding secured. Expanding inline with national strategy	Core solution in national strategy receiving core programmatic funding



Thank you!

Contact: Neal Lesh (<u>nlesh@dimagi.com</u>)

Additional Videos:

CommCare Overview Video: http://youtu.be/ZpfvISKxylE

CommCare Demo Video with multi-lingual support from India: http://youtu.be/30Ftk6STM3U

Recorded Webex of CommCare Presentation given to NetHope: http://bit.ly/tiLaYy

Additional Resources:

http://groups.google.com/group/ict4chw

http://www.commcarehq.org

http://www.dimagi.com







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