

21ST CENTURY HEALTHCARE: MOBILE HEALTH

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Presented by:

Gora Datta gora@cal2cal.com

- ✓ HL7 International Ambassador (2009 – current)
 - Founding Co-Chair HL7 Mobile Health Work Group (2011 – current)
 - HL7 2009 Volunteer of the Year Award Winner
- ✓ HL7, IEEE, HIMSS Speaker
- ✓ HL7 Meaningful Use Tutor/Speaker
- ✓ Chair IEEE OC (Region 6 – USA) (2016 – current)
- ✓ Vice Chair IEEE OC CyberSecurity SIG (2015 – current)
- ✓ HIMSS Connected Health Committee Member (2015 - current)
- ✓ US Delegate to ISO/TC215 Health Informatics (2009 – current)
- ✓ ICT Expert - World Bank, Asian Development Bank
- ✓ Senior Member: IEEE, ACM
- ✓ Advisory Board Member: www.quampus.com - ONLINE LEARNING DELIVERY PLATFORM



Group Chairman & CEO
CAL2CAL Corporation

Mobile Health trends in 2016-20

- **Wearable & Smart Diagnostics**
- **Healthier Living**
- **TeleHealth**
- **Personalized Medicine**
 - (President Obama mentioned “personalized medicine for patients” within the first 2 min of his opening remarks during the STOU address on Jan 11, 2016)

Mobile Health Scenarios

- **Patient empowerment**
 - Patient involvement in care process across a wide range of lifestyles, including: support for long term conditions
- **Moving around a hospital**
 - EHR System services follow providers around a hospital
- **Independent living**
 - Assisted living drawing on a range of mobile services
- **Behavioural health**
 - Behavioural health support anytime, anywhere
- **Messaging (ranging from unsecure to secure)**
 - Bridging the health divide
- **Public/Population Health**
 - Disaster Management to PH outreach

OUR CHALLENGE

- There are over 165,000 mobile health apps
 - RIME OF THE MODERN TECHNOLOGIST - “mobile, mobile everywhere....none *talk* to anyone”
 - 12% of mHealth apps account for more than 90% of all consumer downloads
 - with nearly half of all downloads generated by just 36 apps
- “If you build them, will they come?”
- 90% of MH (and financial) apps are vulnerable to critical security risks
- Mobile Health app are projected to become a regular part of our care (over the next 5 years)

➤ THE GOLD RUSH.....

MOBILE HEALTH MARKET SIZE

- 2016 projection: > \$13B
- By 2017, it is estimated, the market for Mobile Health apps, will be...
 - \$26 billion
- By 2020:
 - > \$50B

MOBILE HEALTH MARKET TREND

- 1. Main driver: Ever increasing global smartphone users**
- 2. Young Customers will drive the market**
- 3. MH apps leveraging features of smartphones or tablets**
 - Location service
 - IM
 - Picture, Video
 - Gyroscope
 - Micro payment service
- 4. MH apps will be native rather than web-based applications**
- 5. Rise of MH app stores**
- 6. 2nd generation mHealth applications will focus on chronic diseases**
- 7. MH will push/expand/broaden the health business model**
- 8. MH apps entering traditional (health) distribution channels**
- 9. MH apps will bridge the global health divide**
- 10. Evolving MH standards**

HEALTHCARE IN THE 21st CENTURY

- Next generation: “iPAD™” kids
- Blurred Lines: Impact of Social Media
- Are we there yet: I want it NOW
- Take Charge: Consumer Health
- Gene to genes: from Star-Trek (Gene Roddenberry) to Genetic Health – personalized medicine
- Space – The Final Frontier: “Healthy” flight & living
- Back to the Future: longitudinal Health Record
- Live long & prosper: from provenance to preservation
- Emerging Areas: IoT (HoT), Big DATA, Open Data
- Global Village: Urban, Rural, Remote, Underserved
- “l'addition s'il vous plaît”: Mobile Payment
- MOBILE HEALTH LEADS THE CHARGE

SUMMARY!

- **MOBILE HEALTH**

- Not a vertical domain
- But a horizontal framework that cuts across and impacts all health care domains

- **As we transition to a digital record framework; (access, capture, dissemination of information) use of Mobile Health leads the way**

- **As Mobile Devices become more and more ubiquitous, accessing our Health Information is only a few tap/swipe away!**

- **HEALTHCARE IN 21st CENTURY**

- **Mobile Health Enterprise**

THANK YOU

gora@cal2cal.com

