Telemedicine
Smart glasses for better health management: the potential of remote assistance

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Agenda

1. DRC case

2. Telemedicine: a broader context
DRC case: a short movie

https://youtu.be/yQBc7tLkCBY
While Iristick focusses on commercial applications, Social in Motion makes this technology available for under-served populations.

- Smart safety glasses (Informed Reality)
- Launched June 2017 in CA, USA
- First to leverage the mobile phone
- First to offer iOS (next to Android)

- Making high quality health care accessible and affordable
- by leveraging scarce expertise
Use Cases in maternal care

1. Ante natal care: checks in Rural Health Centers (RHC)
2a. Delivery: uncomplicated start – uncomplicated end
2b. Delivery: uncomplicated start – complicated end; emergency; PAC
3a. Immediate neo-natal care (APGAR)
3b. Neo-Natal care: checks during critical first month (28d)
4a. Post natal consultation: mother
4b. Infant-Care: checks in RHC
DRC case: some facts

• 1 district hospital (Kingandu) and 3 rural health centers (RHC)
• 20,000 people in 18 villages
• 100 tele-consultation in last 4 months
  • visits to RHC increased by 45%
  • 1 out of 10 visits applies tele-consultation
  • +50% on maternal care
  • 45% of tele-consultations lead to referral to the district hospital
  • 60% of referrals are emergency cases
• Estimates for near future
  • 15 to 20 referrals per week for the 3 RHC
  • 1 emergency per day
• Success is
  • More villagers visite the RHCs
  • Less referrals
  • More relevant referrals
Telemedicine: 4 components

Technical Solutions
- Smart glasses
- Connectivity (VSATs)

Processes
- Communication flow
- Medical protocols
- Data capturing

Infrastructure
- Emergency motorcycle
- Rapid Diagnostics Tests

People
- Sensitization of villagers
- Nurse – doctor relation
- (financial) incentives
Agenda

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Telemedicine: 3 flavors

1. Store and Forward: HC worker posts question(s) and (volunteer) remote specialists provide answer(s) in 2 to 48 hours (crowdsourcing of solutions)

2. Engaging real time: HC worker is assisted real time by remote expert; multiple purposes are possible: observation, diagnosis, treatment, training

3. Remote Patient Monitoring
# Telemedicine: use cases

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