The Role of Innovation to End AIDS as a Public Health Threat by 2030

Reuben Granich, MD, MPH
Strategic and Scientific Advisor
International Association of Providers of AIDS Care
Disruptive innovations

• 90-90-90, cohort, simplify ART delivery, better regimens, vaccine, cure,
• Democratizing HIV testing
  – HIV Self Testing
  – Multi-disease prevention campaign
• Democratization of data
  – Wiki data visualization
    • Fast-Track Cities, HIV Policy Watch, HIV 90-90-90 Watch, Situation Room,
  – Crowd sourcing using iMonitor+ real time geolocation of data
    • Smart City
    • SANAC Sex Worker App
    • Kenya harm reduction App
Wiki public domain data visualization
We call on major cities to fast-track their AIDS responses by 2020:

- Frontloading investments and stepping up the pace of service delivery
- Strengthening and leveraging existing HIV programming for greater impact
- Scaling up HIV services, especially HIV testing and treatment
FAST-TRACK CITY INITIATIVE TARGETS

90% Of people living with HIV knowing their HIV status

90% Of people who know their HIV status on ART

90% Of people on treatment with suppressed viral load

0% Stigma and discrimination
FTCI INCLUDES ALL TYPES OF CITIES FROM ALL REGIONS OF THE WORLD
# CURRENT FAST-TRACK CITIES

<table>
<thead>
<tr>
<th>AFRICA</th>
<th>LATIN AMERICA/CARIIBBEAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Abidjan, Côte d’Ivoire</td>
<td>31. Buenos Aires, Argentina</td>
</tr>
<tr>
<td>2. Accra, Ghana</td>
<td>32. Curitiba, Brazil</td>
</tr>
<tr>
<td>3. Algiers, Algeria</td>
<td>33. Havana, Cuba</td>
</tr>
<tr>
<td>4. Atakpamé, Togo</td>
<td>34. Kingston, Jamaica</td>
</tr>
<tr>
<td>5. Bamako, Mali</td>
<td>35. Port-au-Prince, Haiti</td>
</tr>
<tr>
<td>6. Bamenda, Cameroon</td>
<td>36. Rio de Janeiro, Brazil</td>
</tr>
<tr>
<td>7. Bangui, CAR</td>
<td>37. Salvador da Bahia, Brazil</td>
</tr>
<tr>
<td>8. Blantyre, Malawi</td>
<td>38. Santa Fe, Honduras</td>
</tr>
<tr>
<td>9. Casablanca, Morocco</td>
<td>39. Santiago, Chile</td>
</tr>
<tr>
<td>10. Cotonou, Benin</td>
<td>40. San Miguelito, Panama</td>
</tr>
<tr>
<td>11. Dakar, Senegal</td>
<td>41. São Paulo, Brazil</td>
</tr>
<tr>
<td>12. Dar es Salaam, Tanzania</td>
<td>42. Amsterdam, Netherlands</td>
</tr>
<tr>
<td>13. Djibouti, Djibouti</td>
<td>43. Athens, Greece</td>
</tr>
<tr>
<td>14. Djougou, Benin</td>
<td>44. Brussels, Belgium</td>
</tr>
<tr>
<td>15. Douala, Cameroon</td>
<td>45. Bucharest, Romania</td>
</tr>
<tr>
<td>16. Durban, South Africa</td>
<td>46. Geneva, Switzerland</td>
</tr>
<tr>
<td>17. Kigali, Rwanda</td>
<td>47. Paris, France</td>
</tr>
<tr>
<td>19. Lagos, Nigeria</td>
<td>49. Delhi, India</td>
</tr>
<tr>
<td>20. Libreville, Gabon</td>
<td>50. Jakarta, Indonesia</td>
</tr>
<tr>
<td>21. Lilongwe, Malawi</td>
<td>51. Melbourne, Australia</td>
</tr>
<tr>
<td>22. Lomé, Togo</td>
<td>52. Mumbai, India</td>
</tr>
<tr>
<td>23. Lubumbashi, DRC</td>
<td>53. Atlanta, USA</td>
</tr>
<tr>
<td>24. Lusaka, Zambia</td>
<td>54. Baltimore, USA</td>
</tr>
<tr>
<td>25. Maputo, Mozambique</td>
<td>55. Denver, USA</td>
</tr>
<tr>
<td>26. Mbujiyimi, DRC</td>
<td>56. Mexico City, Mexico</td>
</tr>
<tr>
<td>27. Nairobi, Kenya</td>
<td>57. Miami, USA</td>
</tr>
<tr>
<td>29. Windhoek, Namibia</td>
<td>59. Providence, USA</td>
</tr>
<tr>
<td>30. Yaounde, Cameroon</td>
<td>60. San Francisco, USA</td>
</tr>
<tr>
<td>61. Washington, DC, USA</td>
<td></td>
</tr>
</tbody>
</table>
IMPLEMENTATION PLAN

PROGRAMS INTERVENTIONS

90-90-90 & Zero Discrimination

M & E

RESOURCE MOBILIZATION

COMMUNICATIONS

PROCESS & OVERSIGHT
INTERACTIVE DATA VISUALIZATIONS
CITY DASHBOARD FEATURES HIV RESPONSE

MESSAGE FROM THE MAYOR

“We all share the same certainty: We no longer have the right to see and bear the worsening of the HIV epidemic when solutions exist. And because these solutions exist, we have no excuse for inaction. AIDS is a political fight, so I want to say it loud and clear: Paris is committed to ending the AIDS epidemic.”

- Anne Hidalgo
  Mayor, Paris
POWERFUL MAPPING OF HIV SERVICES

Paris

MESSAGE FROM THE MAYOR

"We all share the same certainty: we no longer have the right to see and bear the worsening of the HIV epidemic when solutions exist. And because these solutions exist, we have no excuse for inaction. AIDS is a political fight, so I want to say it loud and clear: Paris is committed to ending the AIDS epidemic."

- Anne Hidalgo
Mayor, Paris

PLHIV in care - 2013

90-90-90 targets

<table>
<thead>
<tr>
<th></th>
<th>PLHIV diagnosed</th>
<th>PLHIV on ART</th>
<th>PLHIV on ART virally suppressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paris</td>
<td>81%</td>
<td>82%</td>
<td>94%</td>
</tr>
</tbody>
</table>

IATAC
INTERNATIONAL ASSOCIATION OF PROVIDERS OF AIDS CARE
HANDHELD FTCI APPLICATION THAT ALLOWS FOR REAL TIME DATA COLLECTION
Help for sex workers now a cellphone away

The government is to start offering sex workers legal support. This has emerged at the launch of the National Sex Workers HIV Plan in Johannesburg.

Sex workers have found it difficult to access health services because of discrimination. The government is hoping the health plan and the legal support will ease some of these challenges.

CEO of the South African National AIDS Council Fareed Abdullah says the support will be as accessible as a cellphone application.
iMonitor + Smart Cities

SMART CITIES
VERSION v1.0

Please select the language preferences

GET STARTED

Powered By

Dure Technologies
UNLOCKING REAL VALUE OF DATA

Select your City

- Johannesburg
  United States
- San Francisco
  United States
- New Delhi
  India
- Torino
  Italy
- London
  United Kingdom
- Washington
  United States
NEXT STEPS

• Bring twenty+ cities with dashboards online
• Use platform to support Fast Track Cities 90-90-90 and Zero discrimination
• Consider deep dive to use powerful community drive crowd sourcing
• See IAPAC-Dure Tech team to start your Cities build!
**Russian Federation**

HIV continuum of care (Last updated: June, 2016)

- **Year:** 2013

- **People living with HIV (PLHIV):**
  - Estimated PLHIV: 1,363,330
  - PLHIV diagnosed: 664,032
  - PLHIV on ART: 156,858
  - PLHIV on ART with viral suppression: 127,054

- **Estimated PLHIV diagnosed (Target: 90%):** 49%
- **PLHIV diagnosed on ART (Target: 90%):** 23%
- **PLHIV on ART with viral suppression (Target: 90%):** 81%

- **Percentages above calculated using estimated people living with HIV (PLHIV) as denominator.**

**Click here for Methods.**


---

**Message from CEO & President**

- **PLHIV diagnosed**
- **PLHIV on ART**
- **PLHIV with viral suppression**

**Message from CEO & President**

- **PLHIV diagnosed**
- **PLHIV on ART**
- **PLHIV with viral suppression**
Help for sex workers now a cellphone away

Saturday 12 March 2016 16:25

SABC

The government is to start offering sex workers legal support. This has emerged at the launch of the National Sex Workers HIV Plan in Johannesburg.

Sex workers have found it difficult to access health services because of discrimination. The government is hoping the health plan and the legal support will ease some of these challenges.

CEo of the South African National AIDS Council (SANAC) Fareed Abdullah says the support will be as accessible as a cellphone application.
iMonitor+ - SANAC Sex Worker Program

Request a Service

- Request Legal Advice
- Report Human Rights Abuse
- Report Stigma
- Request Condoms
Real-Time Monitoring – Kenya Harm Reduction

Kenya RTM
A real time monitor for PWID services.
iMonitor + Smart Cities

SMART CITIES
VERSION v1.0

Please select the language preferences

GET STARTED

Powered By

Dure Technologies
UNLOCKING REAL VALUE OF DATA

Select your City

- Johannesburg
  United States

- San Francisco
  United States

- New Delhi
  India

- Torino
  Italy

- London
  United Kingdom

- Washington
  United States
Thank you
Ministry of Public Health - THAILAND

- **Key Population Covered:**
  - FSW
  - PWID
  - MSM
  - TG

- **Functionalities:**
  - Registration
  - Recruitment
  - Testing
  - Treatment
  - Retain
  - Indicators & Reports
  - Alerts

Thailand Real-Time Cohort Monitoring Key Pops
Fast-Track Cities – Global Portal

Projected numbers in 2016 as of Monday, October 10, 2016 09:42:15 AM

- AIDS related-deaths in 2016: 774,272
- New HIV Infections in 2016: 1,625,665
- People receiving ART: 18,554,147
- People living with HIV: 37,242,007

Mayor’s Message

“San Francisco is a national leader in treatment, housing and compassionate care for people living with HIV/AIDS and our record investments provide hope to one day bringing an end to this epidemic. As a Fast-Track City with a vision of Getting to Zero, we are committed to preventing new infections, linking and sustaining people in care.”
Fast-Track Cities – City Portal

Paris 90-90-90 Targets (2014)
- PLHIV diagnosed: 81%
- PLHIV diagnosed on ART: 82%
- PLHIV on ART and virally suppressed: 94%

Paris HIV Care Continuum (2014)
- PLHIV diagnosed: 81%
- PLHIV in care: 69%
- On ART: 66%
- PLHIV virally suppressed: 62%

Message from the Mayor

'Ve all share the same certainty: We no longer have the right to see and bear the worsening of the HIV epidemic when solutions exist. And because these solutions exist, we have no excuse for inaction. AIDS is a political fight, so I want to say it loud and clear: Paris is committed to ending the AIDS epidemic.'

- Anne Hidalgo
Mayor of Paris, France

Interactive Menu
- PLHIV in care
- New admissions in HIV care
- Total population

HIV Services
- CBSOs
- Screening Centers
- Hospital facilities

Data Overlays
- Poverty rate
- PLHIV in care
- Percentage of 15+ (no diploma)

PLHIV in care - 2013

Map data ©2016 Google
Terms of Use Report a map error

Data Source: CNAMTS (Caisse Nationale d'Assurance Maladie des Travailleurs Salariés, Regime Social Des Independants)
Fast-Track Cities – Data Visualization
HIV Policy Watch
iMonitor+ - Smart Cities

Citizens can notify Local Administration INSTANTLY about issues and services.

San Francisco, in northern California, is a hilly city on the tip of a peninsula surrounded by the Pacific Ocean and San Francisco Bay. It's known for its year-round fog, iconic Golden Gate Bridge, cable cars and colorful Victorian houses. The Financial District’s Transamerica Pyramid is its most distinctive skyscraper. In the bay sits Alcatraz Island, site of the notorious former prison.
iMonitor+ - Smart Cities

Collecting Real-time data, alerts and notifications

- Coordinated citizen services
- Instant sharing of information
- Real view of citizen needs
- Proactive, intelligent actions
- Real-time surveys to understand community needs
- Improved public-private relationships
- Effective use of public resources
- Community support
- Providing meaningful information for all the stakeholders

Smart City

- Individuals
- Local Mayor
- Business
- Service Providers
iMonitor+ - Smart Cities

Open Data displayed in real-time to provide geo-localised info relevant to citizens.