# HPTN071 (PopART)

**3rd 90 Best Practices Meeting**
**Universal Test and Treat – Achieving Universal Viral Suppression**
**9:00am – 9:15am**
**Lessons learned from regarding HCT uptake,**
**linkage to HIV care, adherence, retention, and viral suppression**

**Blia Yang and Dr Kerry Nel**

# Role of CHiPs 242

## Community HIV Care Providers

- Deliver a combination prevention package door-to-door in the community

## Combination Prevention Package

- Home-based HIV Testing
- Screen for TB, STI
- Provision of condoms
- Refer for HIV Care, PMTCT, TB Rx, STI Rx, MMC (SACTWU)
- Active Follow Ups to homes and Linkage to Care (work in partnership with the Western Cape Govt Dept of Health, City of Cape Town Health Directorate, ANOVA, Kheth'Impilo)

# Round 1

**Combination prevention packages are delivered annually**

- 58,980 households visited
- 104,529 consented to the PopART Intervention
- 93,093 adults tested for HIV

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# CHiPs Collecting Data in the Field

PEPFAR U.S. President's Emergency Plan for AIDS Relief

International Initiative for Impact Evaluation

Bill & Melinda Gates foundation

National Institute of Allergy and Infectious Diseases

National Institute of Mental Health

U.S. Department of Health and Human Services
National Institutes of Health
NIDA National Institute on Drug Abuse

NIH National Institutes of Health

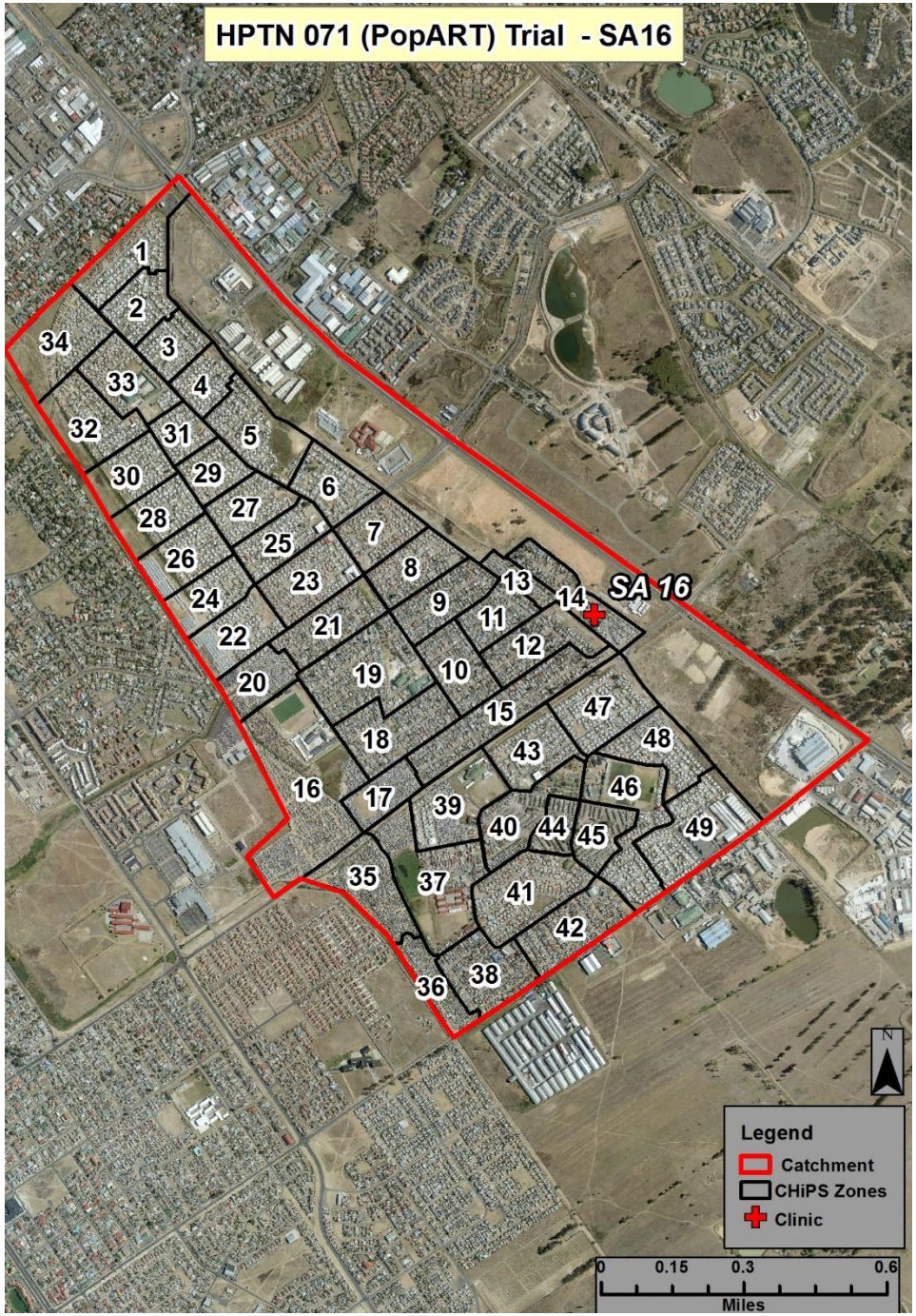
# CHiPs EDC (electronic data capture device)

**EDC – Software development**

- Captures:
  - GPS location
  - Questionnaire

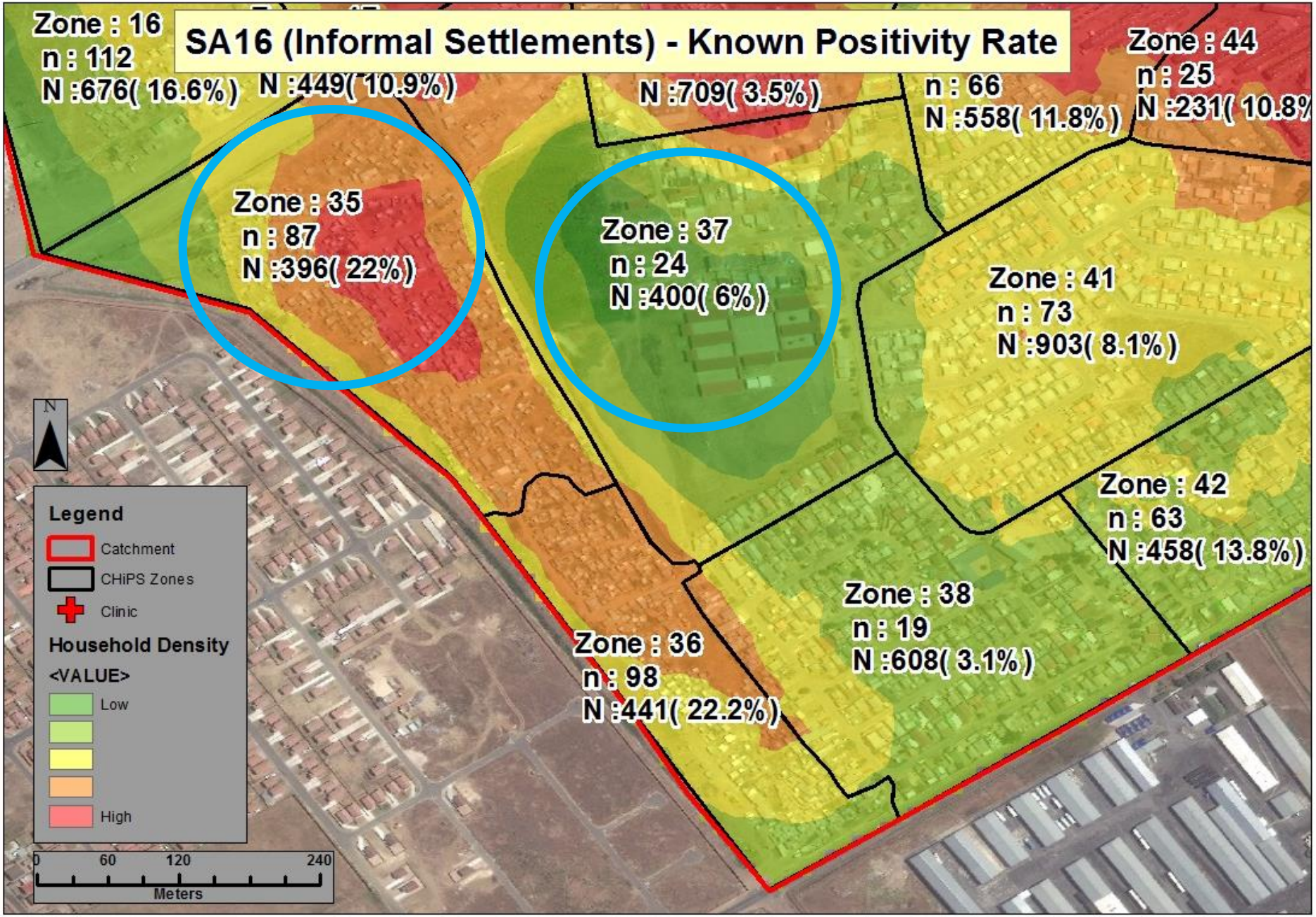
- Wifi connectivity

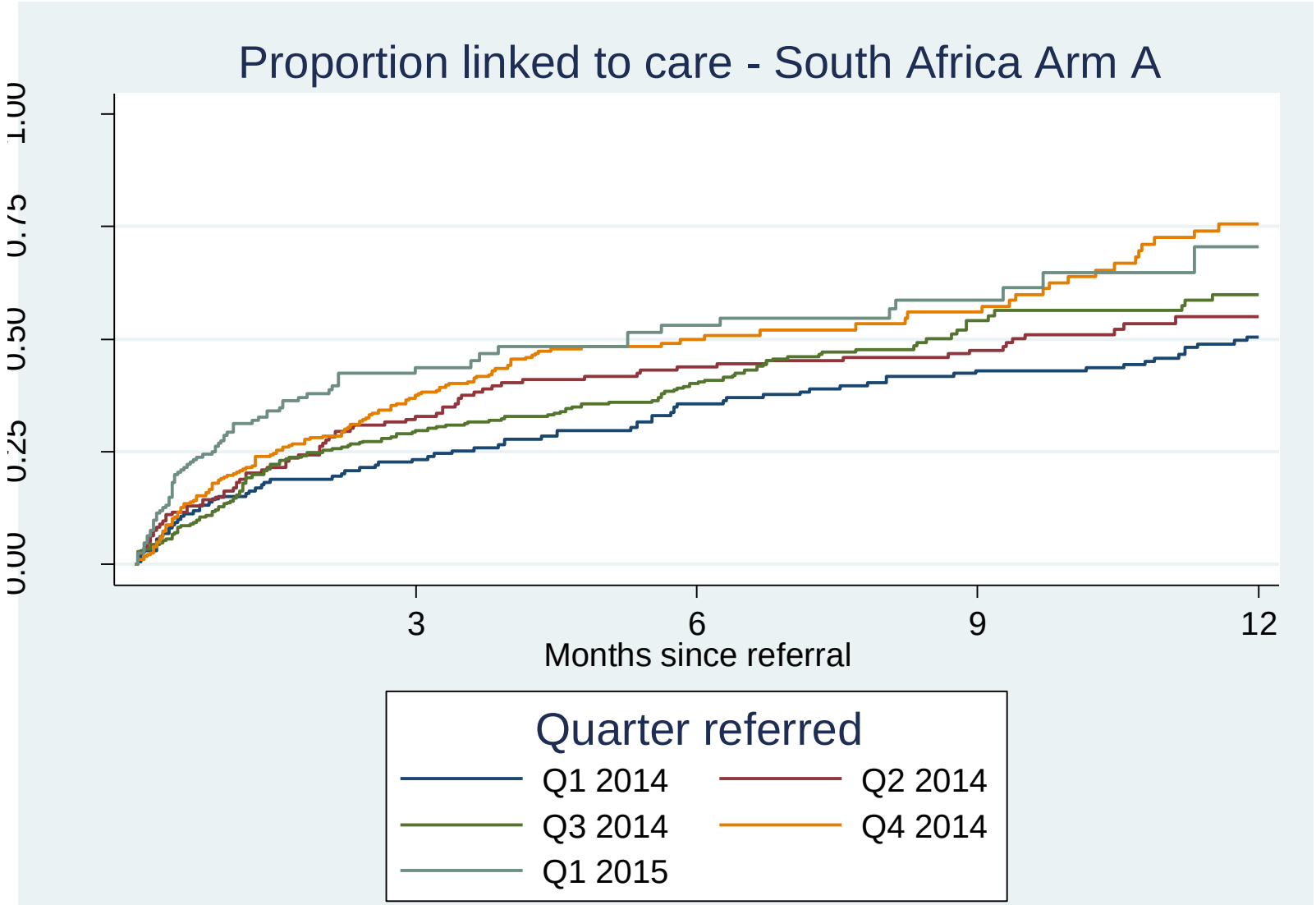
- Follow ups on HIV & TB are triggered from the server



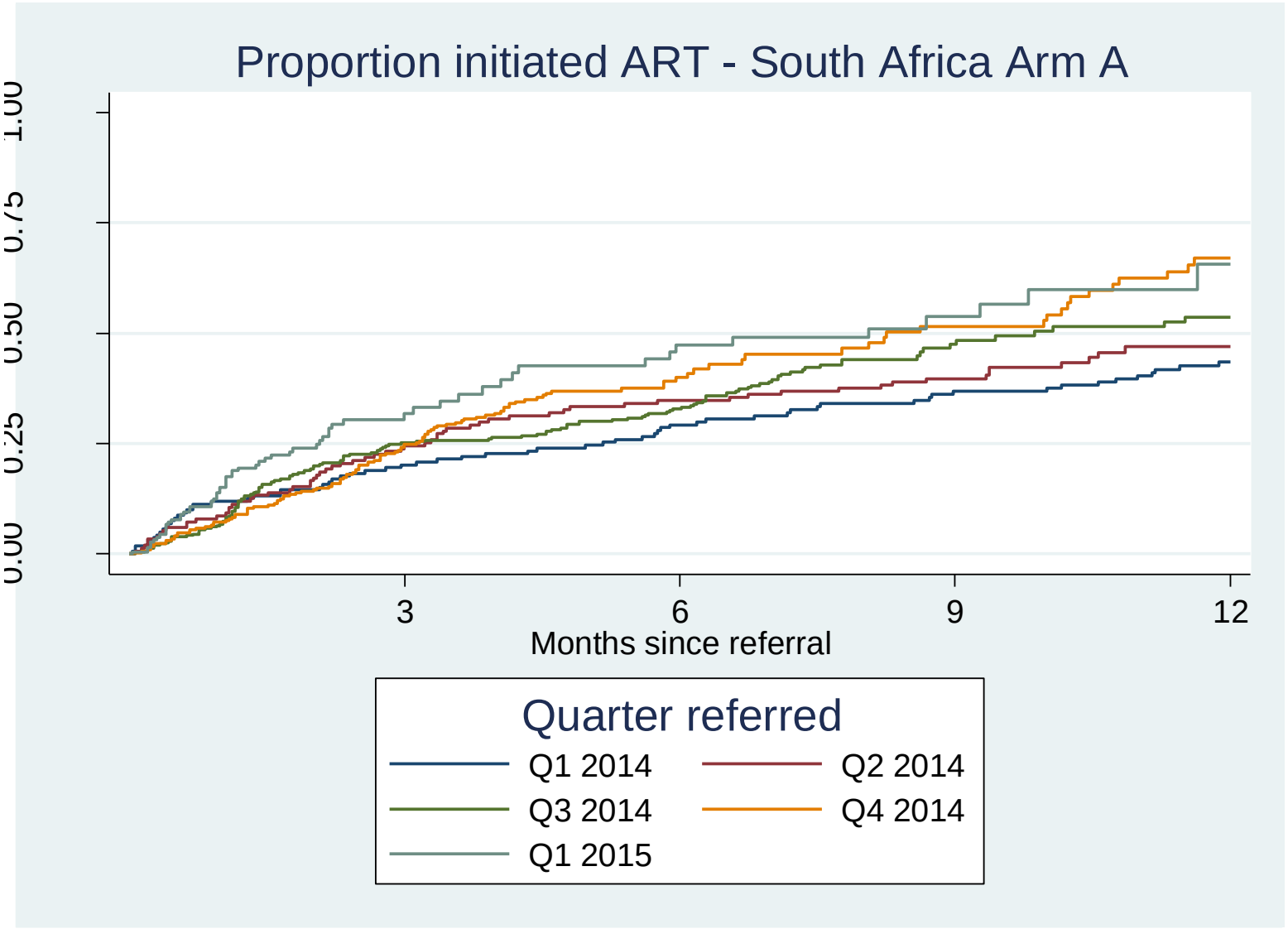

## Division of zones

- Catchment area = approx. 25,000 individuals
- Each zone approx 300 to 500 households
- All 6 sites (168 zones)
- 242 CHiPs working in 6 sites
- 1 CHiP team per zone (consists of 2 CHiPs)
- Example SA 16: 49 zones,


SA16 (Informal Settlements) - Known Positivity Rate
Zone : 16
n : 112
N :676( 16.6%)
N :449( 10.9%)
N :709( 3.5%)
n : 66
N :558( 11.8%)
Zone : 44
n : 25
N :231( 10.8%
Zone : 35
n : 87
N :396( 22%)
Zone : 37
n : 24
N :400( 6%)
Zone : 41
n : 73
N :903( 8.1%)
Zone : 42
n : 63
N :458( 13.8%)
Zone : 38
n : 19
N :608( 3.1%)
Zone : 36
n : 98
N :441( 22.2%)
N
Legend
Catchment
CHiPS Zones
Clinic
Household Density
<VALUE>
Low
High
0
60
120
240
Meters




- **Qtr1 2014:** 51% linked to HIV care within 12 months of a CHiP referral
- **Qtr 1 2015:** 71% linked to HIV care within 12 months of a CHiP referral




- **<u>Qtr1 2014</u>: 43% initiated on ART within 12 months of a CHiP referral**
- **<u>Qtr 1 2015</u>: 66% initiated on ART within 12 months of a CHiP referral**

# Progress, Challenges, Strategies

**Progress**

- High uptake of PopART Intervention
- High uptake of home-based HIV Counselling & Testing
- CHiPs & clients good relationship

**Challenges**

- Working in the field: difficult weather conditions & social economic conditions
- Migration
- Bridging the gap between the community and the clinic for clients
- Quality Control of HIV rapid tests in the field
- Quality Assurance of HIV rapid testing in the field

**Strategies**

- Psycho-social support is provided for the staff
- Working with health services for better linkage to care
- Provided all staff with cellphones to arrange appointments with clients in the field
- Started Internal Quality Control system & purchased electronic temperature monitoring system
- Enrolled into the CDC HIV Proficiency Testing Scheme

TB FreeKids
TB FreeKids
TB FreeKids
TB HIV TB

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# Lessons learned within the PopART clinic intervention

DR KERRY NEL (DTTC/CITY OF CAPE TOWN)

PEPFAR U.S. President's Emergency Plan for AIDS Relief

International Initiative for Impact Evaluation

Bill & Melinda Gates foundation

National Institute of Allergy and Infectious Diseases

National Institute of Mental Health

U.S. Department of Health and Human Services NATIONAL INSTITUTES OF HEALTH NIDA NATIONAL INSTITUTE ON DRUG ABUSE

NIH National Institutes of Health

# Lessons learnt

1. Increase HCT in facility (as well as in community)
2. Increase uptake of universal test and treat by closing gaps in facility in LTC including targeting “pre ART” clients
3. Increase the proportion of clients receiving ART in adherence clubs

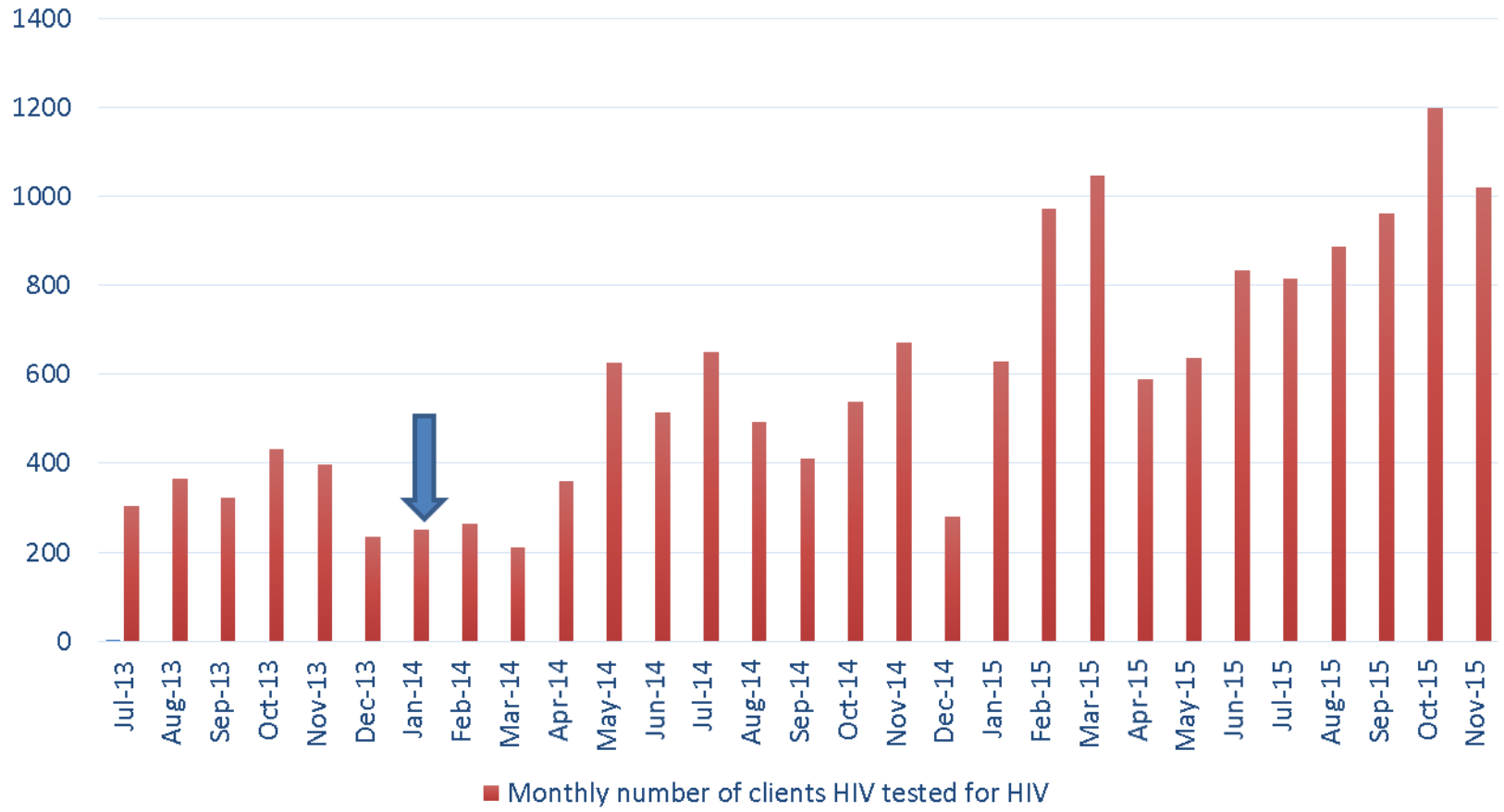
# Background

- Universal Test and Treat (UTT) in PopART (HPTN071) Arm A facilities
- 2 in Cape Metro and 1 in Cape Winelands
- Extra staff recruited (e.g. SA 16 clinic: 1 MO, 2 PN, 1 DC, 2 counsellors, 3 CCW)

# HCT in facility

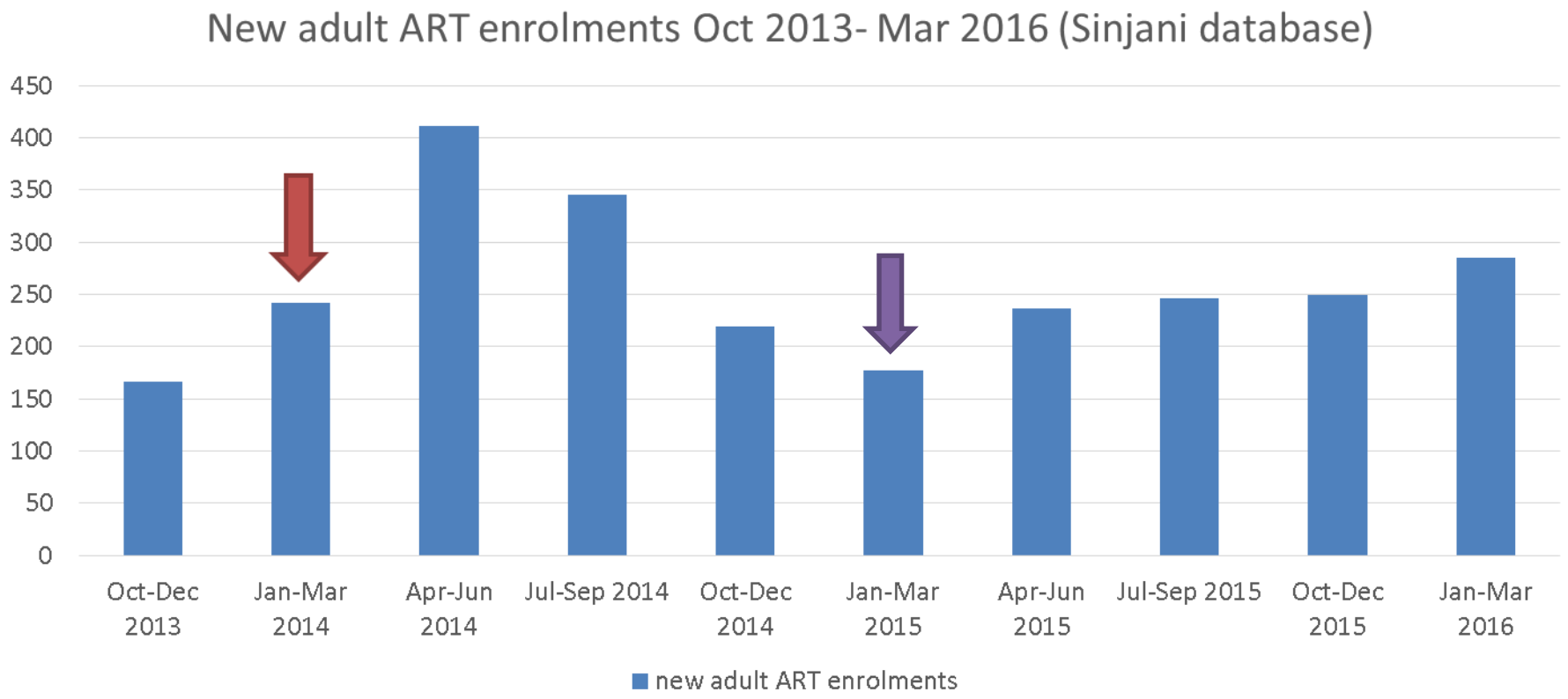
- Increased even on a background of high PICT

# Number of clients tested for HIV (monthly) Community 16 (Jul 2013-Nov 2015)

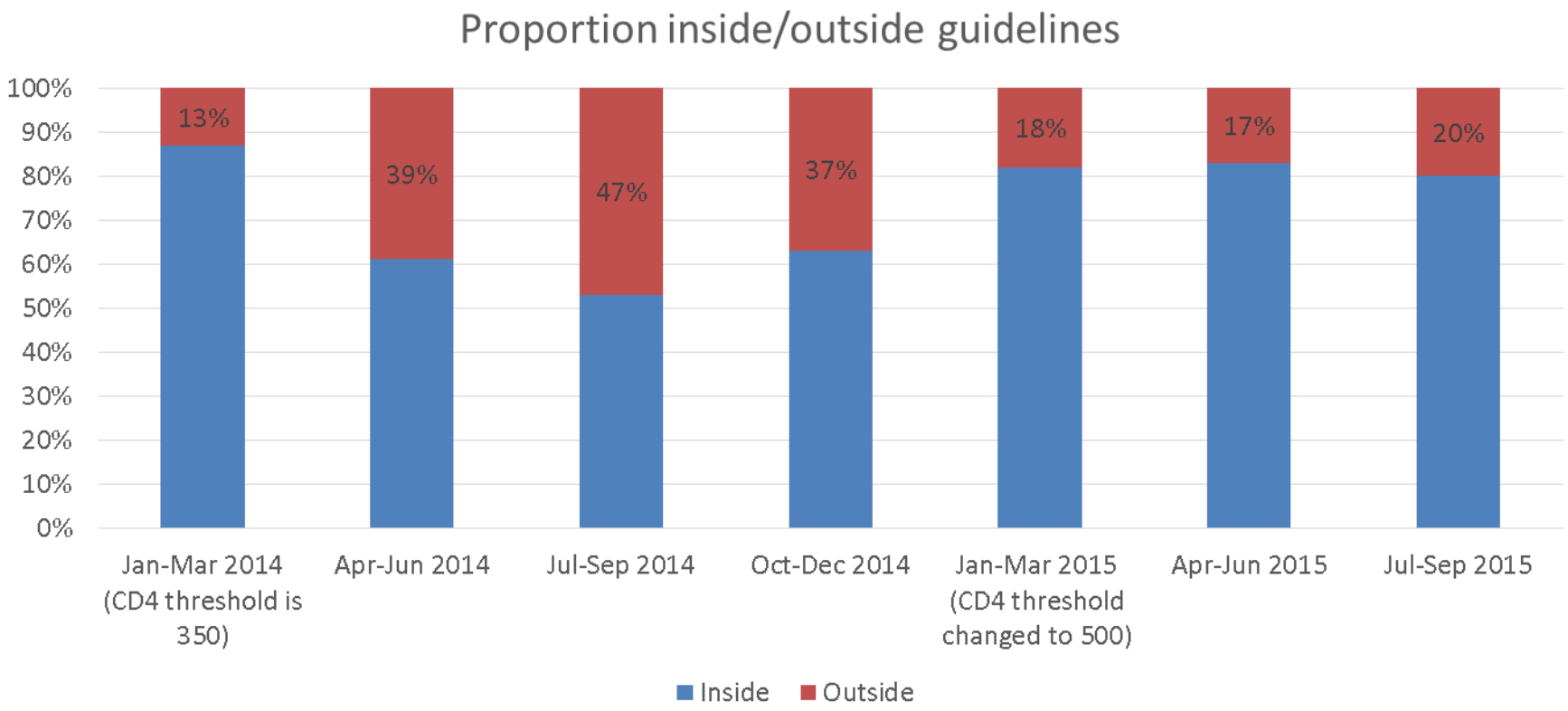


# Increase uptake of UTT by targeting Pre-ART “wellness” clients

# SA 16


New adult ART enrolments Oct 2013- Mar 2016 (Sinjani database)
450
400
350
300
250
200
150
100
50
0
Oct-Dec 2013
Jan-Mar 2014
Apr-Jun 2014
Jul-Sep 2014
Oct-Dec 2014
Jan-Mar 2015
Apr-Jun 2015
Jul-Sep 2015
Oct-Dec 2015
Jan-Mar 2016
new adult ART enrolments

# ART enrolments according to ART eligibility SA 16



# Increase the proportion of clients receiving ART in adherence clubs

# Background

- ART retention in care and viral load suppression superior in ART adherence clubs[1]
- ART clubs systems are already well established
- Cape Metro club enrolment is 32% of total remaining in care on ART (March 2016)
- New club model (Cape Town Metro): *clubs as the core of the ART service*

- [1]Luque-Fernandez (PLOS One, 2013)

# Increase the proportion of clients receiving ART in adherence clubs

- "recruitment drive" for adherence clubs in SA 16 clinic (April 2016)
- Arm A clinic with approx. 5000 patients on ART
- Folder review- all clients attending clinic for ART (i.e. not yet in clubs)
- Aim: determine what proportion receiving care "in-facility" are eligible for club care

| Potential for club RIC - March 2016 data | |
|---|---|
| Total remaining in ART care | 4899 |
| Remaining in ART care in clubs | 2279 |
| March 2016 % in club care | 47% |
| RIC in facility | 2620 |
| 23% of in-facility patients eligible for clubs | 603 |
| Potential club patients | 2882 |
| **Potential % in club care** | **59%** |

- Source: Dr E. Roberts (Kheth'Impilo), Dr B. Harley (City of Cape Town)

| Club recruitment eligibility | | |
|---|---|---|
| Total screened | 376 | |
| Excluded from analysis | 124 | |
| *- Already in a club* | *4* | |
| *- Temporary folder* | *120* | |
| **Eligibility determined (total)** | **128** | |
| **Eligible** | 29 | **23%** |
| **Not eligible** | 99 | **77%** |

- Source: Dr E. Roberts (Kheth'Impilo), Dr B. Harley (City of Cape Town)

| Patients eligible for club recruitment | | |
|---|---|---|
| Enrolled | 19 | 66% |
| Buddy Sent | 6 | 21% |
| Pamphlet provided | 4 | 14% |
| **Total Eligible** | **29** | **100%** |

- Source: Dr E. Roberts (Kheth'Impilo), Dr B. Harley (City of Cape Town)

| Patients not eligible for club (Ikhwezi clinic) | | |
|---|---|---|
| < 6 months on treatment or newly diagnosed | 35 | 35% |
| Defaulted ART | 10 | 10% |
| No recent VL | 17 | 17% |
| Not virologically supressed | 10 | 10% |
| on TB treatment | 9 | 9% |
| Renal impairment | 1 | 1% |
| Pregnant | 4 | 4% |
| Less than 18 years old | 2 | 2% |
| Transfer in | 7 | 7% |
| Transfer out | 2 | 2% |
| Migratory patient | 1 | 1% |
| Old folder | 1 | 1% |
| **Total not eligible** | **99** | **100%** |

- Source: Dr E. Roberts (Kheth'Impilo), Dr B. Harley (City of Cape Town)

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- Source: Dr E. Roberts (Kheth'Impilo), Dr B. Harley (City of Cape Town)

Photo credit: ANOVA Health

English - ***Thank you***
IsiXhosa - ***Enkosi***
Afrikaans - ***Dankie***
IsiNdebele - ***Ngiyathokoza***
Sesotho - ***Ke a leboha***
Northern Sotho - ***Ke a leboga***
Setswana - ***Ke a leboga***
SiSwati - ***Siyabonga***
Xitsonga - ***Inkomu***
Tshivenda - ***Ndo livhuwa / Ro livhuwa***
IsiZulu - ***Ngiyabonga***

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LONDON SCHOOL of HYGIENE &TROPICAL MEDICINE

Imperial College London

Zambart Project

DESMOND TUTU TB CENTRE · SENTRUM · IZIKO — Every breath counts

UNIVERSITEIT STELLENBOSCH UNIVERSITY

**The HPTN 071 Study Team, led by:**

Dr. Richard Hayes, Protocol Chair, LSHTM

Dr. Sarah Fidler, Protocol Co-Chair, Imperial College

Dr. Helen Ayles, Zambia PI, Zambart

Dr. Nulda Beyers, South Africa PI, Desmond Tutu TB Centre

fhi360 THE SCIENCE OF IMPROVING LIVES

Statistical Center for HIV/AIDS Research & Prevention SCHARP

JOHNS HOPKINS SCHOOL of MEDICINE

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Desmond Tutu TB Centre • Sentrum • Iziko — University i Stellenbosch i Universiteit — Every breath counts

## Government Agencies:

CDC — Centers for Disease Control and Prevention

USAID — From the American People

Western Cape Government — Health — Better Together.

City of Cape Town — Isixeko Sasekapa — Stad Kaapstad — Making progress possible. Together.

## Implementing Partners:

Kheth'Impilo — Choose Life for an AIDS Free Generation

Southern African Clothing and Textile Workers Union

ANOVA Health Institute — Trust / Support / Innovate

PEPFAR Implementing Partners

ZPCT — Zambia Prevention, Care and Treatment Partnership

CIDRZ — For a healthy Zambia

SCMS

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  - NIAID, the National Institute of Mental Health (NIMH), the National Institute on Drug Abuse (NIDA)