

# Working with HIV: The India Way



**PROTECT YOURSELF  
RESPECT YOURSELF  
SPREAD AWARENESS  
ABOUT**

**AIDS**

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New Delhi**

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# Acknowledgements

National AIDS Control Organisation & National AIDS Control Programme, Ministry of Health & Family Welfare, Govt. of India

NIMS (ICMR), NIHFWS, New Delhi & Other National & Regional Institutes working on HIV Sentinel Surveillance & HIV Estimations

UNAIDS, WHO & Other Development Partners

State AIDS Control Societies & Communities

# Outline

1

- Journey So Far & Achievements

2

- Guiding Principles & Key Approaches

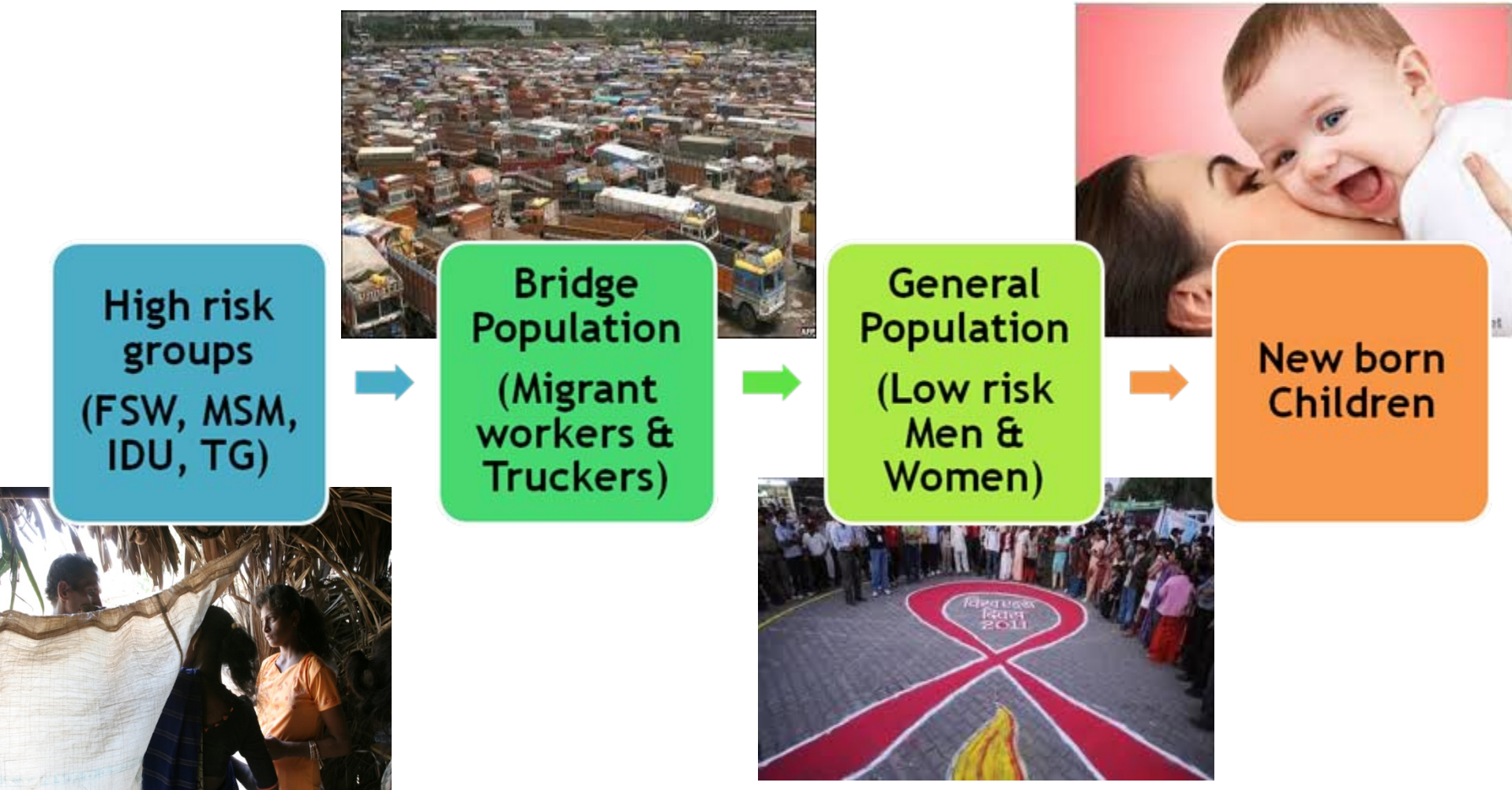
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- Current Challenges

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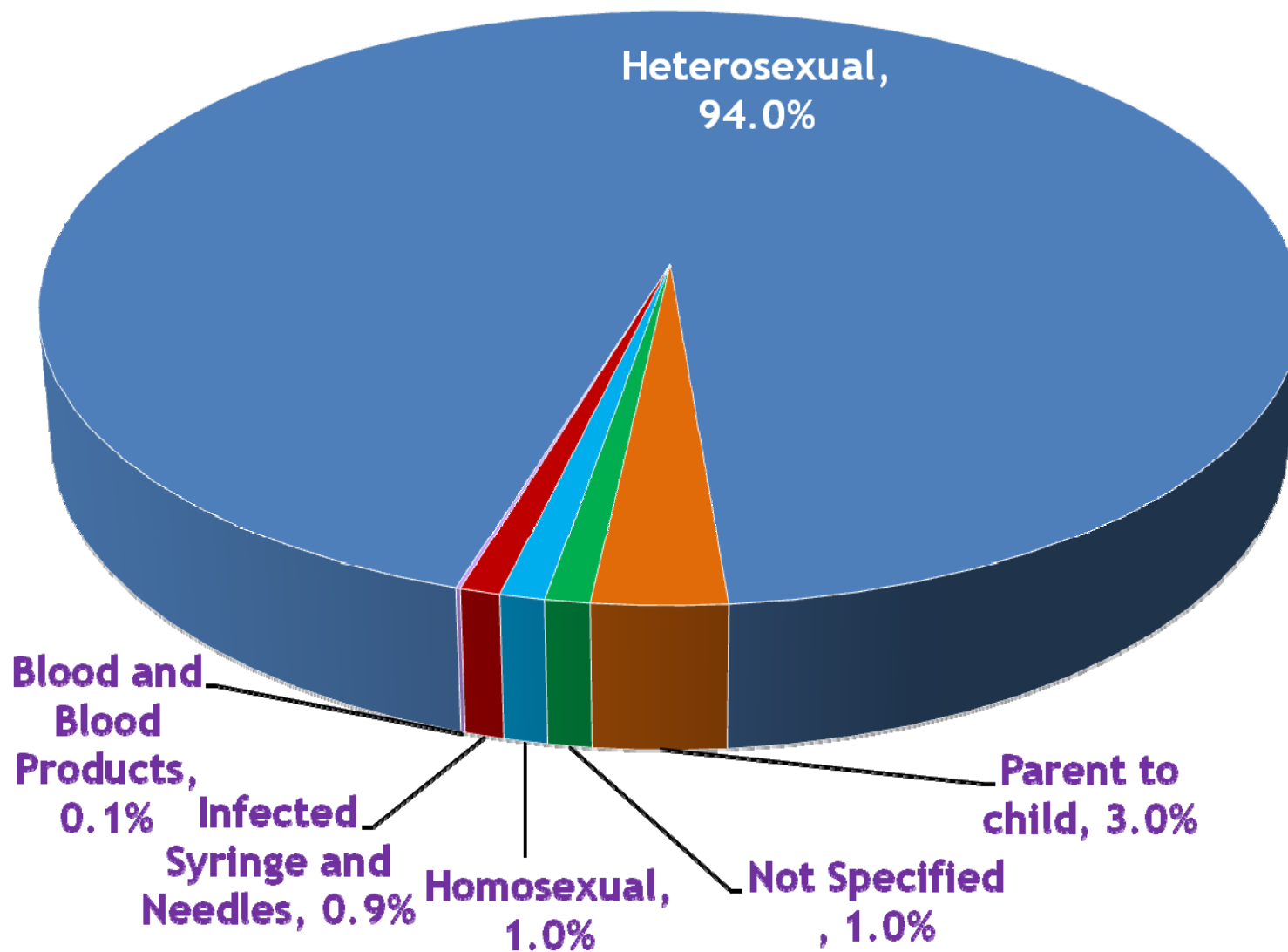
- Post-MDG Scenario & Priorities

# Concentrated Epidemic among Key Risk Groups



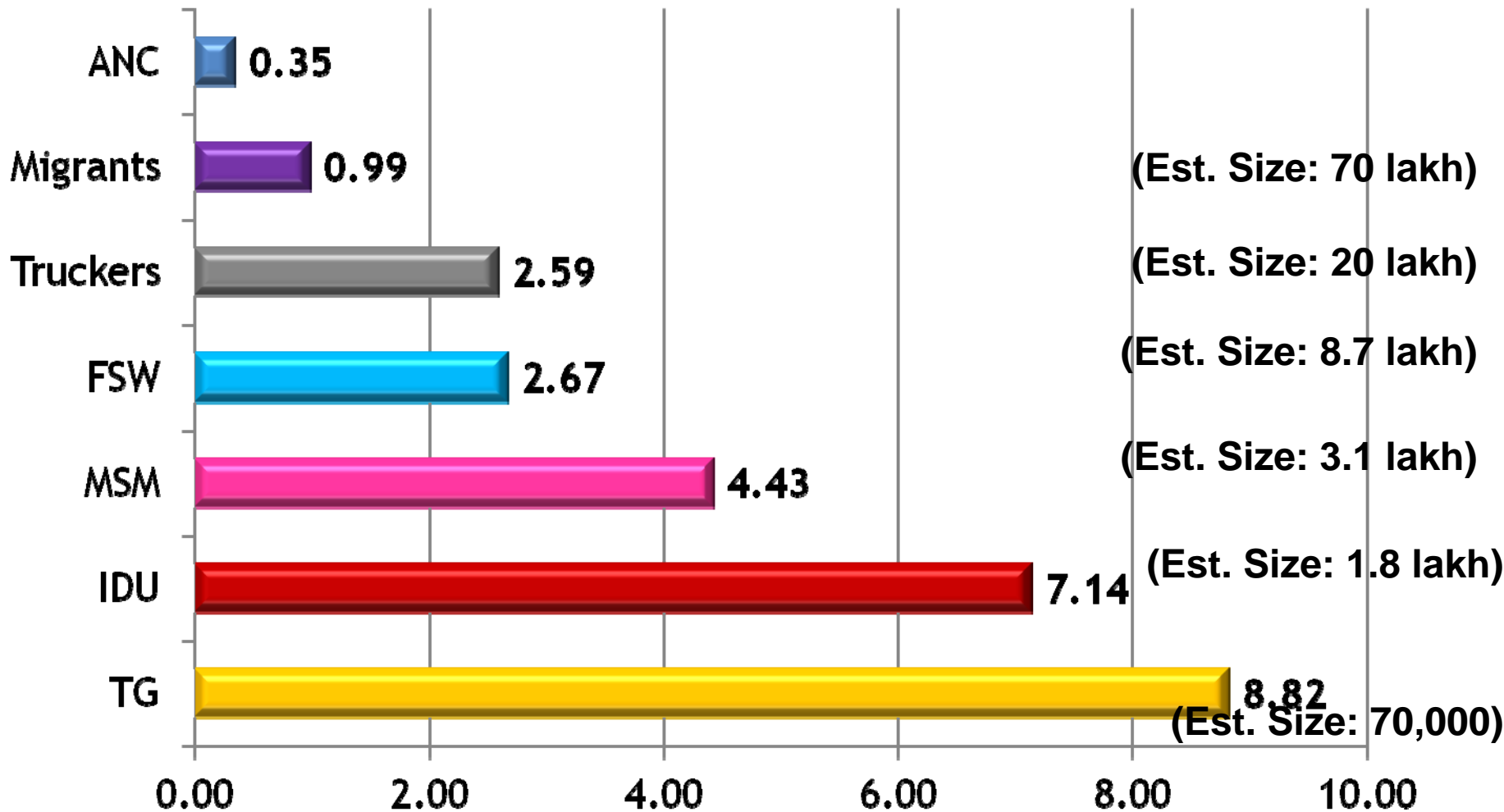
FSW: Female Sex Workers; MSM: Men who have sex with Men; IDU: Injecting Drug Users; TG: Transgenders/ Hijras

# Routes of HIV Transmission, 2014-15



# HIV Concentrated among HRG & Bridge Population

## HIV Prevalence (%)



**JOURNEY SO FAR &  
ACHIEVEMENTS IN HIV/AIDS  
PREVENTION & CONTROL**

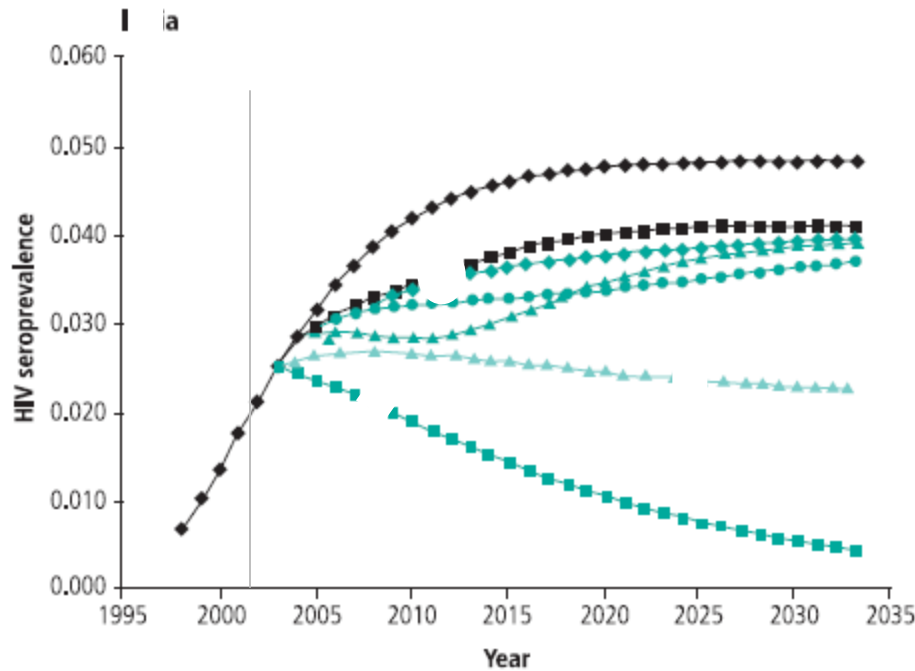
# HIV in India...grim projections earlier, but a global success story today

Early 2000's...projections



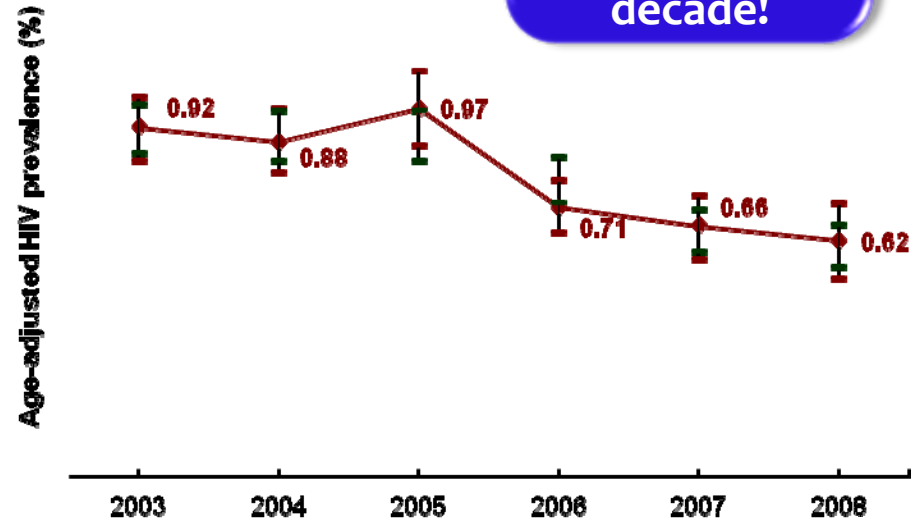
Today...

56% reduction in new infections over the last decade!



20-25 million people projected to be living with AIDS by 2010 (highest number in any country in the world)

Source: National Intelligence Council (2002) 'The Next wave of HIV/AIDS: Nigeria, Ethiopia, Russia, India and China', September, p.3

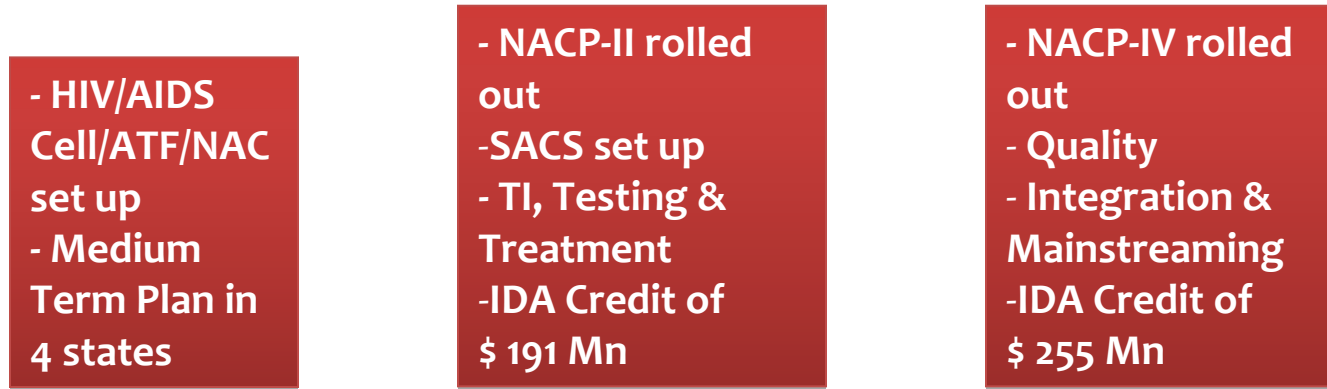


0.31% adults infected  
2.3 million people living with HIV

Source: HIV Estimations, 2010 & NACO's ANC Sentinel Surveillance data. Consistent ANC sites for the age group 15-24 were analysed



# India's Response to HIV/AIDS



- HIV/AIDS Cell/ATF/NAC set up  
- Medium Term Plan in 4 states

- NACP-II rolled out  
- SACS set up  
- TI, Testing & Treatment  
- IDA Credit of \$ 191 Mn

- NACP-IV rolled out  
- Quality  
- Integration & Mainstreaming  
- IDA Credit of \$ 255 Mn

1986      1990      1992      1999      2007      2012

1<sup>st</sup> case of HIV/AIDS

- NACP-I launched  
- NACO set up  
- Surveillance, IEC & Blood Safety  
- IDA Credit of \$ 84 Mn

- NACP-III rolled out  
- Massive scale up  
- District level - DAPCUs  
- Evidence of Impacts  
- IDA Credit of \$ 516 Mn

# Evolution of India's National AIDS Programme





# 1990s - AIDS treatment unaffordable due to patents

1964

- Zidovudine first patented

Thereafter

- Tested as cancer treatment and shelved

1984 & 85

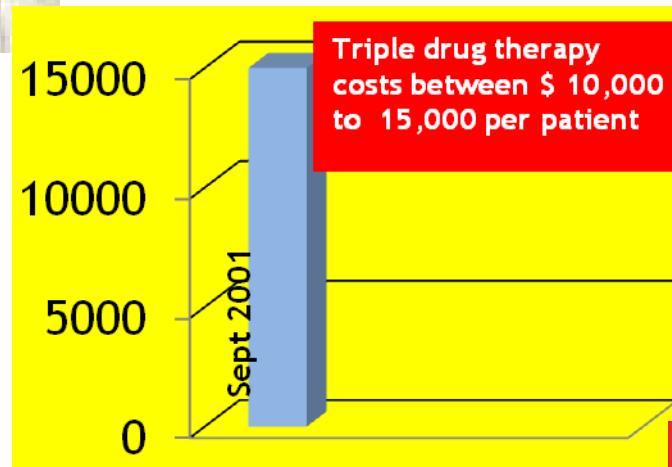
- Discovered to work against HIV. Patent granted on new use (HIV) to GSK.

1987

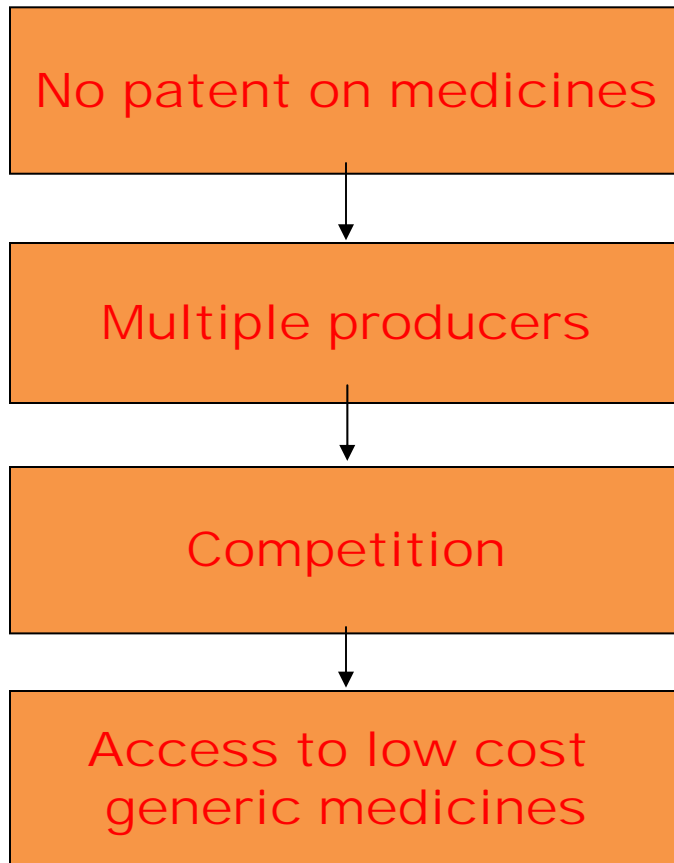
- In 1987, it became the first anti HIV drug approved by the USFDA. One year's supply cost \$10,000



By the late 1990s, it was medically established that triple HAART can be used to treat AIDS. But...



# India's System of Generic Production of Drugs



\$1 a day price in 2001 from Indian generic companies

WHO Issued Statement (09 Feb 2001) on criticality of new offers of low cost ARV Medicines in improving access to treatment for AIDS

# Generic Drugs - Vital in National Programmes

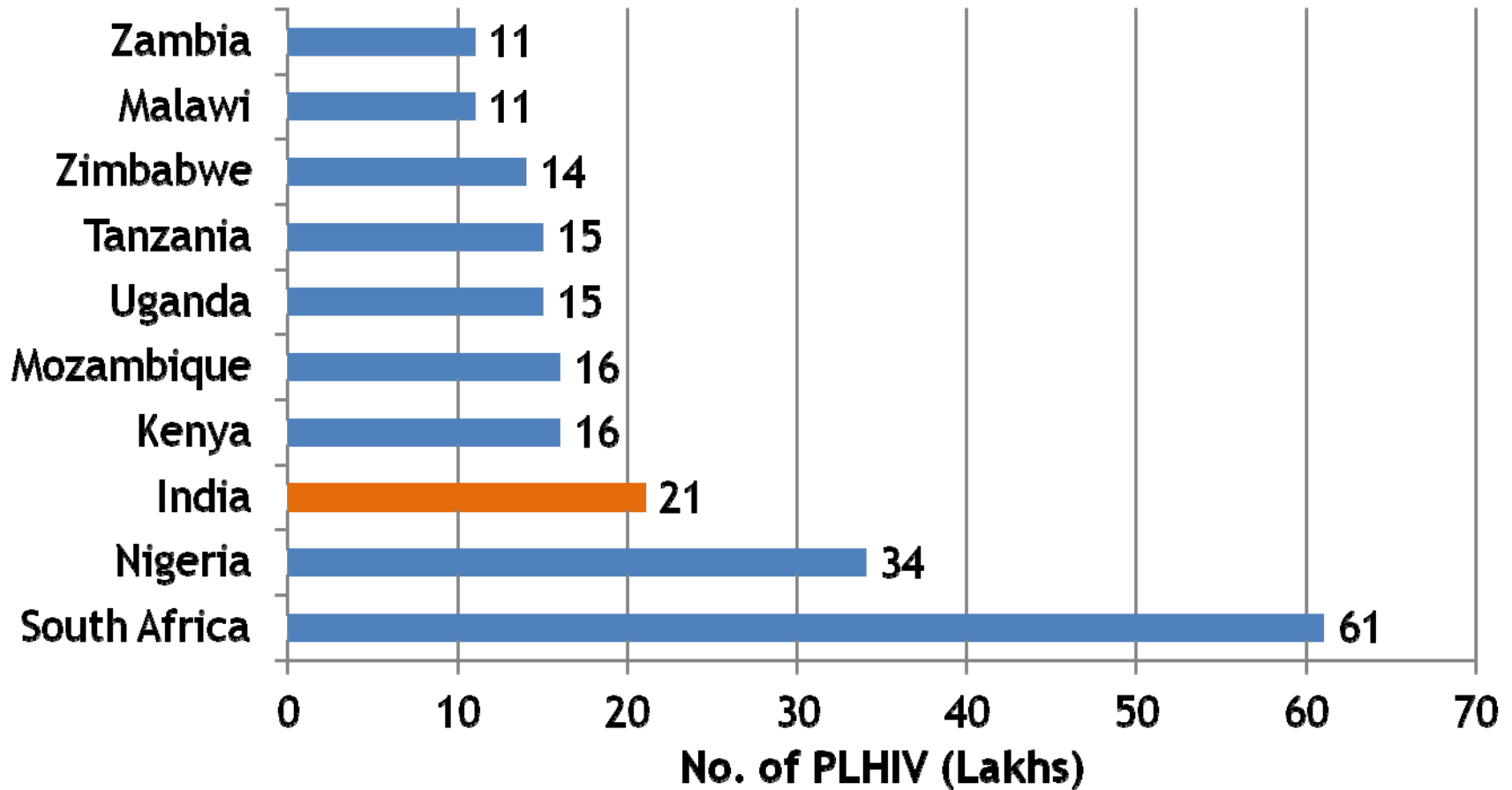


- Scale-up of ART to over 9 million made possible by huge price drops due to generic competition
- 100% of AIDS drugs that India uses are generics
- Indian Govt. relies on generic versions of essential medicines to treat TB, HIV and a wide range of diseases
- US - 98% of PEPFAR's ARVs are generic; Up from 15% in 2005; Generics saved PEPFAR \$380 million in 2010 alone

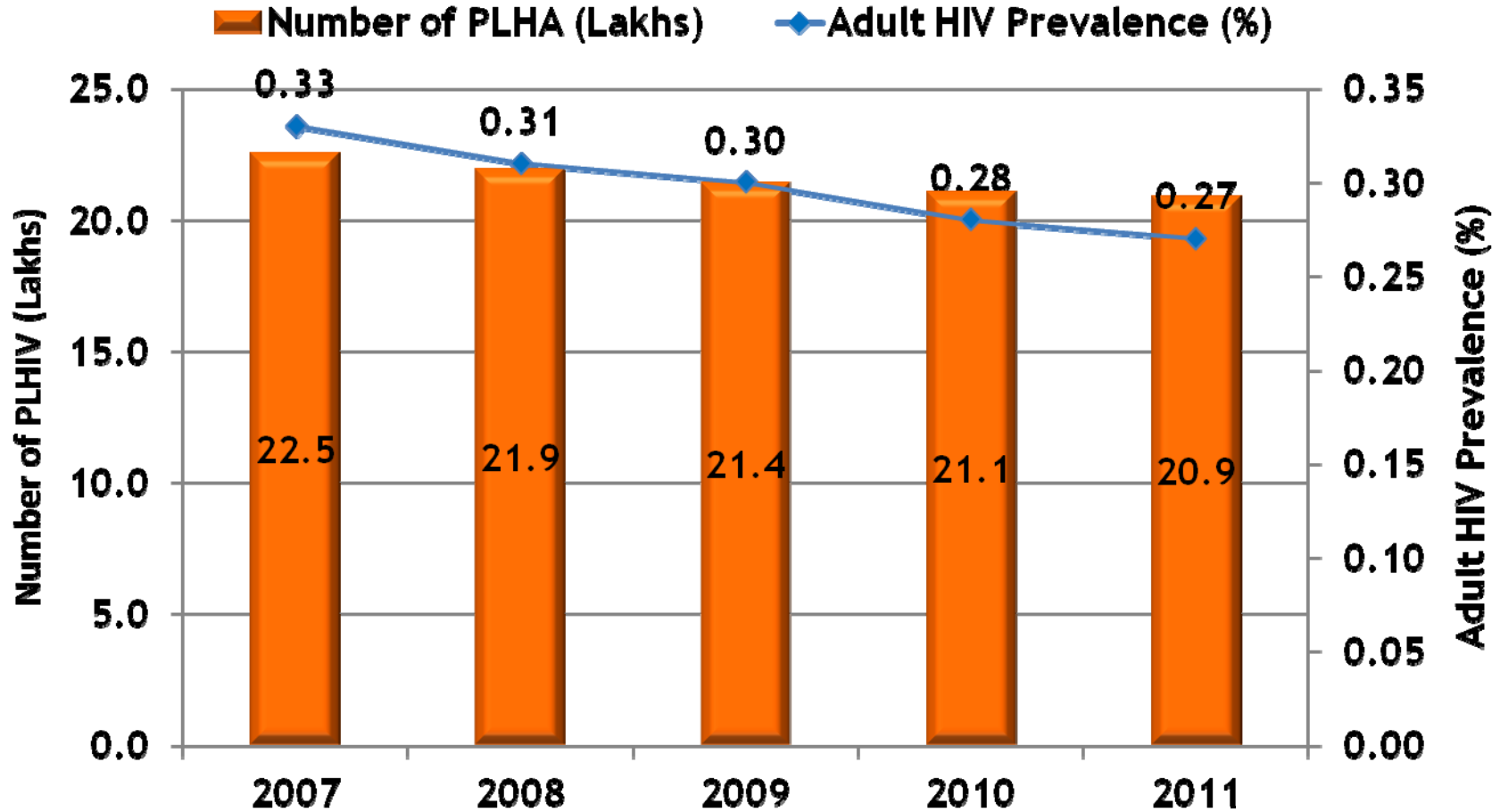


# Number of PLHIV - Top Ten Countries

Globally, 353 lakh persons estimated to be living with HIV



# Declining Trends of HIV Epidemic in India



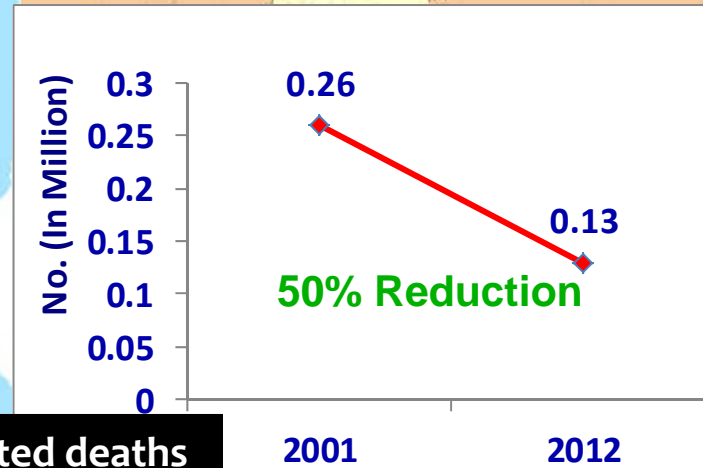
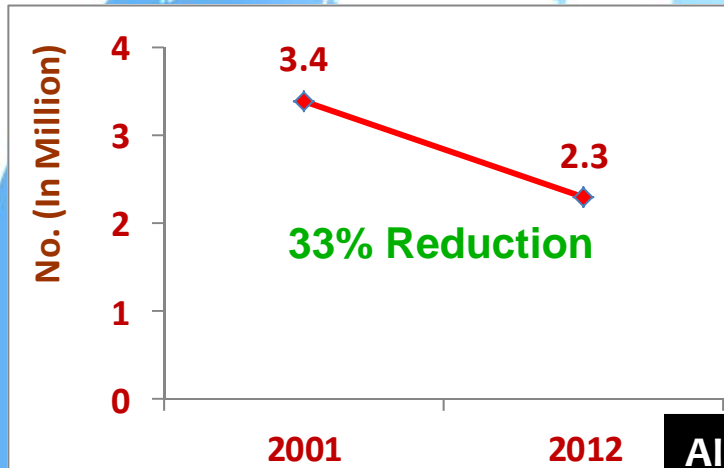
Low Prevalence Country (0.27%);  
3<sup>rd</sup> Largest No. of PLHIV in the world (21 lakhs)  
Female: 39% of PLHIV; Children: 7% of PLHIV



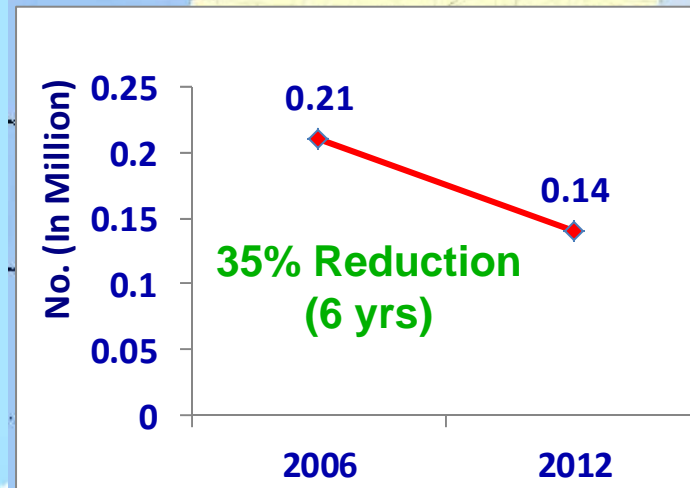
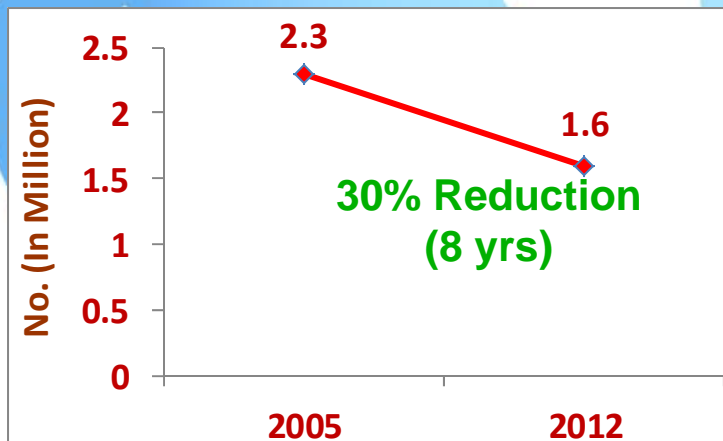


# Epidemic Scenario: Global & India

## New Infections



## AIDS related deaths



# Global Acclaim for India's AIDS Control Programme

- India's NACP appreciated in UN General Assembly Special Session as one of the three success stories in the world (June 2011)
- India elected the Chair of UNAIDS Board for 2013
- Over 20 International governmental delegations visited India to learn from India's AIDS Control efforts
- Wide recognition of India's role in ensuring access to ARV medicines for millions of PLHIV across the world

**GUIDING PRINCIPLES & KEY  
APPROACHES**



# Guiding Principles of India's Response

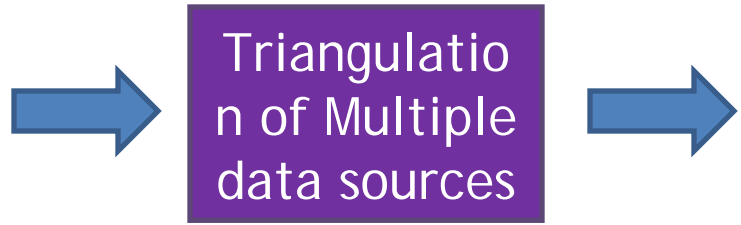


# Evidence-led Planning

Bio-  
Behavioural  
Surveillance

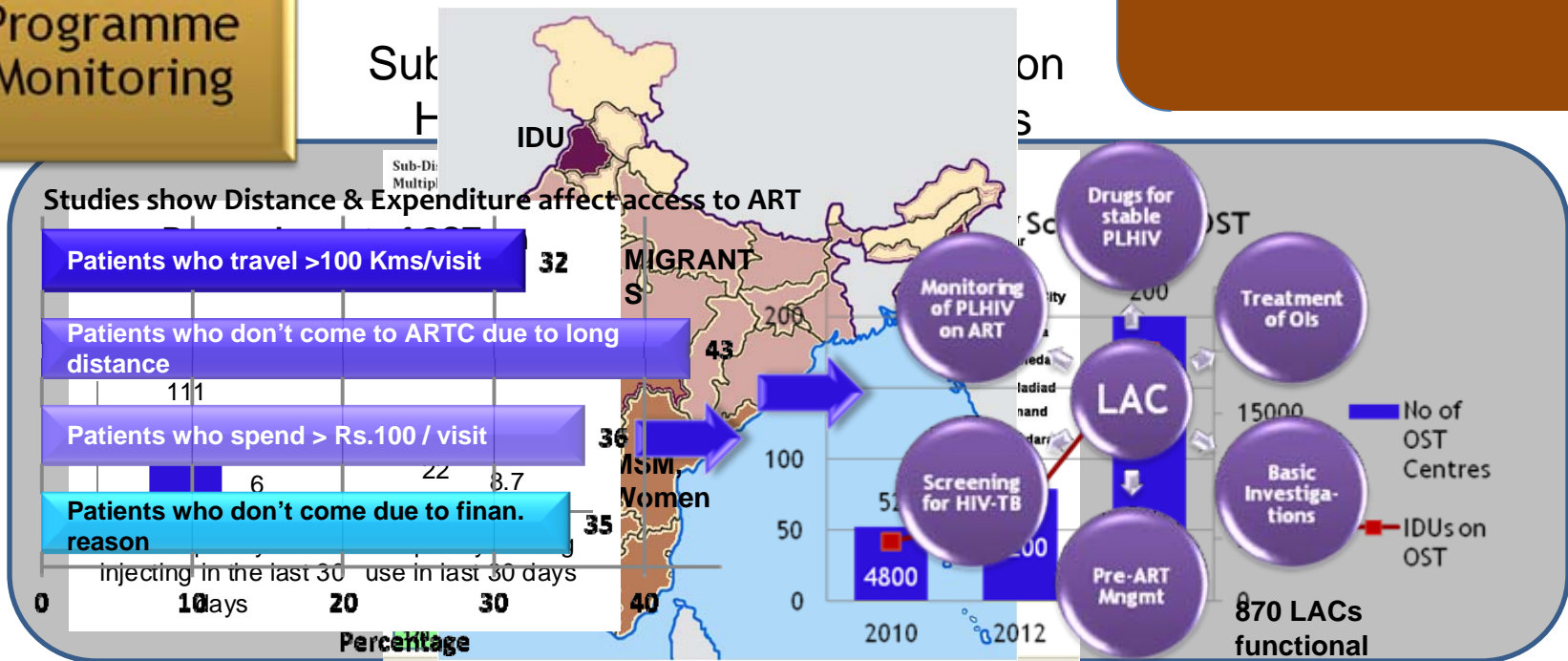
Special  
Studies &  
Evaluations

Programme  
Monitoring



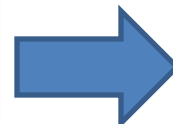
- ✓ Geographic Prioritisation
- ✓ Region-specific Focus
- ✓ New Strategies
- ✓ Flexible Modeling & Mid-course Corrections

## Regional Focus on Vulnerabilities

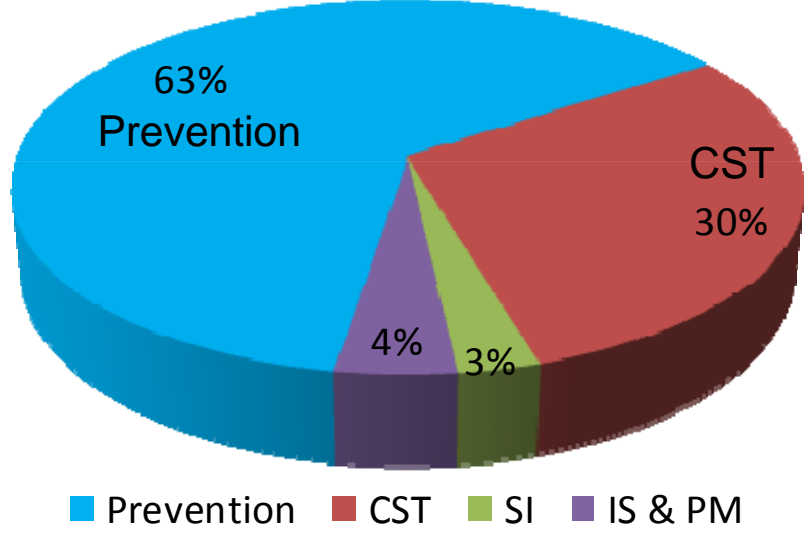


# Prevention Focus

- ✓ 99.7% population not infected
- ✓ 1.6 million MARPs & 9 million Bridge Population
- ✓ >40% reported STI among FSW & MSM
- ✓ Around 40% needle sharing among IDUs
- ✓ Migrants at Destination: 56% - Visit FSW; Higher HIV Prevalence among Migrants & Spouses



### NACP-4 Budget Allocation



CST: Care, Support & Treatment; SI: Strategic Information; IS & PM: Institutional Strengthening & Programme Management



# Targeted IEC...

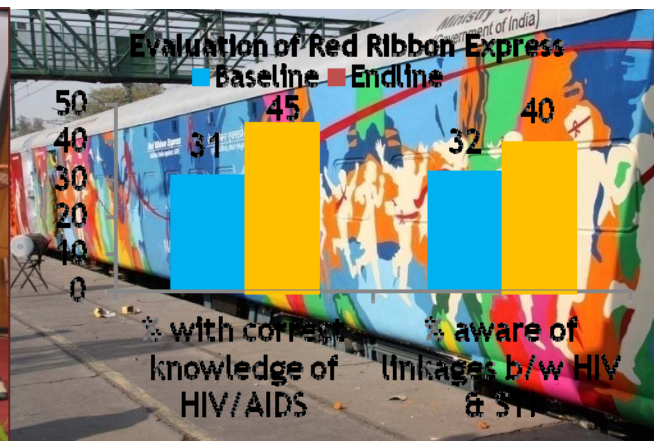
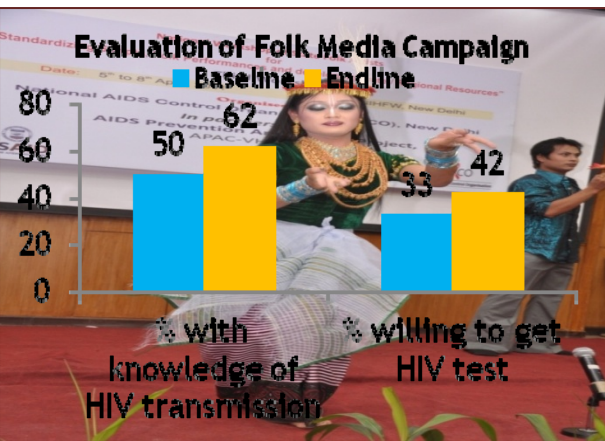
Scientific Approach

Linking to Service Delivery

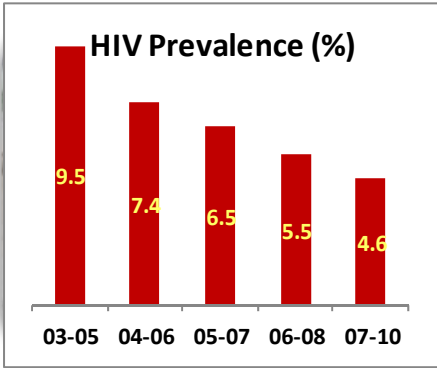
Innovative Flagship Initiatives (Red Ribbon Express, National Folk Media Campaign, North East Campaign)

Evaluation of campaigns & Re-modeling

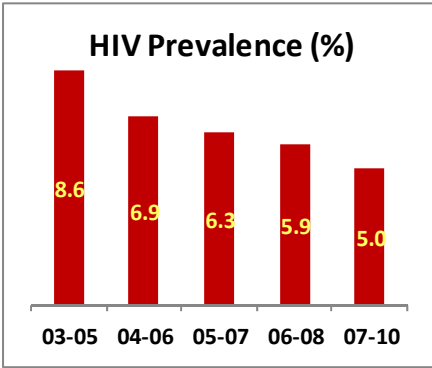
Periodic Behavioural Surveillance to track overall impacts



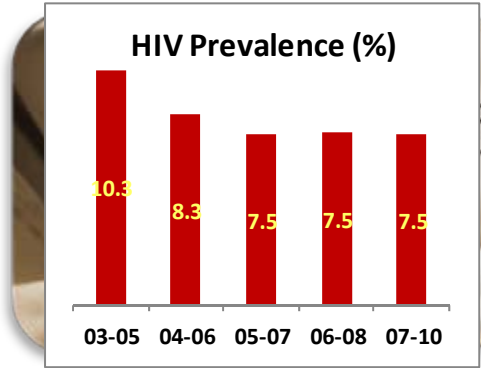
# Communities at Centre



**FSW**

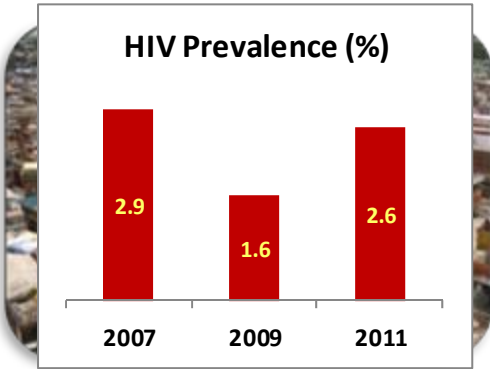


**MSM & TG**

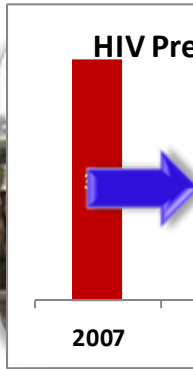


**IDU**

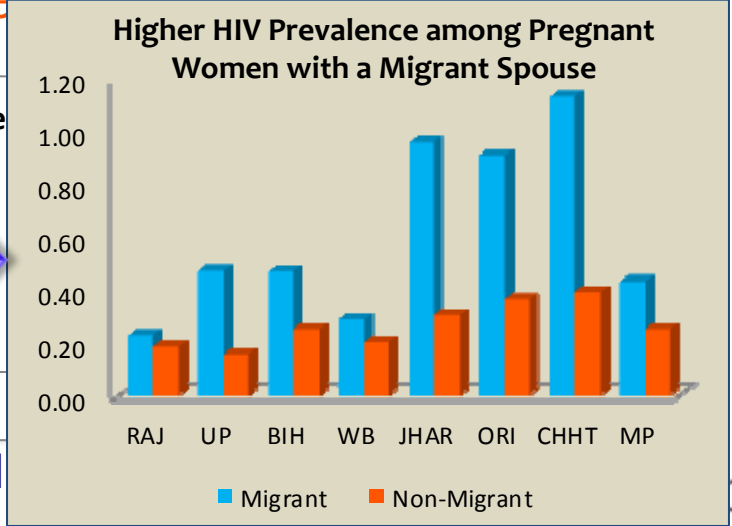
Over 1,800 Targeted Interventions through NCO/CBO  
 Declining Trends of HIV among FSW & MSM,  
 Mapping & Size Estimation of Risk Groups  
 Stable Trends among IDU,  
 16 lakh HRG & 5 Mn Bridge Groups Reached  
 Inadequate Trend Data on Migrants & Truckers:  
 Peer-led Approach; BCC, Condoms, Needle syringes, STI care



**Truckers**



**M**





# Migration



Linkages  
between  
source &  
destination

... resulting in re-scoping and  
reshaping of Migrant Strategy  
under NACP-III



Prevention  
Services at  
Destination  
& Reverse  
Mapping

Awareness  
& Linkages  
at Transit  
Points

Outreach &  
Services at  
Source for  
Out-  
migrants,  
Returnee  
Migrants &  
Spouses of  
Migrants



**A PIONEERING MODEL TO ADDRESS RISKS  
DUE TO INTRA/ INTER COUNTRY MIGRATION**

# Designing for Scale



Commodity  
Standardisation



Technical &  
Operational  
Guidelines



Unit Costing

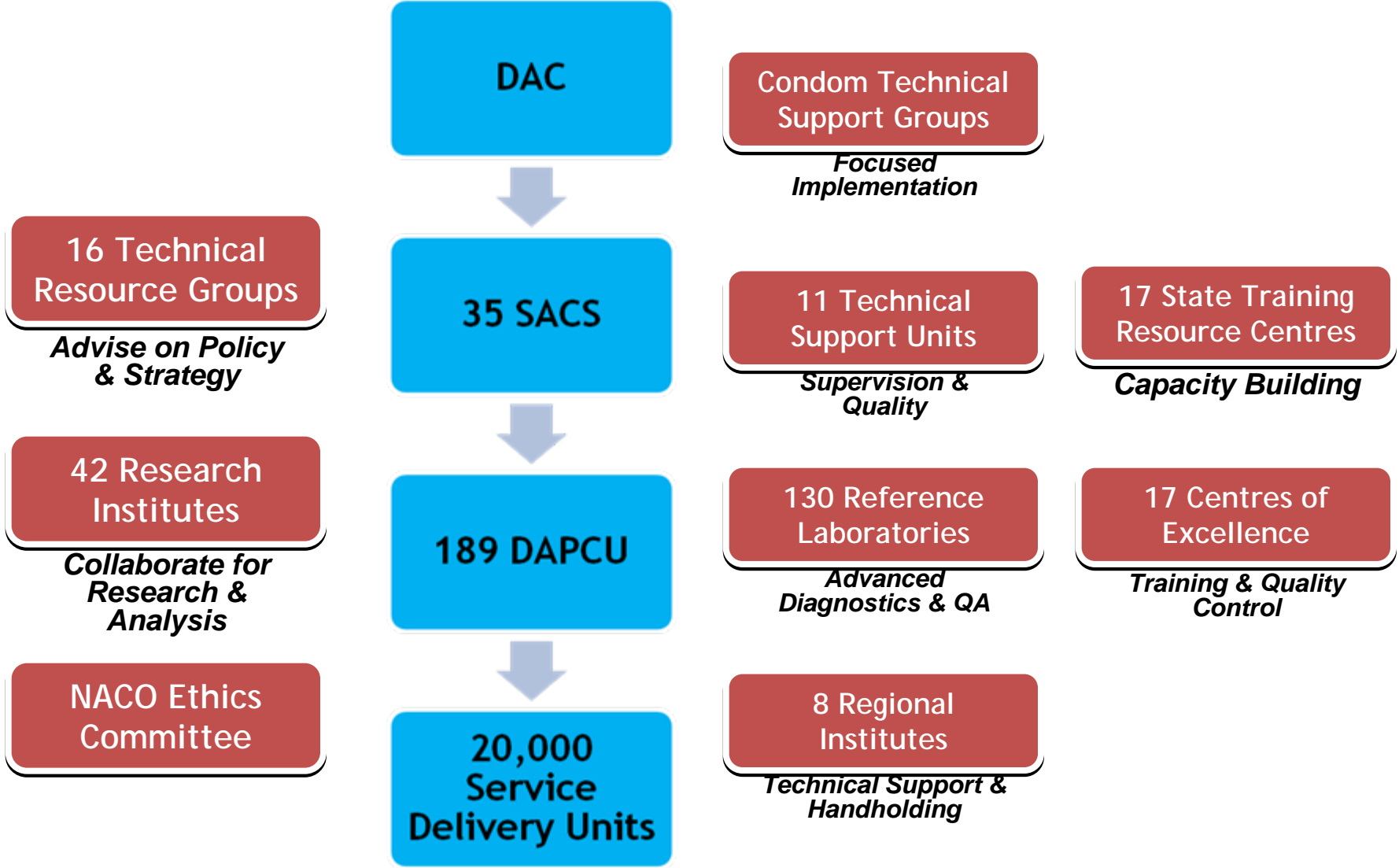


Uniform Training  
Modules



Structured  
Monitoring  
Mechanisms

# Institutional Framework for Scale Up



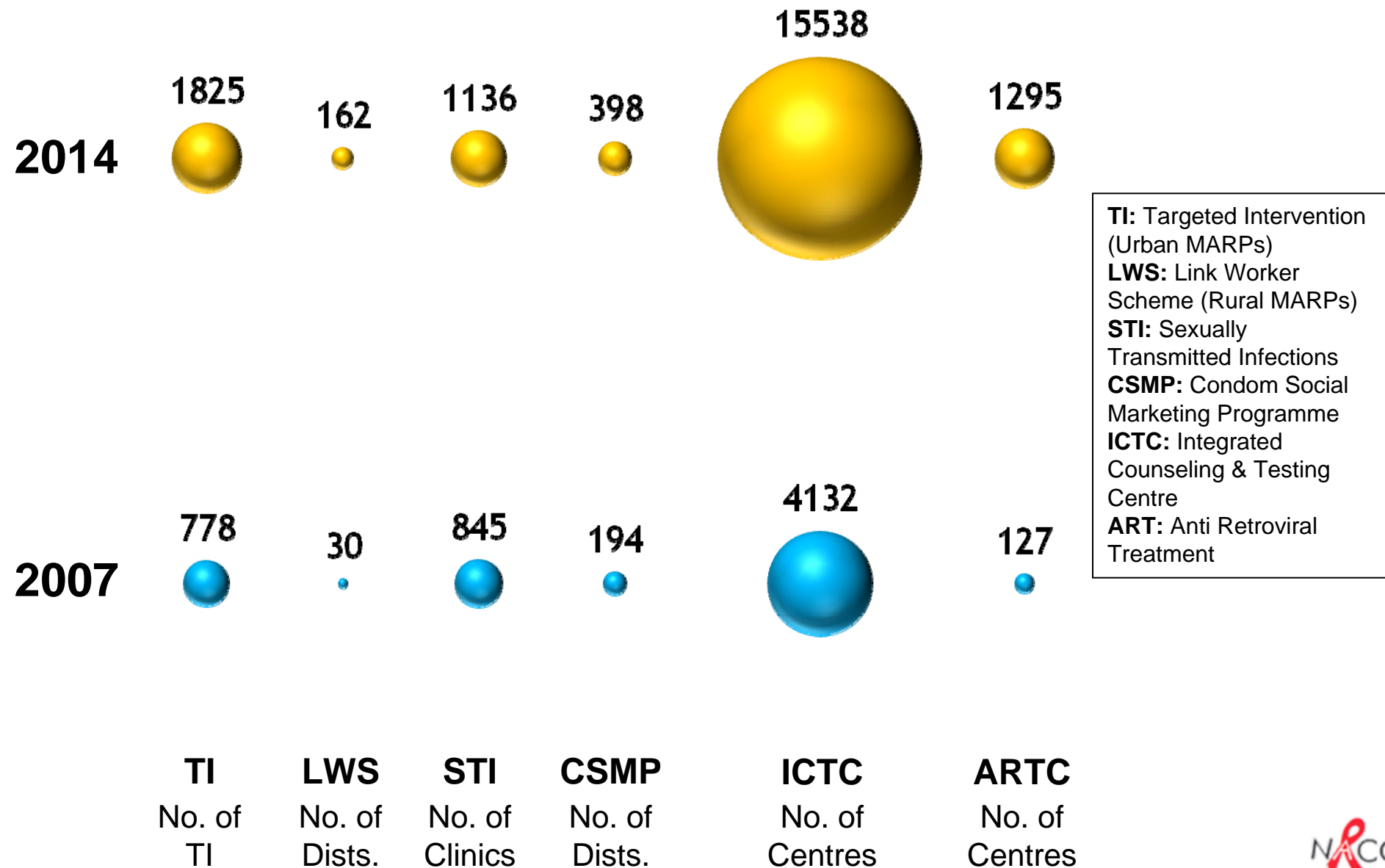
Streamlining Supply Chain Management Systems

Improving Financial Management thru CPFMS

Data for Programme Management thru SIMS



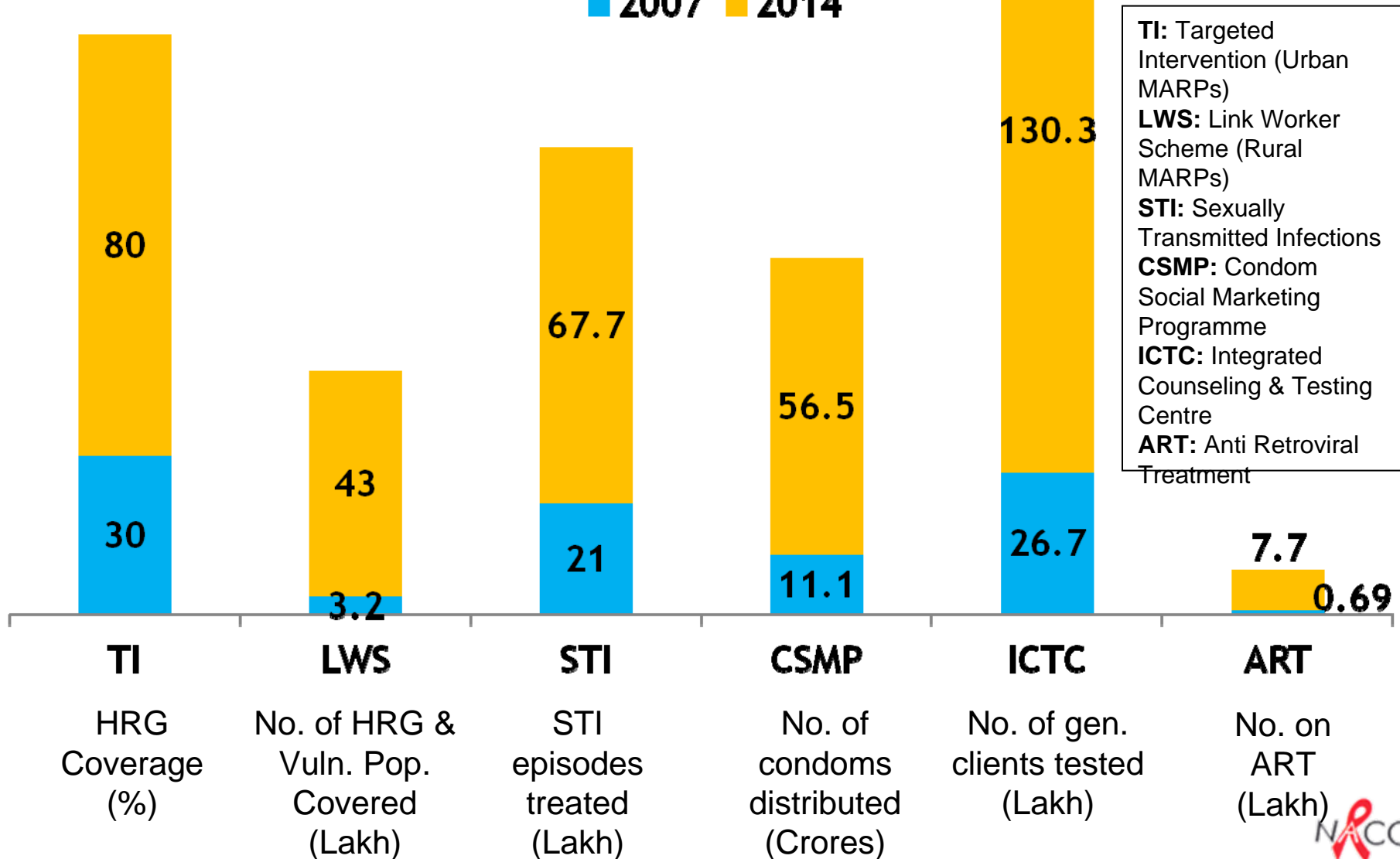
# Scale up of Infrastructure





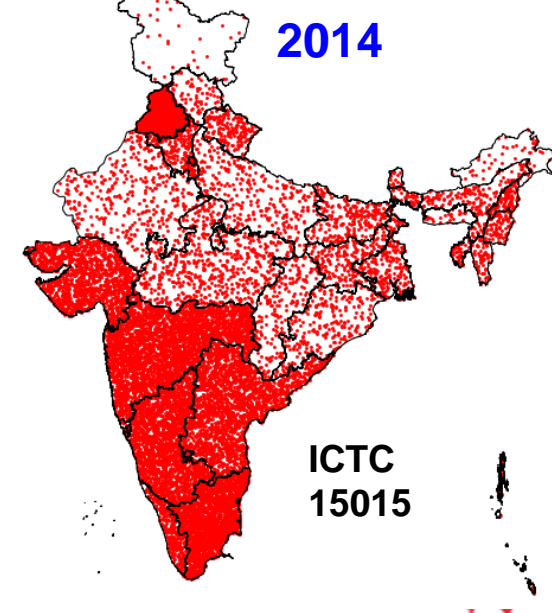
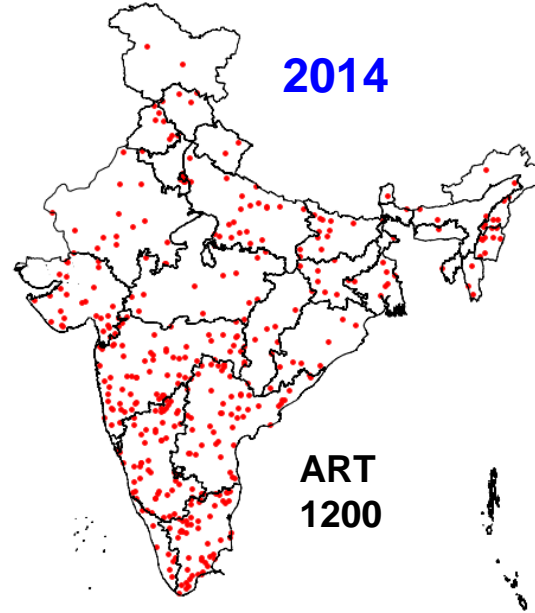
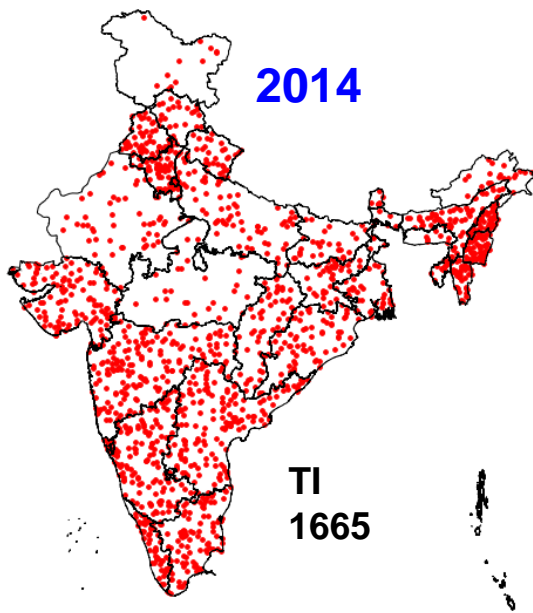
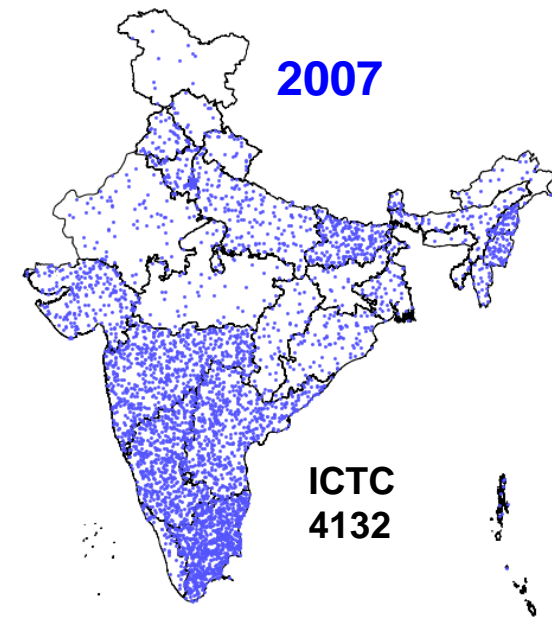
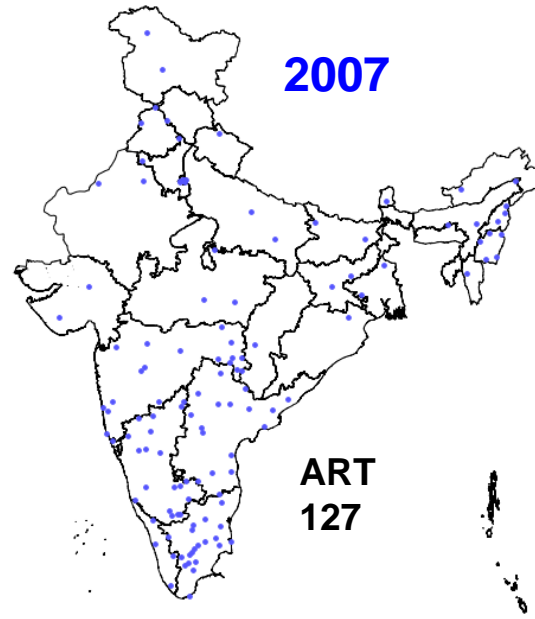
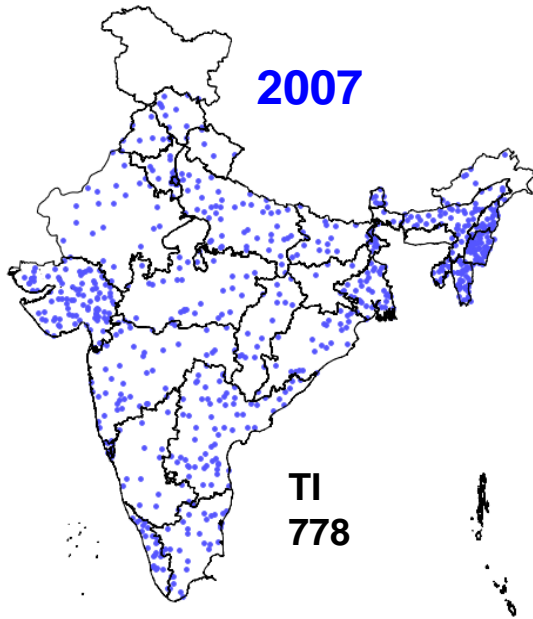
# Scale-up of Service Delivery

■ 2007 ■ 2014





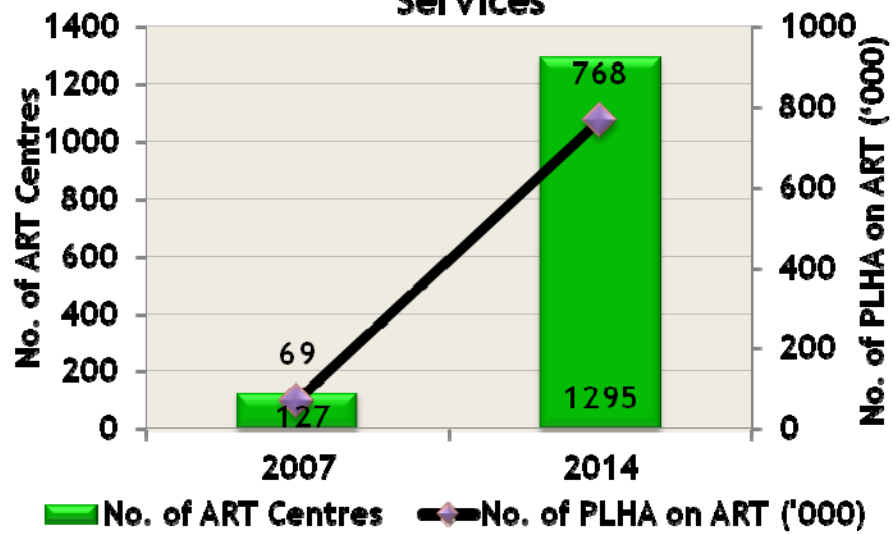
# Geographic Expansion of HIV/AIDS Services



# Improving Access to Treatment & Care

India has the 2<sup>nd</sup> largest number of PLHIV on ART, Globally

### Anti-Retroviral Treatment (ART) Services



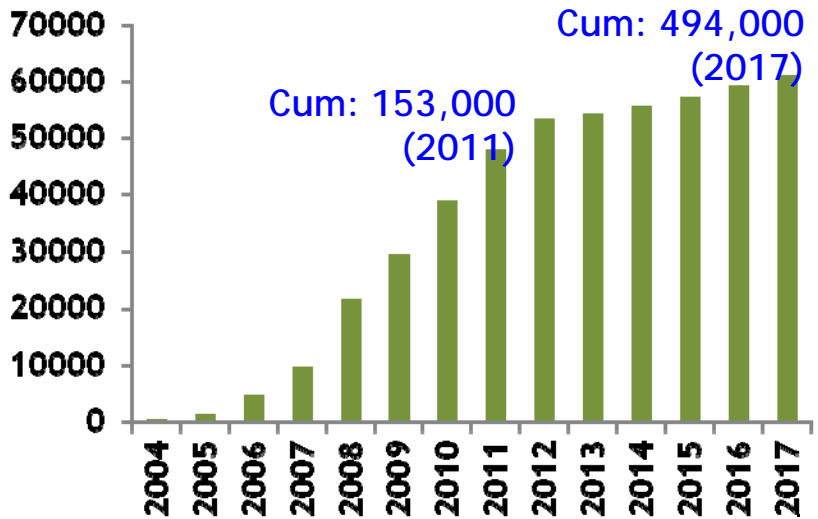
❖ Dramatic scale up of no. of ART centres & no. of PLHIV on ART over last five years

❖ Improving survival and Quality of life of PLHIV

❖ Scale-up of Early Infant Diagnosis & Paediatric ART

❖ Adherence on ART & Drug Resistance remain key challenges

### Lives saved due to ART



**Resources required to address treatment needs**

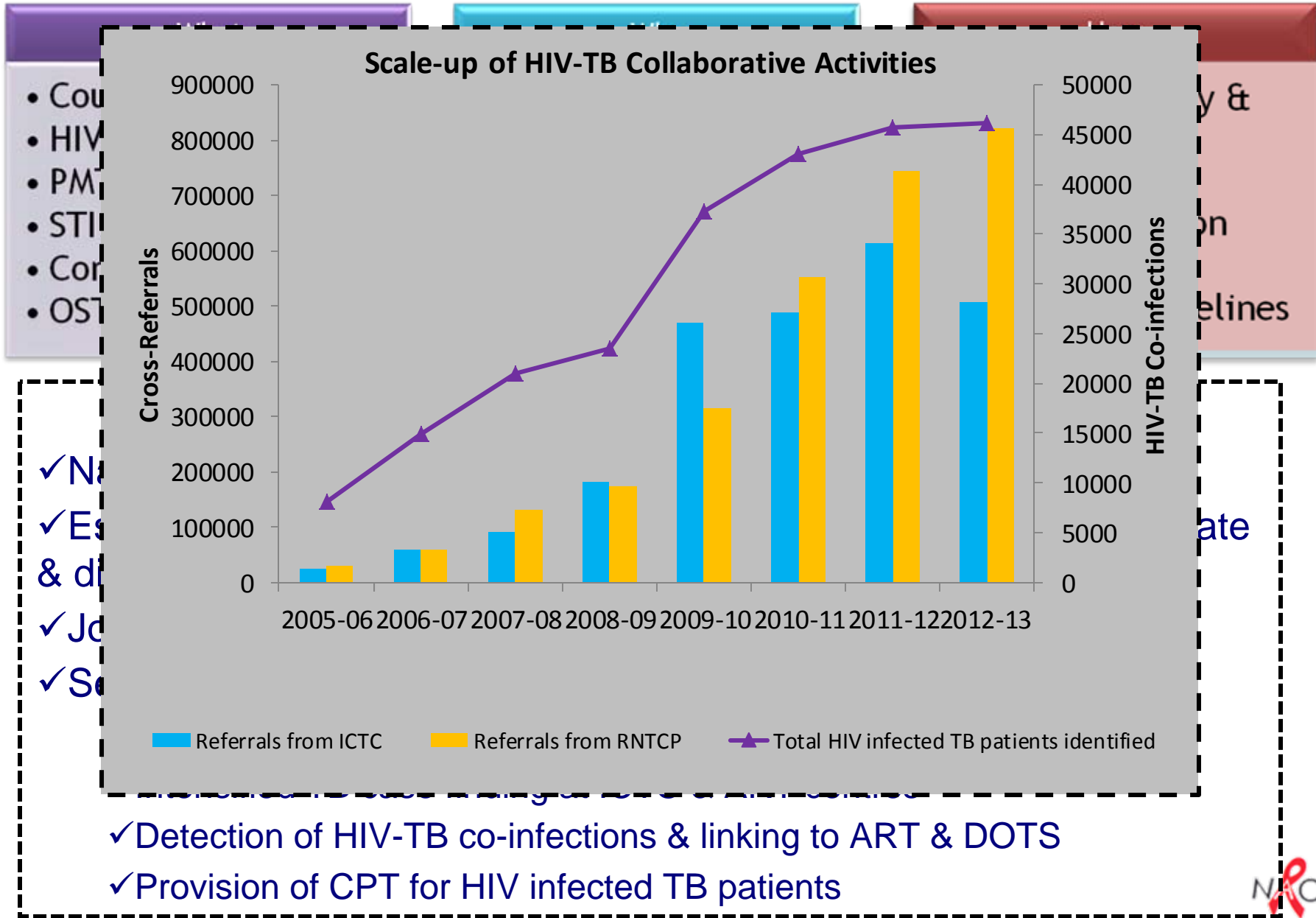


Vertical health interventions not adequate; Need Multi-sectoral Response





# Integration with Health System



- Cou
- HIV
- PM
- STI
- Cor
- OS

- ✓ Na
- ✓ Es
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- ✓ Jc
- ✓ Se

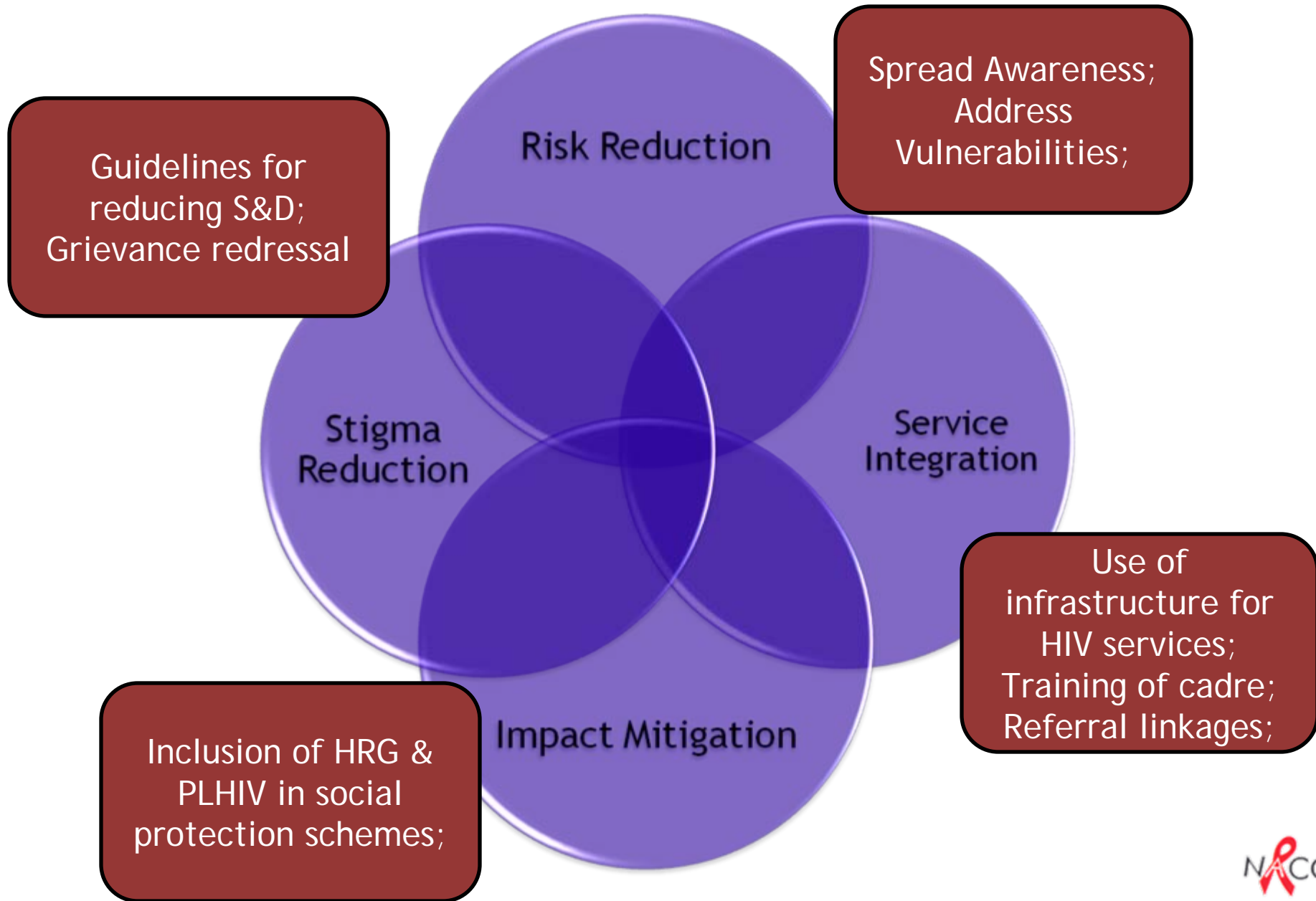
- ✓ Detection of HIV-TB co-infections & linking to ART & DOTS
- ✓ Provision of CPT for HIV infected TB patients

# Mainstreaming with Ministries & Industry

- ❖ Identification of common beneficiaries & training of frontline workers
- ❖ Policy amendments & issuance of guidelines
- ❖ Aligning reporting mechanisms to track progress
- ❖ Budgetary allocation by concerned ministries (\$543 Mn)
- ❖ Leveraging of infrastructure & human resources
- ❖ Setting up coordination mechanisms at national, state & district levels
- ❖ Signing MoUs for structured collaboration (14 Signed)



# Goals of Mainstreaming



# What can Industry Do?



**+** HIV

**Win-Win Situation: Spend on own workforce under CSR Initiatives to benefit employees & improve productivity**



- In Making Policies & Strategies**

- NACP 4 Strategy Development: 45 working groups, Over 1000 participants, 60% non-govt (civil society, communities, etc.)

- In Service Delivery Models**

- Source, Transit & Destination Approach for Migrants
- Facility Integrated C&T Centres, Link ART Centres
- MoUs with Ministries for Mainstreaming & Social Protection

- In Community Mobilisation & Youth Engagement**

- Red Ribbon Express
- HIV Campaign thru Music & Sports
- National Folk Media Campaign

- In Programme Monitoring & Use of Evidence**

- Web-based Strategic Information Management System (SIMS)
- District Categorisation for Priority Attention

- In Application of Technology**

- Online PLHIV Tracking Tool
- Smart Cards for PLHIV

# Monitoring Systems

## Internal Systems

- Strategic Information Management System for monitoring of service delivery & outreach

## Periodic Systems

- HIV Sentinel Surveillance to track epidemic trends
- HIV Estimations to estimate burden & needs

## Large scale Surveys

- National Integrated Biological & Behavioural Surveillance
- Integration with National Family Health Survey

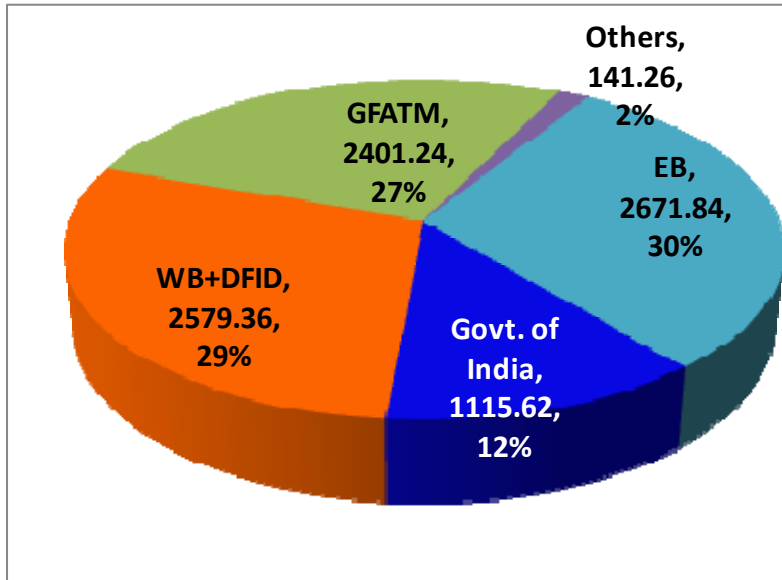
## Special Studies

- Evaluations, Outcome & Impact Assessments
- National Data Analysis Plan
- National HIV/AIDS Research Plan

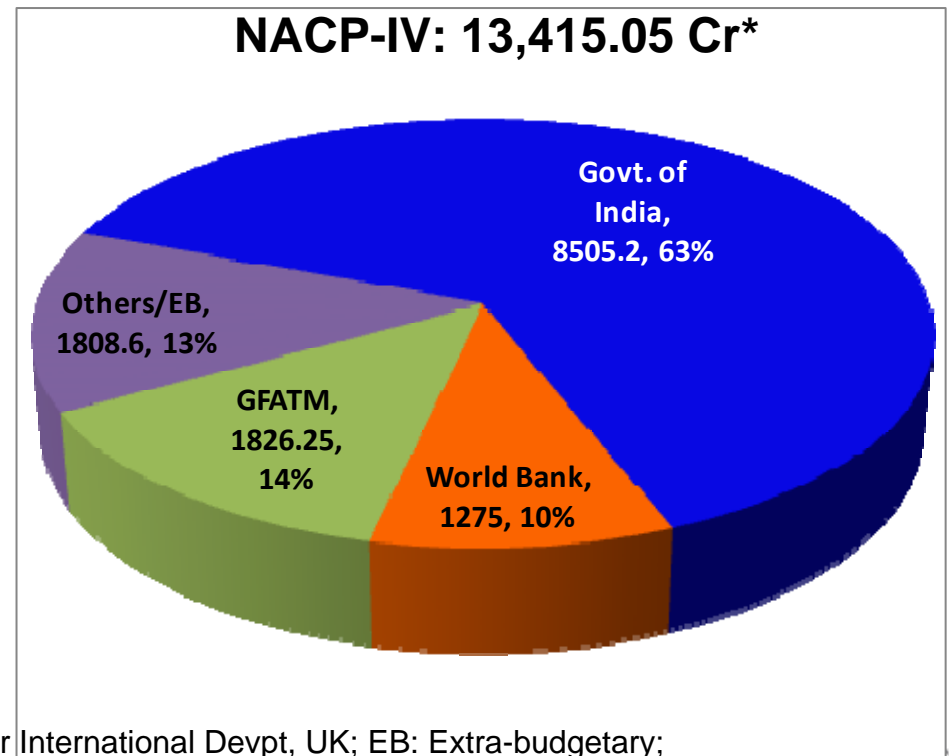


# NACP-IV Project Financing

**NACP-III: 8,909.32 Cr**



**NACP-IV: 13,415.05 Cr\***



- Increase in size of overall envelope
- Significant increase in government budgetary support & reduction in donor support

GFATM: The Global Fund; WB: The World Bank; DFID: Dept. for International Devt, UK; EB: Extra-budgetary;

\* Rs. 863 Crore for Metro Blood Banks through separate EFC



# New Initiatives under NACP IV

Opioid  
Substitution  
Therapy for IDU

Revised Migrant  
Strategy at  
Source, Transit  
& Destination

Interventions for  
Transgenders

Employer Led  
Model for  
Informal Migrant  
Labour

Four Metro  
Blood Banks &  
Plasma Frac.  
Centre

Lifelong ARV for  
Pregnant Women

Social Protection  
for PLHIV & Risk  
Groups

Third Line ART &  
Drug Resistance  
Monitoring

HIV/AIDS Bill for  
Stigma &  
Discrimination

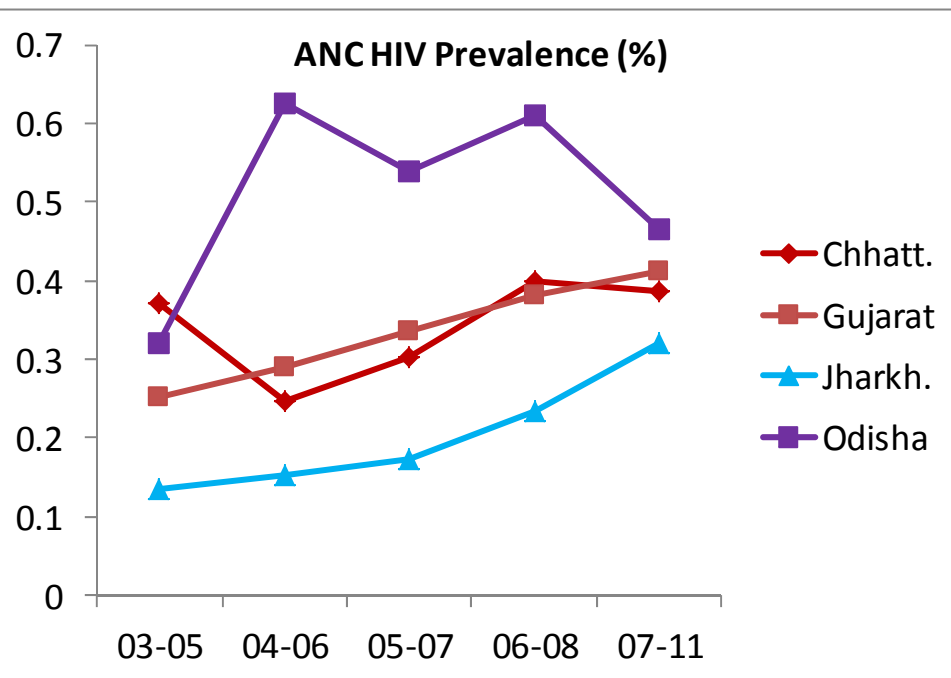


**CHALLENGES**

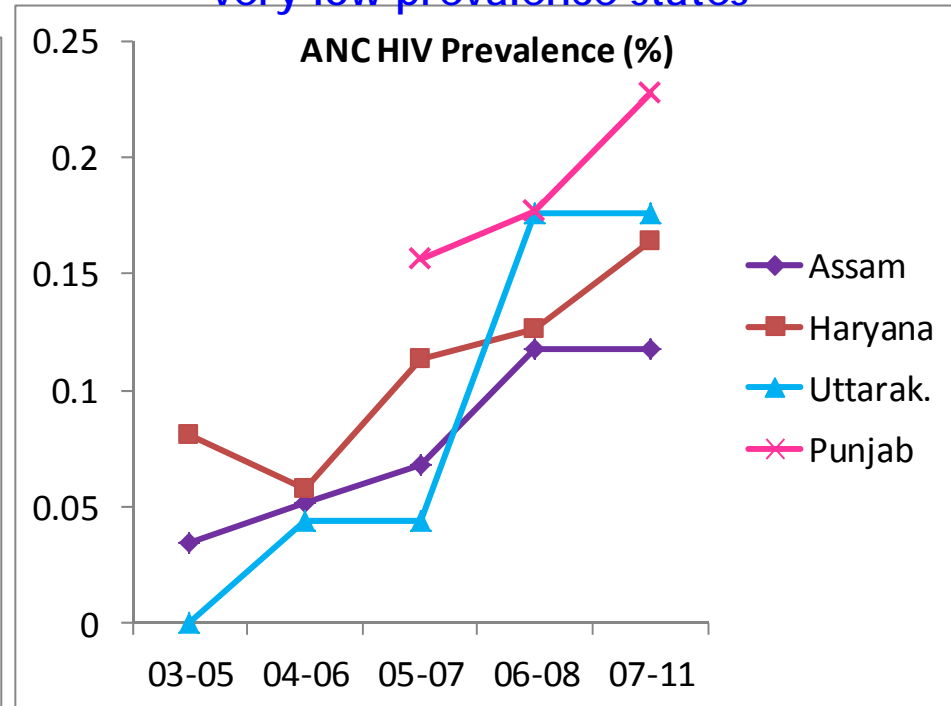


# Regional Variations in HIV Epidemic Trends

Rising trends of HIV among pregnant women in low prevalence states



Rising trends of HIV among pregnant women in very low prevalence states

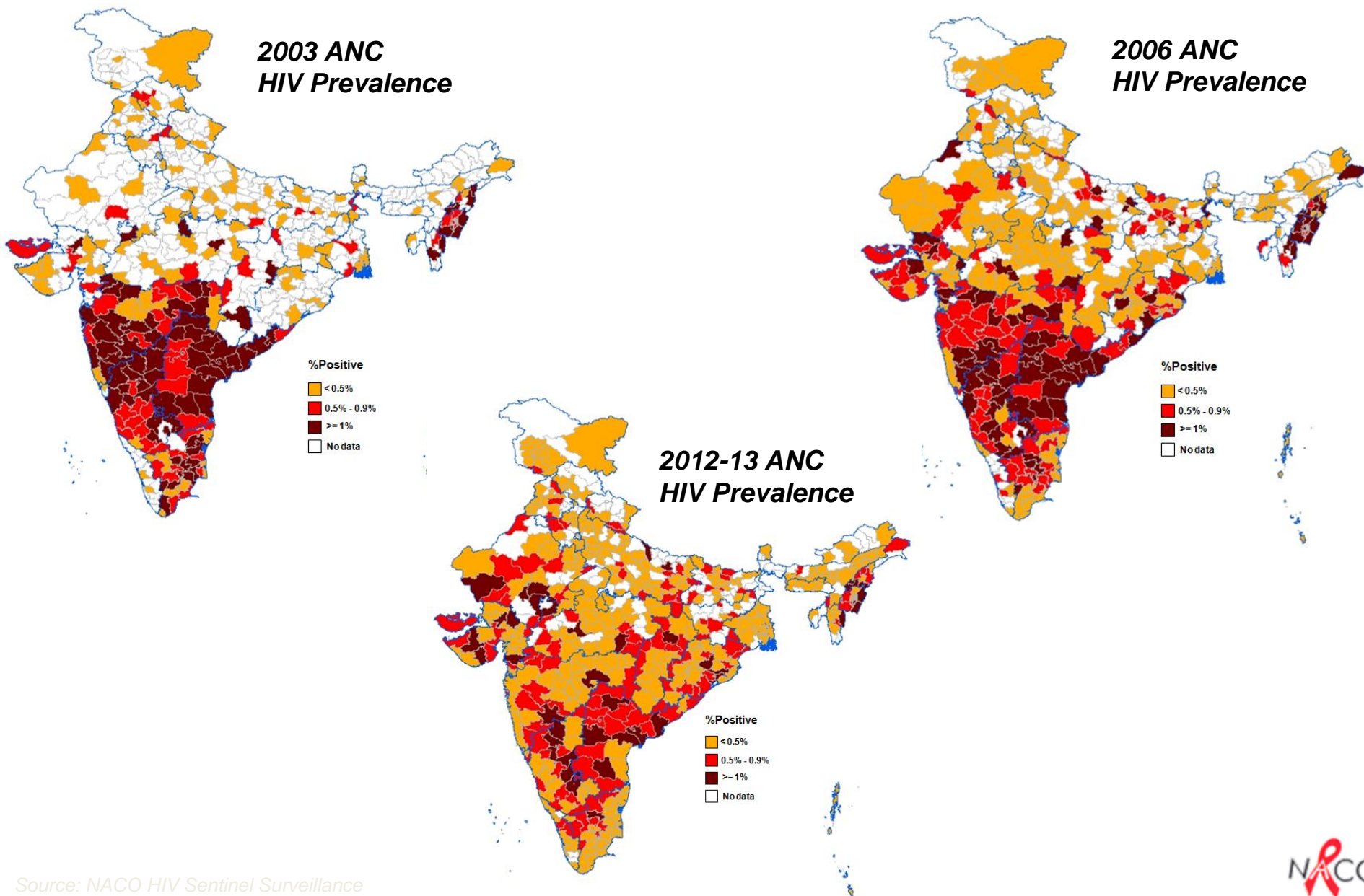


The ten low prevalence states of Odisha, Jharkhand, Bihar, Uttar Pradesh, West Bengal, Gujarat, Chhattisgarh, Rajasthan, Punjab & Uttarakhand together account for 57% of new adult HIV infections in 2011.



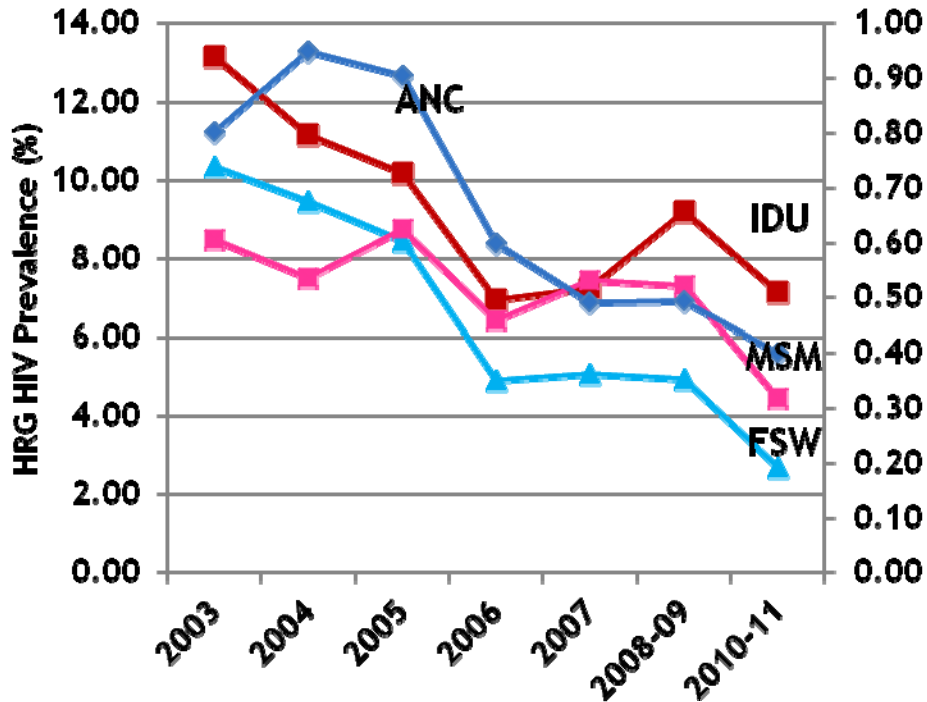
# Changing HIV Landscape

## Newer Pockets in the Northern States

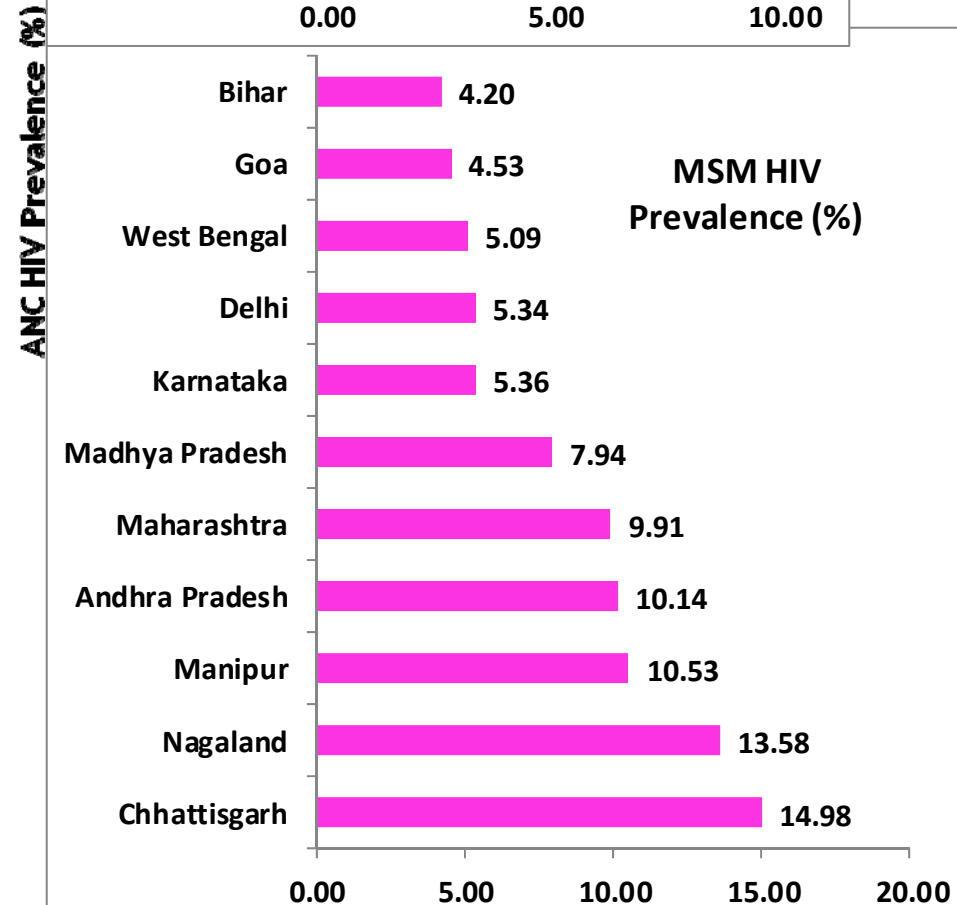
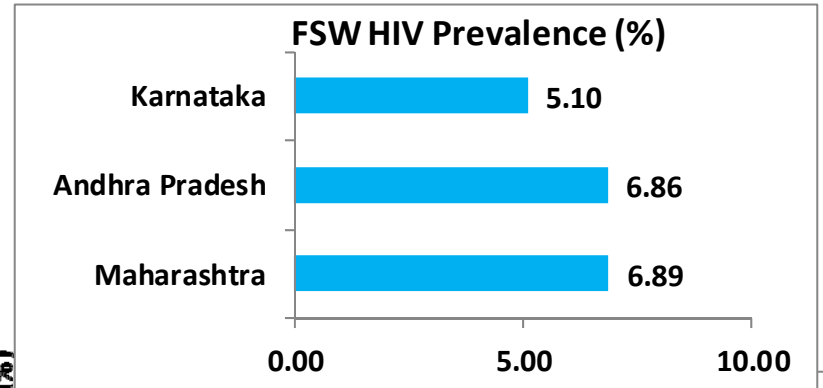


# Declining trends, but higher levels...

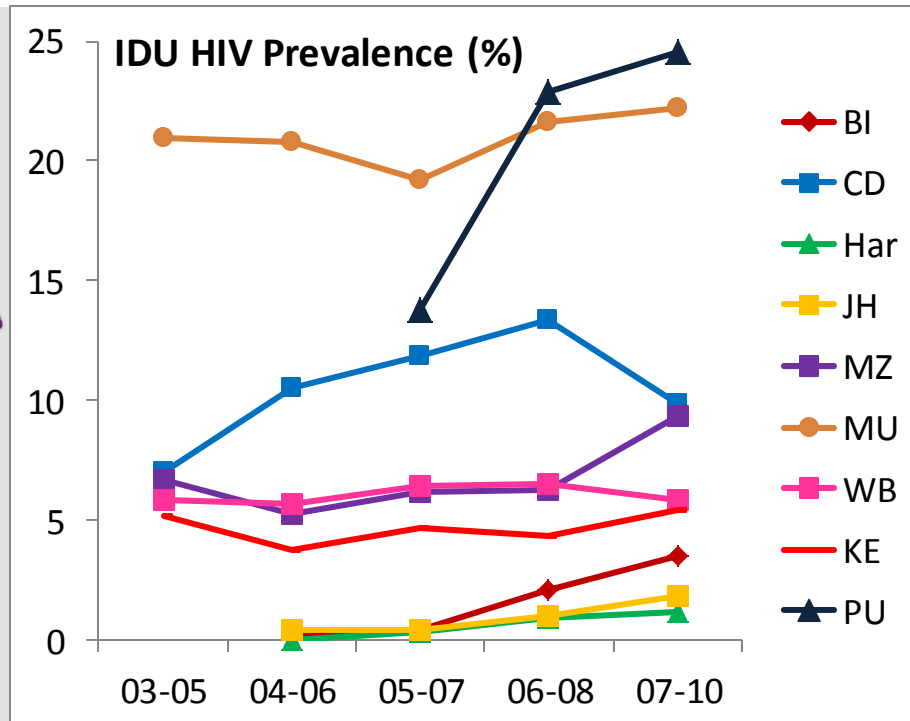
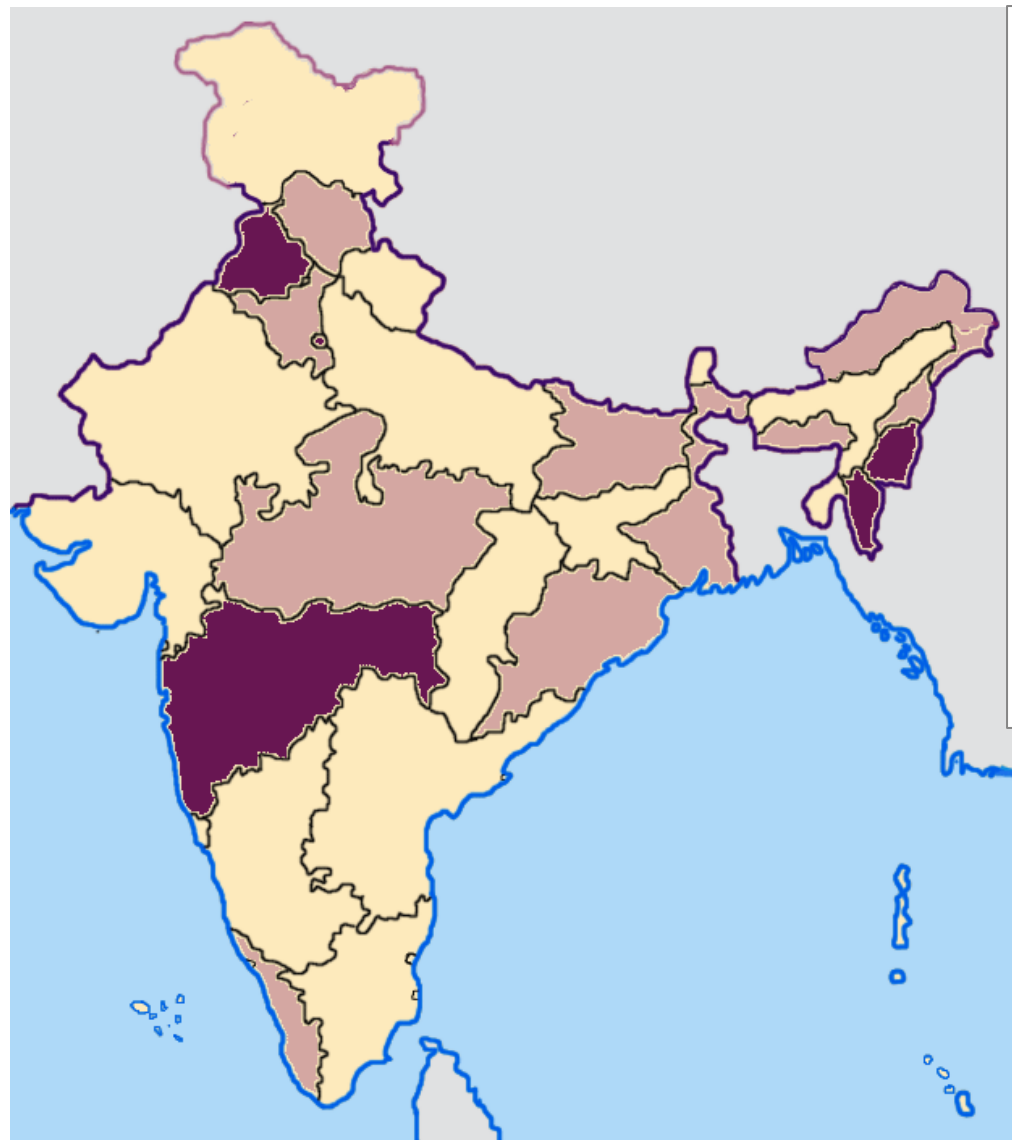
Declining trends among general population, FSW & MSM;  
Stable trends among IDU



Need to sustain efforts in High Prevalence areas to consolidate gains



# Emerging Vulnerabilities: IDU



❖ Higher levels of HIV among IDU in Punjab, Chandigarh, Delhi, Mumbai, Kerala, Odisha etc., in addition to North East

Focus on saturation with Needle-Syringe Exchange Programme & Scale-up of OST

States with higher vulnerability among IDU

Source: NACO HIV Sentinel Surveillance 2010-11; 3-yr moving averages based on consistent sites; BI - 2, CD - 1, Har - 1, Jh - 1, MZ - 4, MU - 1, WB - 4; KE-2; PU-3; NACO Mapping of HRG 2008-09;





# Emerging Vulnerabilities: Migration



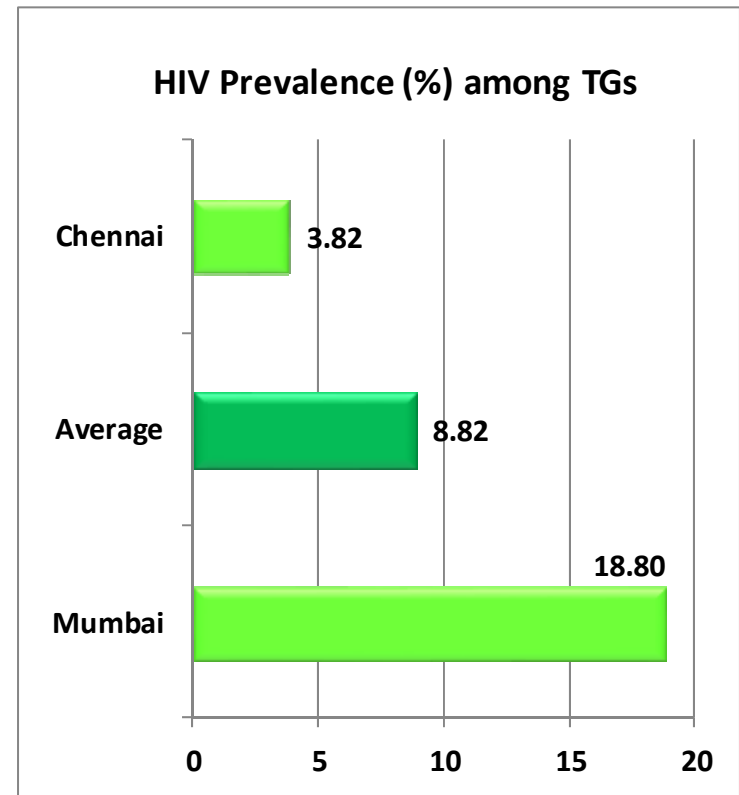
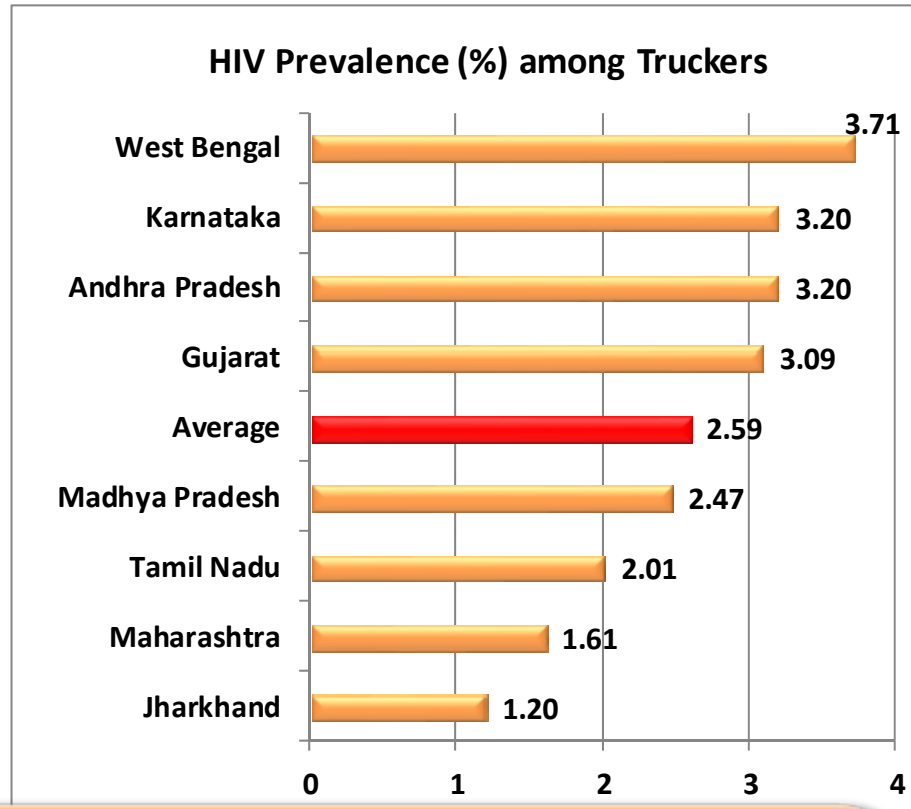
■ States with higher vulnerability due to Migration

- ❖ Mapped migration corridors with large volumes of out-migration to high prevalence destinations
- ❖ 36% in the age group of 15-24 yrs; 66% Married
- ❖ 56% had sex with FSW
- ❖ Migrants over-represented among HIV +ve men at source dts.
- ❖ Higher HIV Prevalence among women with migrant spouse in rural areas

- ❖ Need to increase coverage of migrants at destinations, transit points & source villages, along with their spouses at source



# Emerging Vulnerabilities: Truckers & Transgenders

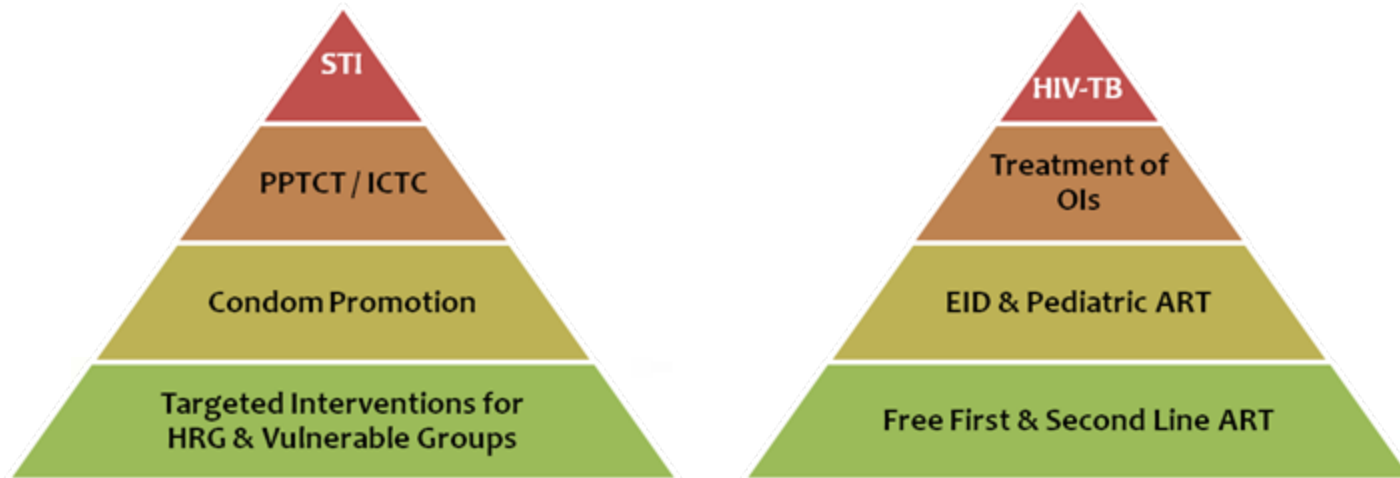


- ❖ 20 lakh truckers mapped; Focus at Transshipment locations & Truck halt points
- ❖ MoU Signed with M/o Road Transport for provision of HIV services through booths at every 50 km on highways; Will promote access to local residents as well

- ❖ Size estimation & mapping of TG recently concluded
- ❖ New Targeted Interventions being set up for TGs



# Balancing Prevention & Treatment



Sustaining Prevention Focus & Addressing Emerging Epidemics

Vs

Growing Treatment Needs





# HRG & PLHIV face Stigma & Discrimination

Stigma & Discrimination in Community, Healthcare Settings, Education centres & Work Places

Social Exclusion, limited access to health, education & employment

Double burden on vulnerable & marginalised communities

Comprehensive multi-sectoral efforts required to root out stigma & discrimination

# Some More Challenges...

- Last mile achievements are more challenging & difficult
- Newer forms of HRG dynamics - Mobile/ Internet/ Social Media - Difficult to reach
- Gaps in testing & treatment of High Risk Groups & Bridge Population
- Delay between detection & registration for care & treatment
- Patient tracking & retention in care & treatment
- Drug Resistance & Need for more expensive medications
- Ever shrinking financial resources & out-drain of trained personnel

# **POST-MDG SCENARIO & STRATEGIES**

# Unique Contributions of HIV/AIDS Response to Public Health

- How to craft a model where multiple stakeholders can come together and work cohesively towards a common goal and make the difference
- How evidence-driven strategies can make the response to any public health issue more effective and impactful
- How key affected communities should be engaged and empowered so that they play a critical role in determining the right approaches
- Fountainhead of innovative service delivery models with rich civil society involvement

# Key Issues under Debate

- Should HIV/AIDS continue to get so much attention & priority? Withdrawal of international funding to HIV/AIDS programmes across the world
- Consolidate gains made & focus on unfinished agenda
- Can we take HIV/AIDS epidemic to Elimination Level - a level where it ceases to be a public health threat?
- How lessons learnt from HIV/AIDS programming contribute to strengthening public health response to various other diseases, incl. NCDs?
- How can system strengthening achieved through HIV/AIDS be leveraged for the larger health system?

# Fast Track Targets 2020

## 90-90-90 Treatment Targets

- 90% of all people living with HIV will know their HIV status;
- 90% of all people with diagnosed HIV infection will receive sustained antiretroviral therapy; and
- 90% of all people receiving antiretroviral therapy will have durable viral suppression.

## Prevention Targets

- To reduce new infections among adults to 500,000

## Zero Discrimination

# End of AIDS by 2030

- 90% reduction in new infections & deaths from 2010 level
- Limit to a level where HIV/AIDS ceases to be a public health threat

# End-Game Strategies

- Strengthening epidemiology for customized local responses
- Scaling up HIV prevention and treatment to reach the prioritised & unreachd
- Addressing emerging vulnerabilities
- Tackling the inequities in access
- Taking civil society and community engagement to newer heights
- Dealing with structural barriers
- Invigorating the response with innovations
- Mobilising other ministries, industry, corporate and private sectors for social protection of HRG & PLHIV
- Promote inter-country cross-learning
- Protect from looming patent threats for the generic ARVs



# Key Programmatic Measures

- Optimise populations, locations & interventions
- Strengthen individual level patient tracking
- Ensure strong linkages between prevention & treatment cascades
- Real time monitoring that enables rapid diagnosis & correction of programmatic issues at local level
- Linkage with Aadhar to facilitate easy flow of social protection measures for HRG & PLHIV
- Leverage achievements to larger health system



**Thank You**