Malaria Elimination: A Global Partnership Perspective

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Centers for Disease Control and Prevention
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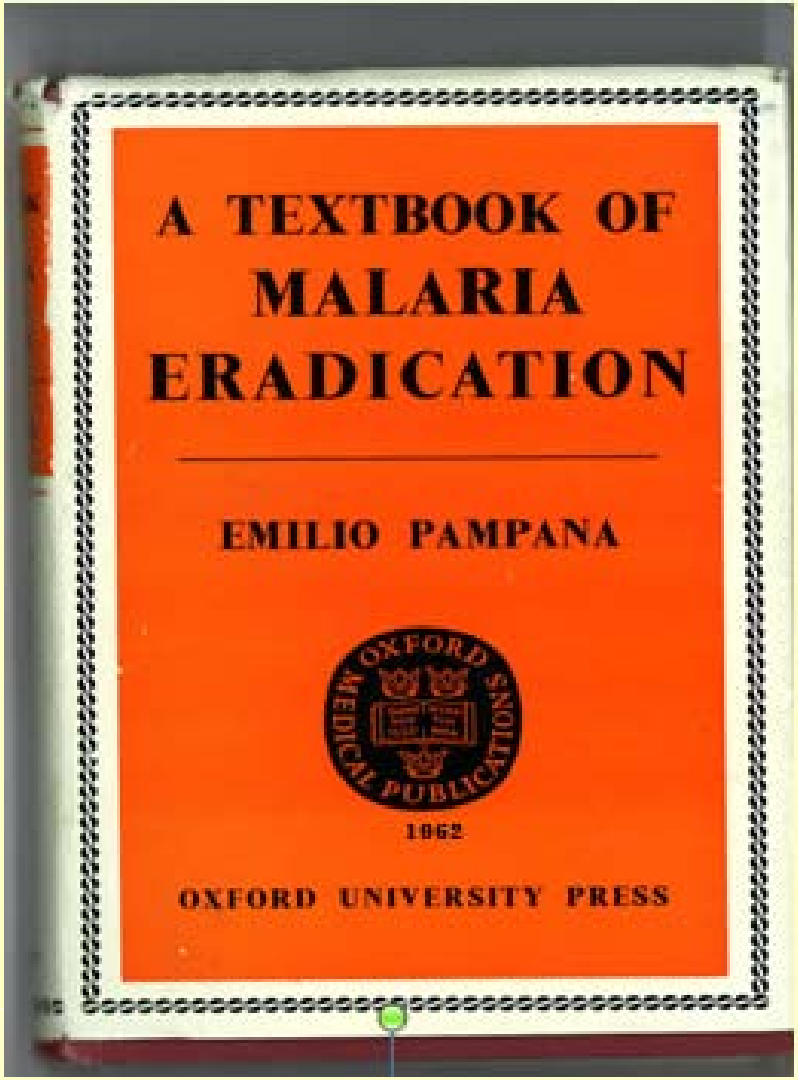
Malaria Eradication – Original Guidance



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Series
Malaria elimination, 1–4
See pages 1566–1615
"Now is the time to act. We should not ignore the shrinking of the malaria map, which has been successfully unfolding over the past century."

Malaria Elimination

- Today's opportunity for elimination success – why today?
- African country example of a move toward elimination
- A partnership perspective in transitioning from scale-up to elimination
- Opportunities for CDC to make a difference:
  - A perspective from outside

Malaria Landscape

- From Scale Up for Impact (SUFI) to Elimination

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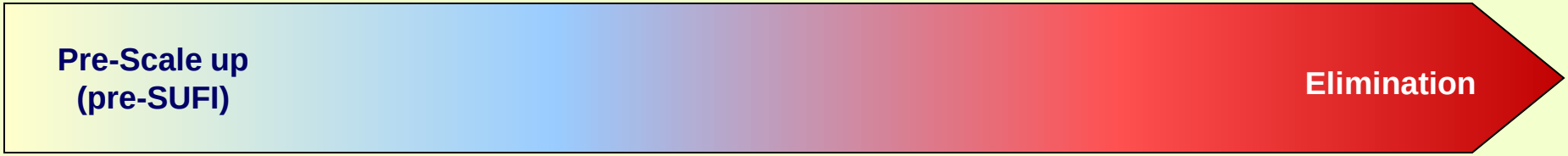

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Malaria Elimination: Why Today?

- Between the Global Malaria Eradication Program and the start of Roll Back Malaria (1975 – 2000) was a time of science

- The scientists identified:
  - Prevention directed to the biology of the vector and able to be delivered proactively and to the most vulnerable

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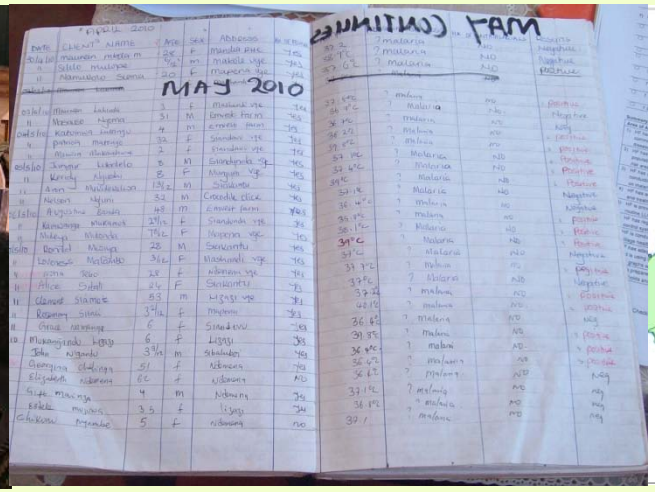
Malaria Elimination: Why Today?

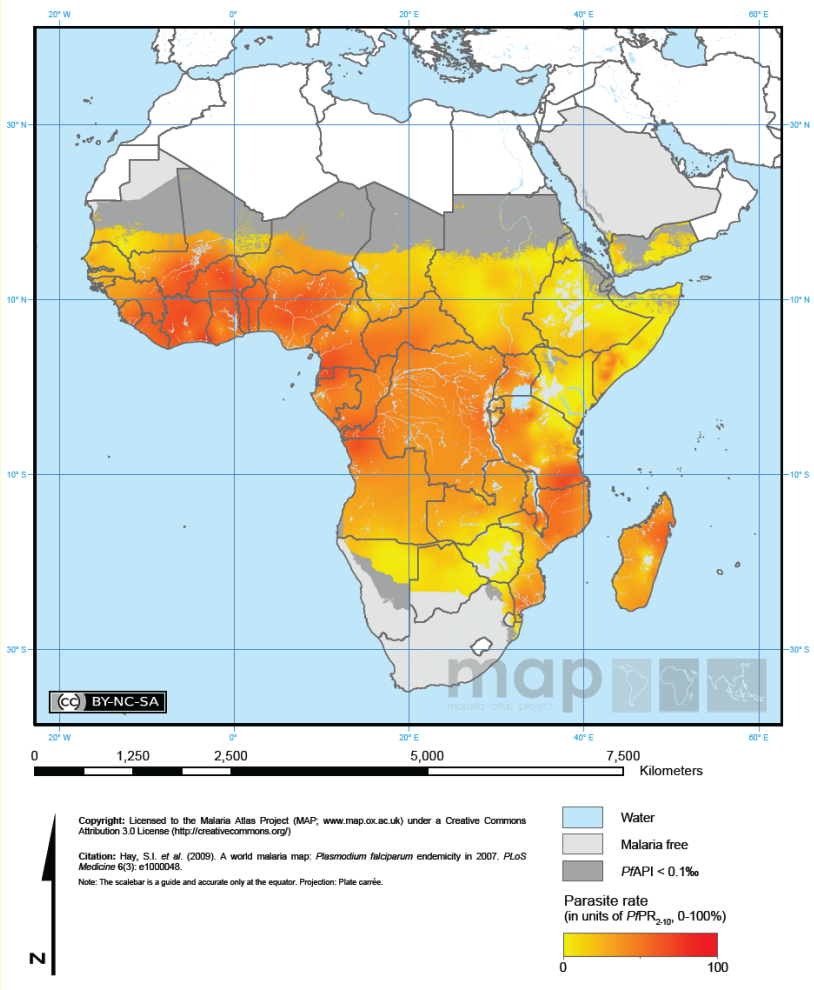
- The scientists identified:
  - Treatment with combined drugs to optimize efficacy and delay resistance
  - Diagnostics that can be deployed close to home and in facilities and can clarify where malaria transmission, illness, and death is occurring

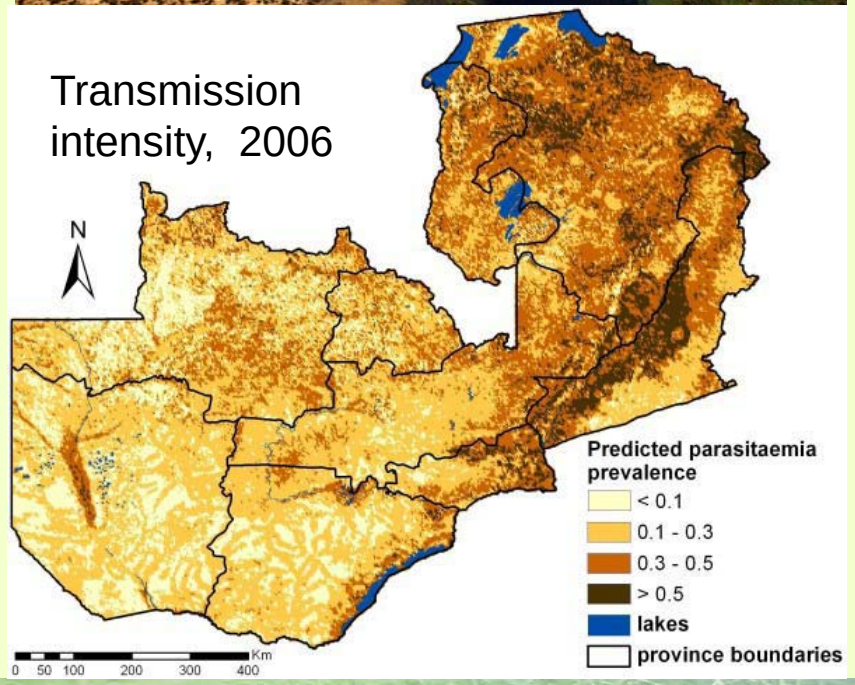
Malaria Elimination: Why Today?

- The scientists are seeking:
  - New/improved prevention, diagnostics and treatment
  - New interventions (vaccines, larval control, repellants)
- And we already have the 'final intervention' – surveillance for infection detection and transmission containment

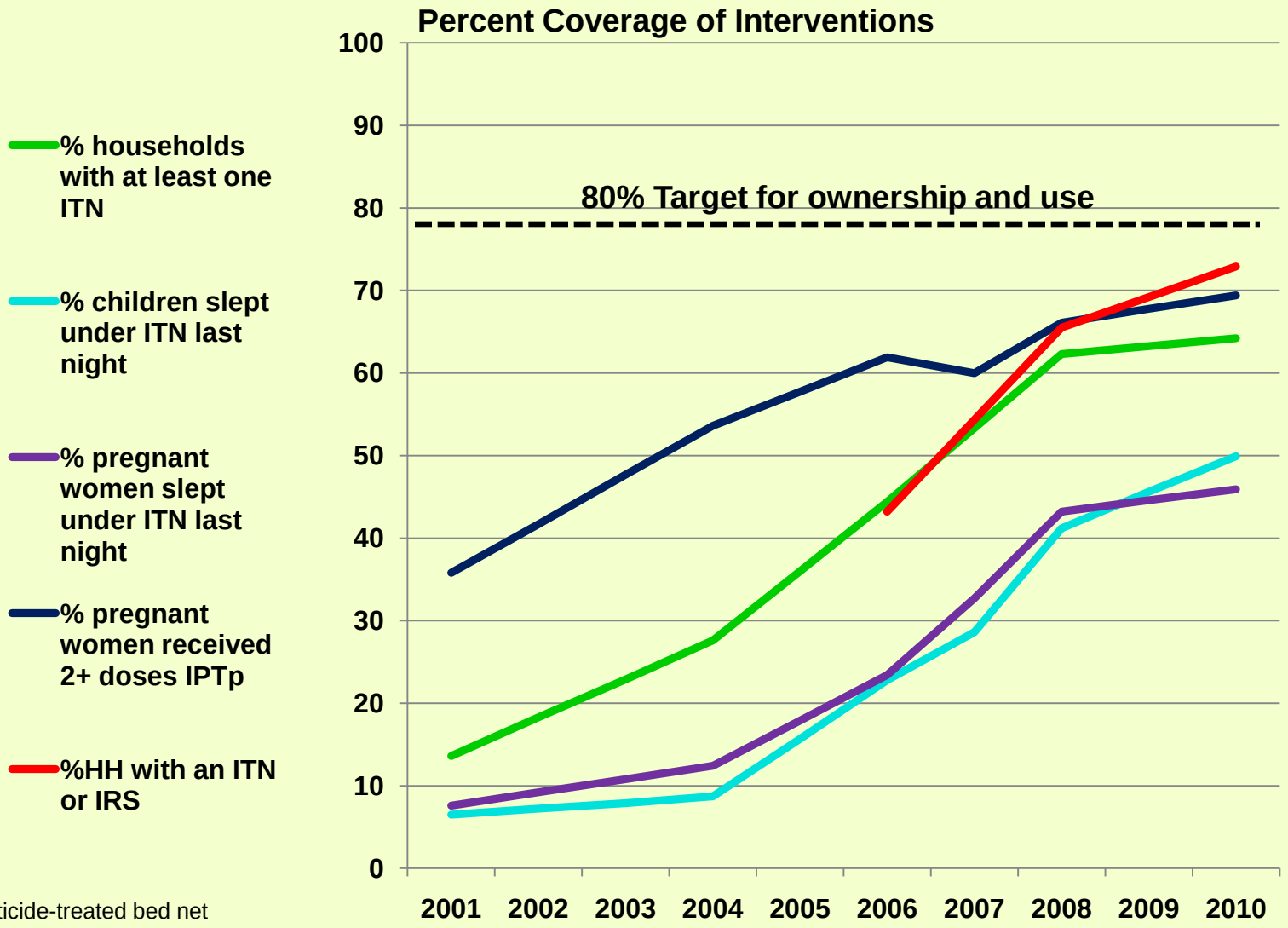


Malaria Elimination: Zambia Example





Zambia: Malaria Intervention Scale-Up 2001–2010



ITN, Insecticide-treated bed net
IRS, Indoor residual spraying
IPTp, Intermittent preventive treatment in pregnancy

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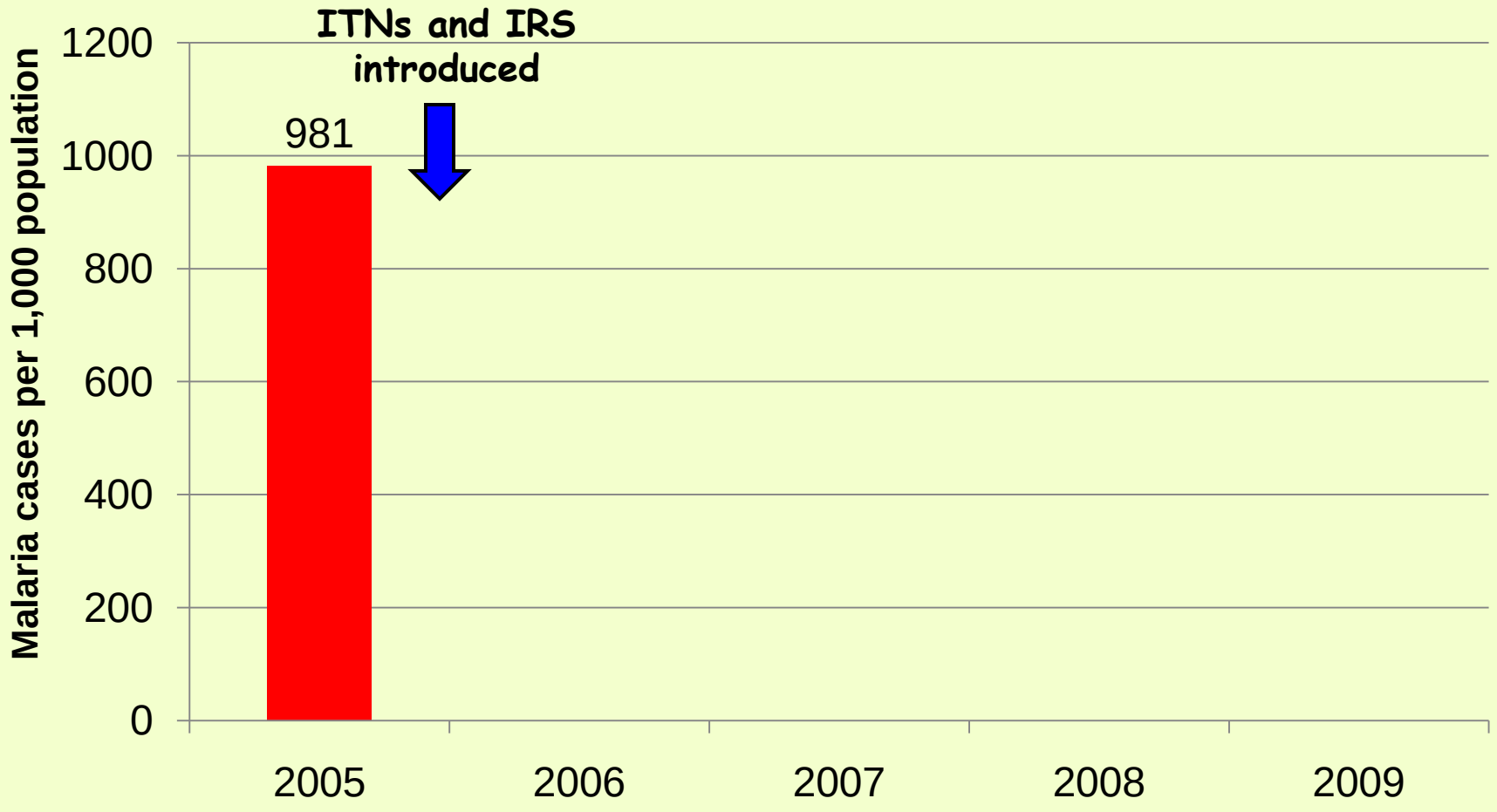
Reported Malaria Cases per 1,000 and Numbers of RDTs Delivered in Kazungula, Zambia



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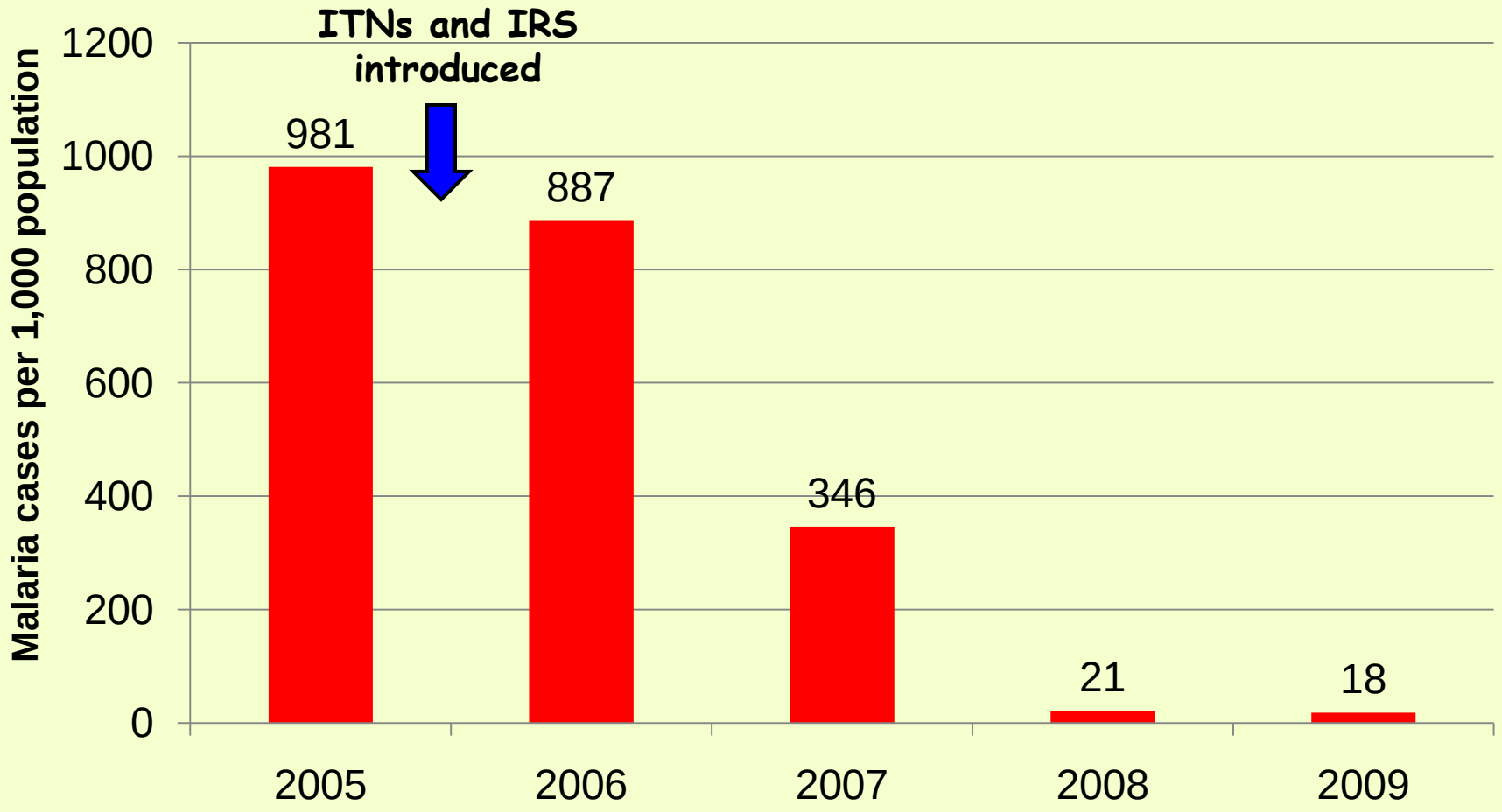

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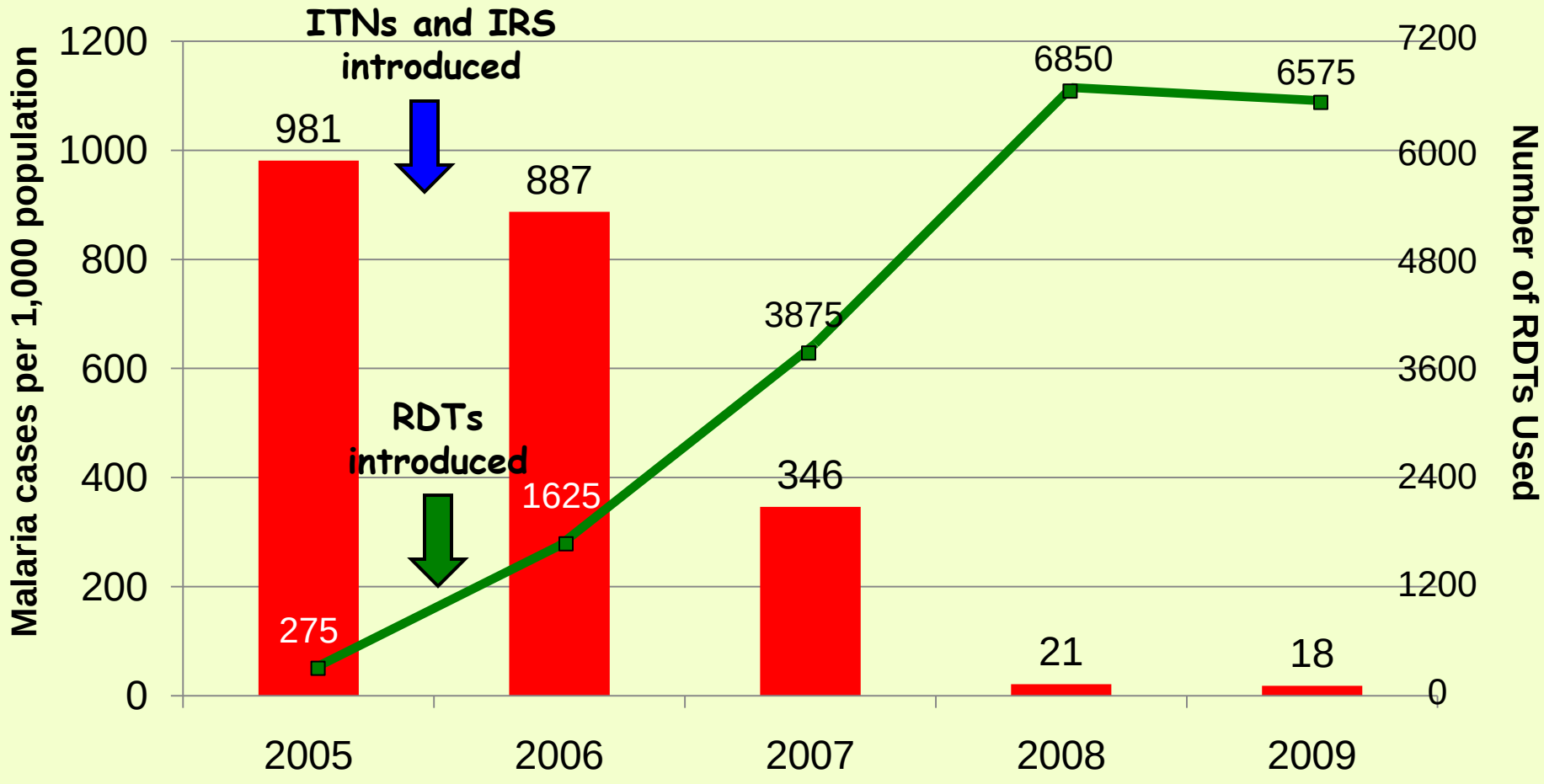

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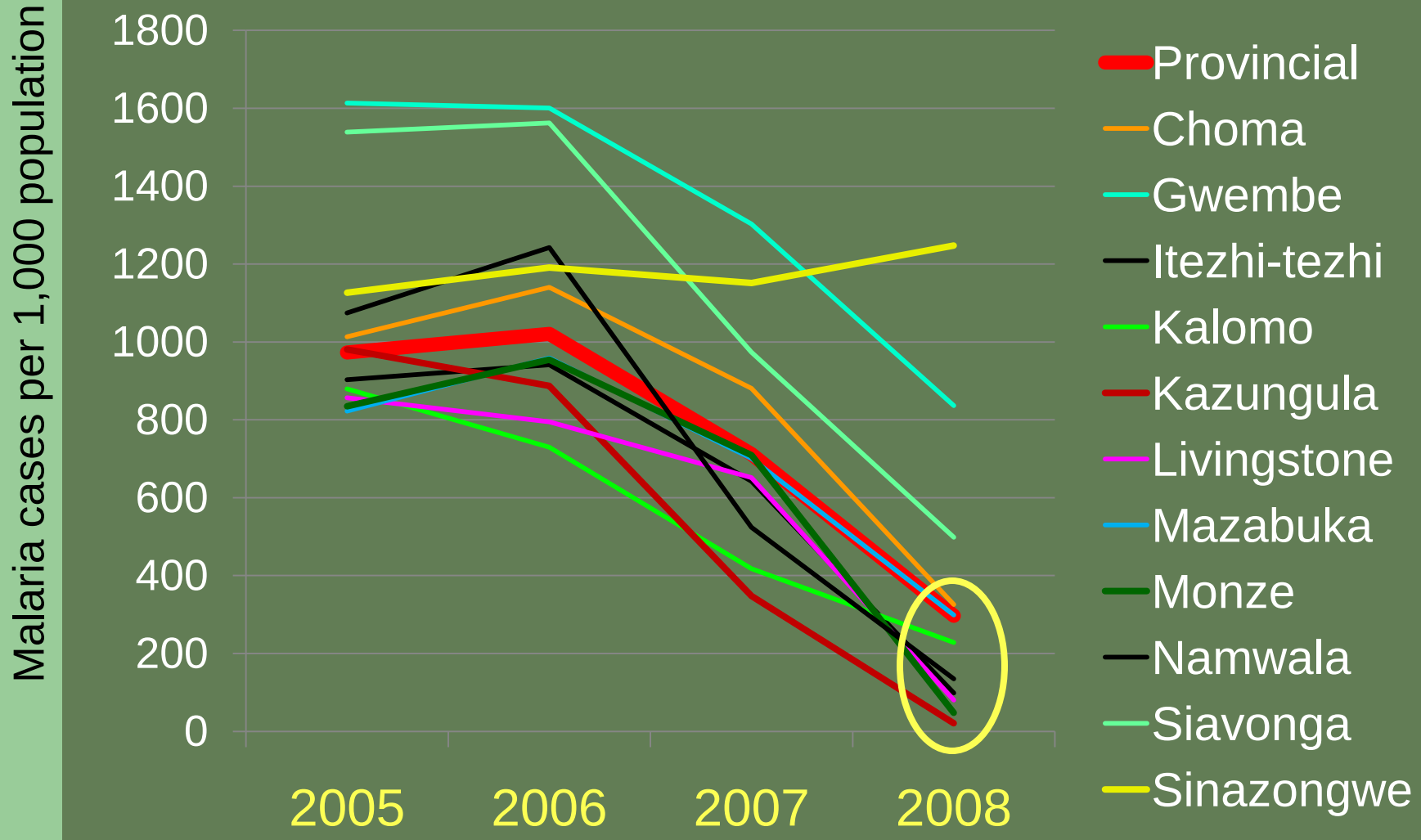
Incidence Rates for All Districts in Southern Province, Zambia



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A Partnership Perspective

- Partners: Elimination is on some but not all of their agendas
  - WHO, UNICEF, World Bank, UNDP
  - US-PMI
  - Bill and Melinda Gates Foundation
  - Roll Back Malaria
  - CDC?

Consider embracing Elimination!

UNICEF, United Nations Children's Fund
UNDP, United Nations Development Programme

A Partnership Perspective on CDC Engagement

- Focus on Africa, but work elsewhere (you do this)
- Work with many partners (you do this)
  - US-President's Malaria Initiative (PMI), WHO and others
- What will CDC do with its own resources and focus
  - Do "Control" via US-PMI (you do this)
  - Do "Science of Elimination" on CDC's dime (do this more explicitly and bring CDC's strengths)
  - Do "Capacity Building" from CDC's strengths

CDC – Doing "Science of Elimination"

- Surveillance as an intervention to reduce transmission

"**Surveillance** indicates epidemiological and remedial action.

…to detect cases...these are registered, treated and followed up with an investigation of the source and other possible cases;

…to discover transmission, establish its causes, eliminate residual foci, and to end transmission and avoid its resumption; and

…to substantiate that elimination has been achieved."

Source: E. Pampana. A Textbook of Malaria Eradication, 1962.

CDC – Doing “Science of Elimination”

- Surveillance as an intervention to reduce transmission
  - Diagnostics
  - Use of antimalarial drugs
  - Investigation procedures
- Test this “intervention” and its ability to contain transmission

CDC – Doing “Capacity Building”

- Capacity development for information management (building on surveillance for transmission reduction)
  - A “Stop Malaria” model (take a lesson from “Stop Polio”)
  - FELTP/FETP model in malaria-endemic countries
- Partner for this work

FELTP, Field Epidemiology Laboratory Training Program
FETP, Field Epidemiology Training Program

A Partnership Perspective on CDC Engagement

- Elimination and eradication require a long view…
  - and CDC should exercise its strength in “sustained public health focus” amidst competing priorities

Global Partnership Role for Elimination

- Bring a durable commitment
- Provide leadership in the “science of elimination”
  - Development of new tools and testing new strategies
  - Train the next generation
- Actively seek strategic partnerships en route to malaria elimination

➢Elimination/Eradication is not for the faint of heart!