

EPP and Spectrum 2009

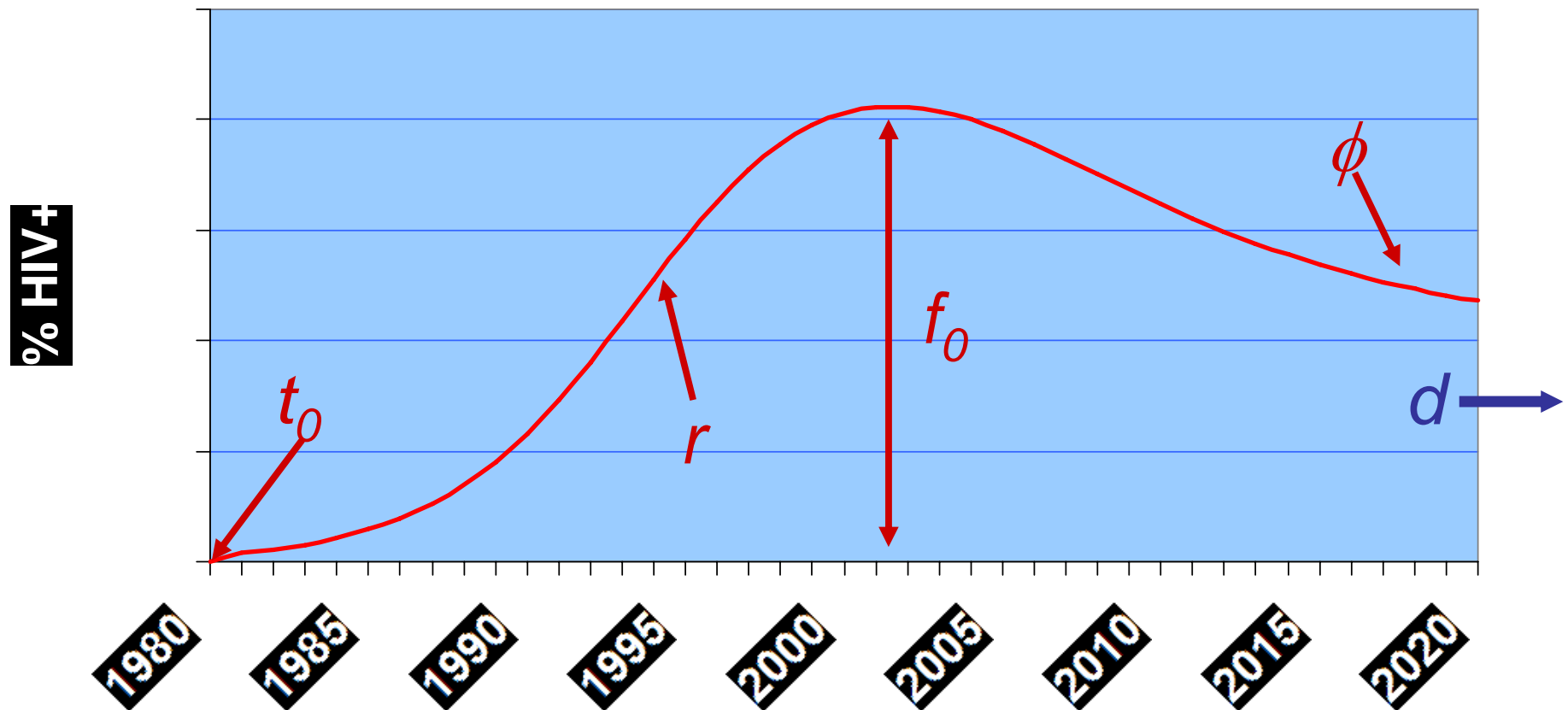
New features and approaches.

*Based on recommendations of
UNAIDS Reference Group on Estimates,
Modelling and Projections*

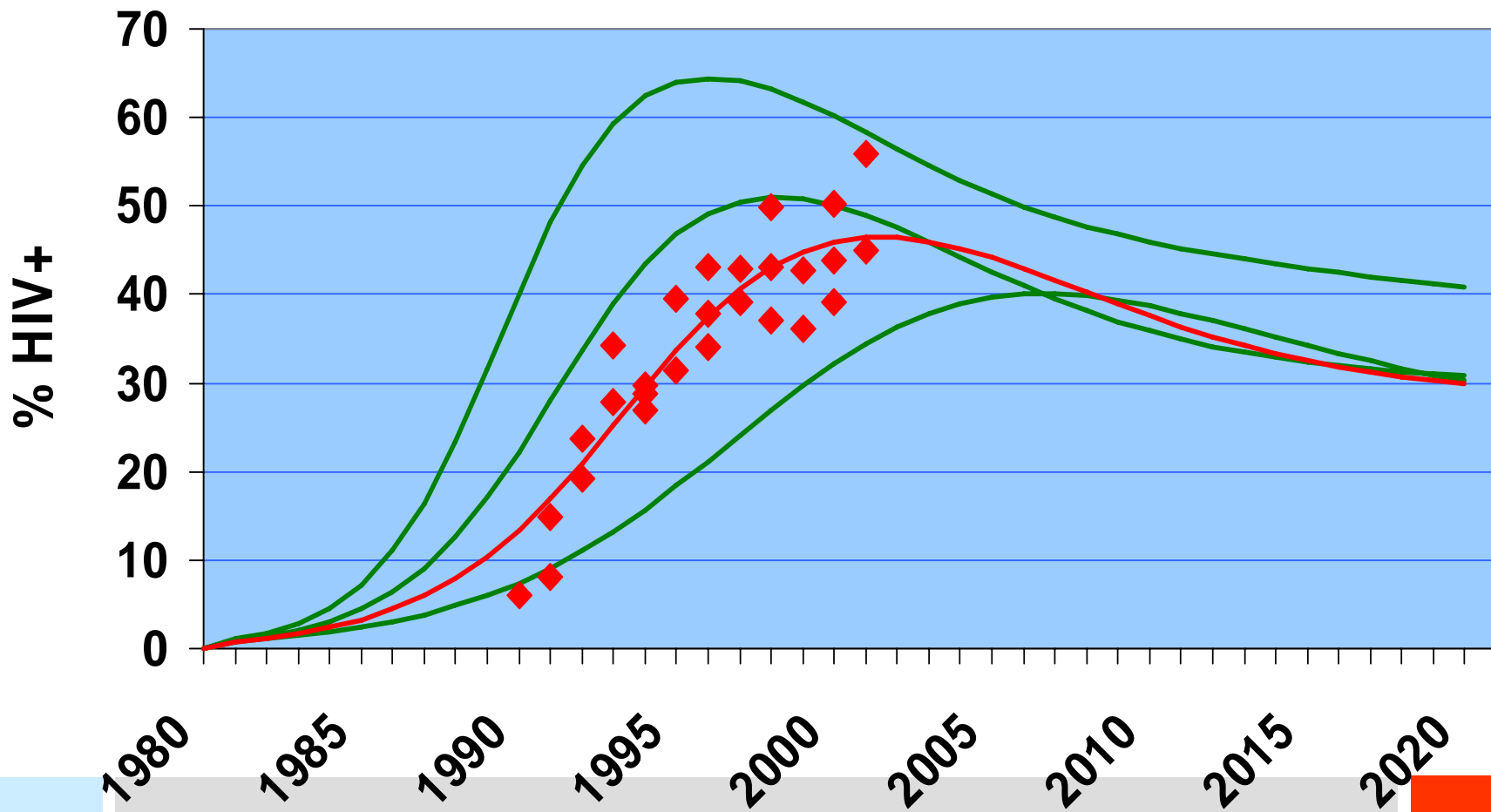
*UNAIDS/WHO Working Group
on Global HIV/AIDS & STI Surveillance*

EPP 2009

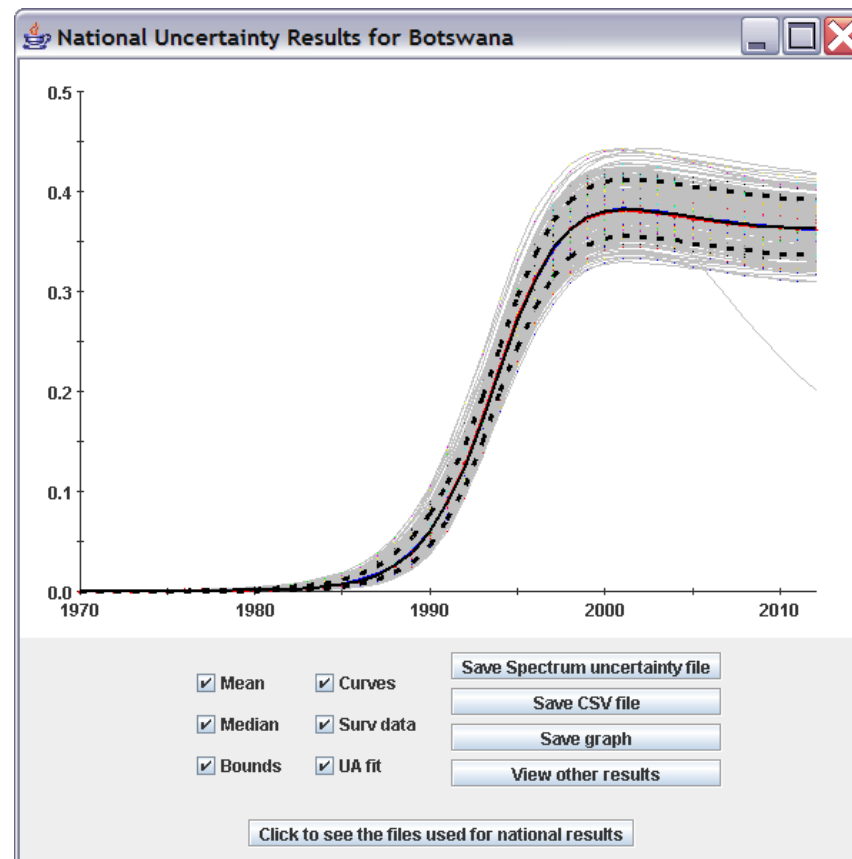
UNAIDS Reference Group model



EPP's job: fit the model to the data



2007: Bayesian melding for Uncertainty



New features in EPP 2009

- Prevalence trend informed by multiple surveys
- Effect of ART on prevalence - incidence
- Hence: need to pass incidence (not prevalence as before) from EPP to Spectrum
- Changing urban-rural %
- Uncertainty that incorporates the above (.spu file not ready)
- r-jump and phi-jump
- ART effect on prevalence incidence for concentrated epidemics
- Produce incidence from WORKBOOK prevalence and ART

Spectrum Objective

- Determine the consequences of the prevalence/incidence estimates made with EPP:
 - Number of New infections, PLHIV, AIDS deaths among adults and children
 - Need for treatment and effects of treatment
 - Orphanhood related to AIDS

New features in Spectrum 2009 - 2

- Double AIDS orphans informed by new regression analysis of surveys
- Child estimates:
 - 2 survival curves, for children infected perinatally and through breastfeeding
 - Monthly MTCT transmission probabilities
 - HAART as PMTCT
 - Abortion included as an option that affects MTCT
 - Updated default survival probabilities for ART and CTX
 - ART Need includes < 1 year