

## HIV impact projection and EFA achievement modelling for the education sector

Presentation delivered by  
Claire Risley on behalf of PCD



## Rationale: Modelling HIV impact in schools in low-income countries

- AIDS mortality among teachers in SSA is dynamic and can be high (0.1 – 5%)
- Modelling shows economic benefits of supporting HIV positive teachers
- Ministries of education need evidence to plan towards targets e.g. EFA



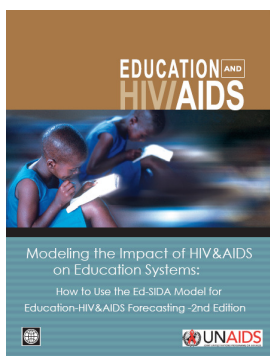
## The Ed-SIDA model combines:

- HIV and AIDS projections which use UNAIDS methods
- An educational planning model



## The Ed-SIDA system consists of:

- A database of education, HIV and impact data
- PCD's model which is used to provide information to governments and wider world
- A user-friendly tool and manual for local educational planners



## Operationalising mathematical models

- PCD provides information to governments on the impact of HIV on education
- PCD trains educational planners to use Ed-SIDA in their day to day activities
- 21 countries in SSA have themselves used Ed-SIDA

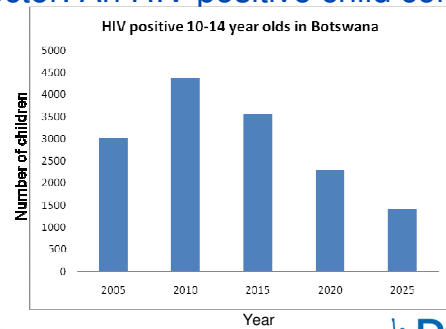


### Use of HIV impact modelling example 1:

HIV impact modelling results provided at the request of the government of Botswana



### The new challenge in the education sector: An HIV positive child cohort

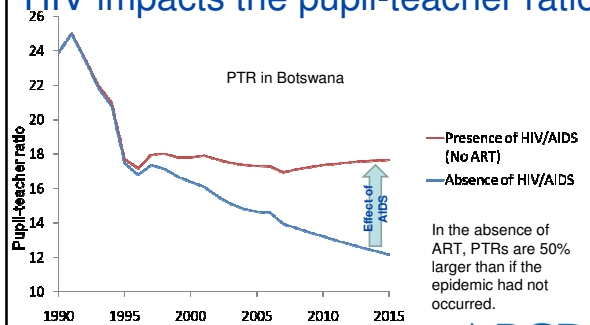


### Role of the school

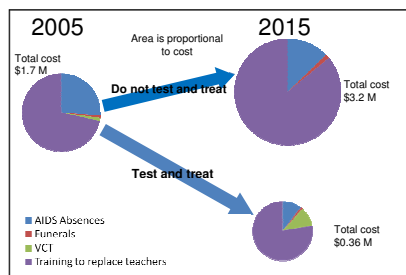
- Support of treatment
- Stigma reduction
- Recognition of an increased number of vulnerable children



### Achievement of EFA (Quality): HIV impacts the pupil-teacher ratio



### MoE Provision of VCT to teachers saves money as well as lives

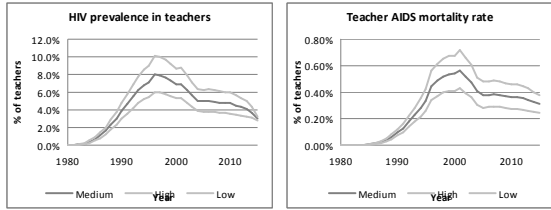


### Use of HIV impact modelling example 2:

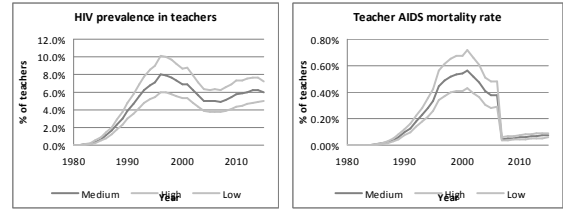
Global economic impact of HIV on education study presented at UNAIDS/WB economic reference group meeting



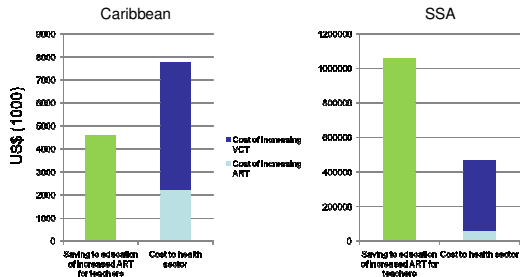
## Sub-Saharan African countries ART at current levels



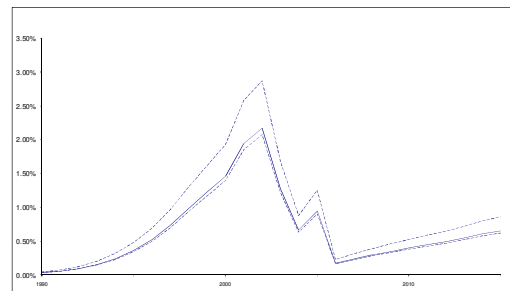
## Sub-Saharan African countries ART accessed by all teachers requiring it



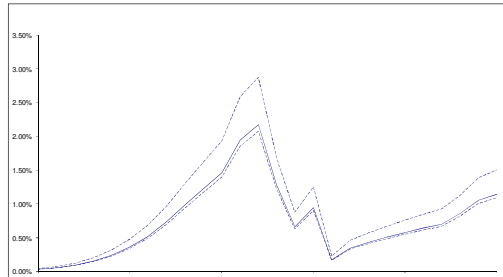
## Caribbean and Sub-Saharan African countries, savings and costs of increasing VCT and ART



## Botswana, percent of teachers dying of AIDS, 80% of teachers needing first- or second-line therapy from 2007 get it



## Botswana, percent of teachers dying of AIDS, 80% of teachers needing first-line therapy receive it from 2007, second-line therapy not available.



## Conclusions

- Modelling provides best practical evidence on future impact of HIV for educational planning
- Enables comparison of the implications of policy
- Models can influence priorities in teacher training
- Optimises decisions on value for money

