



Background

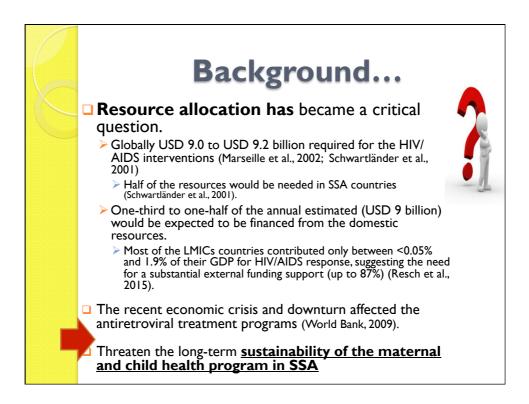
Since 1980's the impact of HIV/AIDS on the society has been devastating (Piot et al., 2001, Piot et al., 2007, UNAIDS, 2012a).

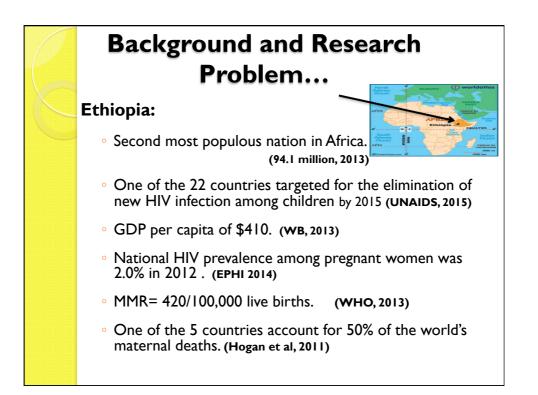
Globally in 2015, 36.7 (34.0–39.8) million people were living with HIV/AIDS, 2.1 (1.8-2.4) million were newly infected with HIV, while about 1.1 (940,000–1.3) million died of HIV/ AIDS (UNAIDS, 2016).

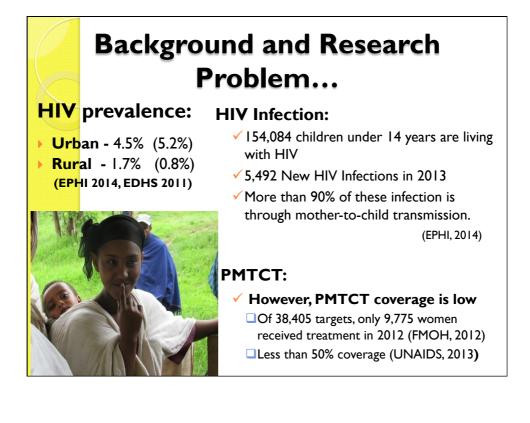
New HIV infections in 2015 were 5% lower as compared to the 2010 infections (UNAIDS, 2016).

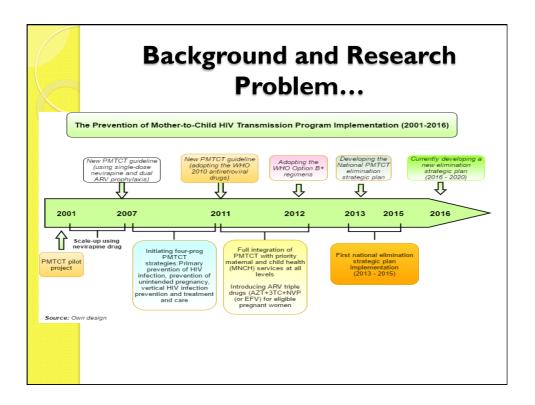


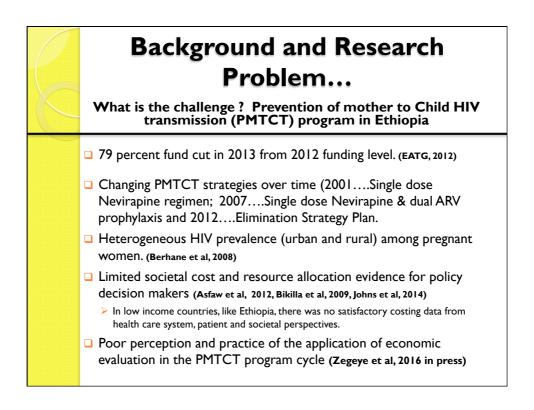
Access to **antiretroviral treatment** has had a significant impact on results.







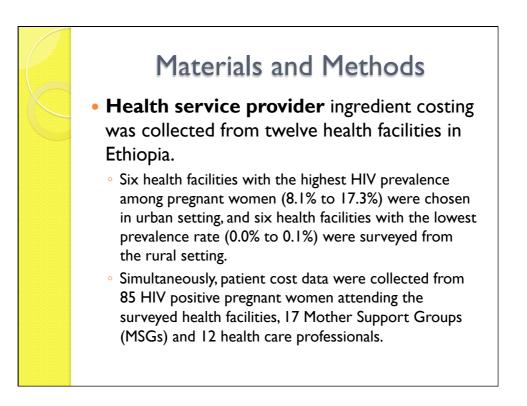




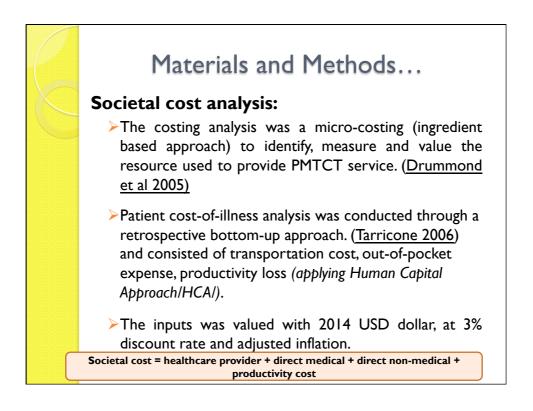
Study Objectives...

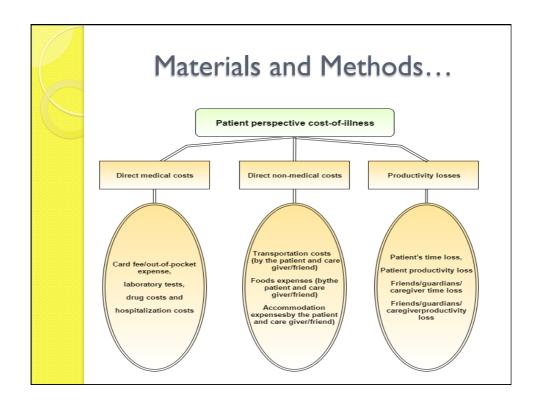
This study assesses the societal cost of mother-tochild transmission of HIV/AIDS across HIV prevalence heterogeneity (high, low) urban-rural contexts by estimating:

- the cost of PMTCT program from the health care provider perspective.
- the cost-of-illness attributed to patients with HIV on the PMTCT program from the patient perspective.

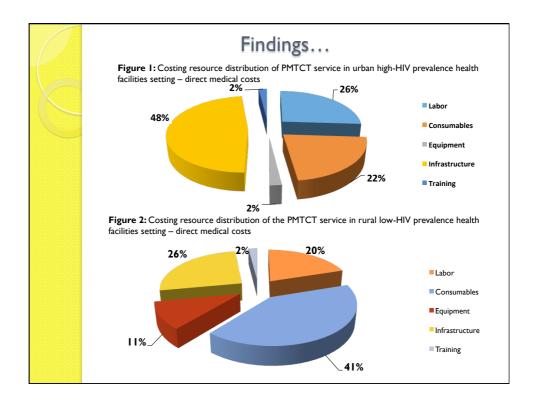


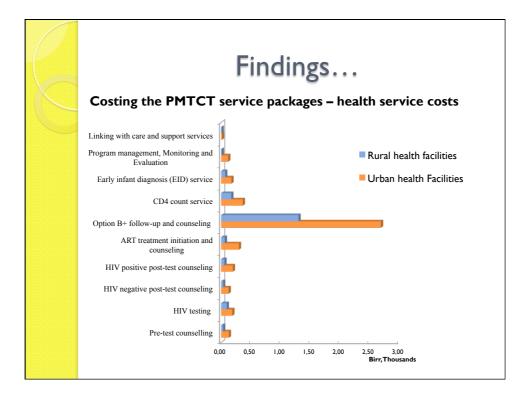
Materials and Methods Surveyed health facilities							
Surveyed health facilities	Region	HIV prevalence	Location from the center	Setting			
Felege Hiwot Hospital	Amhara	17.3	Northern Ethiopia	Urban			
Hiwot Fana Hospital,	Harari	8.8	Eastern Ethiopia	Urban			
Dile Chora Hospital	Dire Dawa	8.1	Eastern Ethiopia	Urban			
AFRTH Hospital	Addis Ababa	8.7	Addis Ababa	Urban			
Soddo Health Center	SNNPR	8.8	Southern Ethiopia	Urban			
Teklehaimanot Health Center	Addis Ababa	8.8	Addis Ababa	Urban			
Limuseka Health Center	Oromia	0.0	Western Ethiopia	Rural			
Daddim Health Center	Oromia	0.0	Western Ethiopia	Rural			
Toke Health Center	Oromia	0.0	Western Ethiopia	Rural			
Chewaka Health Center	Oromia	0.0	Western Ethiopia	Rural			
Kokosa Health Center	Oromia	0.0	Eastern Ethiopia	Rural			
Hasange Health Center	Harari	0.0	Eastern Ethiopia	Rural			



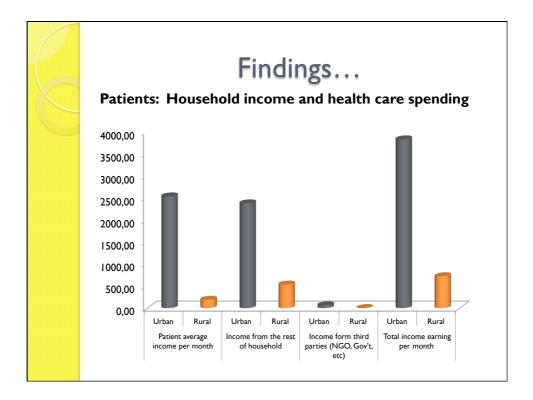


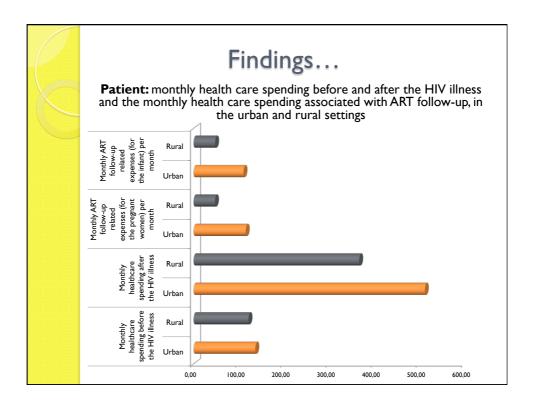
Findings							
A. Healthcare provider cost							
Urban health facilities	Unit cost PPY (ETB)	Unit cost PPY (USD)	Rural health facilities	Unit cost PPY (ETB)	Unit cost PPY (USD)		
Teklehaimanot Health Center	6,280.39	319.28	Limuseka Health Center	5,729.87	291.29		
Soddo Health Center	8,406.88	427.38	Chewaka Health Center	4,322.62	219.75		
Hiwot Fana Hospital	20,778.64	1,056.34	Daddim Health Center	7,538.46	383.24		
Dile Chora Hospital	14,410.24	732.58	Hasange health center	6,318.98	321.24		
Felege Hiwot Hospital	11,194.85	569.12	Kokossa health center	6,103.47	310.29		
AFRTH Hospital	21,620.19	1,099.12	Toke health center	5,598.17	284.60		
Mean	13,781.87	700.64	Mean	5,935.26	301.73		
Stdev (SD)	6,366.23	323.64	Stdev (SD)	1,049.02	53.33		

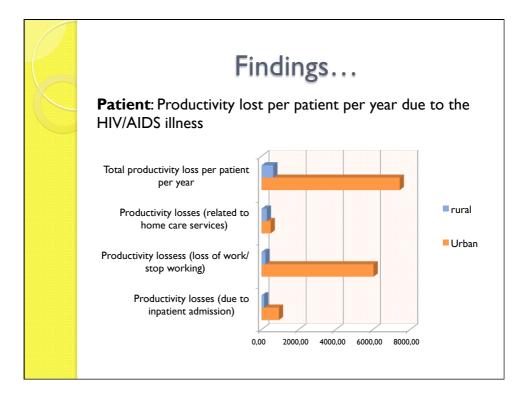


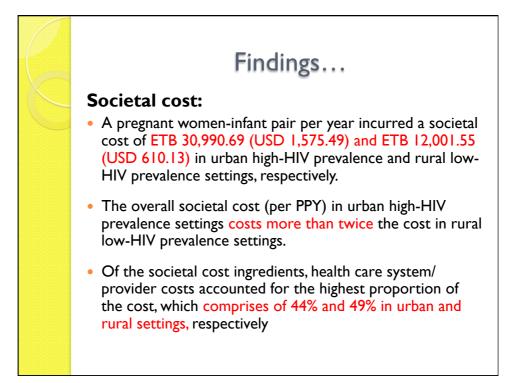


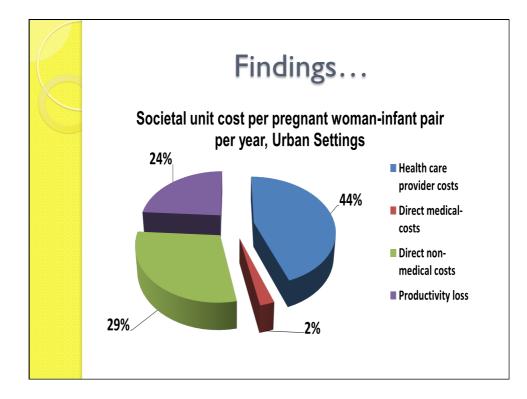
	Findings						
	Patient perspective cost-of-illness analysis Table Direct medical, direct non-medical and productivity loss per patient per year						
		Urban	Rural				
	Cost per patient per year	Mean (SD)	Mean (SD)				
	Direct medical cost	746.00 (749.68)	368.4 (161.91)				
	Direct non-medical costs						
	Transport cost (by the patient)	1,276.07(3099.38)	636.67 (349.31)				
	Transport cost (by Friends/ relatives/ guardians)	1,783.73(1470.39)	2,066.44 (2193.88)				
	Food costs (by the patient)	4,700.5 (4226.35)	1,510.83 (376.18)				
	Food costs (by Friends/ relatives/ guardians)	811.29 (403.72)	832.78 (783.64)				
	Accommodation expense (by the patient)	458.54 (1157.1)	6.9 (37.14)				
	Accommodation expense (by Friends/ relatives/						
	guardians)	0.0 (0.0)	19.67 (44.5)				
	Productivity losses	7,432.69	624.6				
		17,208.82	6,066.3				
	Total cost per patient per year	(USD 874.85)	(USD 308.4)				

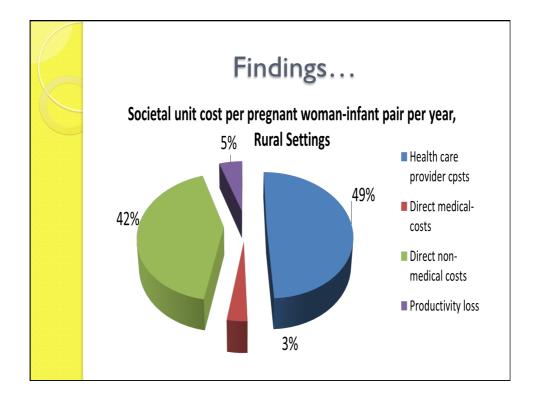


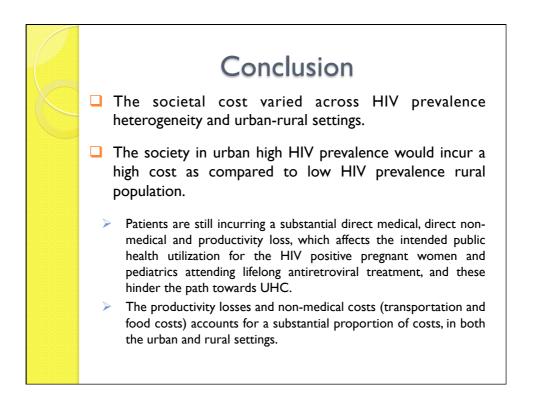












Conclusion

- In an effort to eliminate new HIV infection, it is vital to analyze the wider societal perspective costing so as to inform health care priority decisions, as well as to conduct a robust cost effectiveness analysis.
 - To improve the low PMTCT service coverage, local context costing evidence is required for continuous PMTCT program management.
 - Costing informs the budget preparation, program planning, intervention scale-up and highlight possible cost containment strategies
 - UHC aims for unhindered health care service access; HIVpositive pregnant women (including relatives/friends/families) incurred substantial direct medical, direct non-medical and productivity loss.

