



HELVETAS

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Trail Bridge Capacity Development in Ethiopia



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November 23, 2010, Addis Ababa,

Ethiopia

Outline of Presentation

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1. Who is Helvetas ?

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- **Founded 1955**
 - **First private Swiss organisation for development cooperation**
 - **Non-partisan, politically and denominationally independent**
 - **Supported by 85'000 members and private donors**
 - **Working in 18 partner countries**

Partner Countries



Working Areas:

Sustainable Management of Natural Resources

Education and Culture

Civil Society and State

Infrastructure in Rural Areas

2. Crossing problems in rural Ethiopia







Sebara Dildey bridge – crossing blue Nil, ET

3. Milestones in trail bridge projects development

Timeline	Activity
2003-2006	Pilot projects, 13 TB built, mainly in Oromia Region
December 2007	Exposure visit by Helvetas Ethiopia & 3 ERA Officials to Nepal
March 2008	Fact finding mission by Helvetas Nepal & Helvetas Ethiopia in Oromia, Amhara & Tigray Regions
May 2008	Signing of Cooperation Agreement between ERA & Helvetas Ethiopia
December 2008	14 Ethiopian personnel trained in Nepal on trail bridge technology (management level)
June 2009	Project implementation agreement signed between HET and 3 RRAs for the construction of 9 bridges
November 2009 – March 2010	Construction of 9 bridges, in three different regions
April – September 2010	Preparation 6 TB in Tigray (D-type) and 4 TB in Gambella region (2 N-type, 2 D-type)
Present status	10 trail bridges under construction.

4. Helvetas Ethiopia Trail Bridge Project

Trail Bridge Capacity Building Project (2008-2011)

Goal:

To contribute to the improvement of livelihoods of rural communities through enhancing access to socio-economic service centers.

Objectives:

- a) To enhance rural mobility through construction of trail bridges in the regions
- b) To build capacity on planning, construction and management of trail bridge technology
- c) To adapt Nepal version of manuals, design and drawings into local context and integration into national standards.

5. Approaches

- **Construction of trail bridges in tandem capacity building – learning by doing**
- **Technology transfer through South-South collaboration (Nepal-Ethiopia)**
- **Multi-stakeholder (private sector, communities & local government)**
- **Technically sound, highest quality – material and construction, contribution to sustainability**
- **Fabrication of steel parts, organization of construction material centrally and dispatch to the regions**
- **Field monitoring and supervision at critical milestones (quality assurance)**
- **Safety first**

6. Partnership with ERA / RRA's

- **MOU (2008 – 2010) signed between Helvetas Ethiopia and ERA**
- **RRAs, implementation agreement (ERTTP - DFID), with Amhara, Tigray, Gambella, SNNPR.**



7. South – south collaboration - principles

- **Formal collaboration between Helvetas Nepal – Ethiopia (Memorandum of understanding (MoU) 01.07.2008 – 31.12.2011, Yearly operational agreements**
- **Project management with Helvetas Ethiopia**
- **Support demand driven, on consultancy basis at cost**
- **Capacity increasing, support declining.**



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Trail Bridge Capacity Building Project

8. Achievements

- **Significant improvement of livelihoods of rural communities**
- **Importance of trail bridges recognized by Federal- Regional- local Governments and Communities**
- **Co-financing of trail bridge projects by Regional / Local Governments**
- **Building on existing decentralized structures: Regions, Zones, Woredas, communities, partnership established**
- **Integration of TB specifications, manuals & drawings into Ethiopian National Standards**
- **Successful South – South collaboration between Nepal and Ethiopia**
- **Knowledge, Skills & Experience) gained by Helvetas Ethiopia trail bridge team through facilitating technology transfer + adaptation to local context.**

9. Bridges constructed

Steel Truss Bridge

Numbers: 2

**Location: Yem Woreda,
SNNPR**

Span: 24m / 28m



N-Type Trail Bridges
Numbers: 2
Location: Atsbi
Womberta Woreda,
Tigray
Span: 96 m, 112 m



Trail Bridges D-Type

Numbers: 18

Location: various regions

Span: average 90 m



10. Cost Summary (by bridge type)

Cost type category	D-Type, Span 85 mt US\$	N-Type, Span 85 mt US\$
1. Preparatory work: feasibility study, survey, design / cost estimate	4'000	5'000
2. Construction, materials: cables, bulldog grips, steel parts, cement, tools, transportation	40'000	50'000
3. Construction, labors: skilled, unskilled, foremen, driver, running cost	9'000	18'000
4. Capacity Building: south – south collaboration, social organization support, trainings etc	18'000	23'000
5. Management: coordination, supervision, monitoring	18'000	25'000
Cost/m D-Type: 1'047 N-Type: 1'424 Total	89'000	121'000

11. Challenges

- **Cables & Bulldog grips of the required quality not available in local market**
- **Top-down site selection**
- **Bridge construction sites scattered over large area – increased cost for construction, coordination and monitoring**
- **Fund acquisition –programme extension and sustainability.**

12. Experiences gained









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13. Trail bridges – under construction



**Gambella Region:
2 N-Type / 2 D-type**

**Tigray Region:
6 D-Type**

**Construction period:
October 15, 2010 – end of
February 2011**





**Helvetas Ethiopia Trail
Bridge Team**

For more information please consult the following websites:

www.helvetas.org

www.helvetasnepal.org.ne

www.helvetasethiopia.org

Thank you for you attention