

[i3dlo web site](#)

[i3dlo Flash presentation](#)

### Some of our past projects

- Basic hygiene (Uganda)
- HIV / AIDS (Ethiopia)
- Soil and water conservation (Zimbabwe)
- Bee-keeping (Zimbabwe)
- Domestic tap repairs (SA)
- Sanitation (Mozambique)
- Mine safety (South Africa)
- PC Literacy (South Africa)
- Sustainable energy (SA)

**World Summit Awards:** Our work with **World Links Zimbabwe** recognised as "one of the most outstanding examples of creative and innovative e-content" (20 000 nominations, 154 countries, 2009)

"We dream visually, we read visually. Therefore, by using VR to show concepts and knowledge in a visual way, we can dramatically enhance the level of understanding of any subject"

Eli Gudza. World Links Zimbabwe

### The Naledi3d Factory

- Based at the Innovation Hub in Pretoria
- Pioneered the use of VR in our poorer communities
- Over 12 years experience in 3D and virtual reality
- Understands the challenges & learning needs in Africa
- Understands the importance of collaboration
- In Africa, by Africa, for Africa
- NSTF Award nomination (2011)

## Interactive3d-based training: Empower communities; change lives - create wealth

### A visual learning experience:

- Uses virtual reality to create a visual, rich and engaging learning experience
- Overcomes learning barriers caused by a lack of literacy & the use of European languages
- Significantly increased learning retention
- Takes advantage of the visual strengths of the human brain



Bee-Keeping workshop, Rusike, Zimbabwe



Building a VIP latrine (Mozambique, Zimbabwe)

**i3dlo's** - can be used to communicate concepts and develop skills in a wide range of skills areas, for example:

- Artisan skills & safety awareness
- Infrastructure development
- Agriculture & food security
- Sustainable energy options
- Water and sanitation
- Life skills and ICT's
- Health care & heritage

**i3dlo's** - combine virtual reality ("interactive 3d") with the pedagogical concept of the "learning objects":

- i3dlo's** - an evolution in the e-learning paradigm
- i3dlo's** - increased learning impacts & comprehension
- i3dlo's** - packages knowledge efficiently - easy to understand and to digest
- i3dlo's** - implementation model that supports translation into local languages



Water conservation: simple repairs to a toilet cistern



Bee-keeping – making a Kenya Top bar Hive & hive location

### Truly Pan-African:

We have worked with organisations in Ethiopia, Rwanda, Uganda, Mozambique, Sudan, Senegal, and Zimbabwe - as well as South Africa itself

Re-usable

Translatable

Open access



# interactive3d learning objects... (i3dlo's)



## Dr Fay Chung: Past Minister of Education, Zimbabwe

"By bridging the literacy barrier through the use of 3D interactive models, Naledi3d Factory overcomes the inherent limitations of text. At the same time, language differences become much less important as text is replaced by interactive, 3D images"

"Finally, and perhaps most excitingly, Naledi3d Factory works closely with local stakeholders to develop the content that goes into its interactive simulations. This ensures that the content is always relevant and much more appropriate to the communities and cultures where it will be used."

## Peter Schiøler, CII Advisor, UNESCO, Paris

"The Naledi3d Factory is more than an excellent technical partner for UNESCO. I have personally been impressed by the company's commitment to, in the spirit of post apartheid South Africa, seek new solutions and share know-how for the public good across the continent..."

## INFORM...

"...If we have programmes like this, where we use visualization, learning will be interesting and enjoyable..."

Zenzele Mofokeng – Alexandra

"VR is a powerful tool in the development of our communities"  
Mutoko Farmer, Zimbabwe

It is very helpful - as an Agric. Teacher I would want to continually use VR in my lessons"

Farm Extension worker, Mutoko,

## I3dlo's – Modernising without westernising



Surveying a field using an A-Frame (soil conservation)

### CASE STUDY: Farming in Zimbabwe:

Three year intervention in partnership with World Links Zimbabwe & the WK Kellogg Foundation.:

- Implemented in Community Centres in five Districts
- Addressed soil and water conservation; plant pests; plough maintenance; Sorghum
- I3dlo's material translated into Shona
- Community driven (VR Committee's established); trained the trainer
- Led to on-going learner groups
- World Summit Award, 2009

### Meeting the need for LOCAL content

Many initiatives build ICT infrastructure, yet the missing link is often local content that supports local value systems and local needs.

Local content should also be culturally relevant - and available in local (African) languages.

We have worked with partners across Africa who are able to "localise" new i3dlo's:

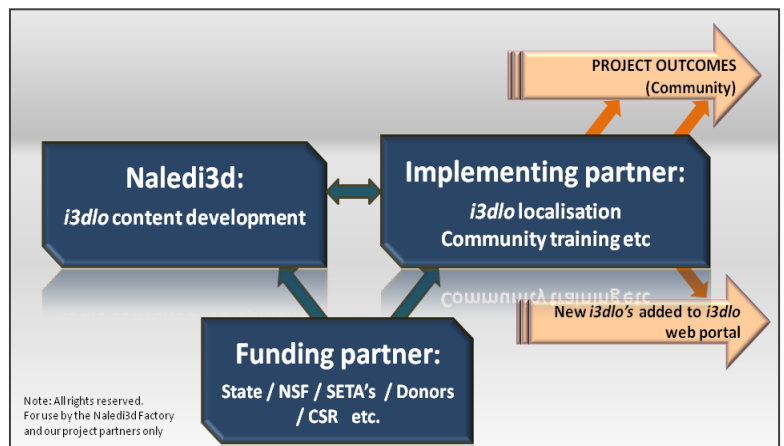
- Language elements can be easily translated
- The message can be adapted to local needs
- Encourages the use of local languages – key to the preservation of indigenous languages



### And now?

The Naledi3d Factory's project model is based on collaboration between three partners

Together, we WILL make that difference ...



Mine safety – haulage way