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The Southern African

ICT for Education Summit 2012

26-27 January, Victoria Falls

TECHNOLOGY FOR IMPROVING EDUCATION

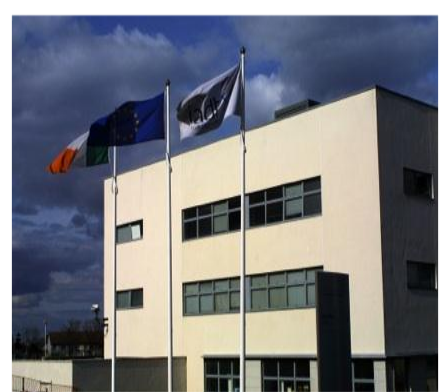
Dr Ciaran McCormack
Dun Laoghaire Institute of Art,
Design & Technology





Ciaran McCormack
Creative Director School in a Box

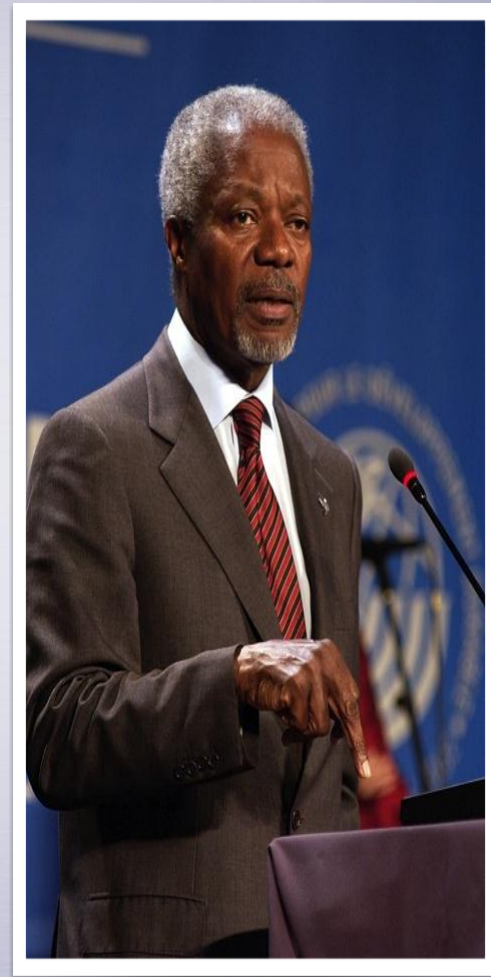
Twitter: [ciaranmccormack](#)



**IADT is the Institute of
Art Design and
Technology in Ireland**

“Education is a human right with immense power to transform.
On its foundation rest the cornerstones of freedom, democracy and sustainable human development.”

Kofi Annan





Classrooms come in all shapes and sizes



Content is delivered to the whole class on a blackboard



Technology could provide teachers with new tools and content



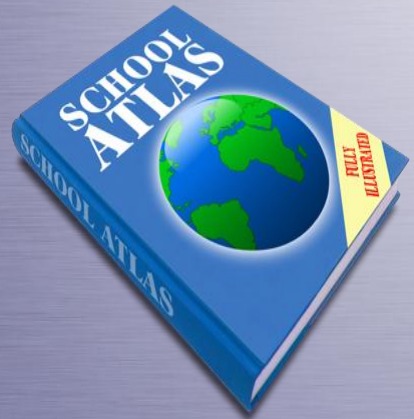
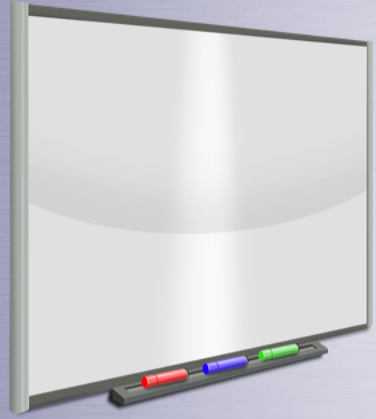
It starts with Pedagogy

In most African Classrooms content and teaching happens at the front of the classroom.

The way to successfully integrate technology is to work the way teachers teach and allow them to do MORE from the front.

Just putting devices in the hands of students can be disruptive.

Teachers must come first.

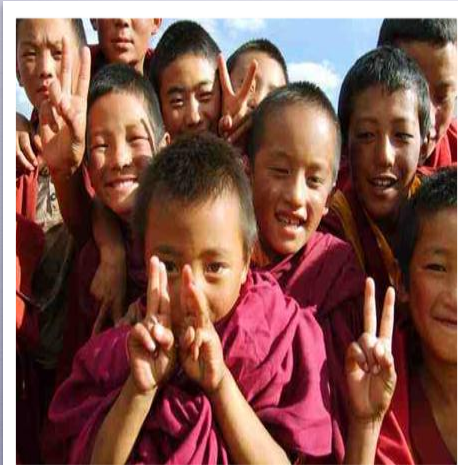


A Question of Access



(1) Access to Power

- More than **60%** of the 1.2 billion population of India are **without access to electricity**. More than **70%** of sub Saharan Africa has **no access to electricity** and in rural areas this often exceeds 90%.



(2) Access to Learning

- 35% of Tibetan children between 7 and 14 are **not in school**
- 40% of Tibetans **do not have easy access** to a Primary School

Free electricity can be expensive



Traditional Solar Solutions

- Fixed Permanent StructuresBespoke and Specifically tailored for each deployment
- Very Expensive - In the region of **\$30,000** to power 40 laptops in a single location
- Very Inexpensive - In contrast **School In A Box Solar Solution** is a fraction of this cost

Core Components



Solar Panel and Battery - Can be charged in 5-6 hours



Battery powered speakers - Small but powerful



Battery powered projector - which can project onto a variety of surfaces.



iPad 2

Content



Apps and content



Garageband and iMovie for creativity



iWork for creating documents and presentations



*SIAB weighs just 11kg,
including the case*

The Solution

School in a Box can take interactive learning to **virtually anywhere** in the world.

Based around the revolutionary iPad, it enables teachers of **children of all ages**, to present new, exciting learning content and materials to the whole class.

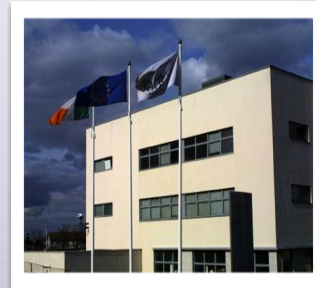
School in a Box is **easy to use** and comes with training videos and content preinstalled or in larger implementations, local trainers can be trained by IADT staff.



“School in a Box has the potential to revolutionise
Education in rural schools across Africa”

Jurie Joubert, Head of the Centre for Multigrade Education -
Cape Peninsula University of Technology

Memorandum of Understanding (Signed) between CPUT and IADT



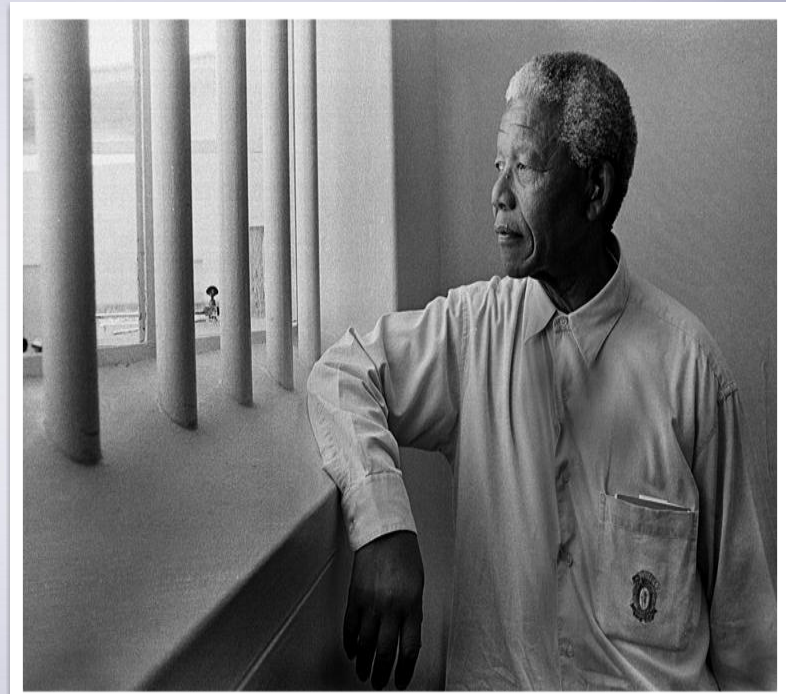
SIAB Business Model

- 1) School in Box is 'Not for Profit'
- 2) Two Options:
 - a) User
 - b) Donor
- 3) Only delivered through local partnership - Training and ongoing local Consultation
- 4) Professional Distribution around the world

User

Donor

“Education is the most powerful weapon which you can use to change the world.”



Nelson Mandela

