UNESCO-China Funds-in-Trust Project on HARNESSING TECHNOLOGY FOR QUALITY TEACHER TRAINING

Zambia

18-21 March 2019, Time limit: 15 minutes
UNESCO-China Funds-in-Trust Project on HARNESSING TECHNOLOGY FOR QUALITY TEACHER TRAINING

Zambia

- TVTC – MoHE
- Charles Lwanga – MoGE
- 16 TTIs CFIT project satellite centres
- 20 schools/province
- Institutional synergies – Lecturers’ portal
Presentation Overview

• CFIT project alignment to Zambia policies and CESA objectives

Sustainability

CFIT Zambia main achievements and impact

Online platforms

Trainings

Developed materials

Contextualization of the ICT-CFT
Focus and how these three align?

- **The mission of CESA 16-25** - Reorienting Africa’s education and training systems to meet the knowledge, competencies, skills, innovation and creativity – integration of ICT in the education sector
- **Zambia’s 7NDP** - Improve ICT infrastructure for service delivery e.g. Education Sector
- **National ICT policy** – Integrate ICTs in the education system and develop the nation’s Research and Development (R&D) capacity to enhance national development
- **ESSP** - ICT integrated as one of the key thematic in the education sector

- The vision of the President of the Republic of Zambia, is of a smart Zambia that fully utilizes ICTs for development in all sectors of national economy
### CFIT Objectives

**CFIT Objectives**

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<tr>
<th><strong>Linkages between CFIT Zambia project objectives and CESA</strong></th>
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<tr>
<td>Improving the capacity of existing key teacher education/training institutions to provide quality pre-service programmes to increase the supply of qualified teachers through ICT-supported ODL</td>
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<td>Strengthening capacity of key teacher education/training institutions in supporting in-service teachers’ CPD through blended learning</td>
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<td>Enhancing the capacity of key teacher education/training institutions to equip teacher trainers with the competency of using ICT to improve the quality of teaching and learning</td>
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<td>Supporting networks of teacher education/training institutions for knowledge sharing among policy makers, institution leaders and other stakeholders on effective strategies and practices</td>
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### CESA Objectives

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<tr>
<th><strong>CESA Objectives</strong></th>
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<tr>
<td>SO 1: Revitalize the teaching profession to ensure quality and relevance at all levels</td>
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<td>SO 3: Harness the capacity of ICT to improve access, quality and management of education and training systems</td>
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<td>SO 2: Build, rehabilitate, preserve education infrastructure, develop policies that ensure a permanent, healthy and conducive learning environment in all sub-sectors and for all, so as to expand access to quality education</td>
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<tr>
<td>SO 8: Expand TVET opportunities at both secondary and tertiary levels and strengthen linkages between the world of work and education and training systems</td>
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CFIT Zambia main achievements and impact

Impact on Teacher Educators at TVTC & CLCE

Enhancing the capacity of key teacher education/training institutions to equip teacher trainers with the competency of using ICT to improve the quality of teaching and learning;

Massive training on the pedagogical use of ICTs (PU of ICT) to transform teacher training

Capacity building in developing local master trainers in PU of ICTs and digitalization of learning materials

Advocacy and sensitization on the PU of ICT to other teacher training, secondary and primary schools in Zambia

Strengthening capacity of key teacher education/training institutions in supporting in-service teachers’ CPD through blended learning;

National conferences on best practices in integrating technology in teaching and learning and networking

Development of institutional ICT Management Guidelines

Digitalization training @ TVTC

PU of ICT training @ CLCE
CFIT Zambia main achievements and impact

Impact on teacher trainees

Learning materials revised and reviewed for;
 Increased learner-to-content, learner-to-learner interaction across subjects

- Conducting own experiments
- Taking online assessments
- Promoting independent study
- Creating own audio content
- Collaboration
CLCE LMS Platform

- 545 registered users (38 teacher educators and 507 Pre and In-service trainee)
- List of courses accessible 24/7 on LMS
  - Computer Studies
  - Entrepreneurship
  - Music
  - Art and Design
  - Expressive Arts
  - Physical Education
  - Literacy and Language Education
  - Mathematics Education
  - Science Education
  - Social Studies Education
  - Civic Education
  - Geography
  - Technology Studies Education
  - Food and Nutrition
  - Metal Technology
  - Home Economics and Hospitality
Online Platforms

TVTC eLearning Platform; SIS integrated with LMS

LMS Courses
Uploaded Courses in;
- Business Studies,
- Design and Technology (metal & Wood),
- Bricklaying and carpentry,
- Joinery,
- Guidance and Counseling,
- English,
- Civic Education,
- Communication Skills,
- ICT,
- Mathematics,
- Physics and Chemistry

3500 full time and ODL students uploaded to the SIS
- Online registration and payment
- Student access to financial information
- Online access to results
CFIT Materials Development and Training

Training materials produced under Phase II at TVTC;
- Moodle training manuals
- Course content revised (initial 13 modules revised increased to over 50 modules)
- ICT Management Guidelines

Being used by;
- TVTC Teacher educators and
- Trainee teachers

Impact on teaching and learning;
- More interaction between learners and content
- Increase in independent learning
- Promotion of learner centred approaches of teaching
- Increased access to content
- Horizontal integration of ICT across all subjects
- Creation of interactive content
CFIT Materials Development and Training

Training materials produced under Phase II at CLCE;
• 16 online interactive courses created
• eLearning Policy

Being used by;
• CLCE Teacher educators and student teachers

Impact on teaching and learning;
• Enhanced flipped classroom and blended T/L approach
• Editing and Updating interactive content 24/7 via a browser
• Enhanced student-teacher and student-student collaboration using online LMS and online collaborative tools
• Embedding external resources and multimedia content
• Automated grading and Rubrics marking
• Tracks Learning progress
• Monitoring learning progress
Trainings

Types of training

Categories of trainings:

**Sensitization** - introduction on the integration of ICT in teaching and learning, need for a framework and SDG4

**Digitalization** – E-content design frameworks and digitalization using Articulate Storyline

**Technical** – IT staff training on infrastructure implementation, support and maintenance

**Monitoring and Evaluation** – creation of tools and M&E of the CFIT project implementation

**Moodle/SIS** – Upgrading, implementation and training on the use and administration of the LMS/SIS

**Pedagogical use of ICTs** – Strategies, frameworks, best practices, OERs and learner support in the pedagogical use of ICTs

**Advocacy and sensitization** – Scaling up of the capacity development to other TTIs and schools across Zambia
Types of training

Impact of the trainings:

- **Sensitization** - Subject matter expert teams formed to discuss implementation of technology strategies

- **Digitalization** – Trial version of Articulate used to add interactivity to presentations for increased learner engagement

- **Technical** – Improved infrastructure and user support

- **Monitoring and Evaluation** – M&E instruments developed and implemented in the project and users trained in usage

- **Moodle/SIS** – Courses digitalized for 24/7 access. Student access to bio data and online services. Improved teacher trainee performance

- **Pedagogical use of ICTs** – Flexible and Blended learning approaches adopted

- **Advocacy and sensitization** – Ongoing training and support to TTIs and schools. Partnerships and networks formed
Contextualization of the ICT-CFT

Adaptation of the Zambia ICT competence framework for teachers

- Development/adaptation of the Zambia ICT competence framework for teachers was finalized.
- Distribution and sensitization on the Zambia CFT started by the two implementing partners to all provinces in the country on the competencies and integration of technology
- Short and long term programs to be designed around the framework to strengthen teaching and learning
- Advocacy and sensitization ongoing on the use of ICT in teaching and learning with Zambia ICT CFT booklets distributed to four provinces
- National training on the Zambia ICT CFT planned for April 2019
Sustainability

- Design short and long term programs under the CFT and train Zambian TTIs and schools
- Provide support to TTIs and schools in the integration of ICT in teaching and learning
- Expand on the available free and open source tools to use in the pedagogical use of ICT
- Provide LMS hosting services to TTIs and schools
- Establish satellite centres through PRCCs and DRCCs across the country
- Provide e-content creation services
- Provide implementation of ICTs in schools consultancy services
- Pilot cost effective online CPDs for in-service teachers and teacher educators
- Establish WAN between the implementing partners (so far teacher educators’ portal created. Planning to include satellite TTIs and schools)
Thank you

UNESCO/CFIT Zambia