



Teacher Training Report: Digital Content Development for IELM



With Intel
Q4 2013

Teacher Training for Digital Content Development: Q4 2014 Report

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I. Executive Summary of Objectives & Results

The major training objectives were to produce content for IELM from teachers and to get teachers using the new Intel/Claro authoring tool.

1. Committed Target: Training of 50 Teachers ACTUAL: 83 Teachers Trained

Training was conducted in 2 waves. The first was entitled “**Digital Content Development: Why & How.**” Its purpose was to engage schools and teachers who have expressed interest in development of digital content for education and to encourage them to develop and publish on IELM.

The second training was entitled “**Digital Content Development Workshop.**” Its purpose was to go in-depth with a select set of pre-qualified teacher-developers in a hands on studio setting and produce content using the Intel/Claro Authoring Tool.

The first training was a half-day session conducted with teachers in Bomet: 69 teachers attended. The second training was a two-day session conducted in Nairobi with teacher-developers from Nairobi and neighboring counties: 11 teacher-developers attended plus 3 members of the eKitabu team. 80 teachers in total attended the two waves of training.

2. Committed Target: 70 IELM Content Modules ACTUAL: 132 Modules Uploaded

All the teacher-developers were new to the Authoring Tool and to the IELM platform itself. In the two-day hands on workshop the attendees developed 6 courses with 7 modules in total. These 7 modules required more refinement and QA in order to be production ready for IELM. We worked intensively *after* the two-day workshop with one of the trainees to produce and upload 132 modules. The 132 modules were uploaded in addition to the 192 loaded by the eKitabu team for the total of 324.

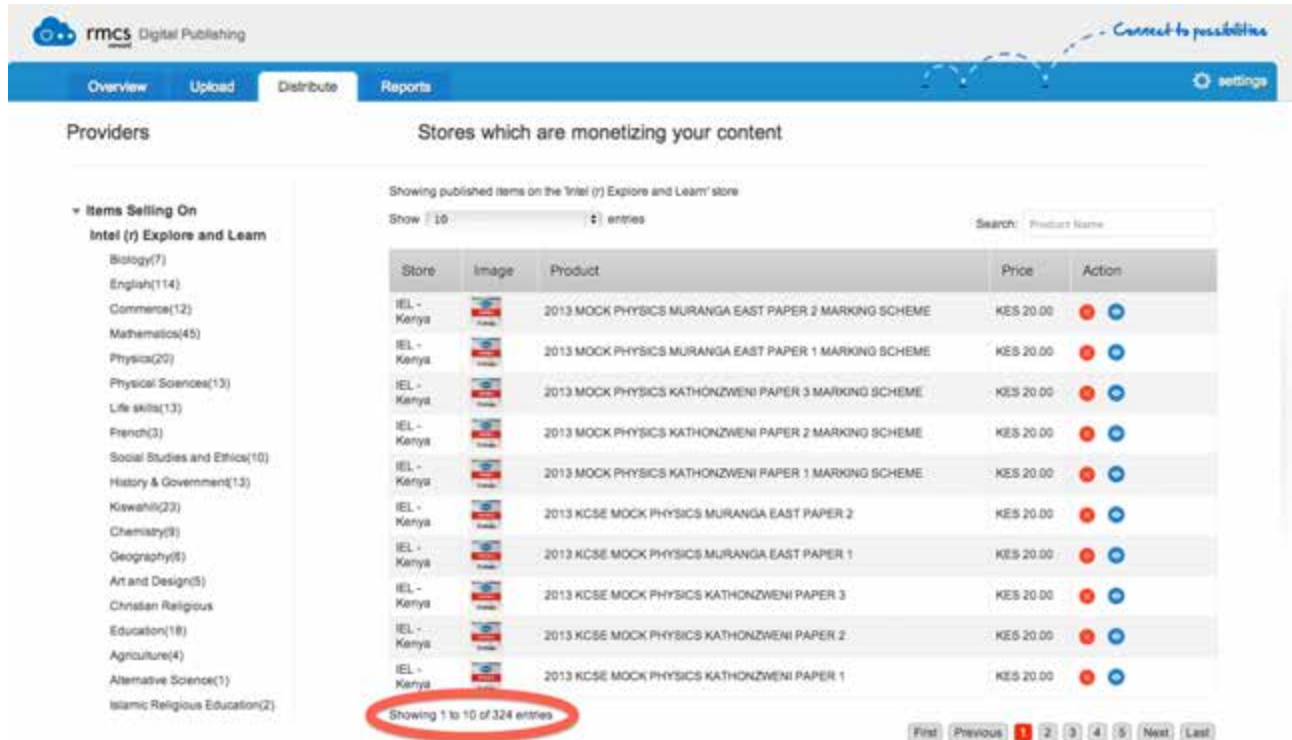
3. Training on Authoring Tool

Training on the platform required careful up front screening and selection of teachers in order to ensure that trainees would be able to understand and make use of it. Although we exposed all 80 teachers in the two waves of training to the platform, it was clear that hands on training at individual workstations was necessary for trainees to build the understanding and practical skills required, especially to begin mastering the Authoring Tool.

All 11 teachers who attended the Digital Content Development Workshop gained familiarity with the platform; 6 of them demonstrated the ability to author content using the Authoring Tool themselves; and 1 of them gained sufficient mastery to produce, in close cooperation with the eKitabu team, the additional 132 modules referred to above.

II. Visuals

A) Screenshot of RCS uploads page with Total Uploads: 324



The screenshot shows the 'rmcs Digital Publishing' interface. The main content area displays a list of published items on the 'Intel (r) Explore and Learn' store. The list includes columns for Store, Image, Product, Price, and Action. The total number of entries is 324, which is circled in red in the original image.































Providers

Stores which are monetizing your content

Showing published items on the 'Intel (r) Explore and Learn' store

Show 10 entries

Search: Product Name

Store	Image	Product	Price	Action
IEL - Kenya		2013 MOCK PHYSICS MURANGA EAST PAPER 2 MARKING SCHEME	KES 20.00	 
IEL - Kenya		2013 MOCK PHYSICS MURANGA EAST PAPER 1 MARKING SCHEME	KES 20.00	 
IEL - Kenya		2013 MOCK PHYSICS KATHONZWENI PAPER 3 MARKING SCHEME	KES 20.00	 
IEL - Kenya		2013 MOCK PHYSICS KATHONZWENI PAPER 2 MARKING SCHEME	KES 20.00	 
IEL - Kenya		2013 MOCK PHYSICS KATHONZWENI PAPER 1 MARKING SCHEME	KES 20.00	 
IEL - Kenya		2013 KCSE MOCK PHYSICS MURANGA EAST PAPER 2	KES 20.00	 
IEL - Kenya		2013 KCSE MOCK PHYSICS MURANGA EAST PAPER 1	KES 20.00	 
IEL - Kenya		2013 KCSE MOCK PHYSICS KATHONZWENI PAPER 3	KES 20.00	 
IEL - Kenya		2013 KCSE MOCK PHYSICS KATHONZWENI PAPER 2	KES 20.00	 
IEL - Kenya		2013 KCSE MOCK PHYSICS KATHONZWENI PAPER 1	KES 20.00	 

Showing 1 to 10 of 324 entries

First Previous 1 2 3 4 5 Next Last

B) eKitabu Content Uploads Final Status Report: 324

Intel Content Uploads from eKitabu				
Category	COMMITTED	TOTAL LOADED	STATUS 18 DEC	VERIFIED
Commercial Edu Books and/or Classics	100	121	LIVE ON IELM	YES
Commercial Edu Modules	40	40	LIVE ON IELM	YES
Revision Materials	120	163	LIVE ON IELM	YES
TOTAL		324		

**C) List of Participants & Schools from Training 1:
Digital Content Development: Why & How, BOMET, 20 November 2013**

No.	TEACHER	SCHOOL
1	David Soi	Kapletundo Central Academy
2	Joshua Korir	Kesaile Academy
3	Rev Franklin Miteu	Yahweh Light Academy
4	Patrick Ngeno	Tamason Academy
5	Christopher Rono	Chepkogen Faromac Shine Ac
6	Philip Kirui	Kabarak Christian Academy
7	Philemon Kiplangat	Shammah Academy
8	Richard Koskei	Tumaini Sachangwan
9	Bett Kiplangat	Melon Academy
10	Enock Ngeno	Junior Ambassadors
11	E Langat	Chelsa Academy
12	Willy Korir	Willen Christian School
13	Geoffrey Langat	Berur Talents Academy
14	Samuel Kirui	Kafok Academy
15	Willy Sang	Pacis Insurance
16	Joseph Tonui	Chepkochun Academy
17	Chepkwony Kenneth	Zasa Academy
18	Willy Langat	Lawi Motoimet Academy
19	Vincent Kesembe	Masare Central
20	Eliud Kirui	HappyDays Academy
21	Samwel Langat	SkyView Academy
22	Alex Kirui	Kaboson RiverView Academy
23	Richard Chepkwony	JohnChes Academy
24	John Muttai	Kapkesosio Vision Academy
25	Joseph Kiprono	St. Joseph's Soy Ed Centre
26	Erick Mutai	Chemaner Visionary Academy
27	Alfonce Tonui	Brightmeng Academy
28	Charles Koskei	Smartlink Academy
29	John Kibet	Holy Family Siongiroi Academy
30	Joseah Kibet	Solik Academy
31	Joseph Ngetich	Jons Academy
32	Joseah Rutoh	Imara Chebunyo Academy
33	Nickson Ngetich	Royal Topmark Academy
34	Boniface Langat	Green Valley Academy
35	Erick Koech	Msingi Mwema Junior Academy
36	Samwel Chepkwony	Borderline Academy
37	Richard Kipkorir	Down Hill Christian School
38	Leonard Ronoh	Cheuch Christian

39	Otieno Ogallo	Kamoloso Mission School
40	Collins Kirui	Mataringe Sunrise Academy
41	Charles Ngeny	Coastbay Academy
42	Thomas Bii	Feima ByGrace Academy
43	Nicholas Kirui	St. Annes Academy
44	Richard Korir	Kriddol Academy
45	Leonard Rutoh	Salaik Academy
46	Vincent Siten	St. Benedicto Billega Academy
47	Festus Yegon	Taabet Kitwek Junior School
48	Jackson Kirui	Masese Academy
49	Jackline Agwanda	Chepkisa Academy
50	Charles Chelule	Kipkebe Precious Academy
51	Julius Kipkorir	Taabet Hillcrest Academy
52	David Kimeto	Davian Academy
53	Richard Maranga	Sema Academy
54	Emily Cheruiyot	Mercy Boarding Pri School
55	Paul Cheruiyot	Mercy Boarding Pri School
56	Paul Korir	Kiamako Christian Academy
57	David Milgo	GeleGele Academy
58	Wesley Ngetich	Judeah Tumuiyot Academy
59	Agnes Mutai	Ernest Sitienei Memorial Ac
60	Bernard Langat	Judeah Tumuiyot Academy
61	David Sigei	Davsi Kiromwok Academy
62	Samwel Kipkoros	Bredals Academy
63	David Malit	Glory Primary Schools
64	Elisha Turgut	Kipkoi Secondary School
65	Albine Rotich	Baraka Emyyot Academy
66	Edward Maritim	Precious Education Centre
67	Barnabus Kirui	Kecheiyat Makimeny Academy
68	John Ronoh	Heroes & Heroines
69	Paul Sang	Gateway & Upway Academy

**D) List of Participants & Schools from Training 2:
Digital Content Development Workshop, 10-11 December 2013**

DIGITAL CONTENT DEVELOPMENT WORKSHOP		
NO.	TRAINEE	SCHOOL
1	ISAAC KINYANJUI	STAREHE
2	ELIZABETH MBULA	KATHONZWENI SECONDARY
3	MARTIN MASIKA	KAHAWA GARISON SECONDARY
4	MISHAEL MOSES NYANGAU	NAIROBI PRIMARY
5	GILBERT BETT	SUNSHINE SECONDARY
6	BERITHA KENG'OLE	MARION
7	MUGWE SAMUEL	MARION
8	SILAS MUTHUI	MOUNTAIN VIEW
9	ESNAS MWENDE	MOUNTAIN VIEW
10	DAVID NYAGA	QUEENEX
11	BRIAN MUNGAI	ELIMU
12	JISAS LEMASAGARAI	INDEPENDENT/INTEL
13	WILL CLURMAN	EKITABU
14	LINDA SIMIYU	EKITABU
15	MICHAEL NG'ENO	EKITABU

E) Training Session Photos





III. Feedback & Observations

What Worked Well:

- Hand-pick participants
- Include developers
- 2-day format for intensive workshop
- Sharing of content and tools
- Teamwork in small groups to experiment with specific interactive tools & techniques
- One workstation per trainee
- Digital badges for participation
- QA of content by group and trainers
- Intel master trainer (Jisas) with documentation available for reference
- Contact for help and follow-up

What Didn't

- Upload issues with the Authoring Tool despite high quality, high bandwidth Internet connectivity in our facilities
- Unclear linkage between content creation and how to output to IELM
- Pressed for time up against holidays

Notes & Observations from Digital Content Development: Why & How

- Only 5 – 10 out of 69 teachers in the training had any computers installed in their schools.
- Only 2 – 3 had Internet connections they could access regularly.

Notes & Observations from Group Presentations of 2nd Day Workshop Content

Team/TITLE	Learners	Interactive Tools/Techniques	Feedback
Writing 1-5: Maths	Elizabeth, Isaac	Title Slide, Lesson Objective Slide, Transitions, Narrative Audio, Sound Effects, Video, Drag & Drop, Exercise, Feedback, Colors, Photos, Actions timed to Video	How to hide an element? Can't work on it offline.
Put Together Numbers: Maths	Lynda, Will, Michael	Audio Narrative, Animation, Test.	Need consistent pedagogical method for Standard 1: if addition, keep addition through the test especially.
Volcano: Geography	Samuel, Beritha, Silas, David	Pulsate animation, Audio, Hotspots with Mouse Rollover Text, Diagrams In Sequence, Fonts, Video, Animated Fly-in Text.	Image map with hotspots for more information would be good to use.
Adjectives & Adverbs: English	Mishael, Mungai	Slide template with image border brought in from the original Powerpoint pasted into each slide; Animated text bullets; Multiple Choice Exercise; photos	Wanted to add in audio but didn't have time. The sequencing of animations was tricky... maybe a bug resulted in one of the bullets being flipped in sequence? Jisas pointed out that you can use the PPT Master Slide feature to carry the background across all slides in the Authoring Tool.
Parts of Big Animals: Science	Martin, Esnas	Sound effects, Video clip, Narrative audio: sequenced by part of image with animated arrows; Exercise with Drag & Drop	Uploads of Audio, Video failed in more than 5 tries: "server error" only once, but long time uploading then it hung; Drag and Drop exercise failed. Is it possible to use the Authoring Tool? Usually use PowerPoint. This is a very good tool as you can do everything in the same place: you can do everything in the same.

IV. Recommendations for Improvement of Future Outcomes

1. Concentrate trainings on workshops with small groups of teacher-developers

- If goal is to empower teacher-developers to create content for IELM and also teach others to create for IELM, then best to build a strong, well-informed corps gradually in batches
- Helpful to pair strong educational content people with strong technical developers
- Close instruction only possible with group of 9 – 15 total per training

2. Plan out a regular schedule of trainings for 2014

- A calendar of training sessions, monthly or bi-monthly, would produce a well-informed corps while leaving necessary time for recruitment, screening, training curriculum development and follow-up with trainees
- Doing 6 – 12 sessions in 2014 could also make room for advanced training

3. Resolve product issues to facilitate content production and uploading to IELM

- Several of the Workshop trainees stated that uploads of video and audio failed for them repeatedly
- Mechanics of outputting content from the Authoring Tool to IELM were not clear and it seemed that product issues in this workflow were still being resolved
- Next steps including commercial terms for those ready to publish