



Integration of ICTs into Teaching/Learning at all levels of the Education System BY

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Social Entrepreneurship: Education, Democracy & Poverty Eradication

GOB

- “I would like to assure you that my government is committed to the development of the national high speed Information and Communication Technology (ICT) infrastructure to enable and facilitate the provision of online services applications and content.”
President M.E.K. Masisi (2019)



INTRODUCTION

- Presentation based on the Social Studies ICT-Pedagogy integration Project
- Collaborative initiative between IT officers and Teachers
- Development of learning content by teachers a necessary condition for success
- 21st Century skills and the digital economy
- 21st Century leadership a necessary condition for the knowledge Economy and the 4th Industrial Revolution

Significance

- This paper speaks to the practical realities of the Education system
- It clearly demonstrates the need for the integration of ICTs in Education for the knowledge economy
- The paper also shows the need for the 21st century skills in the knowledge economy
- It shows the significance of digital tools and coding/programming as conditional to effective participation in the digital economy



OBJECTIVES

- **To give an overview of the social studies ICT-Pedagogy project**
- **To lead a discussion on the critical roll played by digital tools in Ed.& knowledge society**
- **To give some highlights on the knowledge economy**
- **To give some highlights on the significance of the 21st century skills in the knowledge economy**
- **To appreciate the challenges of ICT-PEDAGOGY integration and the knowledge society**

METHODOLOGY

- Participatory Project Method
- Observations, Inspection Reports, Feedback from stakeholders
- System (Edusite) development white paper
- Results Analysis reports
- Literature Review



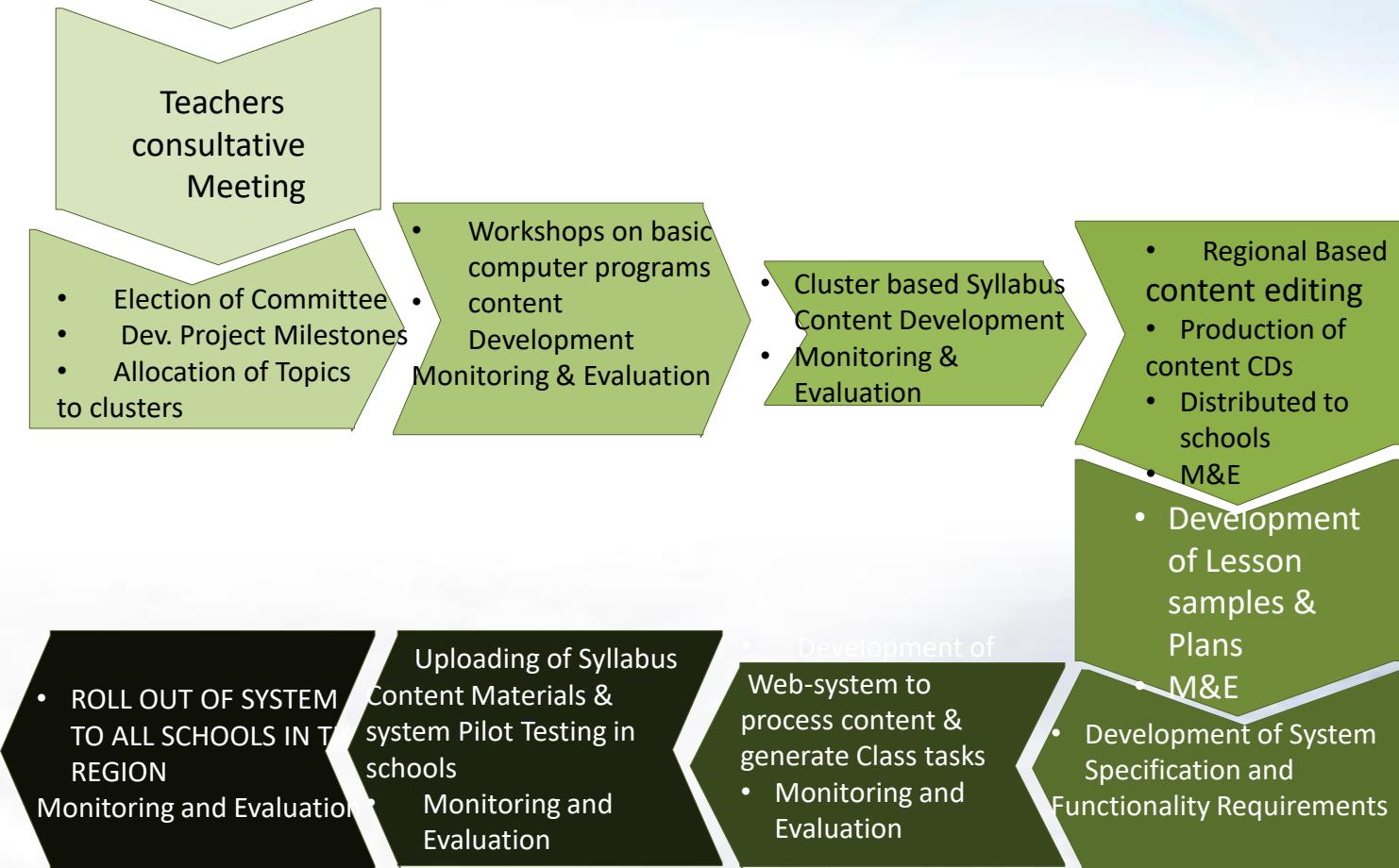
21ST CENTURY SKILLS UNDERPINNING PROJECT OBJECTIVES

- Collaboration-multi-culturalism
- Knowledge construction vs consumption
- Solving real world problems
- Innovation – challenge status quo
- Self direction & self management- EQ
- Skilled communication – effective use of the social media
- Use of ICTs – integration



Project Milestone and Deliverables

Conceptual Framework





EduSite System



What is EduSite?

It is an interactive website to assist learners to study on their own at their own time. It can also be used by teachers to prepare lessons and download/upload lesson notes or sample lesson plans.

Why EduSite?

The system allows students and teachers to:

- Access content online, tests, quizzes and provides timely feedback
- The content is relevant for Botswana JC and BGCSE syllabi

Home Page for EduSite

The screenshot shows a web browser window with the URL `localhost/northeast/Default.html`. The page title is **EduSiteSocial Studies**, with the subtitle **Get educated to make informed decisions**. The navigation menu includes links for Home, e-learning, Login, Downloads Library, About US, Contact US, and Calendar. On the left, there is a sidebar with links to Vision 2016, MDG's, HIV/AIDS in Botswana, Tourists Attractions, and Ministry of Education. Below the sidebar is the Botswana tourism logo. The main content area features a blurred image of people and the text **EDUCATION AS AN IMPORTANT ACTIVITY IN HUMAN DEVELOPMENT**. A watermark for **WOWSlider.com** is visible in the bottom right corner of the main image.

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Students Menu Page

The screenshot shows a web browser window with the following details:

- Title Bar:** Shows the title "EduSite Social Studies" and the URL "alhost/northeast/student/studentMenu.php".
- Header:** The page has a green header bar with the text "EduSite Social Studies" and "Get educated to make informed decisions".
- Navigation Bar:** A dark grey navigation bar at the top with buttons for "Home", "Form 1", "Form 2", "Form 3", "Form 4", "Form 5", and "Calendar".
- Content Area:** On the left, there is a list of links:
 - Multiple Choice Practice
 - Past Examination Papers
 - Quiz/Questions
 - Revision Questions
 - Interactive Site
 - BEC website
 - Notifications (1)
 - Google Search
 - Logout
- Image:** A photograph of a classroom full of students in blue uniforms sitting at their desks, looking down at their papers.

<https://docs.google.com>

Teachers Menu Page

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localhost/northeast/teacher/temp.p localhost

eBay Play Free Games Suggested Sites Web Slice Gallery

EduSite Social Studies

Get educated to make informed decisions

Home Form 1 ? Form 2 ? Form 3 ? Form 4 ? Form 5 ? Interactive Site

Hello :Isaiah Baruti

- Discussion Forum
- Lesson Plan
- Uploaded Materials
- Calendar of Events
- Notifications (2)
- BEC website

Google Search

Change Password





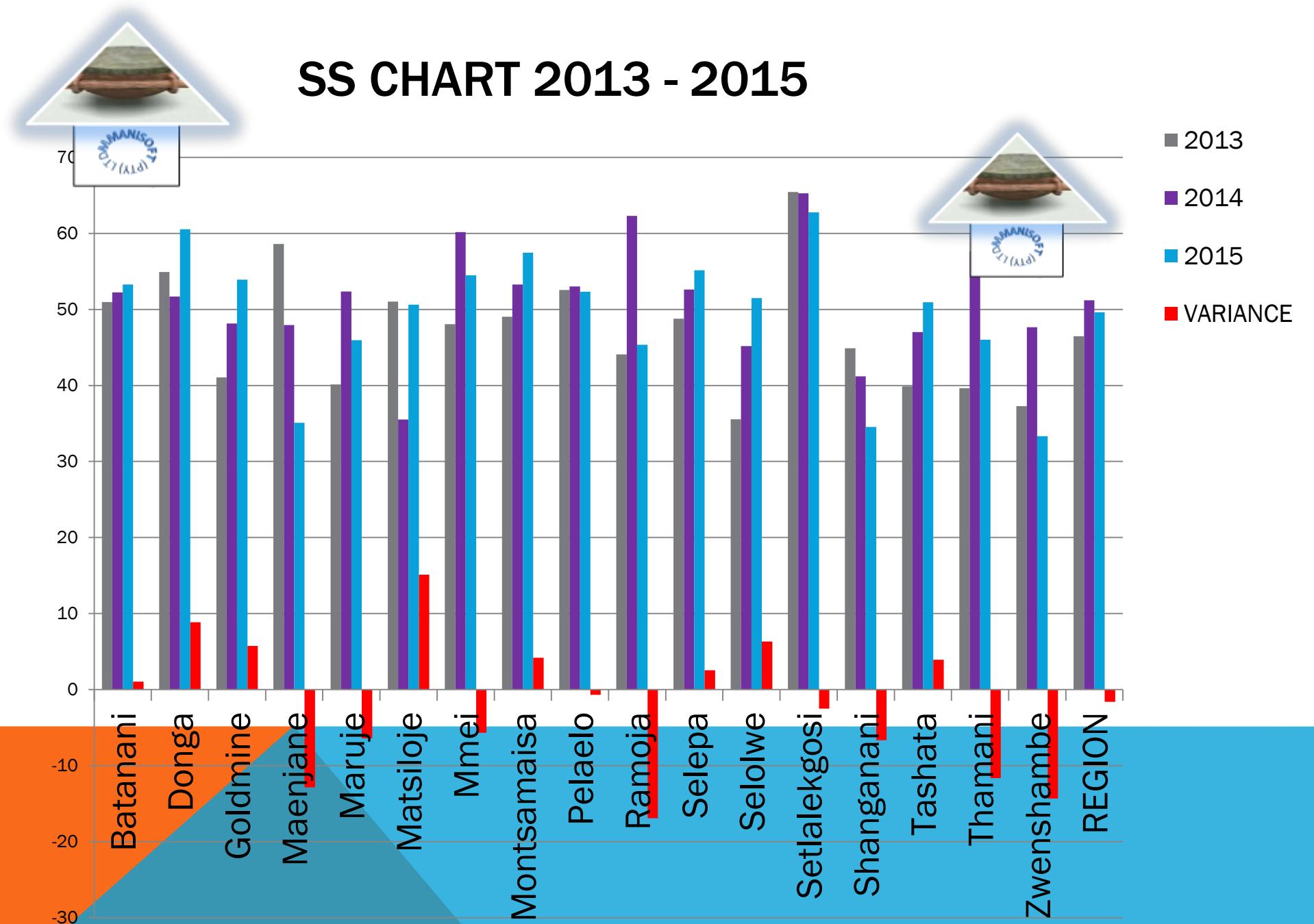
SOCIAL STUDIES ANALYSIS SS RESULTS JCE 2010 -2015



SOCIAL STUDIES RESULTS ANALYSIS 2013-2015

Schools	2013	2014	2015	2014-2015
Batanani	50,98	52,24	53,29	1,05
Donga	54,91	51,7	60,54	8,84
Goldmine	41,05	48,16	53,91	5,75
Maenjane	58,62	47,95	35,08	-12,87
Maruje	40,14	52,35	45,96	-6,39
Matsiloje	51,02	35,52	50,64	15,12
Mmei	48,07	60,18	54,5	-5,68
Montsamaisa	49,05	53,28	57,45	4,17
Pelaelo	52,56	53,01	52,33	-0,68
Ramoja	44,09	62,29	45,36	-16,93
Selepa	48,79	52,61	55,16	2,55
Selolwe	35,54	45,18	51,49	6,31
Setlalekgosi	65,45	65,27	62,77	-2,5
Shanganani	44,89	41,2	34,53	-6,67
Tashata	39,88	47,03	50,95	3,92
Thamani	39,63	57,66	46,01	-11,65
Zwenshambe	37,27	47,67	33,34	-14,33
REGION	46,47	51,21	49,61	-1,60

SS CHART 2013 - 2015

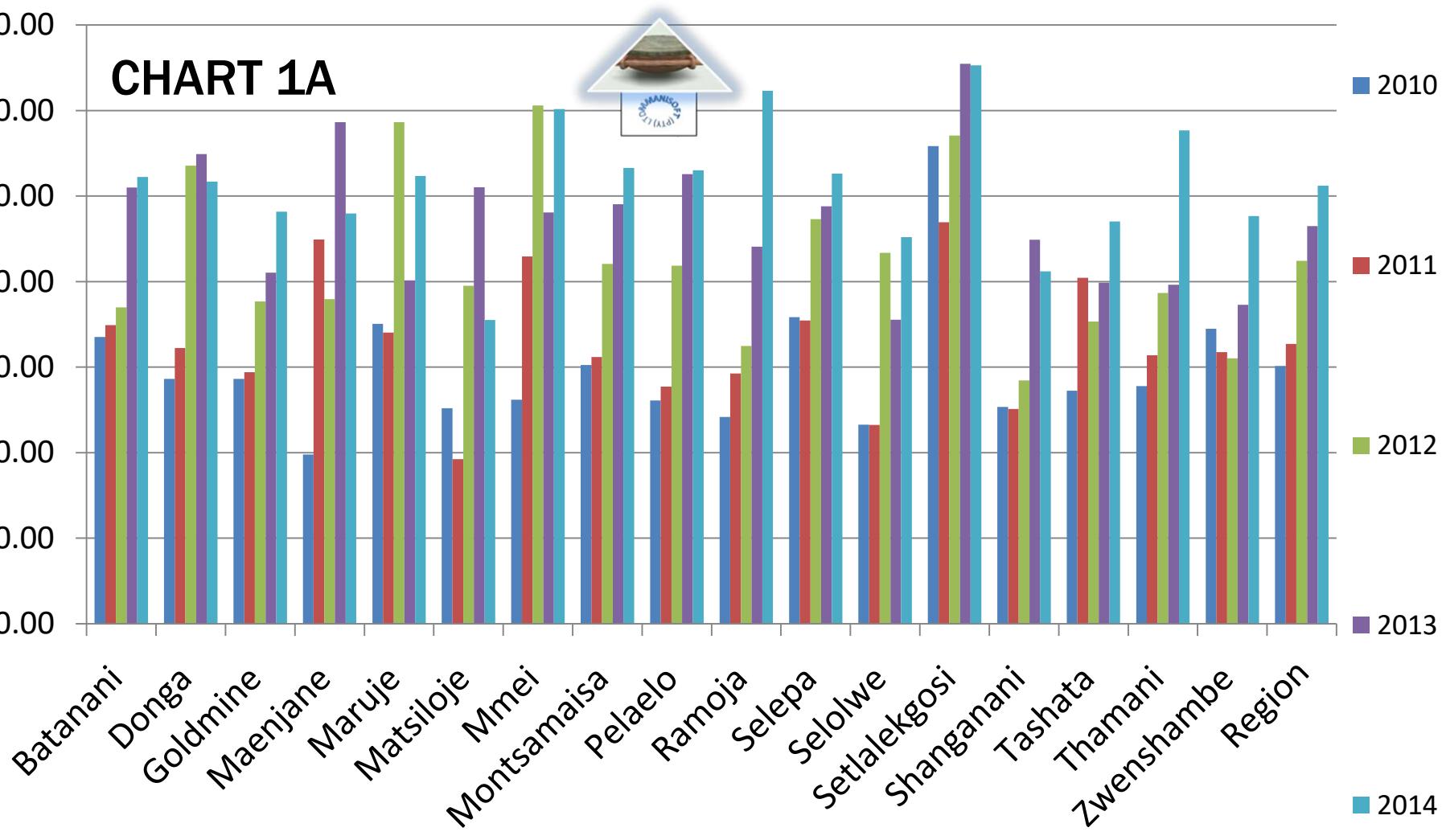


SOCIAL STUDIES PERFORMANCE TRENDS

Social Studies Performance Trend 2010-2014

Schools	Years ABC Percentage					Difference
	2010	2011	2012	2013	2014	2013-2014
Batanani	33,53	34,91	37,0	50,98	52,24	1,26
Donga	28,63	32,22	53,6	54,91	51,7	-3,21
Goldmine	28,63	29,41	37,7	41,05	48,16	7,11
Maenjane	19,79	44,93	37,9	58,62	47,95	-10,67
Maruje	35,06	34,04	58,6	40,14	52,35	12,21
Matsiloje	25,19	19,23	39,5	51,02	35,52	-15,5
Mmei	26,19	42,93	60,6	48,07	60,18	12,11
Montsamaisa	30,25	31,18	42,1	49,05	53,28	4,23
Pelaelo	26,09	27,72	41,9	52,56	53,01	0,45
Ramoja	24,17	29,25	32,5	44,09	62,29	18,2
Selepa	35,83	35,45	47,3	48,79	52,61	3,82
Selolwe	23,26	23,24	43,4	35,54	45,18	9,64
Setlalekgosi	55,83	46,93	57,1	65,45	65,27	-0,18
Shanganani	25,33	25,12	28,5	44,89	41,2	-3,69
Tashata	27,23	40,45	35,3	39,88	47,03	7,15
Thamani	27,78	31,40	38,7	39,63	57,66	18,03
Zwenshambe	34,48	31,76	31,0	37,27	47,67	10,4
Region	30,12	32,71	42,4	46,47	51,21	4,74

CHART 1A



BY REGION : 2014

Region	C	%	B	%	A	%	ABC	Total	%ABC
NorthEast	1042	29,33	570	16,04	53	1,49	1665	3553	46,86
Central	3545	25,01	1522	10,74	123	0,8	5190	14177	36,61
Chobe	106	24,65	52	12,09	4	0,93	162	430	37,67
Gantsi	133	21,45	48	7,74	3	0,4	184	620	29,68
Kgalagadi	147	13,47	57	5,22	5	0,46	209	1091	19,16
Kgatleng	458	25,39	184	10,2	15	0,83	657	1804	36,42
SouthEast	1490	30,09	819	16,54	80	1,6	2389	4951	48,25
Kweneng	1111	21,84	398	7,82	26	0,51	1535	5088	30,17
Northwest	689	18,81	217	5,93	8	0,22	914	3662	24,96
Southern	1057	20,88	446	8,81	27	0,53	1530	5063	30,22
National	9778	23,092	4313	10,113	344	0,78	14435	40439	34

CONCLUSION: CHALLENGES & RECOMMENDATIONS

- **Main Challenges:**
 - ❖ Limited Digital Literacy
 - ❖ Limited connectivity
 - ❖ Internet costs are prohibitive
 - ❖ No Coding/Programing Language in schools
 - ❖ digital divide between urban and rural
 - ❖ Opportunities presented by the digital Economy may present serious challenges to low skilled workers

RECOMMENDATIONS

- Introduction of coding at all levels of the Education system
- Digital Literacy training for all development intervention
- Connectivity should be equitable distributed
- Teacher participation in developing learning digital content
- 21st century leadership skills development for all



Director NE Region 2014

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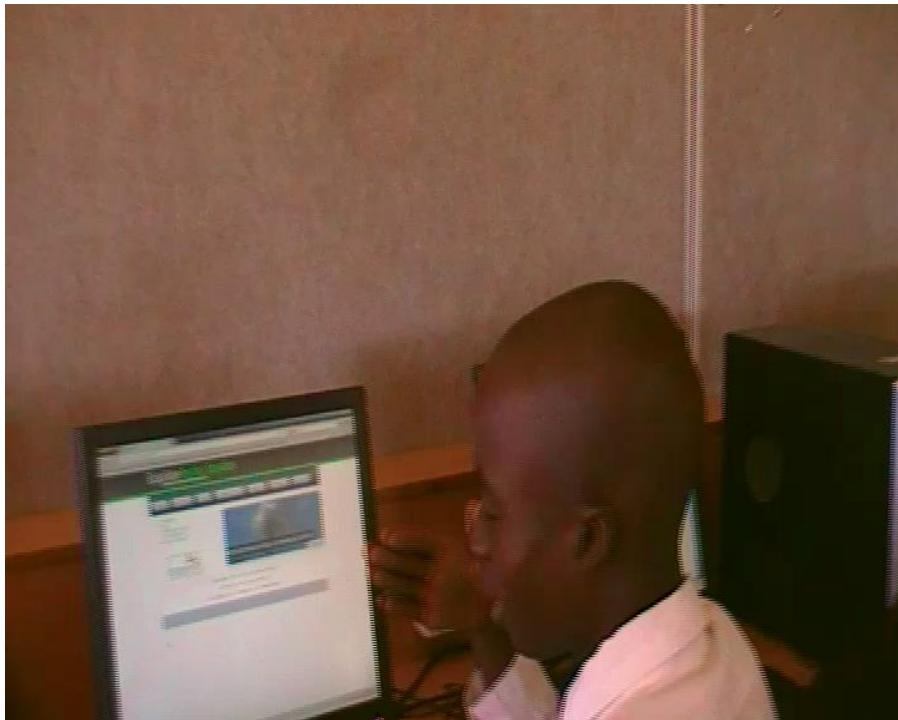




From the Stakeholders



Masunga Senior



PTA Ambrella Chairperson





TABOKA
REALEBOGA
THANK YOU
DANKIE

