

# Some Effects of English Loanword Adaptation into SiLozi

Georgina N. Sitali-Mubanga<sup>1,\*</sup>

<sup>1</sup>Department of Languages, School of Humanities and Social Sciences, Kwame Nkrumah University, P.O. Box 80404, Kabwe, Zambia

\*Corresponding author: Department of Languages, School of Humanities and Social Sciences, Kwame Nkrumah University, P.O. Box 80404, Kabwe, Zambia. E-mail: nandigina@yahoo.co.uk

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#### **Abstract**

This study under linguistics, sought to examine the Morphophonological effects of the English loanword adaptation into SiLozi a lingua franca of the Western province of Zambia which is a media of instruction in grades one to three for systematisation. Like many African languages, SiLozi does not have the potential to give equivalents to words of English origin unless through borrowing. Schools being the pivot of development, there was an inconsistency in the same education system concerning the adaptation of English loanwords. The study was carried out in selected primary schools of Mongu district in Zambia. The data were collected with the use of voice recorders during on-going lessons for grades one to three in Creative and Technology Studies, Mathematics, Science, Social Studies and in SiLozi subjects in order to capture all English loanwords used in the SiLozi medium of instruction. The main results revealed that feature changing, deletion, insertion and metathesis phonological rules were applied on the English terms in order to nativise them.

**Keywords:** Adaptation, Generalisation, Loanword, Morphophonology



# 1. Introduction

The objectives of the study centred on identifying the morphophonological effects of English loanword adaptation into SiLozi. Two of the four objectives of the study, have been addressed in this article. Data were collected from already existing loanwords in grades one to three textbooks, unstructured interviews and from recording on-going lessons in Creative and Technology Studies, Mathematics, Science, Social Studies, and from SiLozi. After analysis, data exhibited some morphophonological changes.

#### 1.1 Background to the Study

Borrowing due to lack of equivalents of words from other languages can develop the vocabulary of L1. Tarev (2012) says the lack is prompted by absence of mother tongue potential to create or derive words from existing terms in the L1. Additionally, Kashoki (1999: 1) referring to Zambian languages says they "are not sufficiently equipped, whether in the spoken or written form to meet the requirements of an ever changing modern complex society, a society at the same time constantly interacting with a larger international community especially regards those aspects of life which are imported from across national boundaries." The inconsistence is displayed by Mukuni (1991) in nativising some English terms in SiLozi sentences while others are not nativised as in: Flats (apartments) *Ma*-flat, President remained the same, Bible was *Bibele*, *m*ember was *memba*, Post Office was *Positi Ofisi*, hotel as *Hotela*, buses as *Limbasi* and cap (for covering the head) as *Kepesi*. We can see the unpredictability in the above examples.

#### 1.2 Statement of the Problem

The lack of guidelines in schools as to how the loanwords should be adapted is a challenge. If the same education system is using the English borrowed terms variedly, the result is disarray. The morphophonological investigations need to be done by following the SiLozi phonotactics (Note 1) as these loanwords are core to teaching and learning.

# 1.3 Objectives of the Study

The study was guided by the following objectives:

The main objective of the study was to identify the morphophonological effects of English loanword adaptation into SiLozi.

# 1.3.1 Specific Objectives

The study was guided by the following specific objectives:

- i) To identify the phonological effects of SiLozi on English loanwords.
- ii) To investigate factors which influence the morphology of the English loanwords adapted in SiLozi and the extent of the influence.

# 1.4 Research Questions

The study was guided by the following research questions:



- i) What are the phonological effects of SiLozi on English loanwords?
- ii) Which factors influence the morphology of the English loanwords in SiLozi?

#### 2. Literature Review and Theoretical Framework

The following related literature gave me an informed stand.

# 2.1 Term Development in Bantu Languages

Neundorf (1982) and Kostas et al (2006) note the importance of how new words are vital to people who are developing new educational material in a language and say that proposed terms should follow familiar and established patterns of meaning in use. Richard et al (2009) in the study of Geoscience Terminology Development collected science language terms in order to provide geologic data to particular users by using constant expressive terminology. Onyango (2005) scrutinised emerging issues to boost Kiswahili as a medium of instruction in secondary schools. Onyango (2005:222) quotes Abdulaziz (1988) saying that "the major goal of developing terminology should place a premium on schools; they are the most important agent for stabilising language usage". Meaning, schools are the best places to stabilise language hence the use of schools in this study.

# 2.2 Phonological Generalisations of the Syllable Structure

The syllable structure was an important element of the overviews that were made during this study. Kager (2004) refers to the syllable as a major ingredient of phonological generalisations, crucial in defining phonotactic patterns using the OT view. A syllable is "a unit of pronunciation typically larger than a single sound and smaller than a word" (Crystal, 2008:467). The units of pronunciation in SiLozi are; V (vowel), CV (consonant vowel), CCV (consonant, consonant, and vowel) and CCGV (consonant, consonant, glide, and vowel) as below in: 'coin' *koini*, 'computer' *kompyuta* and 'desk' *ndesiki*.

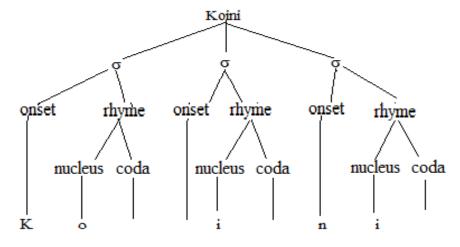


Figure 1. CV, V and CV Syllable Structure



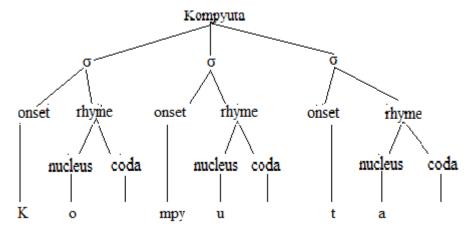


Figure 2. CV, CCGV and CV Syllable Structures

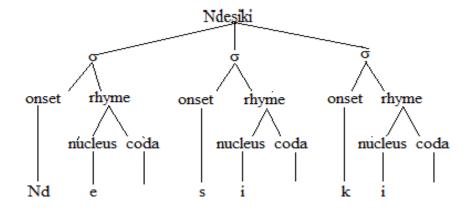


Figure 3. CCV, CV and CV Syllable Structures

Roach (1992) says in English, one could decide whether a particular sound was a vowel or a consonant on phonetic or on phonological grounds which is different in SiLozi as syllables are not decided upon but are in categories. McCarthy (2008) and Dresher (2010) examined the importance of the syllable structure and gave examples accounting for universal preference for syllables to have onsets and to avoid codas citing CV as the least marked syllable type. Concerning phonetics and general linguistics Port (2005) mentions of how the International Phonetic Association has tried to be representative but claims no space for fixed phonetic distinctions as in words whose vowel sounds might be the same but written differently. In SiLozi, all sounds and their forms are regular and do not carry more than one speech sound but  $\lceil b \rceil$  and  $\lceil \beta \rceil$  which have the same phoneme  $\lceil b \rceil$ .

# 2.3 Morphophonological Generalisations and Integration of Loanwords

Other scholars studied optimal syllable structures to come up with morphophonological generalisations basing on syllables with fewer violations as in SiLozi. Knight (2013) and Poplack (1988) say L2 words are naturalised into L1 by replacing the sounds in L2 which lack in L1 with L1 nearest similar sound and how they conform to the pattern of L1. Matiki



(2016: 79) in reference to Chichewa (Malawian and Zambian language) concerning borrowing said "the study of the way loanwords are assigned to various semantic fields has obvious advantages in providing insights into the dynamics of borrowing in particular and language change in general". Littlemore et al., (2010) quote Deconinck et al., (2010) saying that learners associate L2 vocabulary with familiar words from L1 and use L1 to retrieve the L2 word from memory that is, there should be some phonological and graphemic resemblance to the target word in order to do that. Similarly, Ramani et al (2009) in a dual medium Bachelor of Arts degree in SeSotho where SeSotho and English were used in separate programmes citing English loans adapted in SeSotho emphasised the importance of borrowing in learning and teaching for L1 to meet its educational demands. Poplack (1988) as cited in Hasselmo (1969), Mackey (1970), and Poplack and Sankoff (1984) say for borrowed materials to be fully integrated into the recipient language, they must be adapted into the existing patterns of the L1 which this study did.

#### 2.3.1 Loanwords and Integration of Phonological Constituents

Nong (2012) investigated loanwords in Northern Sotho by using 100 randomly selected native speakers of Northern Sotho from different places of residence, age, gender and background. The results showed that although most of the participants said they preferred using indigenous words in comparison to loanwords, they still used many English loans.

# 2.3.2 Research Gap and the Way Forward

Fortune (2001) studied CCV syllable types with the tone and length of the five vowels found in SiLozi without talking about loanwords. Further, Coetsem (1988) said language had a constitutional property of stability where certain components or domains were more stable and resistant to change and such a domain was phonology and truly SiLozi exhibited such. Ager (2001) and Rassool (2009) investigated on motives for action on language and discussed strategies, plans and policies of individuals, communities and states. The latter wrote about the importance of education policy concerning the development of how language in education policy impacted on societal developments. Hopson et al., (2005) say the mother tongue as the language of instruction affirms developmental capacity.

Aquaviva (2008), Haspelmath (2009) and Tarev (2012) studied lexical borrowing in different languages showing how loanwords could act as outlets for the transmission and successive integration of new phonemes or inflectional and derivational morphemes into the recipient language forming new words. Tarev (2012) said the evaluation benchmark of a foreign language term is viewed not so much in its origin but how it meets the requirements of the L1 system.

#### 2.4 Theoretical Framework

Anfara and Mertz (2015) argue that a theoretical framework is one that sees and makes sense of what to do in the plan and manner of the study. Two linguistic theories; Optimality and Assimilation were used to guide the researcher frame the methodology and the findings.



# 2.4.1 Optimality Theory

With the use of OT and its view of the syllable structure, the SiLozi phonotactics was used to bring out the optimal patterns of data that were the basis of the morphophonological effects of the English Loanword adaptation into SiLozi. Brasington (2003) explains how the OT model operates in selecting the optimal candidate from the total set of candidates in practice by looking at a familiar collection of the English form of singular and plural forms. Kertesz (2006: 4) said, "In OT universal phonological constraints can be ranked in a language specific fashion, and those that are high-ranked enough will filter out borrowings that cannot ever enter the language (or can do so only after some modification)."

#### 2.4.2 Assimilation Theory

Cherry (2018) says the Assimilation theory as first proposed by Piaget concerned the incorporation of new information experiences into already existing ideas and also says Assimilation theory is subjective as it tends to modify experience and fit it in pre-existing knowledge beliefs. In phonology however, Assimilation is a theory by which a sound becomes more like the nearby sound within the word or between words. Assimilation may be regressive or anticipatory or it may be progressive that is; a sound may assimilate a following or a preceding sound respectively. It can be diachronic in the sense that it is dealing with historical or synchronic when it is an active process in a language at a given point in time. I have used Assimilation theory to refer to both diachronic and synchronic processes. The diachronic process refers to the borrowing which used to take place back in the day concerning sounds which were said not to be available in SiLozi such as [b], [d], [g] and [dʒ] which could only be borrowed prior to nasalisation and the synchronic process refers to the current situation where the younger generation is able to adapt the loanwords which have the aforesaid sounds without prenasalising them.

Jurgec (2011) looks at assimilation as an alteration involving two segments which are the target and trigger where the target substitutes the presence of the trigger causing the target to get a property of the trigger. The author gives an example of voicing assimilation for example 'eggs' triggering to 'egz'. This assimilation has been used where the preceding sound of the English plural or similar morpheme such as the word 'beans' or 'bones' is voiced triggering the loanword to change the /s/ to /z/ becoming binizi/mabonizi.

# 3. Information about SiLozi Relevant to the Study

SiLozi a Bantu language of the Niger Congo language family spoken in Barotseland, parts of Angola, Botswana and Zimbabwe and a lingua franca of the Western province (Barotseland) of Zambia and of Namibia's Zambezi region. O'Sullivan (1993) calls it a dominant language group of Southern Africa and a blend of SiLuyana and SiKololo. It came into existence around the 19<sup>th</sup> century as a result of the Mfecane migration by King Shaka. Abdullah (2007) says Sebitwane; a Mosotho warrior of the Kololo group conquered the Aluyi (Malozi now) and created his Kololo nation, a composite of Sotho and Luyi state which is known as Barotseland. SiLozi has these five short vowels: /a/, /e/, /i/, /o/ and /o/ which are duplicated to



indicate length but belong to different syllables. However, different vowels follow each other as below:

a) *Baalafi* 'nurses/doctors' or 'those who cure' has Ba-a-la-fi (five syllables) as opposed to *balafi* 'miners' ba-la-fi (three syllables).

Examples of different vowels which follow each other are as follows:

b) <u>Laela</u> 'command, <u>kaizeli</u> 'brother/sister', or <u>mao</u>nda 'dowry' and others.

SiLozi has two glides which are /y/ [j] and /w/ [u] which can precede any vowel but glide /w/ can never precede vowel /u/ because it is not permissible in SiLozi. Vowel /u/ glides to /w/ before vowels /a/, /e/, /i/ and /o/ as in the following examples:

c) Mu-ana 'child' to mwana, mu-eñi 'visitor' to mweñi and others.

Vowel /i/ glides to /y/ when followed by /a/, /e/, /o/ or /u/ as below:

d) Libi-ana to libyana 'clothes', liebela to lyebela 'beautiful' and others,

Coalescent takes place in instances such as in the combination of /o/ preceded by /u/ as:

- e) *Bu-oko* becomes *booko* 'brain', *lu-ongolo* becoming *loongolo* 'chameleon, *mu-ongola* becomes *moongola* 'spine' or /a/ and /i/ becoming /ee/ as in;
- f) Ma-ito becomes meeto 'eyes' and ma-ino becomes meeno 'teeth'.
- 3.1 SiLozi Phoneme and Phonetic Inventories

Below are the SiLozi phonetic and phonemic inventories.

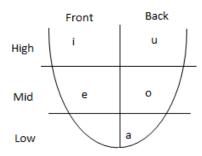


Figure 4. SiLozi Vowel Phonetic and Phonemic Inventory Chart

The inventory in Figure 4 shows single vowels but double vowels are said at the same place and in the same manner.



Manner	Bila	ibial		bio- ıtal	De	ental	Alve	eolar	Po Alv	st eolar	Pal	atal	V	elar	Glo	ottal
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Stop/Plosive	p	<b>b</b> *			Θ*		t	d*					k	g*		
Fricative	β		f	v*			s	z								h
Affricate									g	d3*						
Nasal		m						n				ŋ				
Lateral								1								
Glide		w										j				

Figure 5. SiLozi Consonant Phonetic Inventory

Manner ==== Place	Bila	ıbial		bio- ital	De	ental	Alve	eolar	Po Alv	st eolar	Pal	atal	V	elar	Glo	ttal
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Stop/Plosive	р	ь*			th*		t	d*					k	g*		
Fricative	ь		f	v*			s	z								h
Affricate									с	d3*						
Nasal		m						n				ñ				
Lateral								1								
Glide		w										y				

Figure 6. SiLozi Consonant Phonemic Chart

The consonants in the phonemic chart can be followed by any one of the glides in the onset position but the glides cannot precede any of the above even though /y/ can precede /w/ not vice versa. Most phonemes above are preceded by a nasal or they precede a glide in the onset position as in [nd], [ndw], [mb], mbw], [mby], [ng], [ngw] and many others.

# 3.2 Morphophonological Effects

[b] /b/ as in: [b]  $\underline{b}ebi$  'baby', [ $\beta$ ]  $\underline{b}uka$  'book', [ $\beta$ w]  $\underline{b}w$ anda 'cotton, [ $\beta$ y]  $\underline{Mu}\underline{b}y$ ana and [mb]  $\underline{m}\underline{b}$ alumbu 'bulb'.

[tf] /c/ as in: [tf] ca 'eat, [ntf] cinca 'change', [ntfw] ncwa 'disease'

[d] /d/ as in: [d] golide 'gold', [nd] Ndesiki, [ndw] ndwa 'war.

[f] /f/ as in: [f] feela 'only', [fw] lifwekelo 'harbour'

[g] /g/ as in: [g] *gaadeni* 'garden', [ng] *ngilini* 'green', [ngw] *si<u>ngw</u>enjule* 'slasher'.



[h] /h/ as in: [h] helikopita 'helicopter', [hw] sihwana 'calabash'.

[dʒ] /j/ as in: [ndʒ] /nj/  $\underline{nja}$  'dog' or [dʒ]/ [ndʒ]  $\underline{Joni/Ni}$ oni 'John'.

[k] /k/ as in: [k] kala 'colour', [nk] nkambe 'boma', [nkw] nkwana 'clay pot'.

[1] /l/ as in: [1] gilaundi 'ground', [lw] lwala 'carry', [ly] lyano 'not true'.

[m] /m/ as in: [m] <u>Maaci</u> 'March', [mw] <u>mwenyi</u> 'visitor', [my] <u>myaha</u> 'years'.

[n] /n/ as in: [n] <u>na</u> 'I', [nw] <u>nwa</u> 'drink', [ny] <u>ny</u>unywani 'bird', [nyw] nyu<u>nyw</u>ani 'bird'.

[p] as in: [p] <u>poleji</u> 'porridge', [pw] <u>pwaca</u> 'break', [py] as in <u>pyololo</u> 'whistle', [mpw] <u>mpwe</u> 'onomatopeia', [mpy] <u>mpye</u> 'army'.

[s]/s/ as in: [s]/s/ silei 'sledge', [sw] switi 'sweet', [nsw] nswe 'sweet sorghum'

[t] /t/ as in: [t] tente 'tent', [nt] tente 'tent', [ntw] Ntwala 'name of a person'.

[j] /y/ as in: [j] yelo 'yellow', [yw] liywalii 'bad day'.

[z] /z/ as in: [z] piza 'pot', [zw] zwa 'get out', [nz] nzi 'fly', [nzw] manzwi 'words'.

# 4. Research Methodology

The qualitative method with the procedure outlined below was used to get the desired results. Data in form of English loanwords were collected from; recorded lessons, learners' textbooks and from unstructured interviews therefore, the study concerned the pedagogy around English loanwords in SiLozi.

#### 4.1 Population

The population on which the results of this study are generalised is grades one to three in the Western province of Zambia.

#### 4.1.1 Population Sample

The population sample comprised teachers and learners from three urban and three rural schools (grade one to three) from Mongu district. Eighteen classes were recorded and in all they added to ninety lessons which were five lessons per class. The representatives of the entire population were teachers and learners from grade one to three in Creative and Technology Studies, Mathematics, Science, Social Studies and in SiLozi. See table below.

Table 1. The Number of Schools, Classes and Lessons Observed

No. of schools	No. of classes	No. of lessons			
6	18	90			



#### 4.2 The Data

The data used were from grades one to three recorded lessons, unstructured interviews and from learners' textbooks collected with the help of research assistants.

#### 4.2.1 Data Collection Methods

Voice recorders were used to record on-going lessons, we had unstructured interviews and wrote down all loanwords from textbooks for the same grades using pens and notebooks.

#### 4.3 Ethical Concerns

I attained research clearance from the University of Dar es Salaam and went on to get informed consent from the participants themselves.

# 4.4 Data Analysis

After data collection, data were transcribed then divided into syllables arranged according to the number of syllables they contained. The SiLozi nominal class system and the syllable structure were used to observe how the loanwords abided with the nominal classes and the latter determined the sound and structure of an English loanword into SiLozi. The Optimality and Assimilation theories were applied to express interaction between phonology and morphology and the assimilation of features to other features.

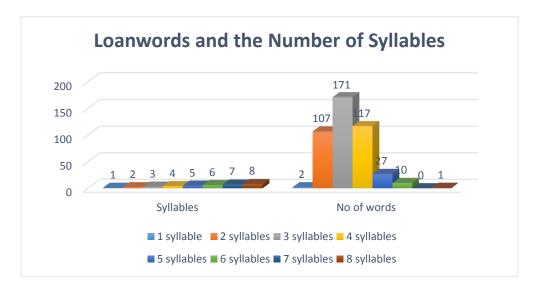
# 4.4.1 Some of the English Loanwords Collected

S/N	Loanword	English Word
1.	Cekesi	Sickle
2.	Cincana	Exchange
3.	Dokota	Doctor
4.	Egepita	Egypt
5.	Focolo (fosholo)	Shovel
6.	Genda	Gender
7.	Giledi	Grade
8.	Jesu	Jesus
9.	Kabati (Kabodi)	Cupboard
10.	Kabici (Kabeji)	Cabbage
11.	Kukamuna	To comb derived from the noun 'comb'
12.	Makaadi	Cards
13.	Makeki	Cakes
14.	Mushe (Mozesi)	Moses
15.	Neesi	Nurse
16.	Poso	Post Office
17.	Zigizagi	Zigzag



Concerning the terms under numbers 1 and 5, we can see that there is metathesis. I can comfortably say that all the [r] have changed to [l]. Fricativisation has occurred in 5, 9, 10 and in 14. In 9 *Kabati (Kabodi)* 'Cupboard', according to the written loanword, [b] has been softened to [ $\beta$ ] and [d] has also been softened to [t] but the loanword gotten from the oral lessons does not change the pronunciation even though the structure or rather the spelling has changed. As in Number 10 *Kabici (Kabeji)* 'Cabbage', the textbook loanword has softened [b] to [ $\beta$ ] and [d $\beta$ ] to [ $\beta$ ] but as in the learners' type of borrowing, it has not changed the sounds [b] and [d $\beta$ ]. In Number 14 *Mushe (Mozesi)* 'Moses', [z] has been softened to a voiceless alveolar stop [s] and just like in other loanwords where phonemes or sounds are either deleted or inserted, there has been an insertion of [h] between /s/ and /e/ and the final /s/ has been deleted.

There is also an element of blending and clipping in some of the loanwords such as in number 8 and 16 *Jesu* 'Jesus' and *Poso* 'Post Office'. As for verbs which have been borrowed from English, some of them have been formed from other verbs and some from nouns. Let us take for example number 11 which is a verb *Kukamuna* 'to comb' is derived from the term *kama* 'comb' (noun). This data is also telling us that learners did not prenasalise [b], [d], [g] and [j] as we can see even from textbook loans in numbers 3, 4, 6, 7, 8, 10, 12 and 17 that not all [b], [d], [g] and [j] sounds were prenasalised meaning that the prenasalisation of the aforementioned sounds are not only rare in the current generation's pronunciation but in the textbooks too. We can also note that in number 12 *Makaadi* 'Cards' and 15 *Neesi* 'Nurse, the vowels preceding [r] have been lengthened and [r] has been deleted.



**Graph 1.** Loanwords and the Number of Syllables

The number of loanwords collected and the syllables they contained is reflected in Graph 1. One-syllable loans were only 'no' and 'go'. No adjustment was done to them.



# 4.4.2 Interpretation of Patterns Emanating from the Data

Conferring to the data presented above, some sounds and phonemes have changed, incorporated, deleted or reshuffled in order for the English loanwords to fit into the SiLozi phonology. Below is an amplification of how some units were converted in the loanwords.

- a) /a/ can either be converted to /e/ or /o/ in the word medially as below:
  - i) /a/ to /e/ Baby bebi, bare beya, change cenji.
  - ii) /al/ [ɔ:] converted to /o/ [ɔ]. The sound [ɔ:] has been shortened in SiLozi as in: Ball Bola/Mbola, Chalk choko/choki

We conclude that when /a/ precedes /l/ the sound made is /o/ [ɔ].

- b) /au/ [5:] is converted to /o/ [5] in SiLozi as in: August Ogasiti, naught noto
- c) /b/ [b] converted to /mb/ [mb] or /b/ [b]. The voiced bilabial plosive [b] takes the form of /b/ or /mb/ in writing and it is pronounced as in the words below: <u>Ball bola/mbola</u> and <u>bandi/mbandi</u>. [b] and [mb] can occur in the same environment.
- d) As for /b/ converting to /p/, /p/ [p] can occur in the same environment as [b] or [mb] as in the word 'box' is adapted as *pongisi*, *mbokisi* or *bokisi*.
- e)  $\frac{c}{k}$  converted to  $\frac{k}{k}$  or  $\frac{c}{s}$  as in:

Scotch <u>cart sikocikala</u>, <u>class kilasi</u>, Rebbe<u>c</u>ca *Labeka*. In 'Rebecca', one /c/ is deleted because it is not permissible in SiLozi.

- f) /c/[s] converted to /s/[s]: as in central senturalu, office ofisi or police polisi
- g) /ch/[ff] converted to /c/[ff], /j/[dʒ] and to /k/[k] as in but<u>ch</u>ery [bʊfʃəri] *Buca* [bufʃʌ], Chart [fʃɑ:t] Cati [fʃʌti], John Joni or March Maaci/Marici.

[t] /Ch/ in SiLozi is used word initially in proper nouns and /c/ in others.

- h) /ch/[ff] when preceded by /n/ [n] is converted to /nj/ [ndz]: Launch (boat) lonji.
- i) /ch/[k] transformed into /k/[k]: <u>Ch</u>olera <u>kolela</u>, <u>Ch</u>rist <u>Kiresite</u>, Mi<u>ch</u>ael *Maikulu*.
- j) Owing to the supposedly lack of the voiced alveolar plosive [d], the sound is transmuted into a voiced alveolar plosive nasal complex /nd/ [nd] as below:

Desk <u>ndesiki</u>, <u>dress <u>ndelesi</u>, king<u>d</u>om kiñi<u>nd</u>omu, or red le<u>ndi</u>.</u>

k) /e/ [i] transmuted into /i/ [i]

/e/ transformed into /i/ [i]. The /e/ phoneme at the end of some English terms does not bear the sound [i] but when adapted into SiLozi, the sound [i] is included. The transmutation of /e/ into /i/ according to the data only happened in mid and final word positions as in Change [fedʒ] *Cenji* [fedʒi], Date [deit] *Deti* [deti], grade [greɪd] *giledi*.

1) /e/ transformed into /u/ [u] as in: Come in [kʌm] *kamu* ini [kʌmu], envelope [ɜnvələup]



ingilop<u>u</u>.

- m) /ea/ [3] converted to /e/ [e] in the middle position words as in: Bread buledi, break buleki, head hedi and weak wiki
- n) /ee/ [1:] converted to /i/ [i]. The long /ee/ [1:] is shortened when adapted into SiLozi. The alteration occurs mostly in mid and final word positions as in:

Canteen kantini, green gilini or three thiri.

- o) /cher/ [tfər] is converted to /ca/ [tfʌ]: Butchery [botfəri] Buca [butfʌ] or [butfʌli]
- p) /er/ [ər] is converted to /a/ [ $\Lambda$ ] in mid or final word position as in: Cant<u>er</u> kant<u>a</u>, ex<u>er</u>cise ekis<u>a</u>saizi or ruler  $lul\underline{a}$ .
- q) /ey/[i] transformed into /i/[i] as below: donkey donki or key kii.
- r) /g/ converted to /j/. This is more or less like in l) where the last phoneme does not have a phonetic symbol: Bridge [brɪdʒ] *buliji* [bulidʒi], cabbage [kabidʒ] *kabeji* [kʌbedʒi], message *meseji*, porridge *poleji*
- s) In English loanwords adapted into SiLozi, /gh/ is deleted before /t/ in all borrowed words as in the following terms: Eight *eiti*, light *laiti* or lighter *laita*.
- t) /i/ [Ai] transformed into /ai/ [Ai] as: Chinese cainizi, five faibi.
- u) /ir/[ə:] converted to /e/ [e]. /ir/ unlike /or/, /er/ and /ar/ does not become a long vowel as in: Circle *sekulu* or thirty *theti/seti*.
- v) /o/ [au] converted to /a/ [A] as in the following terms: Pope *Papa*.
- w) /o/ [Λ] converted to /a/ [Λ]: Pontoon pantunu or Southern Sauzeni
- x) /o/[a] converted to /a/[A] as in: Rounding laundini or town tauni.
- y) /oo/ [σ] converted to /u/ [u] occurs in mid-word positions as in: Book buka, good gudu or toothbrush tusibulasho.
- z) /or/ [ər] converted to /a/ [ʌ] takes place in mid or final word positions and not in initial positions as in: Doctor *Dokota* or Taylor *tela*.
- aa) /or/ [ɔ:] assimilated (progressively) to /a/ [ʌ] or [ɔ:] as in 'torch': Torch taci (tooci) by learners.
- bb)/ph/[f] converted to /f/[f]: Phone foni, Metamorphism metamofomizimu.
- cc) /q/ [k] converts to /k/ [k] as: Question kwesheni or Mosque mosiki



- dd)/r/ [r] becomes /l/ [l] when not preceded by a vowel other than in vowel /i/ as in: Lo<u>rry</u> *looli* or <u>relay *lilei* but when /r/ [r] is preceded by a vowel, the vowel is lengthened in mid (mostly) or final word position as in Cards *makaadi* or horse *hoosi*. These are occurrences of progressive assimilation.</u>
- ee) /s/ [z] assimilates (progressively) to /z/ [z] when preceded by a voiced sound as in Beans binizi or Cells seluzi but it remains as [s] /s/ as in 'sets' maseti.
- ff) /th/  $[\theta]$  altered to /s/ [s]. /th/  $[\theta]$  becomes /s/ [s] anywhere as mainly because SiLozi does not have the theta  $(\theta)$  sound as in: Face cloth *kulosi* or teeth brush *tisibulasho*.
- gg)/th/[ð] altered to /z/[z] if /th/ is preceded by a voiced sound as in Southern sauzeni
- hh)/u/[ $\vartheta$ ] transformed into /a/[ $\Lambda$ ] as in abac<u>us</u> abakasi in initial or mid word position.
- ii)  $\frac{\langle u \rangle}{[\Lambda]}$  transformed into  $\frac{\langle a \rangle}{[\Lambda]}$  as in the terms below: Button *batani* or rubber *laba*.
- jj) /u/  $[\Lambda]$  converted to /a/  $[\Lambda]$  as in 'magnesium' maginiziamu.
- kk)/v/[v] softened to /b/[ $\beta$ ] or /f/[f] as in Cover  $ka\underline{b}a$  or province  $pulo\underline{b}insi$  or in Shovel fosholo/focolo (metathesis too).
- ll) /w/ [υ] transformed into /u/ [u]: Brown bulauni or town tauni.
- mm) /w/ [u] transformed into /u/ [u]: Mathew Mateu or New nyu.
- nn)/x/ [ks] transmuted into /kis/ [kisi]: Amoxil amokisilu or next nekisiti.
- oo)/y/ [Ai] converted to /ai/ [Ai], /e/ [e] or /i/ [i] as in: By bai or type taipa,

/y/ [i] converted to /e/ [e] as in Egypt *Egepita* or fifty *fifite* and /y/ [i] converted to /i/ [i]: Butchery *bucali* or relay *lilei*.

#### 4.4.3 SiLozi Nominal Classes and Loanwords

Nominal classes are a distinctive feature in Bantu languages and SiLozi being a Bantu language, they are part. SiLozi has twenty (20) nominal class prefixes as below. The noun classes express singular and plural prefixes of nouns and things such as kinship terms, quality of nouns or adjectives and they indicate locative prefixes. Likewise, they include pejorative and diminutive prefixes. Mwisiya (1991) wrote twenty-two (22) nominal class prefixes which comprised two Ur-Bantu prefixes and these have no counterpart in the SiLozi nominal class system and no loanwords were mentioned. Not all loanwords fitted squarely in the system. Owing to that I suggested classes 9b and 10b. The plural of the English loanwords borrowed into SiLozi as we can see below can fit in 9a as they have a zero morpheme for singular but then they have no prefix for plural. Borrowed words used in a diminutive and pejorative manner, fit well in nominal classes 12, 13, 19 and 20.



Table 2. Nominal Classes

Class	Prefix	Example	Function				
1	Mu-	<u>Mu</u> tu/sali 'woman'	Singular of class 2.				
1a	Ø	Ndate/malume 'father/uncle'.	Kinship singular form.				
2	Ba-	Batu 'persons', basali 'women'.	Plural of Class 1.				
2a	Bo-	<u>Bo</u> ndate, bomalume	Honorific form of Class la				
3	Mu-	Musima 'hole', muhuma 'hoe'.	Singular of class 4.				
4	mi-	Misima 'holes', mihuma 'hoes'.	Plural of Class 3.				
5	li-	<i>Lizoho/ito</i> 'hand/egg'	Singular form of class 6.				
6	ma-	Mazoho 'hands', meeto 'eyes'.	Plural prefix of Class 5				
7	si-	Sikuba 'a fool', sikolo 'school'	Singular Class 8 of things or state of				
			being.				
8	li-	Likuba 'fools', likolo 'schools'	Plural prefix of Class 7.				
9	n-	<u>N</u> dongo 'groundnuts',	Counterpart of Class 10.				
9a	Ø	Nja 'dog', komu 'cow'.	Singular of 10a first row.				
		Donkii 'donkey', fosholo 'shovel'	Singular of 10a second row.				
9b	Ø	Dokota 'doctor', neesi 'nurse'.	Singular of 10b.				
10	n-	<u>N</u> dongo 'groundnuts'	Plural of Class 9.				
10a	li-	Linja 'dogs', likomu 'cattle'.	Plural of Class 9a first row.				
		<u>Li</u> donkii/fosholo 'donkeys/shovels'	Plural of 9a second row.				
10b	ma-	<u>Ma</u> dokota/neesi 'doctors/nurses'.	Plural prefix of 9b loanwords				
11	lu-	<u>Lunya/timbo</u> 'cruelty/hatred'.	State of being starting with $lu$				
12	ka-	Kanja/neesi 'tiny dog/nurse'	Singular diminutive of Class 13				
13	tu-	<u>Tuneesi/nja</u> ; 'tiny nurses/dogs'	Plural diminutive of Class 12				
14	bu-	Bunde 'beauty', bunsu 'black'.	State of being beginning with bu				
15	ku-	<u>Ku</u> ca/seha 'to eat/laugh'.	To infinitive forms				
16	fa-	<u>Fande</u> 'outside', fa 'here'	Locative prefix 'on'				
17	kwa-	Kwandu/hae 'at home/village'	Locative of place e.g. 'at'				
18	mwa-	Mwazebe/liito 'in the ear/eye'	Locative prefix denoting 'in'				
19	si-	Siina/neesi 'ugly/big man/nurse'	Singular pejorative of Class 20				
20	bi-	<u>Bi</u> ina ugly/big boys, <u>bi</u> neesi	Pejorative plural of Class 19				
		'ugly/big nurses'					

# 4.5 Implications of the Findings

According to the arrays which stood out, I married the objectives of the study and their research questions to the findings by identifying the phonological effects of SiLozi on the loanwords which influenced their morphology.



# 5. Summary, Conclusions and Recommendations

# 5.1 Summary

The use of loanwords in grades one to three is unavoidable as there are some technical words which are not found in SiLozi. The main objective of this study was to identify the morphophonological effects of the English loanword adaptation into SiLozi. To do that, 435 loanwords were collected from schools and I used the objectives of the study to measure the morphophonological effects of the adaptation of the collected loanwords into SiLozi for standardisation. Data were transcribed then analysed and the loanwords from urban schools varied insignificantly from rural schools. Arrays such as some phonemes converting to other phonemes due to the SiLozi phonotactics and due to SiLozi being a tonal and phonemic language occurred. Some sounds which were originally voiced in English became voiceless in SiLozi and others were deleted or inserted depending on SiLozi phonotactics. Using the arrays that surfaced, generalisations were made.

#### 5.2 Conclusion

The data revealed patterns that could be followed, and these patterns need to start in schools as they are the pivot of development. Likening what was written in the learners' textbooks to what the learners were saying in class, the sound and form used in their textbooks was not compatible with the learners'. We conclude that the phonology and the morphology of SiLozi are applied on the English terms by assimilation and by the use of phonological rules such as insertion, deletion, feature changing and metathesis. We further conclude that, the English plural and singular markers are discarded and the SiLozi ones are used word initially although in fewer cases, the English plural form can be used together with the L1 plural markers.

# 5.3 Recommendations

After data analysis, this study recommends the following;

#### 5.3.1 Recommendations for Further Research

- i) Studies examining loanword nativisation from different specialised fields be carried out to solidify field specific loanword adaptation process.
- ii) Bilingual dictionaries relating to technical loanwords should be carried out.

#### 5.3.2 Policy Recommendation

- i) All teacher trainees should take a course in loanword adaptation for normalisation.
- ii) Explore public awareness through different Medias.



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#### Note

Note 1. Phonotactics according to Crystal (2008: 366) is, "a term used in phonology to refer to the sequential arrangements (or tactic behaviour) of phonological units which occur in a



language."

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