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THE PRACTICAL IMPLICATIONS FOR WRITERS, PUBLISHERS, AND POLICY-MAKERS OF THE VARIOUS POLICY OPTIONS ON THE MEDIUM OF INSTRUCTION IN FUTURE SOUTH AFRICAN SCHOOLS

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As an educationist and a publisher intent on producing good quality books, I've suffered considerably over the last 14 years from last-minute implementations of policy by education authorities - or last-minute reversals of policies which are found to be uneconomic - which militate against the publishing of good material. It was the recognition of the equivalent of the San Andreas Fault in the South African education system and impending disaster (we know it will happen; we're just not sure when) which led me to begin working out in advance what the practical implications of the various language policies would be, how we could publish books which support these policies, and what these books could look like.

It led, inevitably, to considerations that go beyond language policy options, and broadened to include the sometimes conflicting interests of curriculum planners, subject specialists, the "financiers" of education, and the politicians, as well as the aspirations and needs of teachers, parents and students.

Much of educational publishing is about what we euphemistically refer to as "creative tensions", the ability to reconcile the irreconcilable being the art of publishing. These tensions are between the conflicting interests of editorial needs (more time to produce fewer books) and of sales needs (more books in less time), of textual literacy (through editing) and of visual literacy (through design), of educational principles and financial feasibility, of education principles and political pragmatism. Good educational publishing and, I submit, good educational policy is about recognising these conflicts and maintaining a

delicate balance which ensures reasonable satisfaction on both sides. Policy decisions cannot and should not be made in isolation and without examining their impact on the adjacent links in the chain. What follows is an attempt to point out the imbalances and to suggest how these could be addressed.

Assumptions

I have assumed in this paper that textbooks will continue to play a central role in the majority of classrooms in South Africa, as they do at present, since the factors which contribute to this situation are not likely to disappear overnight. The factors are well documented: teachers' lack of confidence in their own abilities (for a variety of reasons, both internal and external), the perceived authority of print, the tyranny of the syllabus, the burden of preparation and work (which make it difficult to be creating innovative material every day for every class), the lack of facilities for reproduction of worksheets, etc., and the fact that economies of scale often make textbooks as a whole cheaper than self-produced material.

Furthermore, when evaluated on the basis of "rand for impact", textbooks are the most cost-effective form of intervention in the classroom when compared to investments in areas such as the provision of physical facilities and teacher-training. (The latter is the most effective and long-lasting form of intervention, but also the most expensive.)

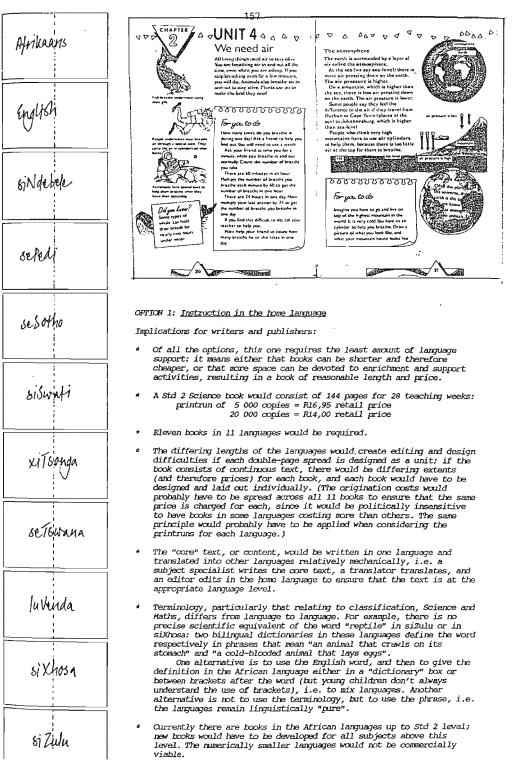
Politically, they have the additional attraction of being relatively easily and quickly "implemented" as a form of educational intervention. (For example, the decision to provide double the number of textbooks to schools involves, in simple terms, an order, supply, and a cheque - all of which can be done in two months. Compare this to the length of time and the complexity of the process of building new schools, and the organisation and labour required for teacher-training.) To both

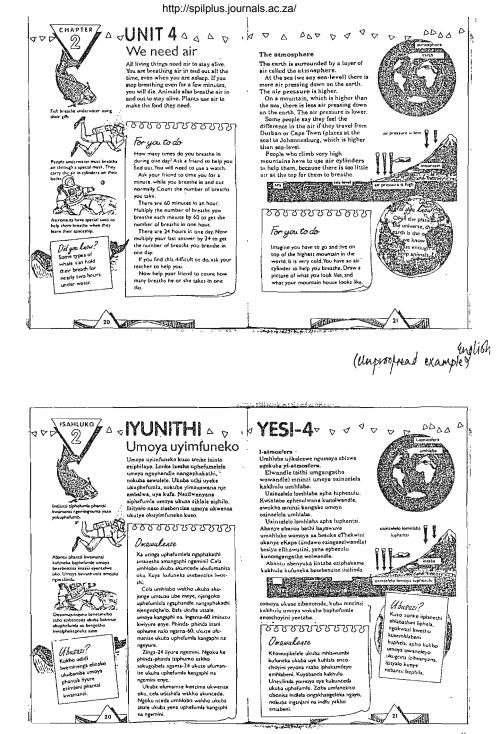
governments and aid agencies wishing to satisfy their respective constituencies, textbooks are visible, tangible and easily "measurable" desirable factors if one is evaluating or implementing short-term plans over a period of one to five years. (This is often the length of time a government has for reform before the next elections, and most aid agencies understandably will not commit themselves beyond a five-year time frame for specific projects.)

Underpinning all of the above is the restricting factor of cost. While in an ideal world, there would be no limit on the cost of educational materials used in the classroom, in reality there have been, and are, severe constraints on the money available for expenditure on books in South African classrooms. Given the backlogs in educational expenditure, the population growth, and the need to draw into school through compulsory education the estimated 15% - 20% of school-going children who are not at school, it is unlikely that the amount of money available for expenditure on education will increase: in fact, the ability to deliver on the above is entirely dependent on positive economic growth.

The overt and covert price ceilings that education departments have historically set for books used in schools have of necessity been the determining factor in the production of those books, and is one of the reasons for the inadequacy of many textbooks. (Another major reason for poor quality is the lack of time given to publishers to produce books for a new syllabus cycle, and the construction of a system which produces serious financial penalties for those publishers who don't have books available for purchase at the start of a syllabus cycle.) In other words, the market, i.e. the education departments, gets what it demands, sets up and accepts.

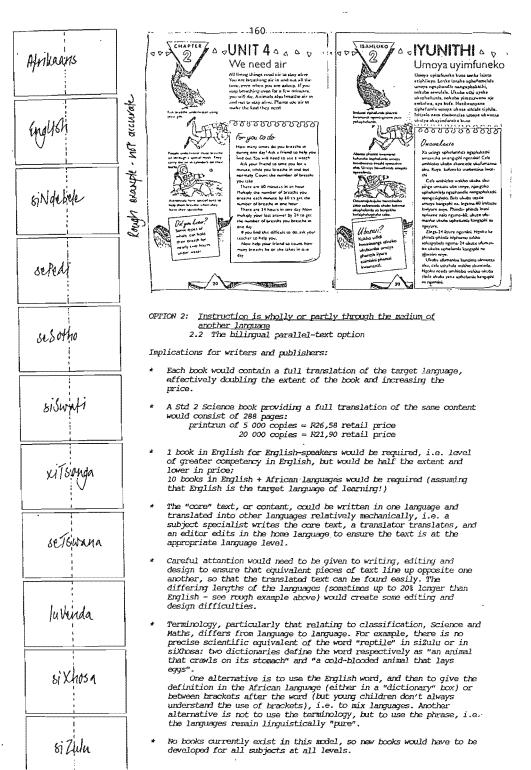
What follows is a visual representation of the various policy options, together with the implications for writers and publishers. This paper deliberately does not cover the educational, linguistic and political implications of the various policy options, since these have been well documented in the National Education Policy Reports.

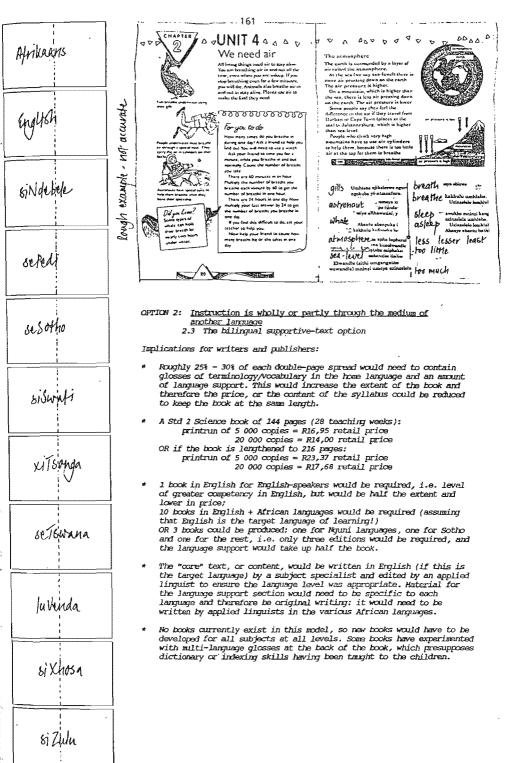


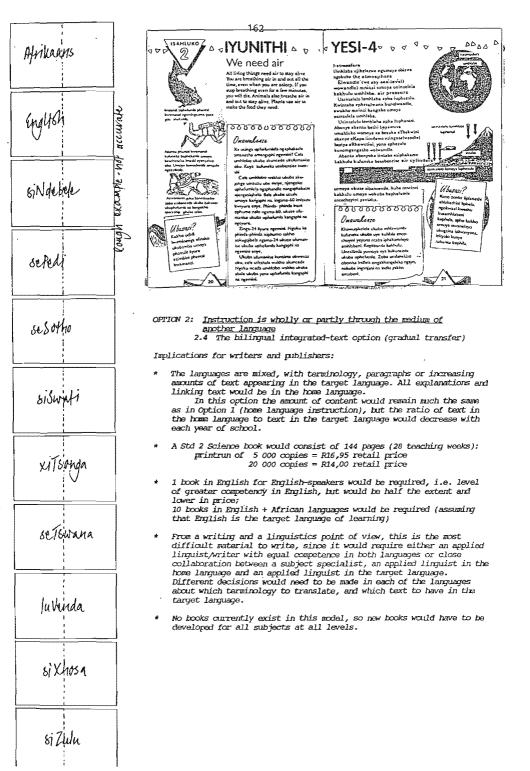


HUDLONINA & OYAM DIE

http://spilplus.journals.ac.za/ OUNIT40000 Test your language! Afrikaans Fill in the missing words : All things that ____ must ___ air to bray alive. You breathe We need air All living things need air to stay alive You are beentliving air in and out all the That are needed or in and not all the time, series when you are eablest. If you stop breathing even for a few minutes, you will the Americks about breather air in and sust in any alive. Plants use air to make the deal they recent - in and out all the Home, even when you are ____ing. lough example - not accurate English 1888888888888888 For you to do Take a breath! for many times do you breathe at hering one day? Ask a friend to help p ind out. Tou will need to use a watch Ask your friend to time you for a muute, while you breathe in and out Breathe in! How long can you hold your armalig Couns she number al areashs ou take you take There are 60 minutes in an hour. Muhapiy the number of breaths you breathe each minute by 60 to get the number of breaths in one hour There are 24 hours in one day. Now multiply your is us assure to get 4 to get the number of breaths you breathe in nee due breath? ton AU 5 Ndebele Go to sleep! All right, Till go to sleep. and day If you find this difficult to do, teacher to help you Now help you types of Are you asleep? Yes, I'm asleep. I'm sleeping Good night! to help you help your fre any breaths he or the seledi - Durse OPTION 2: Instruction is wholly or partly through the medium of sesotho another language 2.1 The "straight-for-English" option Implications for writers and publishers: Of all the options, this one requires the most language support. Either "content" would need to be halved in order to provide adequate language support, or the length of the book would need to be doubled siswati to ensure adequate language support. The former has major curriculum implications; the latter financial implications. A Std 2 Science book would consist of 144 pages for 28 teaching weeks: printrun of 5 000 copies = R16,95 retail price 20 000 copies = R14,00 retail price A book containing identical content but providing thorough language XITSignda support would consist of 288 pages (see rough example above): printrum of 5 000 copies = R26,58 retail price 20 000 copies = R21,90 retail price 1 book in English for English-speakers would be required, i.e. for a level of greater competence in English; and 1 book in English for second-language speakers would be required, i.e. all content and language support is in English se IGWANA OR 10 books in 10 African languages would be required, with language support in each home language. The "core" text, or content, would be written in English (if this is the target language) by a subject specialist and edited by an applied linguist to ensure the language level was appropriate. Material for the language support section would need to be specific to each language and therefore be original writing: it would need to be lutinda written by applied linguists in the various African languages. There are currently no suitable books in the "content" subjects catering for the "straight-for-English" option, nor do any of the present syllabuses provide sufficient English immersion and support to ensure that learning of the "content" subjects takes place in optimal conditions. siXhosa Si Zulu







The range and permutations of materials

If all the policy options for the medium of instruction listed above are used in South Africa, then the following range of permutations at a <u>single</u> school level will be as follows:

For example, in Science for Std 2, one will have the following permutations across the 11 languages: Option 1 (home language) = 11 books Option 2.1 (straight-for-English) = 1 for English-speakers 10 for non-English speakers Option 2.2 (bilingual parallel text) = 10 for non-English speakers Option 2.3 (bilingual supportive text)= 10 for non-English speakers Option 2.4 (bilingual integrated text)= 10 for non-English speakers Total = 52 editions

Note: this assumes that there will be standard policies throughout the country on the <u>timing</u> of the transfer from the home language to the target language (for example, if all agree that at Std 1 level 25% of teaching of content subjects will be in the target language, at Std 2 level 50%, and so on), or on the <u>subjects</u> which are taught in the target language (for example, Maths and Science in the target language at Std 1 level, History at Std 5). Any variations will increase the number of permutations accordingly.

Applying this same range of editions to a minimum number of other content subjects at this level for which books are usually provided:

Mathematics Science (or General Science) History Geography

Health Education

results in a total of 260 editions being available at Std 2 level in the content subjects. (See Appendix II for the list of subjects taught in Bophuthatswana schools.) Added to this should be 11 books teaching the

home language, and 11 books teaching another language as a second language, resulting in 282 editions at Std 2 level alone.

Clearly this is a supplier's nightmare, since publishers will have to find a way to indicate which edition is which, train sales staff to know the difference and offer advice accordingly, and teachers will need to know and order correctly - the edition they wish to use.

Furthermore, as the simple costings indicate, the longer the printrun, the lower the unit cost and therefore the price of the book. Too many permutations will result in relatively short printruns at higher prices. What this situation highlights is one of the classic "creative tensions" in educational publishing - in this case, between the democratic right of choice and the need to reduce the costs of education.

While it may seem tempting to embark on centralised decision-making and state publishing as a means of ensuring uniformity and low cost to the state, in the long run this would be counterproductive to the very conditions of literacy and political stability the country requires. Firstly, the educational, linguistic and political needs of the population are too diverse to be catered for through uniformity, which, if it is imposed, will not only be contravening the principle of democratic right of choice, but will also be setting the stage for the disadvantaging of one or more groups, with consequent political reaction.

Secondly, since educational publishing forms an estimated 75% of publishing revenue in South Africa - the income from which supports ventures into other areas of publishing - state publishing, or any version of it such as tendering, would effectively destroy the publishing industry (and its related industry of book retailers) by establishing preferential relationships with a few. Monopolies are ultimately not competitive on quality or price, although initially the economies of scale which they offer appear attractive. Skills and capital would disappear, and the costs of entry for new publishers would be too great at a later stage, when a

diverse and flourishing industry would be required to supply books to satisfy the range of reading needs (for information, education, entertainment) generated by a book-hungry population.

Thirdly, high financial stakes go hand in hand with high levels of corruption.

In practice, the publishing industry will not be able to deliver the full range of 282 editions in the time available, and this is likely to limit the range of options for those not wishing to make their own material. (The inability to cater for the full range will occur because some of the options in certain languages are not economically viable, because of the lack of skilled writers, editors and applied linguists in many of the languages, and because of the sheer volume of work required in a limited period of time. To put the size of the publishing industry in perspective: I estimate that it employs 2 000 - 3 000 people [compare this with Pick 'n Pay's 27 000], and that its turnover is somewhere between 7% and 14% of Pick 'n Pay's.)

Provided there is adequate discussion, consultation and education on the implications of the various policy options prior to their being implemented, consensus on language policy is likely to emerge, particularly within each region - and between regions with historically close ties - with the result that the range of editions required will in all likelihood be reduced to a manageable number. In marketing terms, the market will remain a fragmented market, which will continue to support a diverse and lively publishing industry.

The financial implications

As shown earlier, the various linguistic and curriculum policies adopted will have an impact on the length and therefore the price of the books. (A book of 144 pages for 28 teaching weeks provides 4 - 5 pages of material

per week, allowing a number of pages for extra illustrations, the contents page and title page, etc.)

To summarise, using the example of the Std 2 Science book, the retail prices of the books of varying extents would be as follows:

		5 000 copies	<u>20 000 copies</u>
144	pp	R16,95	R14,00
216	pp	R23,37	R17,68
288	$\mathbf{p}\mathbf{p}$	R26,58	R21,90

Supplying each of the 944 075 children at Std 2 level with a new book would result in a cost to the state of between R13 217 050 and R25 093 513. (See Appendix II for the numbers of children at school, which do not include those of school-going age who are not at school.)

It follows that the cost of supplying seven new books at Std 2 level, for example, could be between R93 million and R176 million. Since I estimate that the current retail value of the educational book market in South Africa is \pm R562 million per annum, changing the curriculum at one school level would cost approximately 16% of the total budget. (The present budget - with no curriculum reform at the moment - is strained under the policy of supplying one book per child per subject per level, with books theoretically being replaced only every 3 - 4 years: it does not include purchase of dictionaries (essential for language acquisition), atlases (essential for geographical skills), supplementary readers (essential for language acquisition), and other supplementary materials.) And it's well known that any new government will be able to deliver on education only if there is the economic growth to sustain its policies on expenditure.

These sorts of financial considerations lead naturally to issues such as the affordability of reform and the pace at which it can be implemented.

Implications for the pace of curriculum reform

In considering the pace of curriculum reform, one is faced yet again with one of the "creative tensions", this time between the interests of politics - which requires visible and rapid reform in the education system - and education - which requires longer leadtimes for thorough and long-lasting reform of the curricula and for the production of quality materials based on those curricula.

Of the two models which follow, the first is based on the present system of curriculum reform, as planned by all the education departments for the past two decades, while the second is my proposal for an alternative.

Some general points about the assumptions I've made:

- * For the sake of convenience and simplicity, I have taken liberties with the nomenclature and number of subjects in the school curriculum: technical subjects have been omitted, and certain subjects collapsed into one another, since it is possible that present subject divisions may disappear or be re-drawn, or be named differently.
- * While assessing the number of new books and therefore the expenditure required in each year, it's important to remember that existing subjects will have to be catered for it, as will the supply of dictionaries, atlases, readers, and other supplementary material. Top-up orders will also be necessary each year for increasing enrolments in the new syllabuses and the replacement of damaged books.
- * I've used the word "book" loosely: at lower primary level the material may consist of worksheets, picture books, wallcharts, etc., but I've assumed that some form of material will be required, even if it's only a comprehensive teacher's guide.

Model 1

This model is based on the present pattern of an eight-year syllabus cycle, where the syllabus for each subject is revised every eight years. (The length of the cycle was premised on the life-cycle of the average textbook, which was expected to last four years, i.e. there would be two major purchases in a cycle, with top-up stock being ordered each year for increased enrolments or replacement of damaged stock.)

Although this model shows an eight-year cycle, most of the implementation would actually have to take place over seven years (1997 - 2003), since this would be the shortest possible timetable for the production of the first new textbooks based on the first new syllabuses. As can be seen from the timetable, there is intense pressure at all stages:

1994	Departments re-organised, decision-makers
	appointed, syllabus committees established.
	Syllabus revision complete by December 1994.
1995	Writing (6 months),
	editing, design, production to page proof stage
	(6 months)
	(note: no time for trialling)
1996	Submission and approval, printing (January -
	June);
	marketing and promotion to schools (July -
	September);
	ordering and supply (October - December 1996)
1997	First new books used in schools in January 1997
	based on the first new syllabus.

This model also assumes that the pressure for rewriting of the syllabuses of the "high-profile" subjects such as History and Geography will be so great as to necessitate urgent implementation in 1996.

<u>Model 1</u>	1996	1997	1998	1999	2000	2001	2002	2003
<u>Home languages</u> (one book per child)								
Afrikaans		Yr1 Yr4 Yr7	Yr2 Yr5 Yr8	Yr3 Yr6 Yr9				
English		Yr10 Yr1 Yr4 Yr7	Yr2 Yr5 Yr8	Yr3 Yr6 Yr9				
<i>siNdeb</i> ele		Yr10 Yr1 Yr4 Yr7	Yr11 Yr2 Yr5 Yr8	Yr3 Yr6				
sePedi		Yr10 Yr1 Yr4 Yr7	Yr11 Yr2 Yr5 Yr8	Yr3 Yr6				
seSotho			Yr11 Yr2 Yr5	Yr <i>12</i> Yr3 Yr6				
siSwati			Yr11 Yr2 Yr5 Yr8					
xiTsonga			Yr11 Yr2 Yr5					
sel'swana			Yrll Yr2 Yr5	Yr12 Yr3				
luVenda			Yr11 Yr2	Yr12 Yr3 Yr6				
siXhosa			Yr11 Yr2 Yr5 Yr8					
siZulu		Yr10 Yr1 Yr4 Yr7	Yr11 Yr2 Yr5 Yr8	Yr <i>12</i> Yr3 Yr6 Yr9				
		Yr10	Yr11	Yr12				
No. of new books		44	44	44				

(Model 1 continued)	1996	1997	1998	1999	2000	2001	2002	2003
Second language								
Afrikaans		Yr4 Yr7	Yr8	Yr6 Yr9				
English		Yrl Yr4 Yr7	Yr11 Yr2 Yr5 Yr8	Yr3 Yr6 Vr9				
siNdebele		Yr10 Yr1 Yr4 Yr7	Yr11 Yr2 Yr5 Yr8	Yr12 Yr3 Yr6 Yr9				
sePoli		Yr10 Yr1 Yr4	Yr11 Yr2 Yr5	Yr12 Yr3 Yr6				
seSotho		Yr10 Yr1	Yr8 Yr11 Yr2 Yr5	Yr12 Yr3				
siSwati		Yr10	Yr5 Yr8 Yr11 Yr2 Yr5	Yr12				
xiTsonga		-Yr7 Yr10	Yr8 Yr11	Yr9 Yr12				
		Yr10	Yr2 Yr5 Yr8 Yr11	Yr12				
sel'swana		Xr7	Yr2 Yr5 Yr8 Yr11	Yr9				
luVenda		Yr4 Yr7	Yr11 Yr2 Yr5 Yr8	Yr6 Yr9				
siXhosa		Yr10 Yr1 Yr4 Yr7	Yrll Yr2 Yr5 Yr8	Yr12 Yr3 Yr6 Yr9				
siZulu		Yr10 Yr1 Yr4	Yr11 Yr2 Yr5 Yr8	Yr12 Yr3 Yr6				
			Yr11 Yr11					
No. of new books C/F		44 88	44 88	44 88				

(Model 1 continued)	1996	1997	1998	1999	2000	2001	2002	2003
<u>Examinable</u> subjects								
Mathematics					Yr1 Yr4 Yr7 Yr10	Yr2 Yr5 Yr8 Yr11	Yr3 Yr6 Yr9 Yr12	
Science					Yr1 Yr4 Yr7 Yr10	Yr2 Yr5 Yr8 Yr11	Yr3 Yr6 Yr9 Yr12	
Biology					Yr10	Yr11	Yr12.	
History	Yr4 Yr7 Yr10	Yr5 Yr8 Yr11	Yr6 Yr9 Yr12				•• *	
Geography	Yr4 Yr7 Yr10	Yr5 Yr8 Yr11	Yr6 Yr9 Yr12					
Health Education Handwriting	Yr1					Yr4	Yr5	Yr6
Accounting						Yr8	Yr9 Yr11	Yr10 Yr12
Economics						Yr8	Yr9 Yr11	Yr10 Yr12
Shorthand						Yr8	Yr9 Yr11	Yr10 Yr12
Typing						Yr8	Yr9 Yr11	Yr10 Yr12
Woodwork						Yr8	Yr9 Yr11	Yr10 Yr12
Home Economics						Yr8	Yr9 Yr11	Yr10 Yr12
Biblical Studies						Yr8	Yr9 Yr11	Yr10 Yr12
Art						Yr8	Yr9 Yr11	Yr10 Yr12
Music						Yr8	Yr9 Yr11	Yr10 Yr12
Non-examinable subject	<u>s</u>							
Art Music Religion			,		????			
Guidance Physical Education					? ?			
No. of new books	7	6	6	0	9	19	28	19
TOTAL	7	94	94	88	9	19	28	19

Model 2

This model assumes that curriculum planning will be more integrated than in the previous model, where subjects are treated disparately, and that the curriculum will be reformed one year at a time, starting with the first year of school and working up. Since the first three years are closely integrated and usually require little in the way of textbooks, it should be possible to implement new syllabuses for this phase in one year. This would allow a ten-year syllabus cycle, with a more even and lower spread of expenditure.

A more realistic period for intensive reform of the curriculum has been anticipated:

1994	Re-organisation of education departments;
	appointment of decision-makers
	Start of syllabus reform for lower primary
1995	Completion of syllabus reform by December
1996	Writing (6 months),
	editing, design, production to page proof stage
	(6 months)
1997	Trialling
1998	Submission and approval (January - March),
	corrections / alterations (April),
	printing (May - June),
	marketing to schools (July - September),
	ordering and supply (October - December)
1999	First new books in schools in January 1999 on the
	first new syllabus.

The year 2000 would see the curriculum for Year 4 being implemented, 2001 Year 5, and so on, until the reform of the school-leaving year in 2008.

Model 2	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	Yr1 Yr2 Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yrll	Yr12
<u>Home languages</u> Afrikaans	x x	x	x	x	x	x	x	x	x	x
English	x x x	x	x	x	x	x	x	x	x	x
siNdebele	x x x	x	x	x	x	x	x	x	x	x
sePedi	x x x	x	x	х	x	x	x	x	x	x
seSotho	x x x	x	x	x	x	x	x	x	x	x
siSwati	x x x	x	x	x	x	x	x	x	x	x
xiTsonga	x x x	x	x	x	x	x	x	x	x	x
seTswana	x x x	x	x	x	x	x	x	x	x	x
luVenda	x x x x	x	x	x	x	x	x	x	x	x
siXhosa	x x ·x	x	x	x	x	x	x	x	x	x
siZulu	x x x	x	x	x	x	x	x	x	x	x
No. of books	х 33	11	11	11	11	11	11	11	11	11

.

(Model 2 continued)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	Yr1 Yr2 Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yrll	¥r12
Second lang.										
Afrikaans	x x	x	x	х	x	x	x	x	x	x
English	x x	x	x	x	x	x	x	x	x	x
	x x								.:-	
siNdebele	x x	x	x	x	x	x	X	x	x	x
sePedi	x x x	x	x	x	x	x	x	x	x	x
seSotho	x x	x	x	x	x	x	x	x	x	x
	x x									
siSwati	x x	x	x	x	x	x	x	x	x	x
xiTsoma	x x	x	x	x	x	x	x	x	x	x
	x x									
sellswana	x x	x	x	x	x	x	x	x	х	x
luVenda	x x	x	x	x	×	x	x	x	x	x
	x x			•						
siXhosa	x x	x	x	x	x	x	x	x	x	x
siZulu	x x	x	x	x	x	x	x	x	x	x
	x x									
No. of books	33	11	11	11	11	11	11	11	11	11
NO. OF LOOKS	55	**	**	<u> </u>	**		**	11		

(Model 2 contin	ued)									
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	Yr1 Yr2 Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	'Yr10	Yrll	Yr12
<u>Exam, subjects</u> Mathematics	x x	x	x	x	x	x	x	x	x	x
Science Biology	<u>×</u>	x	x	x	x	x	x	x x	x x	x x
History Geography Health Educatio	an	x x x	x x x	x x x	x x	x x	x x	х х	x x	x x
Handwriting Accounting Economics	x					x x	x x	x x	x x	x x
Shorthand Typing Woodwork						x x x	x x x	x x x	x x x	x x x
Home Economics Biblical Studie Art	¥S					x x x	x x x	x x x	x x x	x x x
Music						-	-	-	-	-
TOTAL BOOKS	70	27	27	27	26	34	34	35	35	35

Apart from the assumptions about the timetable, which are variable, the advantages of Model 2 over Model 1 are the following:

- * It permits and ensures greater integration of the curriculum, allowing language policy issues to shape the volume and pace of the "content" curriculum; it also allows a skills-based curriculum to be developed and implemented in an integrated way.
- * The new book requirements for each year are more evenly spread in terms of expenditure, without the wild fluctuations of Model 1.
- * The demands that will be made on a new book submission and approval system are evened out.
- * It suggests that teacher-training on new curricula could be more manageable, with, for example, all Std 1/Year 3 teachers being trained in a single year. (Under Model 1, Std 1 teachers would have to be trained in every year when a new subject syllabus for Std 1 was introduced.)

Recommendations

Policy-makers and decision-makers need to make decisions now, about:

- * the allocation of resources for and within education (facilities, teacher-training and textbooks), and
- therefore the feasible quality and quantity of reform over a pre-determined period of time,
- * whether language policy will drive the curriculum, and how,
- * how all this will be integrated with the aspirations and wishes of students, parents and teachers as well as the wider community in a form that is both visible and immediate.

The following steps are recommended:

- 1 The allocation of resources is established, and the limits of the resources available for new curricula (and therefore new books on those curricula) and for teacher-training (on the evaluation of books as well as on the curricula, but with particular emphasis on the application of the language policies).
- 2 The model of a 10-year syllabus cycle is adopted, aiming to reform the entire school curriculum over a period of 10 years, starting with the first years of school and working up.
- 3 Adequate time should be allowed for thorough planning and preparation, aiming therefore to have the first curricula ready for use in schools in 1999: this will allow
 - * curriculum planners time to plan thoroughly
 - publishers time to produce and trial good material
 - * time to establish a book-evaluation system
 - * time to establish how teacher-training on a new curriculum
- 4 In the short-term, curriculum planners need to tackle the most visible and controversial section of the curriculum first -History. Either abandon the old syllabus and allow schools to use whatever books and material they choose, or establish a new syllabus as a matter of urgency, with a view to implementing it in January 1996.
- 5 Educationists and a new ministry of education should conduct a campaign of education aimed at parents and teachers on the implications of the various language options, with the goal of achieving an educationally sound policy that offers a reasonable degree of choice, but limits the options described above. It could be, for example:
 - home-language instruction up to Years 4 or 5 (practically, textbooks could look like the examples in either Option 1 or Option 2.4, or both)
 - * bilingual supportive text from Year 1 (practically, this would look like Options 2.1 and 2.3).

6 Because it will take some time before new curricula and therefore new books are available, the issue of existing aproved book lists needs to be addressed. Since it is not physically feasible to set up a new evaluation body immediately to re-evaluate every book in the country at every level in every subject, in the interim I would recommend that all existing lists be combined into a global list - from which schools may elect to use any book - and that either priority be given to establishing a new evaluation system (or body) to evaluate new texts which can be added to the list, or that existing evaluation bodies continue to evaluate new material and add these to the global list.

Conclusion

Language policy, curriculum policy, the pace of educational reform, the financing of education and the political climate in which all of the above operate are too closely linked for a decision to be made on any one of these areas in isolation. It is of vital importance that they be considered holistically, and that the necessary balance of "creative tensions" is achieved <u>before</u> policy is implemented. This offers the best chance of success in reform of the educational system - considered, balanced, well thought out and implemented change instead of the crisis management that has existed in the past.

APPENDIX I APPROXIMATE NUMBERS OF CHILDREN AT SCHOOL PRESENTLY

These figures are taken from the latest available departmental reports, ranging from 1987 to 1992, so they can only be considered approximate. They do not include the estimated 15 - 20% of children of school-going age who are not at school, and who would be drawn in by the policy of compulsory education.

Sub A	1	460	787		
Sub B	1	098	070		
Std 1	1	130	402		
Std 2		944	075		
Std 3	1	013	753		
Std 4		817	024		
Std 5		739	580		
Std 6		761	116		
Std 7		659	201		
Std 8		529	471		
Std 9		453	236		
Std 10		412	546		
Primary			7	203	691
Secondar	y		2	815	570
TOTAL			10	019	261

APPENDIX II TYPICAL SUBJECTS OFFERED AT PRIMARY SCHOOL LEVEL

Below is a list of the subjects offered at Std 3 level by the Department of Education of Bophuthatswana, which is reasonably typical of the subjects offered at this level country-wide.

[Subjects for which books are usually provided] Setswana Afrikaans English

Mathematics
General Science
Geography
History
Health
Agriculture

[Subjects for which books for pupils are not provided] Art and Craft Music Needlework Physical Education Religious Education

(from <u>Std 3: A Teacher's Handbook: PEUP</u>, produced at the Institute of Education of UNIBO in consultation with the Department of Education of Bophuthatswana).