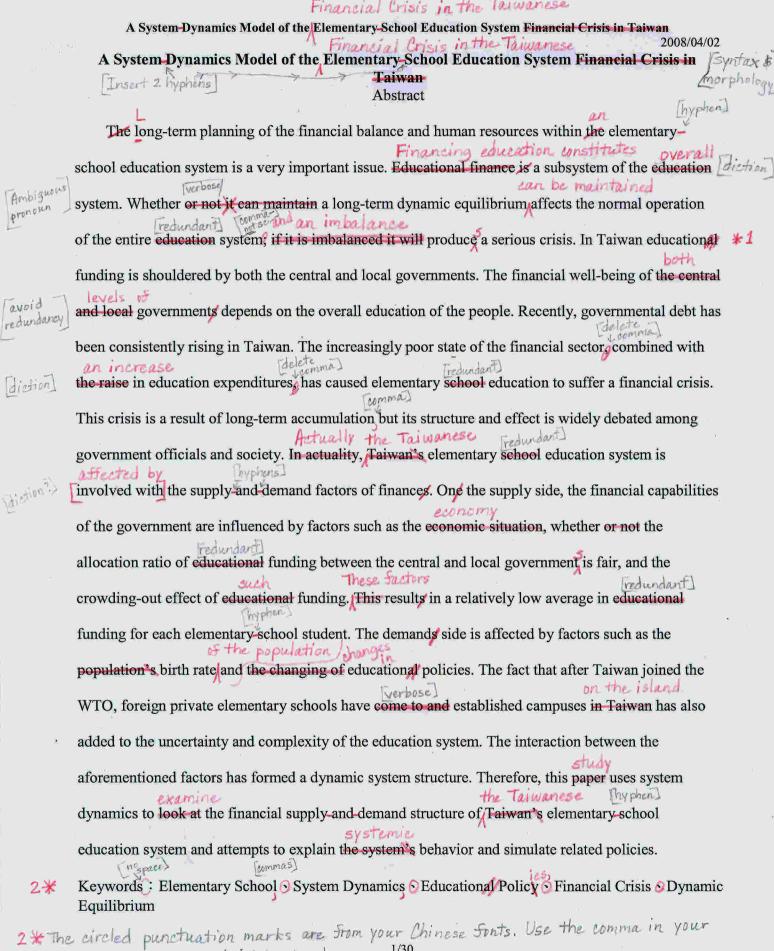
Financial Crisis in the Taiwanese



Times New Roman Sont, and delete the strange marks.

*1 See Note 2, p. 7.

1* Avoid beginning a sentence with a mathematical symbol. 2* "Lion's share" is a colloquialism which should be avoided in formal academic writing.

[Correct the syntax as on p.1]

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan

2008/04/02

3* KPreface Introduction

Financial stability and long-term human resource planning are exceedingly important issues for Invpher elementary school education systems: the lack of appropriate planning and management engenders severe crises. For example, appropriate financial planning must consider the continued recruitment of as well as their commel teachers, pensions, and salaries. The demand for human capital in the form of teachers is affected at a macrocosmic level by the birth rate, and government finances are affected by long-term developments in the economy. Economic development, in turn, is influenced by the calibre and availability of human resources, which are dependent on a competent educational system. Therefore, all of these factors are [semi-thus, elermina] Fredundant locked in a mutually-sustaining cycle, and if problems develop in a related factor, the other factors are Thyphon) also endangered. Therefore, the financial stability and long-term planning of human resources strongly notional affects a country's educational system on a holistic level. the overall constitute Educational finances are a subsystem of educational systems as a whole. To maintain a healthy redundant VT financial status, the larger educational context must also be functioning properly. The enormous the Taiwanese financial crisis that **Faiwan's** elementary school education system currently faces testifies to this (delete perio since Fredundant the relationship. 99% of Taiwan's elementary school education budget originates from government funds. 1* Faced with long-term financial deficits exceeding \$126.3 billion USD (Lee, 2007), the government has evidently failed to appropriately distribute funds, properly implement resources, and provide sufficient funding. and staff Moreover the In addition, staff salaries for teachers occupy a large proportion of funding. These issues have already of which led to severe problems. In 2006, Taiwan's total educational budget was \$13.5 billion USD, with a (83% of the total) was Verbose 21 lion's share of \$8.18 billion USD allocated to teacher salaries and pensions, a total proportion of 83%. Local governments are faced with an even worse situation: in the same year, the educational budget of more than 90% of the total Taipei County was \$1.05 billion USD, but staff salaries reached \$942 million USD for a proportion of over 90% (Ministry of Education, 2007). These proportions egregiously exceed the average of other space. OECD countries (Organization for Economic Cooperation and Development, 2007). Teacher pensions comma turther mote, comprise hold large proportions, such that the general administrative budget is left with less than 10%. Taiwan's "Sections and subsections should be clearly differentiated but should not be numbered." (Item #7,

Script Requirements/Information for Contributors/JORS)2/30

VT

diction

ſ	¥ 200	3-1990 = 13
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		elementary school education has insufficient estimates in its budgeting. Subsequent levels of
		government allocate barely enough to maintain salaries for staff members, at the loss of all other [redundant sentence]
	-1	expenditures. This financial situation is a serious problem.
6	diction	In recent years, government finances have gradually worsened, and government debt is risen redundant merely in
		continually rising. Increasing educational deficits only serve to exacerbate the financial situation of the
		elementary school educational system. Central and local governments are jointly responsible for funding
	1	Taiwan's educational funding. However, in 1975, the central government covered 13.42% of the costs;
	1*	in 1990, that number rose to 26.81% to reach an all time high 15 years later, 30.73% in 2003. The 2*
		financial burden on the central government to cover educational costs has increased incrementally over
		several] In 2004 more than 50% of the local governments' budgets syntax
		the past few years. In terms of local governments, over 50% of their budget was allocated to education verbosity
	<i>3</i> *	in 2004(Statistics Bureau, Ministry of Education (MOE), R.O.C., 2008), showing how educational
		expenditures form one of the greatest proportions in county and city governments, as shown in Figure 1.
		Coupled with the worsening of government finances, the ratio of government debt to the Taiwan's
	+1	gross domestic product (GDP) has risen steadily. In 1991, the proportion of debt to Taiwan's GDP was
		gross domestic product (GDP) has risen steadily. In 1991, the proportion of debt to Taiwan's GDP was
	3*	17.9%, It has risen to 46.66% in 2003 (Statistics Bureau, Ministry of Finance (MOF), R.O.C., 2008), Delete verbose redundancy.
		truly exacerbating the severity of the problem.
		Other governmental spending is often prioritized over Taiwan's elementary education budget to
		the point where there are severe problems regarding dubious educational budget expenditures.
		[colon] 7: I the
		Kaohsiung City serves as an example; in 2005, the "municipal stadium budget," ("Big Egg' stadium
		land tax,","auxiliary miscellaneous stadium renovation fund," and "2009 world sports planning
		committee budget" funnelled an estimated \$25 million USD away from the educational budget, thus
		excluding actual education operations and expenditures (Education Bureau, Kaohsiung City
		Government, R.O.C., 2008). Such situations are a manifestation of inaccuracies in the budgeting
	4*	system. Not only did teaching salaries swallow most of the funding, local governments were unable to
	LUN ESW	allow" is a Sigurative colloquialism in this context.
	LY CO	3/30

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan 2008/04/02 (verbose redundancy, continued) get "specialized budget" support from the central government to buttress their programs. This situation truly added insult to injury for the developing elementary school educational system. in Taiwan Kerbose) The educational funds allocated to individual elementary students are clearly insufficient and far lower than any other developed or newly industrialized country (NIC). Elementary school education space receives one third of the total educational budget (Statistics Bureau, MOE, R.O.C., 2008), as listed in Table 2. According to estimates from the Ministry of Education, Taiwan's per capita elementary allocation student funding in 2004 averaged \$2089 USD (Statistics Bureau, MOE, R.O.C., 2008). This amount in the USA even one the unSavorably fails to even reach a third of America's per capita expenditure, and compares poorly with Hong Kong's \$3793, South Korea's \$3714, and Singapore's \$2426. Indeed, in terms of per capita educational [insert quote marks] umpared hindmostextremity * expenditures, Taiwan occupies the tail-end of Asia's four economic dragons, as listed in Table 3. After deductions taking out funds for staff overhead, land acquisition fees, and a 3% construction fee, Taiwan's educational investment fund essentially provides a 3.95% (around 82.52 USD) per capita "active one

etail-end.

like wise,

investment" for students, as listed in Table 4. This value is not even a tenth of South Korea's \$855.52.

Although it is a "high-income country," Taiwan has mangled its indigent public education system. The budgetary deficiencies "80 to 800 dollar" comparison between Taiwan and South Korea highlights the insufficient educational and

budget of Taiwan, which ultimately heralds an ever-growing disparity in competitive ability between

Taiwan and the rest of the world.

diction

"Added insult to injury" is a colloquialism;

laiwanese has

Because the government also advocated particular policies and supplanted obsolete laws, the educational system encountered yet another shock. In the past decade, the Taiwanese government

advocated educational reform. However, with policy and curriculum changes occurring too rapidly,

opted to retire. The government's former projections were insufficient to cover the retirement costs of

this flood of retirees, and many teachers were unable to retire. This situation negatively influenced the

quality of public education. Between 2002 and 2006, Taiwan's elementary school education staff

overhead occupied 83 - 93% of the entire budget, with a proportion channelled to support teacher

1* Something must be inserted between "births" and "population" to avoid an unidiomatic phrase. 2* Restrict usage of "while" to its temporal [time] meaning.

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan (space) 2008/04/02 retirement growing to 34% within four years (Statistics Bureau, MOE, R.O.C., 2008). Addressing this rapid increase in has been snowball effect of educational expenditures was a primary burden for central and local governments, thereby resulting in which also created a financial crisis for the educational system. in the Taiwanese The financial situation of Taiwan's elementary school education system is also influenced by non-[hyphen] deleterand the financial factors including urban rural discrepancies a reduction in national birth rate, etc. A reduced [hyphen] thus birth rate subsequently reduced the demand for elementary school teachers, impacting the demand for [space before open-parenthesis] [space after commas] per million in the educational resources and schools (Wang, 2004; Xue, 2004). The number of birth population in Taiwan decreased fell from 329,581 in 1995 to 192,021 in 2007 (Statistics Bureau, MOE, R.O.C., 2008), a total reduction Ministry of 41%. According to estimates from the Department of Education, the birth date in 2003 was 0.0101. Foreshadows Slightly smaller than the 0.011 average of other developed countries, this value shows a trend of future decline (redundant) redundant reduction, thus reducing the demand for elementary school teachers and creating a large number of At least commat redundant surplus teachers. A cumulative number of 50,000 elementary school teachers were unemployed as of [space] 2006 (Statistics Bureau, MOE, R.O.C., 2008). established thus Moreover In addition, foreign elementary schools have started branches in Taiwan, further jeopardizing the domestic financial situation of Taiwanese elementary schools. After becoming a formal member of the World it was incumbent upon Trade Organization(WTO) in December of 2001, Taiwan was called to gradually open its educational diction Therefore, the establishment market to ensure equality in reciprocal benefits among member states. As a result, a steady flow of high tuition hyphen has proceeded at a steady rate space before open-parenthesis] highly-priced foreign private schools have set up schools in Taiwan (Lin, 2001). While these private 2* [hyphen] [hyphen] nave schools have divided the elementary school education market and clearly impact education on a holistic mpact the level, it is difficult to estimate their future ramifications. the Taiwanese The apprementioned circumstances diction These situations suggest that the financial situation of Taiwan's elementary school education (delete period) both the system is a complex and dynamic problem, Implicating central and local governments, who shoulder [period] different proportions of the educational budget, whether the distribution of high-calibre teachers is comma comma [comma] equal whether retirement funds are sufficient; the reduction of birth rates in the population; and the (deleteral contribute to the virtual impossibility of estimating introduction of foreign private schools, it is almost impossible to estimate the number of matriculating 5/30

1 * Tables should NOT have vertical lines. Reformat all Tables. 2* Semantical problem: a study cannot "hope," but human researchers can. Since you have identified yourself as a doctoral student, I am assuming that your major professor's name will also appear in the byline of this paper. Therefore, the prenoun "we" becomes appropriate.

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan furthermore ecomma] 2008/04/02 seem to be students per classroom. Educational policies and laws are also unable to adapt in a timely fashion to the In presearch, we endeavored financial crisis changes in this dynamic environment and framework. This study hopes to clarify the Taiwanese 2* deletermazio by examining the in the Taiwanese elementary school education system's financial crisis, discussing relevant subsystem relationships and effects. Aiming to study complex, dynamic, and mutually-linked factors that are simultaneously causes [hyphen] the financial and effects, this study uses a comprehensive system method to discuss frameworks the financial system Period Moreover, we sought to discover for that elementary school education might need, discovering possible pathways to ameliorate the situation, by period By making [redundant] using the system dynamic model to simulate relevant policies, suggesting practical policy

recommendations for educational policymakers to reference, ultimately hoping to have a positive impact on the future development of Taiwan's Elementary School Education. In Taiwan

Table 1 Taiwan's Allocation Ratio of Educational Funding between Each Government Level from verbose! Taiwanese [comma] 1975 - 2005 (unit: %) Table 1 Table 2005(100:+0/) ublic educational expenditures h

Fiscal Year	Total	Central Government	Taipei City Government	Kaohsiung City Government	Taiwan Provincial Government	Local Governments	
1975	100.00	13.42	14.02	-	20.33	49.52	
1980	100.00	17.05	14.93	6.04 ⁻	17.87	42.38	
1985	100.00	20.50	14.50	5.20	20.15	38.61	
1990	100.00	26.81	10.61	4.57	22.57	34.57	
1995	100.00	26.63	8.56	4.65	21.70	37.53	
2000	100.00	28.69	12.01	5.12	8.39	45.35	
2005	100.00	30.73	11.67	5.37	<u> </u>	51.78	

Table 2 Taiwan's Allocation	Ratio of Fo	lucational Funding	hetwo	een Each S	chool Level from	2000_5+
Q	,	2005 (unit: %)		redundant	[comma]	Vei

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Table 2 The ratio of total educational expenditure at all level of schools in Taiwan from 2000-2005 (unit:%) (Which one if perfect?) [Comments such as this do not belong in

Year	Total	Preschool	Elementary School	Junior High School	High School	Vocational High School	College	University	Others
2000	100	2.90	32.86	18.45	20.58	10.32	4.48	19.84	0.57
2001	100	2.73	32.06	16.00	9.78	7.05	1.74	30.10	0.55
2002	100	3.04	31.09	15.50	9.67	5.34	1.19	32.79	0.56
2003	100	2.98	31.22	15.25	9.72	5.26	1.25	32.72	0.60
2004	100	3.95	25.04	13.92	11.06	5.70	0.95	38.64	0.73
2005	100	1.10	37.86	20.36	8.48	5.15	0.20	25.91	0.94

3* For the sake of brevity, use headline grammar (omit "the") in captions and headers.

1* Use sentence-style capitalization in captions. 2* There is a subtle difference between the adjective "educational" and "education" used as an adjective. The form ending in "-al" frequently means "instructive" or "informative"; whereas, the "-tion" form refers more specifically to a system.

the "-tion" f	form refers more 3	specifically to a syste	<i>p</i> 1.		
1	A System Dynamic	s Model of the Elementary S	School Education System Fina	ncial Crisis in Taiwan	
a B	[Surtax]	the second	[Syntax]	of Flementary 2008/04/02	
		Taiwanese	Table 4 Comparison	of Elementary	
1*	-	on Table of Per Capita	2 School Educational I	Funding Proportion of expenditu	
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in	Country	Capita (US\$)	Country	Ratio	
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bottom for	Japan Germany	<u>5,771</u> 4,237	Britain Holland	22.9 22.0	
bottom margin for	Hong Kong	3,793	Australia	21.4	э
Calamitica 1	Korea Singapore	3,714 2,426	France OECD average	19.3	
Transisions -	Taiwan	2,420	United States	17.4	
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him			Taiwan	3.95	7
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7			is has always attracted the		ſ.,
	worldwide	have on education system	•	attention of various	
cou	ntries around the wor	d. The issues that schola		of education(Ducan et al,.	
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200	4) and educational fi	nances Fisher, 2004; Dur	combe & Yinger,1998). T	here are three main points	
		system focuses on thr		duce verbosity]	
in li	iterature regarding Ta	aiwan's elementary schoo	l education system, First, i		
	Sinan	icing [Spice] - [Spi	(space)	[space] [no space]	
(1) nati	onal education finan	eial policies(Cheng, 2006	;Lin, 2005; Chen,2004; Su		3
		(2) [redundant		final ., (period before comma, then	$\left\{ \right\}$
Seco	ond, issues that deal		acher human resources(Lin	n, et al., 2007; Wu, 2006;	e)
No Che	1 2005 M	Space J	(1) (1) (1) (1)	and (3)	
nomina Che	en et al., 2005; Yang	et al, 2005; Chang, 2005	; Chang, 1991); third, issue	es exploring the financial	
besore cap	shilition and advantia	He We	al correspondents (Terma 20	04. Chan 2002h 2002-	
Catal. Cap	Timma)	ing autoing burden of loc	cal governments (Tseng, 20		
TRACE P	1	en 2001h. Tseng & Wu	2000; He et al. 2000). In	tually actuality Taiwan's	
	and a state of the	the	2000, ne et al. 2000). ma	actuanty, Parwan s	
eler	dundart		are affected by factors suc	th as the supply and	
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den	nand of teachers, the	number of retirees, and th	e government's financial o	capability. The	
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afor	rementioned factors a	are interconnected and have	ve a cause and effect relation	onship, yet prior literature	nj
	icks analyses	via	research adoF	ts n examine	
fail	s to analyze the situa	tion through systems. The		olistic perspective to look at	
		in a sin a sin	the Taiwanese in	dundant	
			by Taiwan's elementary se	hool education system.	
The s	following sub-section	16	·	and the	
λ ^{1-β1}	s section will introdu	ce the characteristics of T	aiwan's elementary schoo	l education and the	
	ocation ratio of educa	tional funding			
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Table 2 A	mourison of To	vimanese elementary	education Funding	with that of six other	
actie 2 la	ountries in 2004	Contraction of Contraction of A	Adam		
CI CI	punities of 2001	to its The internance of a	mention education of	unding proportion to total	
Table 4 C	emparison of rat	10 05 Tanwanese ere	to address contaction of		
	xpenditures with	that of other OEI	- D harrons		

1 * "Besides" is colloquial. 2* "Education" is an uncountable noun; therefore, it cannot be preceded by an indefinite article.

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan

2008/04/02 e, they Countries in East Asia are influenced by Confucian philosophical thought and heavily emphasize [diction] period Moreover emphasis observed education. This can be seen in Taiwan, Japan, South Korea, mainland China, and Hong Kong, Chinese SPACE In addition to 1 * societies especially stress national education (Han, 2003). Besides mainland China, other countries lack [comma] natural resources such as steel and iron, petroleum, natural gas, and coal. The development of human enablina has been resources was an important factor in allowing these countries to rapidly develop their economies. Both intion the government and the people viewed education and manpower development as the main force behind national redundant the nation's long-termidevelopment (Chang, 1991). The development of Taiwan's elementary school VT education was influenced by factors such as history, culture, traditional thought, location, law, and educational policies. Its characteristics includes the following six items. Speriod at end of paragraph (redundant) () Law-regulated Compulsory Education Keep headers & sub-headers as concise as possible According to provision 160 of Taiwan's constitution, all children aged six to twelve are required delete color consist of These to receive basic tuition-free education. There are nine years of national compulsory education, the first redundant Reduce six are elementary school education while the latter three are middle school education. Education is Anna - not s.c. rerbosity This education mainly public in nature, which allows everyone to have equal educational opportunities? this directly redundare protects an individual's rights and indirectly facilitates the opening and improvement of society. redundent) (2). High Prevalence Rate Under the premise of national law and a traditional cultural emphasis on education, the prevalence Fedundant send rate of national education is high in Taiwan. Even parents from low-income households attempt to let to school their children obtain national education. According to the Ministry of Education's statistics, when the government actively promoted a six-year national education in 1951, the enrollment rate of children 2* compulsory aged six to twelve was 81.49%. When national education was extended to nine years in 1968, the comma increased concise enrollment rate of school-aged children had risen to 97.67% and the government invested large liction instruction both verbose amounts of manpower and capital in order to improve the quality and quantity of education. In 2005,

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elementary-age children being than (Verbose redundant) the net enrollment rate of Taiwanese receiving an elementary school education was 97.98%, higher that (delete space) space 95.7% the world-wide average of 83.7% and the average among developed countries, 95.7% (Directorate-

* See Note 3, p.3. 2* This sentence needs at least one citation at the end. A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan brackets 2008/04/02 1 General of Budget, Accounting and Statistics (DGBAS), Executive Yuan, R.O.C., 2004). The increased concise enrollment rate of school-aged children rose to 99.02% in 2006 (Statistics Bureau, MOE, R.O.C., 2008), diction redundants demonstrating citizenry once again showing the emphasis the Taiwanese government and people have placed on education in emphasis tablished [verbose] order to develop high-caliber human capital. This has set a solid foundation for the development of the national Taiwan's economy and created the well-known and admired Taiwan Miracle. Urban-Rural Dichotomy (3), Difference between Urban and Rural Locations [comma] since mployment migrate lities [diction] Job opportunities in Taiwan are concentrated in urban areas, Most rural families move to urban a better life. The areas in search of future prospects and opportunities. There is a serious population outflow in remote rdelete increasingly larger areas, forcing the scale of schools in urban areas to grow bigger and bigger and small schools in remote Insert citation (comma -) thereby ing areas to be consolidated, this creates an imbalance in educational development. According to research, 2* [comma] this dichotomy between leads to e in education in urban and rural areas in Taiwan face disparity regarding funding, teachers, resources and (apostrophe) facilities, matriculation ratio, and student academic achievement. Investing educational funds in remote deleterent because delete the low enrollment elementary schools is not economically beneficial) there are often too few students in these schools, difficult instruct which makes it hard for teachers to teach and students to have peer interaction and receive cultural MOE +0 stimulation. According the Ministry of Education's statistics, the scale of Taiwan's national middle and of the country redundant sentence 5-1 elementary schools are very different in different areas. Urban areas face the problem of "Large Scale, agr Scale Large Schools" (Large schools with large class sizes) while rural areas are troubled by "Mini-Move citation Elementary Schools" (Small schools with small class sizes) (Statistics Bureau, MOE, R.O.C., 2008) to insert Fredundant] disparity rom both point abo diction The difference between school operating scales is a result a continued lack of investment by the Spaces 1 government and inappropriate resource allocation. (Sun, 1998) redagogical/Instructional (4). Teaching Materials - One Guide Multiple Texts too verbose instructional [comma] The elementary schools in Taiwan have very diverse teaching materials but the continuity of the 0.00roalhes curriculum needs to be improved. Since the lifting of martial law in July 1987, diverse thoughts have mocratic gradually emerged. After the removal of strict restrictions on the press in 1988, the education (seni-) more oversedon movement in education democratic movement began to grow and numerous kinds of non-governmental educational reform 9/30

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan 2008/04/02 groups began to form. Starting from 1996, the preparation of textbooks was changed from the traditional model of having only one version of textbooks to a new validation model with one unified hyphen (hyphen (comme) thus guide but multiple textbook versions, allowing Taiwan to officially enter the "One-Guide Multiple-Text" era(Chen, 2006; Department of Elementary and Junior High School Education, MOE, R.O.C., 2008). In order to pursue diverse values, the government opened up the textbook industry to nonthereby independently written diction] governmental organizations, allowing non-governmentally-made textbooks to become official school when MOE Several texts textbooks as long as they were validated by the Ministry of Education. After many years of verbosity commal merely implementation numerous problems have arisen. For example, curriculum reform only focused on the revision of the capability index and neglected the preparation of teaching materials and the importance of and continuity of curriculum implementation. (5) Overemphasis of Intellectual Development danaling MOE on the basis of In 2000, based on the "Educational Reform Program of Action," the Ministry of Education perficiple Fredundant diction & syntax) reformed national education eurriculum and teaching by implementing the nine-year integrated read The new regulations for elementary schools stipulated 1* curriculum and seven learning fields, it also stipulated that the total amount of learning periods each [notice hyphens] that the total instructional time must be distributed between "field-" and "Flexibleweek in national elementary schools must be divided into "field learning periods" and "flexible earning national oration learning periods marks, also periods?'(Department of Elementary and Junior High School Education, MOE, R.O.C., 2008), as listed [hyphen] occupies about in Table 5. The language learning field takes up around 20% to 30% of the field learning periods while physical education, social studies, art and humanities, natural and life science and technology, Sill about mathematics, and integrated activities learning fields each take up around 10% to 15%. Table 5 shows that of field-learning consist of 83,3% to 90.9% of the total instructional periods in the proportion learning field periods take up of total learning periods in the lower, middle, and high liction the lower grades, 80. 6% to 89.3% in the middle grades, and 81.8% to 90% in the upper stages of elementary school; they take 83.3% to 90.9%, 80.6% to 89.3%, and 81.8% to 90% appears to overemphasize grades. (redundant) respectively. Overall, the learning curriculum overemphasizes intellectual development and neglects #2 Page Break (Do NOT separate a caption from its character and ethical development. table or sigure via page break.) Table 5 2007 Taiwan Elementary School Education Weekly Learning Period Distribution Table Weekly learning period distributions in Taiwanese elementary schools, 2007 aptions should use 10/30

2* In this sentence you are making a subjective judgment; therefore, hedging is needed to protect yourself from undue criticism.

capitalization

1 * I cannot find the details of this citation in your References.

	USE SERVER	uce sign	e capitalizati			Thyphen 2	2008	
<i>it</i>	Elementary School Level	Grade	Total amount of learning periods	Field- Dearning Periods	Percentage of Total Learning Periods Taken by Field Learning Periods	Flexible Dearning Periods	Percentage of Total Learning Periods Taken by Flexible Learning Periods	occupied
	Low	1,2	22-24	20	83.3%-90.9%	2-4	9%-16.7%	
=.	Middle	3,4	28-31	25	80.6%-89.3%	3-6	10.7%-19.4%	
Upper	High	5,6	30-33	27	81.8%-90%	3-6	10%-18.2%	
liction) (6).	Popularity		fficial Educat	ion Sav entation pment of el	e the word "popularity [hypher] lementary-school educat	for use in Tain ion the pe	in the explanation lan fredundant irents of elementar	y sester
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	e surveyed	about t	heir after-sch	ool, unoff	icial educational activiti	es (e.g. cra	m schools, and Tainan (urba	
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5	liction) G	rade !	evels Gra			Grade	Grade Devia	
10	ember of Tai	nan Citv	A 33	3 33	3 33 37	- 34	35	

2* Your generalization Stor your specific findings is inappropriate at this point in the report.

1* Revision: Number of students Elementary School B, Changhua County 2* Revision: Elementary School B, cram school enrollments

di m

	A System Dynamics M) odel of the F	lementary	Sehool Educ	ation System	Financial	Cuisis in To	income i
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1*	A Elementary School Cram School Education Ratio	90.9%	100%	90.9%	40.54%	91.18%	88.57%	0.2150
	member of Changhua County B Elementary School	33	34	33	33	35	37	
2*	B Elementary School Cram School Education Ratio	60.6%	58.8%	75.8%	78.8%	85.7%	73.0%	0.1052
on # helogy	Sub-standard educ Allocation Ratio of Educ The Education Basic L educational funding. In 2002 practice and became an importing to this law, was safeguarded; the combine the lower than that year's but three years. The proportion of	aw was imp mentation the Education ortant reform ned education dget estimat	elemented Sor Sinu mineduc onal budg Sor the tesyand it	on June 23 dget Alloca ational fina et from the should be 2	, 1999, and tion and M to the all central and the year 1.5% of the	L clearly's Ianagement Iocation of Llocal gov Jurthe e average	nt Law wa of education vernments income from ument expe	s put into s put into nal funding. should not the allocations om the past
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-	3. System Dynamics for Constraints 3.1 System Dynamics Desir System dynamics (SD) led by American scholar Jay	was develo	ped in 19	56 at MIT's	s(SD)	derived		Topy
	System Theory, Cybernetics	, Servo-Me	chanism,	Information	n Theory, I	Decision T	heory, and	l Computer –

Simulation. Forrester believed that every human action involves "change." Therefore, if one can clearly

1* Use "one can" very sparingly as a means of depersonalizing and objectifying your writing. This phrase can quickly become redundant. The passive voice of the verb is usually more appropriate. 2* Your repeated usage of "in <u>vear</u>" in reference to citations constitutes redundancy. The 1971 publication by Forrester seems to be missing from the References.

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan can be clearly illustrated) human 2008/04/02 Verb * illustrate the trajectory of change, one can improve the recognition and understanding humans have of tan be in all natural and societal dynamic processes (Forrester, 1961). An approach SD is a way to study and manage complex feedback systems and emphasizes the need to consider [diction] should be used momprehend undant a full and macroscopic overview of the entire system. One must use system thinking to understand all their respective speriod of the elements within the system and the interaction between the elements; then, one needs to use delays within should be implemented observe computer software modeling to show the relationship between the system's structure, policy, and delay, holistic the interactions between the elements, and the development and stability conditions of the holistic gain an augmented system in order to add to one's understanding of the nature of complex problems. The ultimate goal is courrence specific not to predict the happening of events but to thoroughly consider the system's holistic operational spaces Ficient process and its true nature in order to achieve the goal of system management(Coyle, 1996). (1961) thus 2 In 1961, Forrester applied SD to industry, creating industrial dynamics; he also applied SD to urban dynamics in 1969 (Forrester, 1969) and to world dynamics in (1971). In 1972, Meadows and authored (delete quote martis & italicize) others published "The Limits to Growth," which became an international sensation (Meadows 1972). subsequently wrote (Italics) (100) The Art, and Practice of the Learning Organization Peter Senge, published "The Fifth Discipline" in 1990 (Senge, 1990), which further pushed SD into the in both academia and the "real world." field of organized learning and allowed it to become a focus of attention in the academic and practical Reduce verbosity world. 3 System dynamics has been used in various industrial researches to explore system structures and of a system to improve the policymaking process. This methodology suggests that a system's behavior is caused by that system's structure, which could be interpreted by feedback loops, stocks and flows, time delays, growth lavoid redundancy) and non-linearity.18 For the long-term industrial development in a developing country, the underlying 4* both structure could evolve according to internal and external changes in the environment.19 SD is a useful 5* for advancing industrial development as well as assisting both methodology that not only advances understanding of the dynamic industrial development process, butreduce verbosity spaces] [comma] also helps governmental and industry policymaking. Having expanded from industry to the social sciences (Jan, 2007), SD has been SD went from an industrial field application and expanded to the social science field (Jan, 2007); its Spaces applied to various applications include management abilities, Organizational Strategy (Stata, 1989), Industry

* Research" is an uncountable noun; hence, it cannot (correctly) be made plural. Since the adjective "various" modifies only plural nouns, the most appropriate revision is "studies." 4* What does this "18" mean? Is it a citation by another system? If so, you must convert it to the style prescribed by the JORS stylesheet. 5* Same question & remarks as in Note 4.

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan [spaces]-Ino space] spaces 2008/04/02 Bconomy (Jan & Hshiao, 2004), Macroeconomics (Forrester, 1980), and global-level applications. e.g. tomma continued to examines D-related (" addition to the astrementioned Besides its widespread field of application, scholars have also continuously studied issues relating to spaces. reduce verbosity redundant SD. Some examples include the concepts and methods of SD(Hsieh, 1980), the study of model spreed Spaces Spalles. as well as construction (Jan, 2007), validity of models (Sterman, 1988), theory and practice, and case studies (Tarter spate Moreover; has been & Hoy 2004). There is research regarding SD being applied to education and human resource planning Tredundant [[period]] approach the quality of wellas or long-term dynamic financial system planning, Tartar & Hoy uses systems to evaluate elementary elhyphen redundant] Tredundant school education school quality(Tarter & Hoy, 2004).

3.2 Modeling

iction

The present research the Taiwaneses perspective axamine A This study uses the perspective of system thinking in order to look at the operation of Taiwan's Induencing redundant elementary school education financial subsystem. Ractors that influence the operation of the financial subsystem include the government's financial capabilities, education policies, teacher retirement regulations is well as roomia all of which requirements, and the number of retirees; these factors therefore affect the education system. Elementary-school teachers in Taiwan are currently facing a transitional period between new and old Redundant. You have already said this in this paragraph. retirement guidelines. This study looks at the system behavior of Taiwan's elementary school education hyphen) financial subsystem and analyzes the supply and demand of capital from local government's education SPACE expenditures development funds(LGEDF) and the application of pension funds. Then, issues such as the effect the regulations number of retirees has on education development funds and the effect retirement requirements has on pension needs are discussed and the elementary school education system financial dynamic model is constructed.

Keep sub-headers concise - not verbose. redundant pension-tund expenditures 3.2.1 Analysis of the Supply and Demand of Capital from LGEDF and the Application(or Performance) of Pension Funds Some sources of LGEDF include the general education subsidy from the Executive Yuan, the MOE targeted education subsidy from the Ministry of Education (MOE, R.O.C), and educational funding

pusaet

This examina allocations from local governments. The educational funding is calculated by looking at the basic For examples in 2004

education needs. Using 2004 as an example, the national educational funding was around \$14.643 Space billion USD (Statistics Bureau, MOE, R.O.C., 2008). The local governments shouldered 51% of the

* Identify the acronym PSPF. This is its first occurrence in this manuscript.

A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan Redundant centence 2008/04/02 maining total funding while the central government contributed the other 49%. One can see that the half of the This is too obvious to verbalize. Conserve your words. educational funding is should red by the central government. The four major categories regarding basic Thyphen T education needs are human resource expenses, government-financed pensions(GFP), government assumption plus consume the * shouldering of PSPFs, and administrative costs and capital expenditures. GFP take up 17% of total budget: however, the proportion continues [comme] & trend which educational funding and this number is continuing to increase annually, this increase might persist for semi-colon] [comma] many more years. Stop: 5/16/08

Taiwan's elementary school education is currently facing a transitional period between new and old retirement guidelines, resulting in an increase in the complexity of financial programming. The pension guideline reform in February 1996 changed pension plans from the totally governmentfinanced superannuation system to the "Contributory Pension Fund" that is to be contributed by the government as well as the participants (teachers). Accordingly, the Public Service Pension Fund (PSPF) started to pay the pension benefits based on the service years after new system adopted.

There are two sources for PSPF. The first is from salary deductions; the teachers shoulder 35% of the deduction while the LGEDF shoulders the other 65% of it. The second source is investment operating performance. The amount of pension accumulated is invested in the stock market, the credit market, or bank interest.

The payment of pensions for both GFP and PSPF is determined by the number of retirees. The number of retirees is the sum of the total amount of retired teachers that year while the decrease in number of retirees is determined by multiplying the rate of death to the total number of retirees.

3.2.2 The Effect the Number of Retirees has on Education Development Funds

More than ten years after Taiwan's educational reform, many education policies are still unclear. This causes instability in the educational job market and teachers were therefore unsure what to do. Many teachers who were over the age of fifty and had accrued over twenty-five years of teaching experience applied for retirement, resulting in a teacher retirement trend. With the increase in the number of retirees, GFP demand has skyrocketed and local governments are not longer able to

1* Identify the acronym PSPF. This is its first occurrence in this manuscript. 2* Move the full name to the previous paragraph, and enclose the acronym in parentheses. A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan [Redundant sentence] 2008/04/02 remaining total funding while the central government contributed the other 49%. One can see that the half of the This is too obvious to verbalize. Conserve your words.] educational funding is shouldered by the central government. The four major categories regarding basic (1)Thyphen (2)education needs are human-resource expenses, government-financed pensions (GFP), government assumption 1 * shouldering of PSPFs, and administrative costs and capital expenditures. GFP take up 17% of total educational funding and this number is continuing to increase annually; this increase might persist for < [Stop: 5/16/08] [Continue: 6/26/08] many more years. (redundant) Taiwan's elementary school education is currently facing a transitional period between new and old retirement guidelines, resulting in an increase in the complexity of financial programming. The Fredundant with later use initiated pension guideline reformin February 1996 changed pension plans from the totally governmentcommal financed superannuation system to the "Contributory Pension Fund" that is to be contributed by the 2* government as well as the participants (teachers). Accordingly, the Public Service Pension Fund (PSPF) basis of the years of service after the adoption of the began paying "Codundants (syntax) started to pay the pension benefits based on the service years after new system adopted. new system. The PSPF has [comma] Idelete Sor which men solution and being There are two sources for PSPF. The first is from salary deductions, the teachers shoulder 35% of comma] min underes from the deduction while the LGEDF shoulders the other 65% of it. The second source is investments deleted) the Junds being min operating performance. The amount of pension accumulated is invested in the stock market, the credit interest-earning bank accounts market, or bank interest. defined from are The payment of pensions for both GFP and PSPF is determined by the number of retirees. The Notice unphus in a given whereas, any number of retirees is the sum of the total amount of retired teachers that year while the decrease in semi-colon and eop number of retirees is determined by multiplying the rate of death to the total number of retirees. [More than one?] [sentence-style capitalization] *5 3.2.2 The Effect the Number of Retirees has on Education Development Dunds pouble More than ten years after Taiwan's educational reform, many education policies are still unclear, space This causes instability in the educational job market and teachers were therefore unsure what to do. who more than 25 Many teachers who were over the age of fifty and had accrued over twenty-five years of teaching thereby initiating a experience applied for retirement, resulting in a teacher retirement trend. With the increase in the to the extent that number of retirees, GFP demand has skyrocketed and local governments are not longer able to 15/15 3* Use only the acronym without parentheses. 4* Revision of sentences: More than ten years after the implementation of educational reforms in Taiwan, many policies remain unclear, a situation causing instability in the academic job

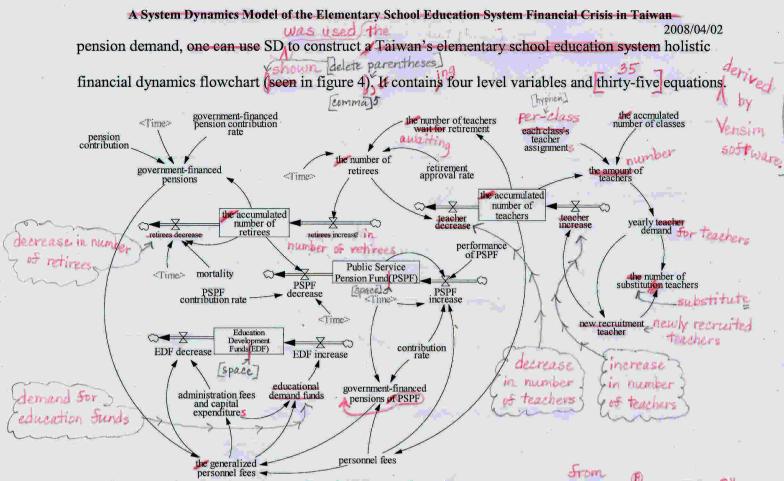
market and uncertainty among teachers regarding career decisions. See stylesheet: script 5* Delete "3.2.2" and go back to previous pages to delete all numbers on headers and sub-headers. A #T. A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan Such 2008/04/02 financially support the pension demand. The teacher retirement approval rate is lower than 50% in areas suffering from financial difficulties. This has caused many to panic and this problem has become societal a political issue. Facing pressure from society, the Executive Yuan specifically designed a retirement budget in 2004 that would help alleviate the pressure of the retirement trend by placing 924 million USD over three years into the retirement funds of the LGEDF. This was obviously an action that attempted to solve the problem without understandings its true causes. Therefore, the number of retirees and the education development fund form a balancing feedback loop, as seen in figure 2.

awaiting the number of teachers dline grammar illustrations. ral 1+ society pressure the number of pension funds demand government-financed pension funds Executive Yuan special retirement budget pension funds over budget finance capability education development funds More than Central government special budget [syntax] Figure 2 Bducation development funds and the number of retirees loop, Delete underlining. 3.2.3 The Effect Retirement Requirements have on Pension Demand Thyphen) The current retirement requirements for elementary school teachers is for the teacher to be at least 50 of age and Fedundant] fifty years old at to have accrued at least twenty-five years of teaching experience, otherwise known as the "Seventy-Five Guideline." The mandatory retirement age is sixty-five years old. Because of [comma] being Fredundant] financial difficulties, the government amended the retirement requirements in two ways. The first was to change the "Seventy-Five Guideline" to the "Eighty-Five Guideline." This meant that only teachers morethan 60 who had who were over the age of sixty and have accrued over twenty-five years of teaching experience or NE Har 30 10 had teachers who were over the age of fifty-five and accrued over thirty years of teaching experience were red when ment eligible for retirement. The second was to revise the retirement income-replacement ratio. There are [comma] many factors that caused the retirement trend among teachers. One was the educational reforms while both Fredundant quideline another was the excellent retirement requirements. Because pensions were calculated using the new and

1* A more concise way to express the material within []: There is an inverse relationship between the number of retirees and the cumulative number of teaching positions. (I reduced your 50 words to only 17.) 2* It is impossible to "delay" age, for this is something that proceeds at a steady rate from birth to death. A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan 2008/04/02 exceeded 100% old pension guidelines, the retirement income-replacement ratio was over one hundred percent, making a trend-facilitating factor TETERN it one of the factors that facilitated the retirement trend. constitution Redundant sentence - delete) Following the increase in the number of retirees, pension demand has exceeded its budget. The After the government changed government, under financial pressure, amended the retirement requirements by changing the "Seventy-Five Guideline" to the "Eighty-Five Guideline" and altering the income-replacement ratio. This has caused the number to teachers applying for retirement and those actually retiring to decrease. The effects are illustrated. the number of retirees has on pension demand can be seen on the left side of figure 3. Both of the of the type (redundant) also negative causal feedback loops are balancing feedback loops. Also, the number of retirees is influenced application by the retirement approval rate. When the amount of retirees increases, the cumulative number of 1*teaching positions decreases. As the number of teaching positions increase throughout the years, the Concurrentw number of teachers awaiting their retirement increases as well. At the same time, as the number of comma) retirees increases, the amount of teachers awaiting retirement decrease. Therefore the number of shown retirees and the amount of teachers waiting for retirement is a negative causal feedback loop, as seen on Tai wanese [hyphen] priainally the right side of figure 3. In 2006, there were originally 4500 elementary school teachers who applied Due to for retirement in Taiwan. Because there was an 18% change in the prime rate, 14% of the teachers continue working; hence terminas utimately chose to remain teaching and only 3890 teachers applied for retirement in the end. Use headline the accumulated number of teachers income-replacement ratio grammar: Dmi the" in such illustrations the number of teachers retirement 2* etirement age the number of retirees pension funds over budget + pension funds retirement approval rate Figure 3 A Cause-and-Effect Loop between Retirement Requirements and Number of Retirees Figure 3 Retirement requirements and the number of retirees interaction loop (which one is better) redundant/verbose, 3.2.4 Elementary School Education System Financial Dynamic Model

Combining the capital supply of the LGEDF, the analysis of pensions, the effect the number of retirees has on the education development fund, and the influence retirement requirements have on the

1 * Figure 4 Integrated Slow diagram of Financial dynamic model (from Vension) 2* Use the superscript at the end of the brand-name: Vension®; also add this software to the Reference list.



 1 * Figure 4 Taiwan's elementary education system financial dynamic model (by Vensim software).

 Figure 4 Integrated flow diagram of the model (by Vensim software). (Which one is better?)

 Delete underlining)

4. Results and Discussion

4.1 Simulation Results

Stop: 6/29/08

Taiwan's elementary school education financial supply-and-demand system is mainly comprised of key factors such as the cumulative number of teaching positions, the accumulated number of retirees, the PSPF, and the education development fund. Its overall structure includes time delay • Information feedback and dynamic complexity relationships. This study used Vensim software to construct the quantitative model and simulation analysis. Because the PSPF started impacting human capital and the educational fund system after it was established in 1996 and combined with the fact that all current teachers will retire before 2040, the simulation period for this study is from 1996 to 2040. **4.1.1** GFP Simulation or (GFP Trend) (which one if better?) A System Dynamics Model of the Elementary School Education System Financial Crisis in Taiwan

The authors wish to express appreciation to Cheryl for your editorial assistance.

Dr. Cheryl Rutledge, Department of English, Daleh University

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1# AT the end of the articles reservices should be instead (uniumbered) MAY 09 2008 ordered alphabetically by author name." ("Instructions for Authors"/Script Requirements excerpt from Item #11) One of your sample articles did not observe this prescription you consulted the wrong example instead of observing the Instructions. (3)
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2* "References to internet sites must be given in brackets in the text; not in the reference list." (Instructions for Authors/Script Requirements/Item#12)
11 k What kind of spurce is this? The style might need revision, [APA Manual, 5thed., p.1]
4* What kind of source is this? The style might need revision. APA Manual, 5thed., p.11 5* Be informed that "Study of" is redundant when placed at the beginning of a title; "Discussion of"
likemise.

1* See Note 5, p. 31 (the previous page), Likewise for "Investigation of." 2* See Note 2, previous page.

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