«Note»

Figures for Main Relationships and for Business Cycles in Kamiryo Endogenous World Table (KEWT 1.07) Data-Sets 1960–2005 by Country and by Sector

Hideyuki Kamiryo (Received on April 23, 2007)

This note is composed of two volumes: **M** for *main* relationships and **B** for *business cycles*. These figures use my data-sets of nine counties 1960–2005, by country and by sector. Each figure is composed of three pages: (1) Russia, China, Korea, (2) Japan, the US, Australia, and (3) India, Brazil, Mexico. The original data source is IFSY and GFSY, IMF. Such countries as Russia and China shifted previous nati>nal accounts system to the SNA 1993 and thus, the periods are shorter than those of other countries. The data of the above figures in this note are simultaneously published in *Journal of Economic Sciences* 11 (Sep, 1). I will increase the number of countries in the near future if I could get continuously budget surplus/deficit and government gross investment by country in IMF data.

This is because there are no data-sets that publish capital stock and returns or rents by country and by sector. Penn World Table stopped publishing the capital-labor ratio after 1995 (or, at the time when PWT published PWT 6.1 and PWT 6.5). OECD and the Jorgenson researchers will continue to publish capital of the business sector in the future. Nevertheless, I point out that it will be difficult for statistics and econometries to estimate capital and returns at the macro-level if the estimation starts with micro data. The reason comes from the fact that the macro-level data and the micro-level data cannot be consistently estimated. My data, model, and methods for estimation go together. My

Papers of the Research Society of Commerce and Economics, Vol. XXXXVIII No. 1 methods depend on my endogenous growth model that integrates, under the discrete case, national accounts and the Cobb-Douglas production function. My data, model, and methods are based on national disposable income *NDI* (which is output *Y* in my model) or the sum of consumption and saving, instead of *GDP*. This is justified when I apply a labor function of consumption to my model and methods. If wages and returns are estimated so that the sum is equal to *NDI*, the data-set of an economy holds consistently, where capital and returns or rents are also estimated at the macro-level and furthermore by sector based on accounting identity except for the ratio of the discount rate of consumption goods and that of saving (for a preliminary discussion, see Kamiryo (IARIW, 2006 that uses the 30 country data-sets by sector 1995–2004).

A problem lying in the SNA is that wages or compensation and operating surplus in GDP are actual but in vague to consumption and saving. It is difficult to prove annual ex-post equilibrium by using the data-set based on GDP. It is easy to prove the ex-post equilibrium by using the data-set based on NDI. Furthermore, it is easy to prove ex-ante equilibrium, once the Cobb-Douglas production function is settled, by using the data-set based on NDI, where my model measures the transitional path of all variables endogenously over time (helped and verified by recursive programming). My data-sets are theoretical (not actual) except for some current/initial values (L, S, C, ΔK —before dividing investment into qualitative and quantitative—, S-I, S_G - I_G) from IMF. My data-set clarifies the relationship between ex-post set at the current situation and exante set at convergence, using equations, where variables at the current situation are compared with variables at convergence. The data-set by year shifts the Cobb-Douglas production function. The ex-ante data-set by country uses each fixed Cobb-Douglas production function.

PS: For data, see tables in *Journal of Economic Sciences* 11 (Sep, 1). For future perspectives and for global rules, see a summary at the end of the above journal.

Table A-1 Notations of values and ratios of the total economy as a base

L	Labor or population	Y_G/Y	The ratio of government NDI to the total economy NDI	
n	The growth rate of population	K_G/K	The ratio of government capital to the total economy capital	
BOP=Ex-Im	Exports less imports; BOP in a narrow sense= $S-I$	alpha	The relative share of returns/rents/capital to NDI	
Bud deficit	Budget surplus/deficit= $S_G - I_G$ in the G sector	(r/w)	The ratio of the rate of return to the wage rate	
ΔK_{GROSS}	Gross capital investment; I GROSS	w=W/L	The wage rate (for convenience, I asssume $w=w_G=w_{PRI}$)	
Depreciation	Capital consumption	gw	The growth rate of the wage rate	
ΔK_{NET}	Net capital investment after depreciation; I_{NET}	gr	The rate of change in the rate of return	
C	Consumption	k=K/L	The capital-labor ratio	
S	Saving; net saving	$K=K_0+\Delta K$	Capital as the sum of the previous stock plus net investment	
Y=NDI	National disposable income=C+S	$\Omega = K/Y$	The capital-output ratio, where output=NDI	
W=(1-α)Y	Compensation/wages; alpha is the relative share of labor	TFP	Total factor productivity as an input stock= $k^{(1-\alpha)}/\Omega$	
$S_G=Bud+I_G$	Government saving= $(S_G - I_G) + I_G$	g _{TFP}	The growth rate of TFP	
v=Y/L	Per capita NDI	$\mathbf{g}_{\mathbf{k}}$	The growth rate of the capital-labor ratio	
	The growth rate of per capita NDI	g _A	The growth rate of tech. progress $g_{A}(t) = i (1 - \beta(t)) k(t)^{\alpha - \delta(t)}$	
i=I/Y	The ratio of net investemnt to NDI	g_A/g_{TFP}	The ratio of g_A to g_{TFP} ; if it is 1.0, alpha is constant over years	
θ=i/s	The ratio of net investment to saving	g_w/g_y	The ratio of g_w to g_y ; if it is 1.0, alpha does not change.	
c=C/Y	The ratio of consumption to NDI	$B^* = (1-\beta^*)/\beta^*$	The ratio of qualitative to quantitative investment at convergence	
(rho/r)	The consumption coefficient. rho is time preference	e. β [*] =beta [*]	The ratio of quantitative investment to total net investemnt	
r=α/Ω	The rate of return; the ratio of returns/rents to capital	$g_A^* = i(1-\beta^*)$	The growth rate of tech progress at convergence	
r_{CB}	Central Bank discount rate or the market rate	s-i=BOP/NDI	The ratio of $BOP = (S - I)$ to NDI	
$c_{CB} = r/r_{CB}$	The coefficient of financial asset neutrality	s _G -i _G =Budget	The ratio of Budget= $(S_G - I_G)$ to NDI	
delta	A paramete that neutralizes diminishing returns to capital	s=S/NDI	The ratio of saving to NDI or the saving rate	
1/λ	The years for convergence; $1/\lambda = 1/(1-\alpha)n + (1-\delta)$	Ω_{G} Ω_{G}	The capital-output ratio of the government sector	
sigma	The elasticity of k w.r.t. (r/w) $\eta=(\Delta k/k)/(\Delta(r/w))/(r$	·/w) Ω _{PRI}	The capital-output ratio of the private sector	
Notes:				
(1) My framework of BOP as exports net, (S-I)=(S _G -I _G)+(S _{PRI} -I _{PRI}), is based on NDI., where budget deficit (S _G -I _G) equals Taxes less C _G .				
Here NDI is actually domestic disposable income since we cannot obtain factor income from abroad by country in IMF data. My framework is				
consistent with the framework of Rudiger Dornbusch (1980, pp.19-28) based on GNP or GDP. I will discuss this issue in Kamiryo (IARIW, 2008).				
(2) For China and Russia, $(rho/r)=1.8075$ * $e^2-2.2549$ * $e+1.4688$. For Japan, $(rho/r)=1.4672$ * $e^2-2.0.9273$ * $e+0.6983$. For the US, $(rho/r)=3.0095$ * $e^2-3.0426$ * $e+1.4193$.				

Table A-2 Notations of values and ratios by sector: the government and private sectors

(3) For (r/w) by country and by sector, use 'goal seek' to (r/w) as a goal, by making K=kL (where $k=(\alpha/(1-\alpha))/(r/w)$) equal to $K=K_0+\Delta K$. (r/ho/r) is definitely an external parameter. But, (r/ho) is an external parameter only if K=kL ($(\alpha/(1-\alpha))/(r/w)$) is not connected with $K=K_0+\Delta K$.

(rho/r)=rho/r The utility/consumption coefficient of the total economy	g _{TFP} The growth rate of TFP in the total economy
(rho/r) _G =rho _G / The utility coefficient of the government sector	$g_{TFP(G)}$ The growth rate of TFP in the government sector
(rho/r)PRI The utility coefficient of the government sector	g _{TFP(PRI)} The growth rate of TFP in the private sector
(r/w) The ratio of the rate of return to the wage rate	g _A The growth rate of tech progress in the total economy
(r/w)G The ratio of the rate of return to the wage rate in G	g _{A(G)} The growth rate of tech progress in the government sector
(r/w)PRI The ratio of the rate of return to the wage rate in PRI	g _{A(PRI)} The growth rate of tech progress in the private sector
k=K/L The capital-labor ratio of the total economy	g_A/g_{TFP} The ratio of g_A as the flow level to g_{TFP} as the stock level
k _G =K _G /L _G The capital-labor ratio of the total economy in G	$g_{A(G)}/g_{TFP(G)}$ The ratio of g_A to g_{TFP} in the government sector
k _{PRI} =K _P /L _P The capital-labor ratio of the total economy in PRI	$g_{A(PRI)}/g_{TFP(PRI)}$ The ratio of g_A to g_{TFP} in the private sector
TFP=k^α/Ω Total factor productivity of the total economy	i=I/Y The ratio of net investemnt to ntional disposable income NDI
TFP _G Total factor productivity of the government sector	i _G =I _G /Y _G The ratio of net investemnt to NDI in the government sector
TFP _{PRI} Total factor productivity of the private sector	i _{PRI} =I _{PRI} /Y _{PRI} The ratio of net investemnt to NDI in the private sector
$alpha = \Pi/Y$ The relative share of capital/rents of the total economy	g _A * The growth rate of tech progress at convergence
$\alpha_G = \Omega_G \cdot r_G$ The relative share of capital/rents of the G sector	g _{A(G)} * The growth rate of tech progress at convergence in the G sector
$\alpha_{PRI} = \Omega_{P} \cdot r_{P}$ The relative share of capital/rents of the PRI sector	g _{A(PRI)} The growth rate of tech progress at convergence in the PRI sector
r=∏/K The rate of return of the total exconomy	B* The ratio of qualitative to quantitative investment at convergence
$r_G = \Pi_G/K_G$ The rate of return of the government sector	BG* The ratio of qualitative to quantitative investment at convergence in G
r _{PRI} = $\Pi_{\text{IIPI}}/K_{\text{PRI}}$ The rate of return of the private sector	B _{PRI} * The ratio of qualitative to quantitative investment at convergence in PRI
σ=η(k/(r/w)) Elasticity of substitution of the total economy	delta A paramete that neutralizes diminishing returns to capital
σ _G Elasticity of substitution of the government sector	delta _G A paramete that neutralizes diminishing returns to capital in G
σ _{PRI} Elasticity of substitution of the private sector	delta _{PRI} A paramete that neutralizes diminishing returns to capital in PRI
gy The growth rate of per capita NDI in the total economy	$1/\lambda$ The years for convergence of the total economy: λ is conv. coefficient
g _{y(G)} The growth rate of per capita NDI in the G sector	$1/\lambda_G$ The years for convergence of the G sector: λ is conv. coefficient
g _{y(PRI)} The growth rate of per capita NDI in the PRI sector	$1/\lambda_{HPI}$ The years for convergence of the PRI sector: λ is conv. coefficient
Notes:	

(1) By an accounting identity, expenditures C_G equals wages W_G in the government sector: $C_G = W_G$, where saving equals returns, $S_G = P_G$. By setting $w = w_G = w_{P_G}$, the share of government labor to labor is settled: (1) $(rho^2/r_0) = 1,0,$ (2) w = r(r/w), (3) $L_G = L(W_G/W)$, and (4) $w = w_G = W_G/W$. (2) By comparing each of values and ratios of the total economy, the government sector and the private sector, economic and fiscal policies are evaluated. Iters that the review of the values and ratios of the total whole economy is not enough to clarify the real movements of economic and fiscal policies. Papers of the Research Society of Commerce and Economics, Vol. XXXXVIII No. 1

Contents of two table series in Kamiryo Endogenous World Table (KEWT 1.07)

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- Figure M2 The rate of change in the difference between saving and net investment by sector
- Figure M3 The growth rate of per capita output by sector
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- Figure M5 The growth rate of net investment to output by sector
- Figure M6 The growth rate of net investment $I=\Delta K$ by sector
- Figure M7 The ratio of quantitative investment to investment at convergence beta* by sector
- Figure M8 The growth rate of technological progress in flow at convergence g_A^* by sector
- Figure M9 The growth rate of technological progress in TFP, g_{TFP} , by sector
- Figure M10 delta as a parameter that neutralizes DRC at the current situation by sector
- Figure M11 The years for convergence 1/lambda ($\lambda = (1-\alpha)n + (1-\delta)g_A^*$) by sector
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For Business cycle Tables, where output=national disposable income:

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- Figure B2 The relative share of capital, the rate of return, and the growth rate of net investment in the private sector
- Figure B3 The relative share of capital *alpha* by sector and the rate of return in the government sector r_G
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- Figure B6 Trend of the relative share of capital in the private sector and its regression equations
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- Figure B8 Business cycle of the private sector derived from net investment in the private sector, considering the trend of *alpha* in the private sector
- Figure B9 Investment and consumption, $\mu = K/C$ and the marginal $\Delta \mu = \Delta K/\Delta C$

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- Figure B15 Multiplier and Consumption-Multiplier versus the growth rate of investment as an indicator of business cycle in the short run
- Figure B16 Turning point of business cycle using the propensity to consume: compared with consumption multiplier and the marginal capital-output ratio

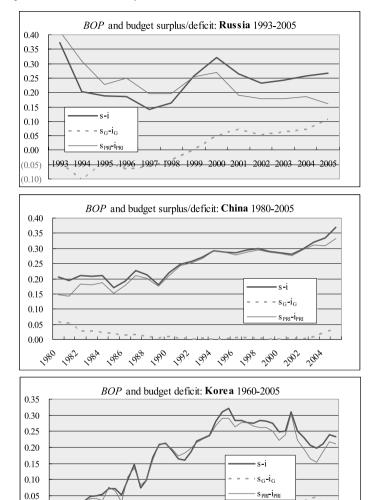
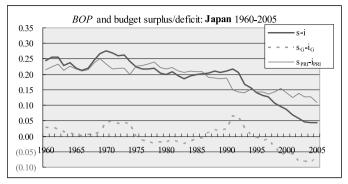


Figure M1 The difference between saving and net investment divided by output by sector (1)

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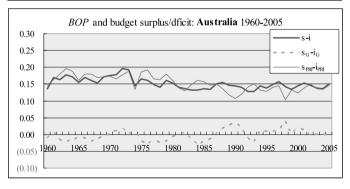
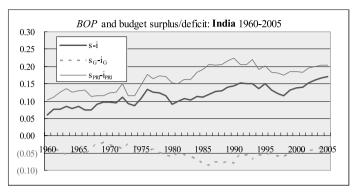
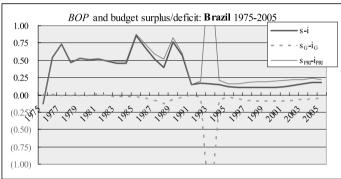


Figure M1 The difference between saving and net investment divided by output by sector (2)

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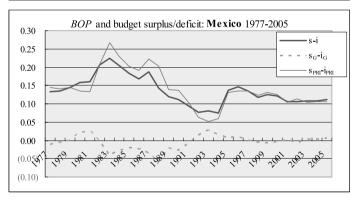
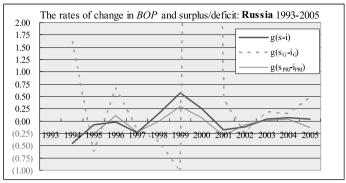
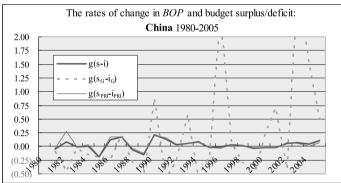


Figure M1 The difference between saving and net investment divided by output by sector (3)

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Endogenous World Table (KEWT 1.07) Data-Sets 1960–2005
by Country and by Sector





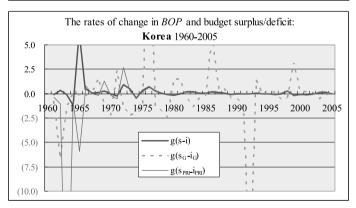
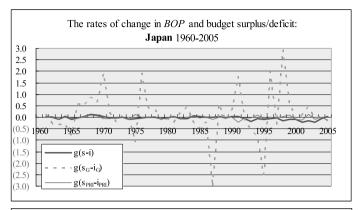
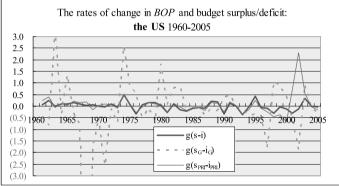


Figure M2 The rate of change in the difference between saving and net investment by sector (1)





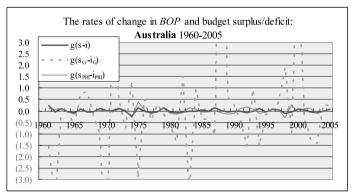
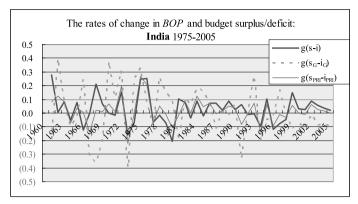
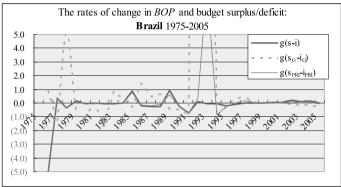


Figure M2 The rate of change in the difference between saving and net investment by sector (2)

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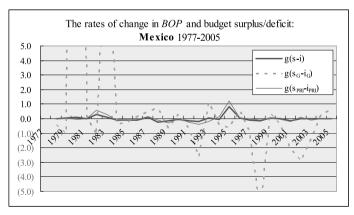
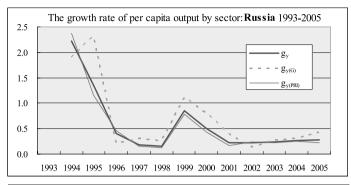
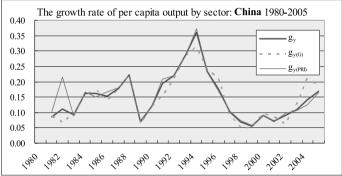


Figure M2 The rate of change in the difference between saving and net investment by sector (3)

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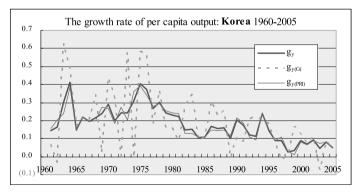
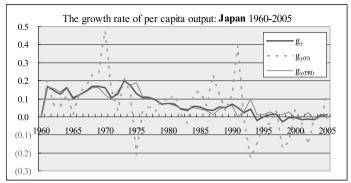
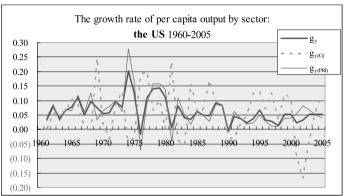


Figure M3 The growth rate of per capita output by sector (1)

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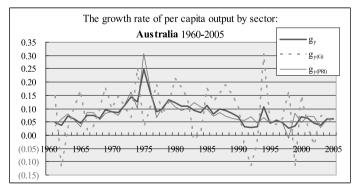
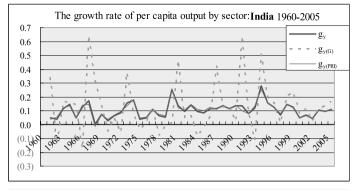
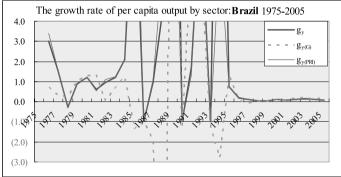


Figure M3 The growth rate of per capita output by sector (2)





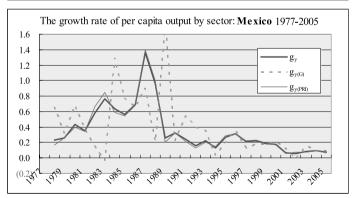
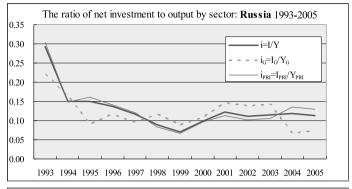
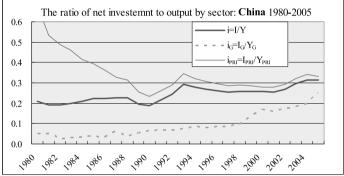


Figure M3 The growth rate of per capita output by sector (3)

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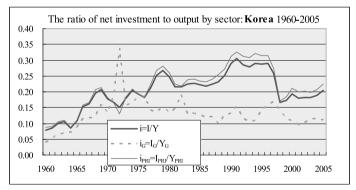
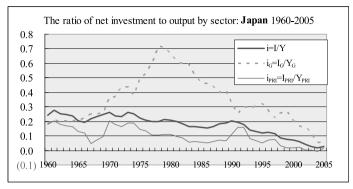
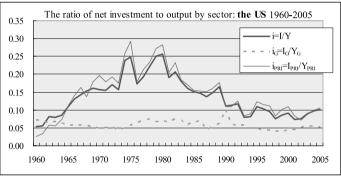


Figure M4 The ratio of net investment to output by sector (1)





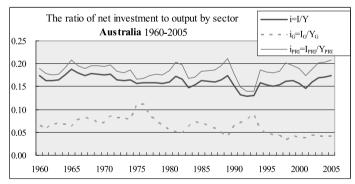
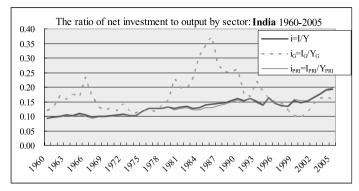
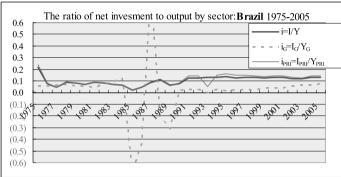


Figure M4 The ratio of net investment to output by sector (2)

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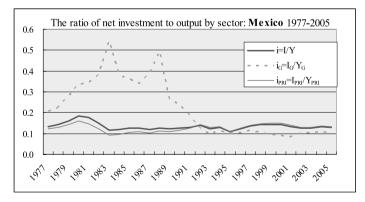
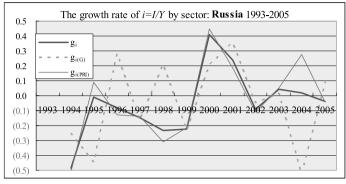
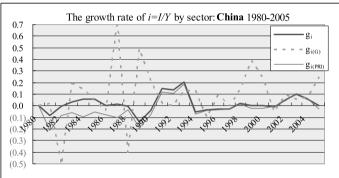


Figure M4 The ratio of net investment to output by sector (3)





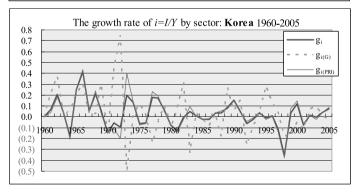
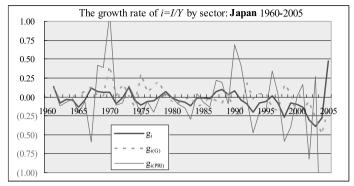
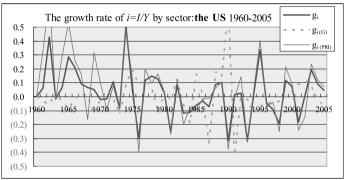


Figure M5 The growth rate of net investment to output by sector (1)





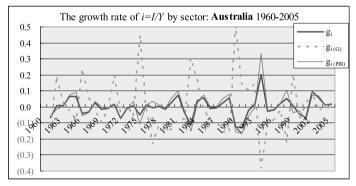
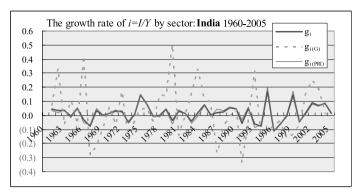
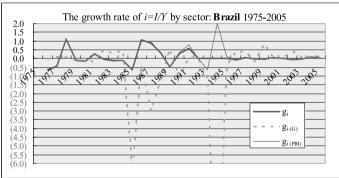


Figure M5 The growth rate of net investment to output by sector (2)





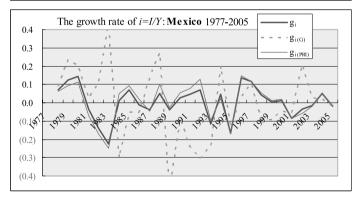


Figure M5 The growth rate of net investment to output by sector (3)

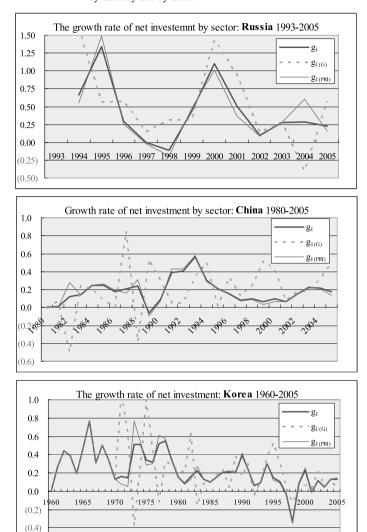
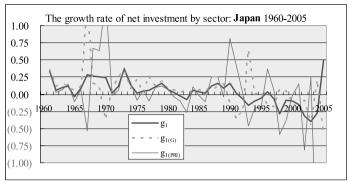
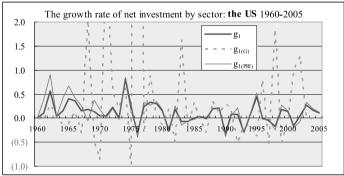


Figure M6 The growth rate of net investment $I=\Delta K$ by sector (1)

(0.6)





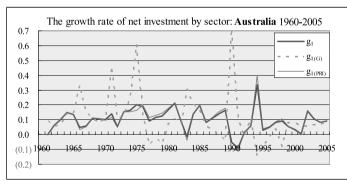
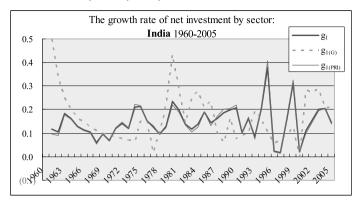
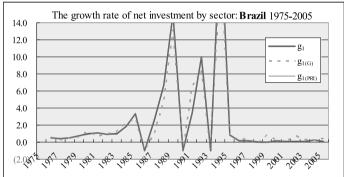


Figure M6 The growth rate of net investment $I=\Delta K$ by sector (2)

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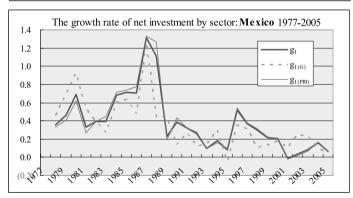


Figure M6 The growth rate of net investment $I=\Delta K$ by sector (3)

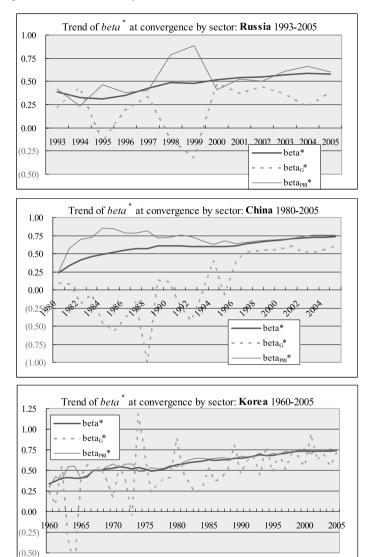
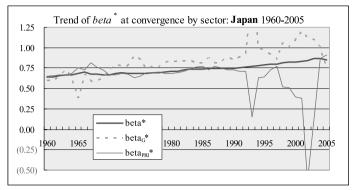
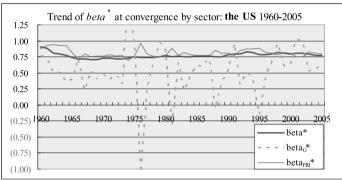


Figure M7 The ratio of quantitative investment to investment at convergence \textit{beta}^* by sector (1)





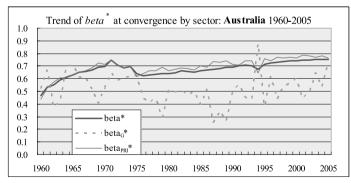
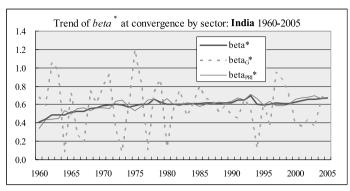
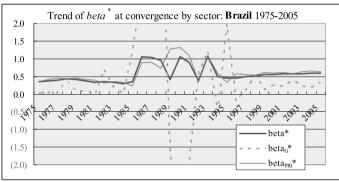


Figure M7 The ratio of quantitative investment to investment at convergence beta* by sector (2)





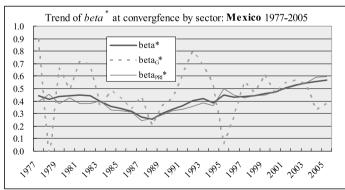
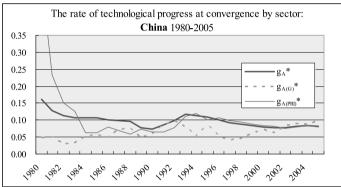


Figure M7 The ratio of quantitative investment to investment at convergence beta^{*} by sector (3)

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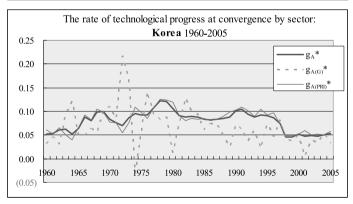
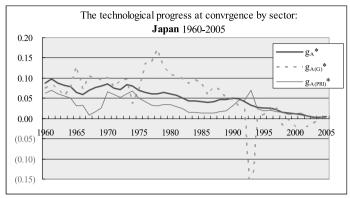
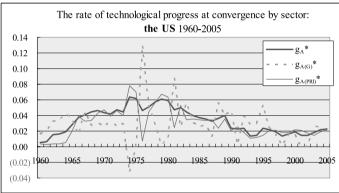


Figure M8 $\,$ The growth rate of technological progress in flow at convergence g_A^{*} by sector (1)





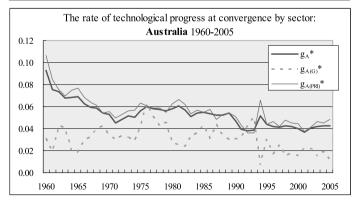
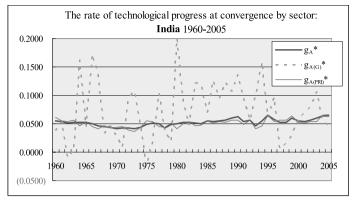
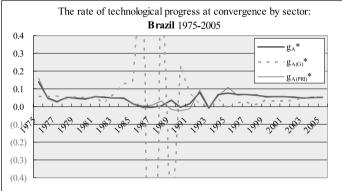


Figure M8 $\,$ The growth rate of technological progress in flow at convergence $g_{_{\!A}}{^{^{\circ}}}$ by sector (2)

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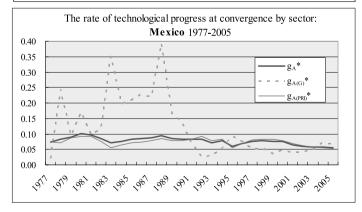


Figure M8 The growth rate of technological progress in flow at convergence $g_{A}^{\ \ \ }$ by sector (3)

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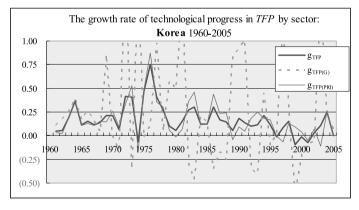
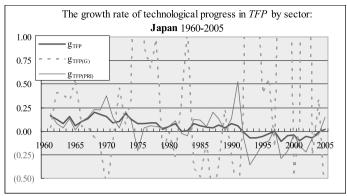
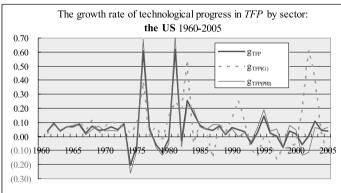


Figure M9 The growth rate of technological progress in TFP, g_{TFP} , by sector (1)

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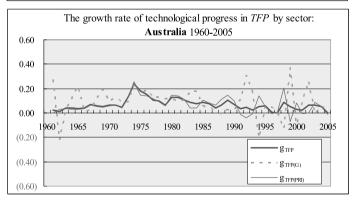
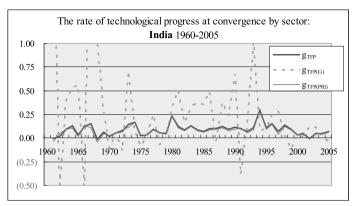
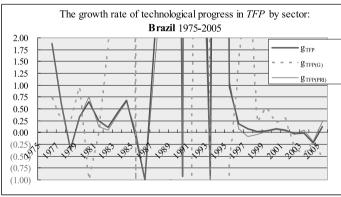


Figure M9 The growth rate of technological progress in TFP, g_{TFP} , by sector (2)





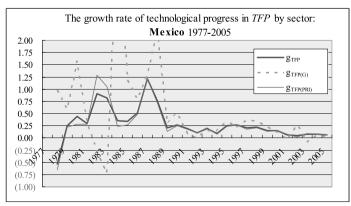
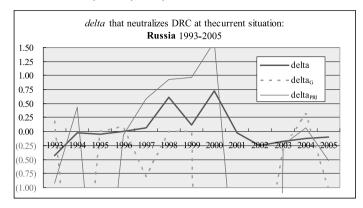
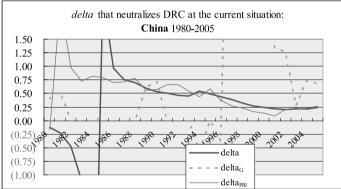


Figure M9 The growth rate of technological progress in TFP, g_{TFP} , by sector (3)

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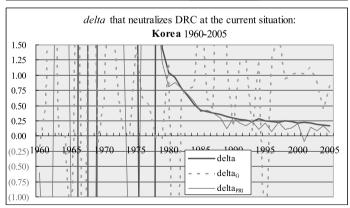
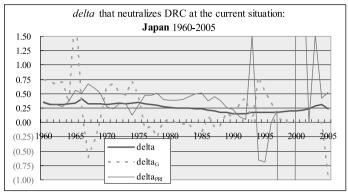
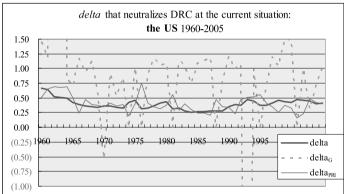


Figure M10 delta as a parameter that neutralizes DRC at the current situation by sector (1)





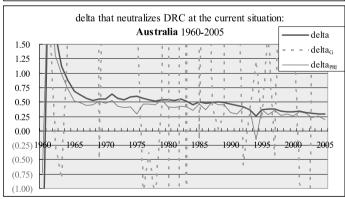
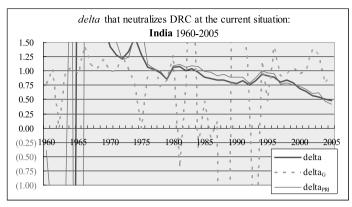
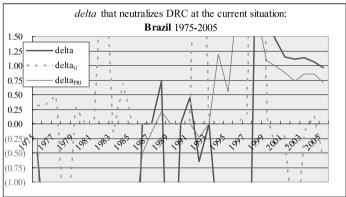


Figure M10 delta as a parameter that neutralizes DRC at the current situation by sector (2)

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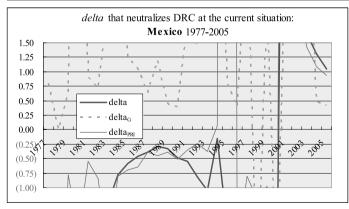
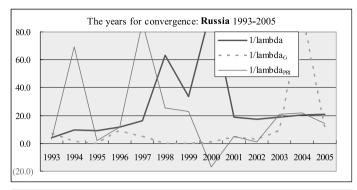
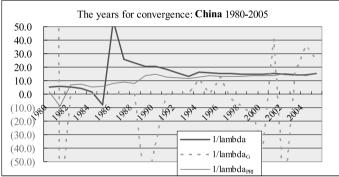


Figure M10 delta as a parameter that neutralizes DRC at the current situation by sector (3)





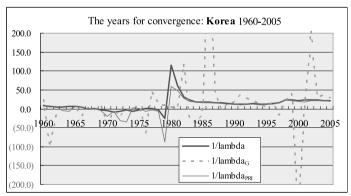


Figure M11 The years for convergence 1/lambda ($\lambda = (1-\alpha)n + (1-\delta)g_A^*$) by sector (1)

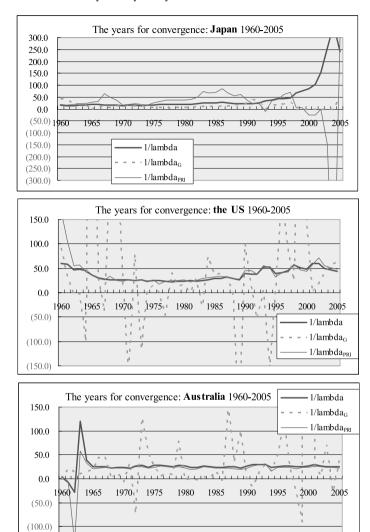
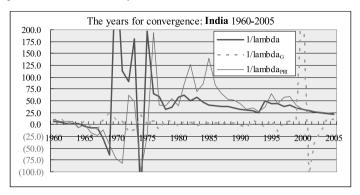
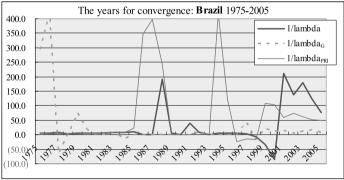


Figure M11 The years for convergence 1/lambda ($\lambda = (1-\alpha)n + (1-\delta)g_A^*$) by sector (2)

(150.0)

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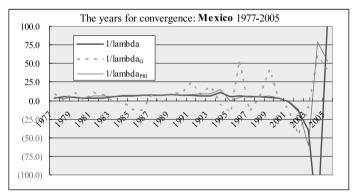
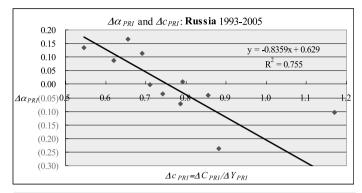
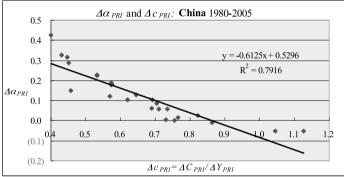


Figure M11 The years for convergence 1/lambda ($\lambda = (1-\alpha)n + (1-\delta)g_A^*$) by sector (3)

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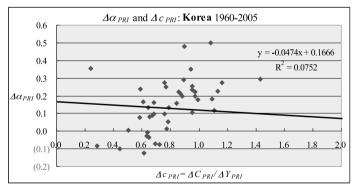


Figure M12 The marginal relative share of capital and the marginal propensity to consume, both in the private sector (1)

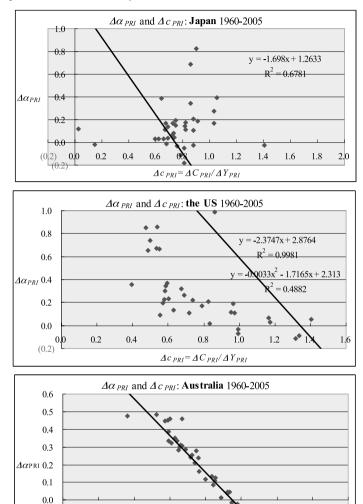


Figure M12 The marginal relative share of capital and the marginal propensity to consume, both in the private sector (2)

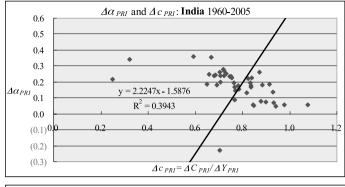
 $\Delta c_{PRI} = \Delta C_{PRI} / \Delta Y_{PRI}$

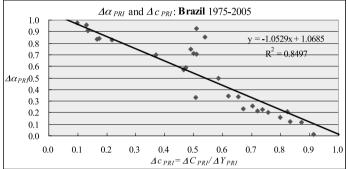
1.0525x + 0.9932

 $R^2 = 0.9999$

 $(0.1)^{0.0}$

(0.2)





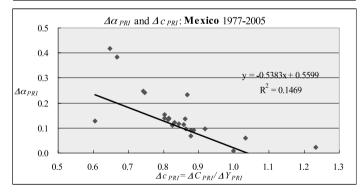


Figure M12 The marginal relative share of capital and the marginal propensity to consume, both in the private sector (3)

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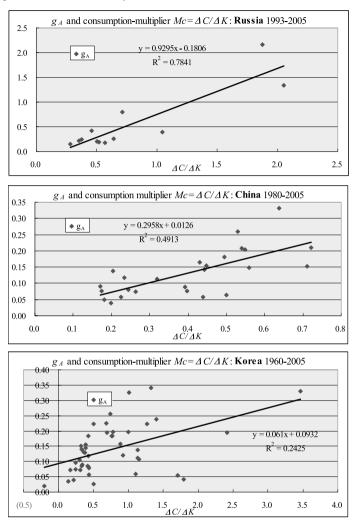
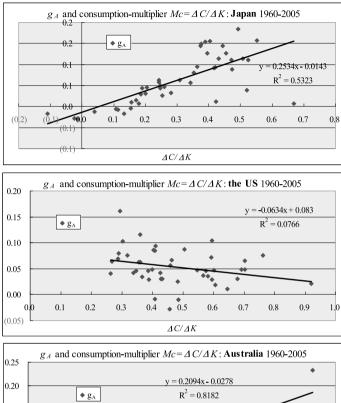


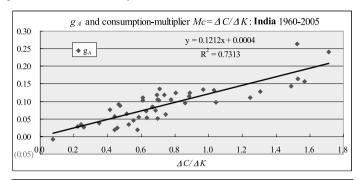
Figure M13 The rate of technological progress and the consumption-multiplier $\Delta C/\Delta K$ (1)

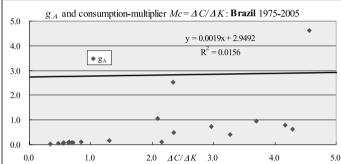


0.15 0.10 0.05 0.00 0.0 0.4 0.5 0.7 0.8 0.9 1.0 0.1 0.2 0.3 0.6 1.1 $\Delta C/\Delta K$

Figure M13 The rate of technological progress and the consumption-multiplier $\Delta C/\Delta K$ (2)

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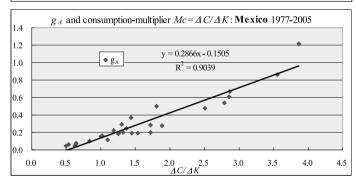


Figure M13 The rate of technological progress and the consumption-multiplier $\Delta C/\Delta K$ (3)

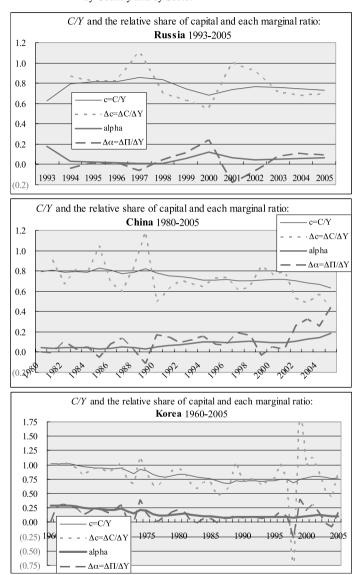


Figure M14 The propensity to consume and the relative share of capital, and each marginal ratio, $\Delta C/\Delta Y$ and $\Delta \Pi/\Delta Y$ (1)

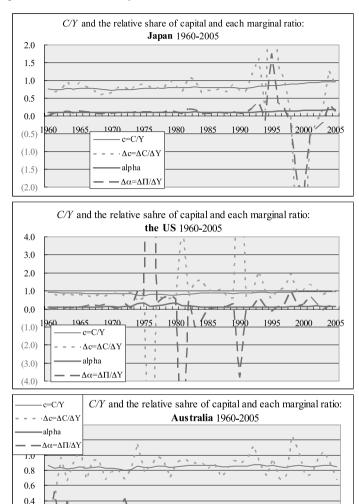


Figure M14 The propensity to consume and the relative share of capital, and each marginal ratio, $\Delta C/\Delta Y$ and $\Delta \Pi/\Delta Y$ (2)

0.2 0.0 (0.2) (0.4)

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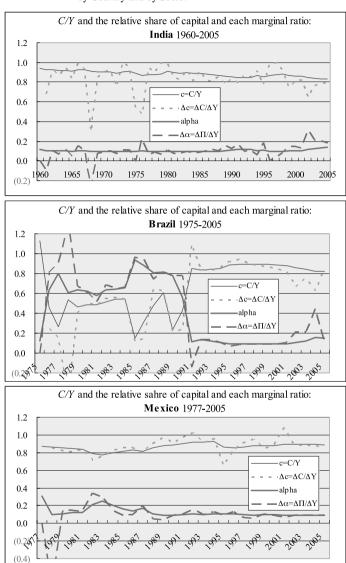


Figure M14 The propensity to consume and the relative share of capital, and each marginal ratio, $\Delta C/\Delta Y$ and $\Delta \Pi/\Delta Y$ (3)