# Human Capital Development & Management in Economic Growth in China

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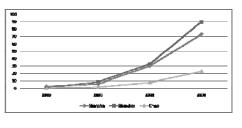
## **Economic Growth in China**

- "Enormous Success" (Stiglitz, 1999)
- A "Development Miracle" (Todaro & Smith, 2006)
- China's contribution to the "Millennium Development Goals" (e.g. Eradication of extreme poverty and hunger. World Bank, 2007)

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# Table 1. Economic Growth in China, 1980-2008: GDP per capita (Yuan)

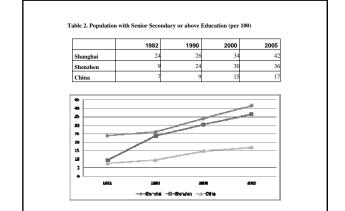
	1980	1990	2000	2008
Shanghai	2725	5911	30047	73124
Shenzhen	835	8724	32800	89814
China	463	1644	7858	22640

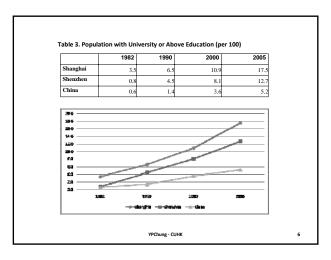


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## **Economic Growth in China**

- Correspondence with education growth in the same development period!
- Any connection with Human Capital?
- Its development & management?





### **Economic Growth**

- Traditional Economic Growth Theory:
  - Output = f (Labor, Capital, Land)
  - Economic Growth mainly depends on
    - Labor input (number of workers)
    - Capital input (machines, building, ... & land)
- $\bullet$   $Two\ Problems\ (from\ empirical\ observations\ on\ the\ Growth\ Rates)$  :
  - 1. "Non-converging" notwithstanding diminishing returns to labor & capital inputs separately
  - 2. "Unexplained residual" in the growth function

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## **Explanation Attempts**

- Why no "convergence" in economic growth between the developed & developing countries?
  - Growth rates in the developed countries remain high and continue to lead ...
  - Because of education increase and technology change
- What causes for the huge unexplained growth in "the residual of the ignorance"?
  - · Technology & growth interactions
  - Human capital (education & skill level: quality of labor)

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## Education, Technology & Growth

- The New Growth Theories (endogenous growth)
  - Technology change is the most important
  - Technology change & improvement in production depend on the technology level of the economy at large
  - "Technology begets Technology" & "Education begets Education"
- Education and Technology Change
  - R&D: research, invention & innovation
  - Leadership: adoption, assimilation & improvement
  - Absorptive capacity: adaptation & adjustment (ability to learn & willingness to accept new things)
- Human capital and its management in China

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# What is Human Capital? (Schultz, 1961)

- Human Capital
  - Skills, knowledge & human capacity: general & specific skills (G. Becker)
  - Ability to deal with disequilibria: allocation of resource (T. Schultz)
  - Ability to deal with change: workplace competencies (H. Levin)
- Investment in Human Capital (HC) (Shultz, 1961)

Ability: Education & training to enhance skills & knowledge

Health: Better food & living condition to improve capacity

Application: Migration & employment for more productive life

• = Development & management of HC

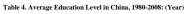
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Developing & Managing Human Capital in China :

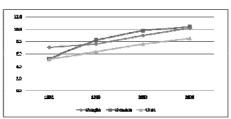
## 1. Provision of Education & Training

- Basic general education for whole population
  - Compulsory education : years & enrolment rates
  - Finance & quality of basic education: adequate & hi-minimum level (#W Hung, Bin)
- · University education & Research capacity
  - State support: research, scholarship, & the needy (陸根書 Lu Genshu)
  - Private investment: the incentive system (占盛丽 Zhang SL, 陳霜葉 Chen SY)
- Adult & continuing education
  - Adult literacy
  - Adjustment to change, modernity & the "creative destruction" (杜平 Du Ping. 王簽 Wang Rui)

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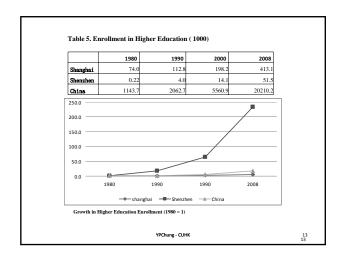


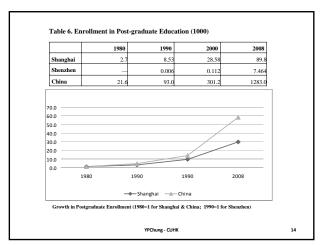
	1980	1990	2000	2008
Shanghai	7.03	7.60	8.96	10.17
Shenzhen	5.29	8.23	9.77	10.43
China	5.20	6.30	7.60	8.50



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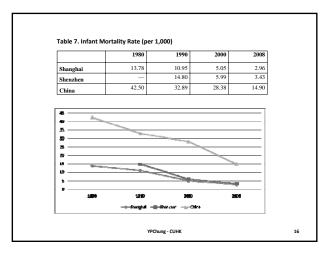


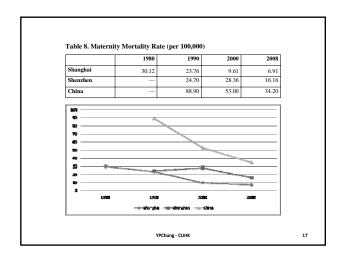
Developing & Managing Human Capital in China:

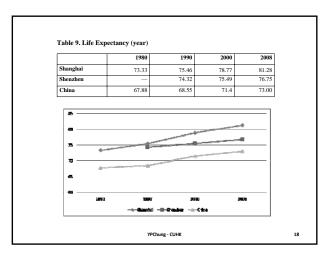
## 2. Improvement in Health Conditions

- Food: consumption & healthy diet
- Sport & Exercise
- Medical expenditures
- Infant mortality rate & "Head-Start" support
  - For age-5 & below, proxy for child health
- Maternal mortality rate
  - Proxy for general community health

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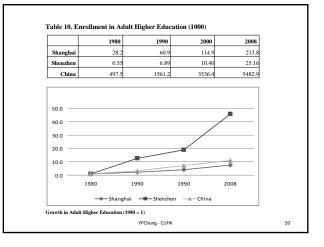
### 3. Liberalization in Migration & Employment

- Liberalization in internal migration
  - Residence policy: Special Economic Zone & other cities
  - Assistance to the migrant/ temporary population e.g. Education for children of the "migrant workers" ((37.7) lb Lei W)
- Liberalization in employment
  - Factory workers from agricultural sector: structural change in economic growth (A. Lewis)
  - Higher education for mobility & residence to major cities
    & SE7s
- Adult education for factory workers (肖今 Xiao Jin)

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## Managing Human Capital in China

Effects on Economic Growth

- Enormous Success & Development Miracle!
  - -> Contribution of Human capital
- China's major successes in managing HC:
  - Explored and found evidence in:
    - Education development & ability enhancement
    - 2. Health improvement
    - 3. Migration & employment liberalization

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#### **Human Capital Development & Management**

for Economic Growth in China

- What more can be done?
  - Addressing disparity in quantity & quality of basic general education

(e.g. IT penetration with the "Sesame Street"; Education development in the Western provinces; ... )

- 2. Continuous improvement of child health (e.g. The "Milk-Program"; Free-lunch in the "Head-Start" program for the disadvantaged; ...)
- From migration of workers to "migration of factories" (e.g. Development & employment for farmers in the under-developed areas; Farmland reform; Assisting industrial development in the Western provinces; ...)

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Thank You!

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