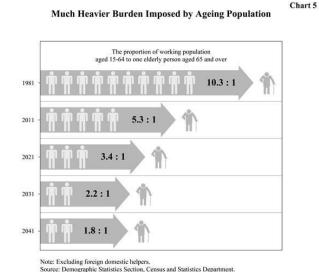
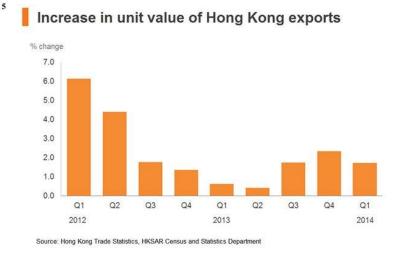
E-learning to enhance human resources and human capital for Hong Kong's future

Professor Stephen J. Andrews The University of Hong Kong

Our context



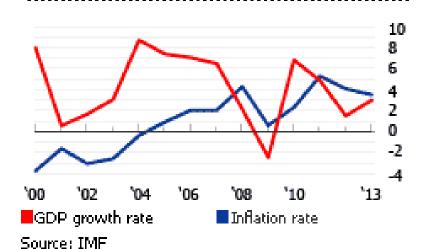


Tough competition

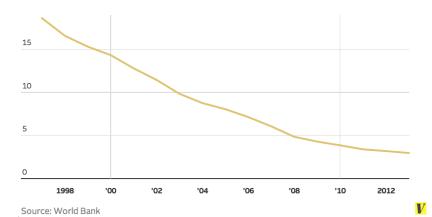
IMD World Competitiveness Ranking 2015

2015		2014
1	USA	1
2	Hong Kong	4
3	Singapore	3
4	Switzerland	2
5	Canada	7
22	Mainland China	23
Source: IMD		SCMP

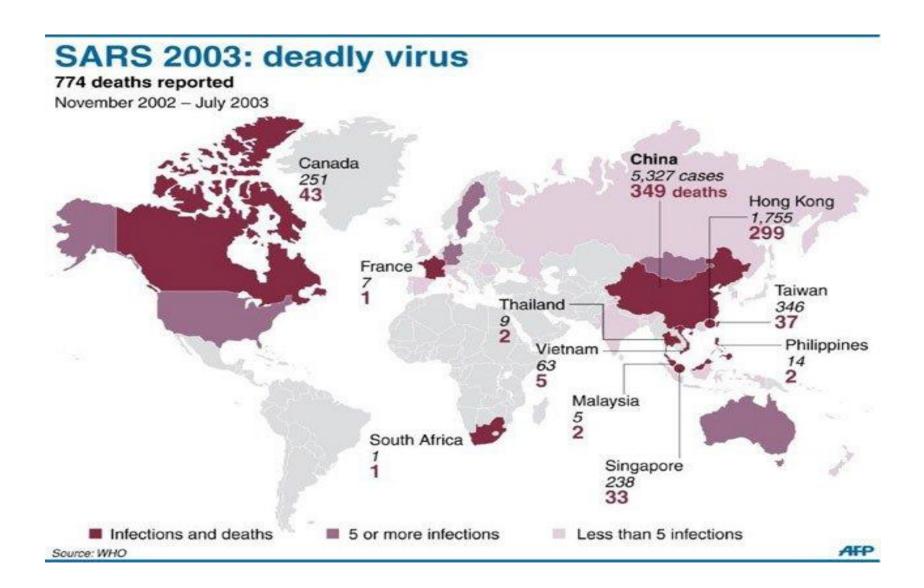
GDP Growth & Inflation Rate (%)



Hong Kong GDP as a percentage of Mainland China's GDP



Natural and human disasters



Human resources & human capital underpin the overall well-being of HK's future

Context:

- rapid social change, ageing population
- knowledge economy, global connectivity

- Key concerns:
 - Economic well-being
 - Social well-being
 - Resilience & sustainability

Human Resources ≠ Human Capital

- HR: workforce with knowledge and skills
- HC: creativity to produce value

- Formal/non-formal/ informal education
- Early childhood —>
 work place —>
 lifespan

Learning needs to be ...

- Dynamic
- Just-in-time
- Fit-for-purpose

Encompassing multiple Levels:

- Individual
- Family
- Community
- Organization
- Societal

HENCE must leverage the power & potential of networked learning

What kind of e-learning?

- Promote social equity
- Build social resilience
- Sustain an ageing society's wellness

- Enhance productivity
- Foster innovative industry
- Drive entrepreneurship
- Create a thriving technosocial and business innovation ecosystem

Learning/e-learning capacity: "solve problems & create value"

 Authentic problem solving in novel situations

 Designed learning experiences

TIMSS, PIRLS, PISA and ICILS

Hong Kong has among the highest between-school variance in achievement

e-learning

—?→ promote social equity

R&D

Policies & Strategies to sustain & scale

ICT-enabled

Learning innovations

multi/inter-disciplinary research on *Learning environment & task design*

Challenges to bridging the digital divide

- Fast cycles in digital devices
- Software platforms & applications
- New concepts & functions

- Costs of renewal /replacement
- Technical & learning support

R&D in e-Learning for Equity

- Integrated socio-technical systems
- Scalable ICT-enabled learning innovations
- Multi-scale open exchange and peer learning
- Top-down support for bottom-up innovations
- Special needs

e-learning —for—> ageing society:

Family & social networks

- Social media & internet
- Self-support groups
- Care communities

e-learning —for—> societal resilience:

Time-critical & networked

- Early warning systems of impending crisis
- Leveraging government monitoring mechanisms
- Crowdsourcing through social media
- Multi-sector rapid response networks
- Self-organizing crisis management
- Damage control & recovery

R&D for Resilience & productivity

- Citizen science and information systems
- Government, professional, community networks
- Information flow, communication, coordinated action
- socio-technical systems to support self-organizing collaborative innovation and marketing networks

e-learning —>innovative industry + entrepreneurship

 knowledge management systems to connect innovation communities with venture capital to form innovation & entrepreneurship hubs

Core technologies for socio-technical systems

- Social media, networking & social network analysis
- Information & knowledge management systems
- Open access repositories, digital libraries
- Search engine optimization & information retrieval
- Data-mining, learning analytics, complex visualization
- Transmedia EL applications, simulation and modeling
- Maker technology (collaborative authoring & production tools for multimedia, animation, virtual reality applications and 3D printing for learners).