



Ministry of Education
SINGAPORE

Development of 21st Century Competencies in Singapore

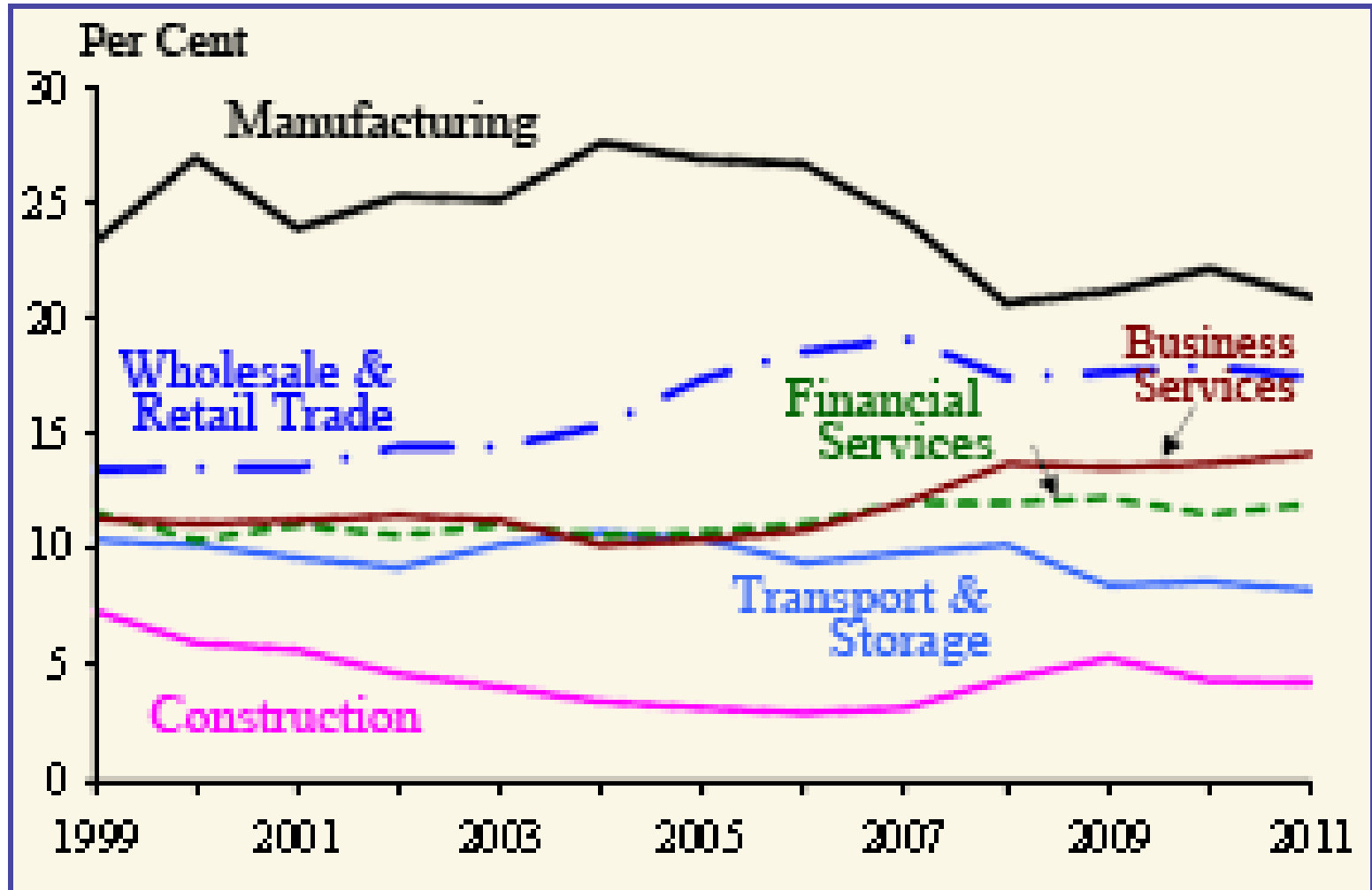
Presentation at OECD-CCE-MOE “Educating for Innovation” Workshop
15 January 2013, Session 2



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Singapore)

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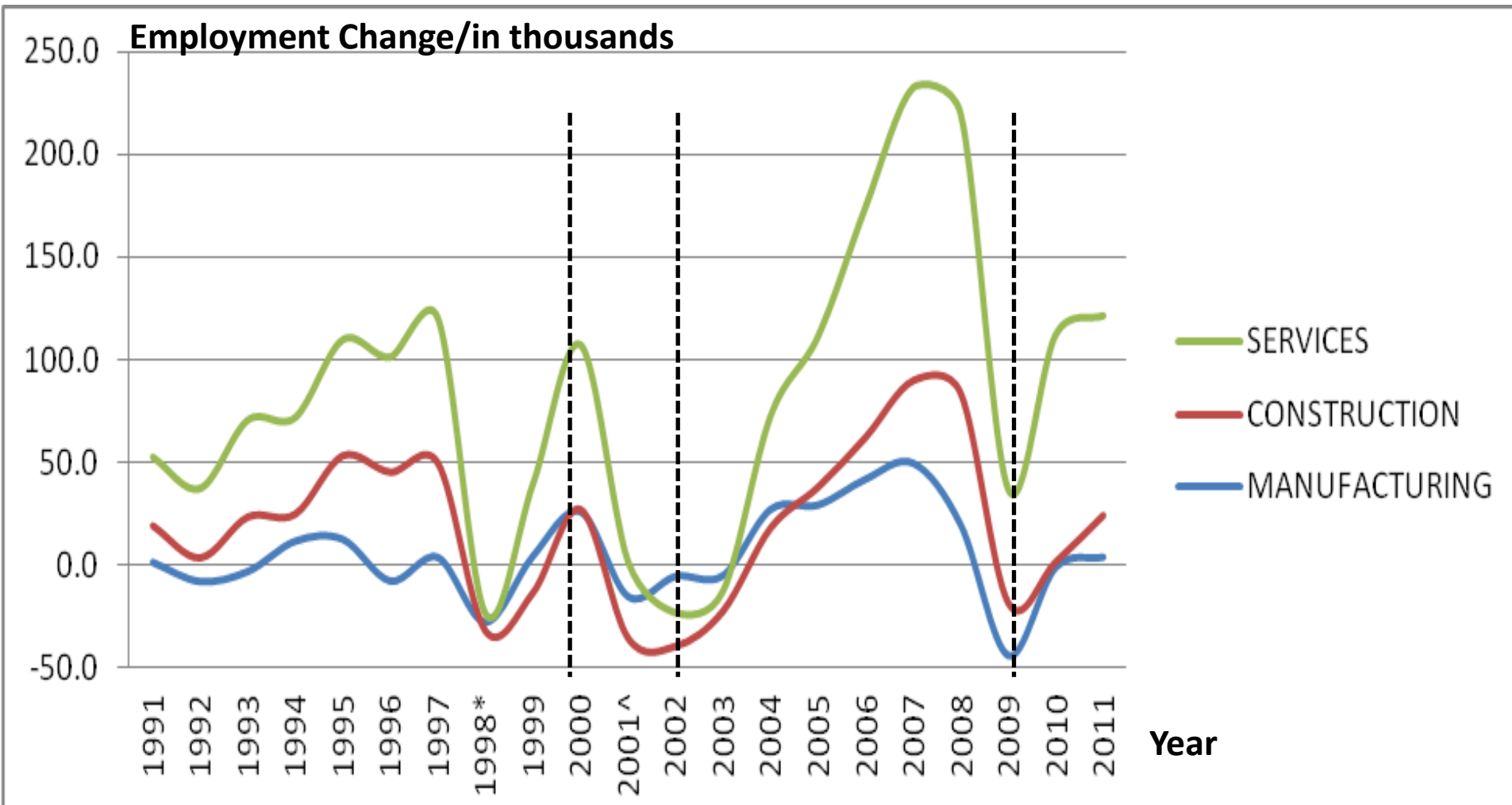
GDP Contribution by Sector



Source: <http://www.singstat.gov.sg/stats/charts/econ.html#econJ>



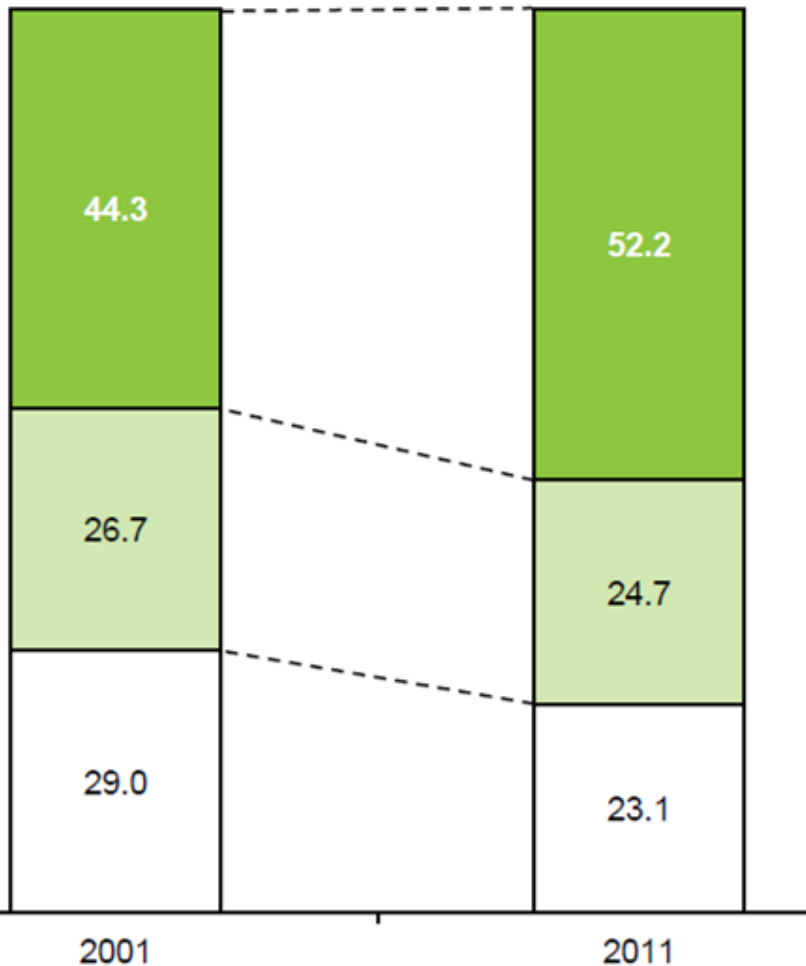
Annual Employment Change by Industry



Source: <http://www.mom.gov.sg/statistics-publications/national-labour-market-information/statistics/Pages/employment.aspx#AR>



Rising Share of PMET in Total Employment



Distribution of Employed Residents by Occupation in 2001 and 2011

- Professionals, Managers, Executives & Technicians (PMETs)
- Clerical, Sales & Service Workers
- Production & Transport Operators, Cleaners & Labourers*

Source: http://www.mom.gov.sg/Documents/statistics-publications/Statistical-Charts/mrsd_DistEmpResOcc_Ct_310112.pdf



Desired Outcomes of Education

Confident Person

Self-directed Learner

Active Contributor

Concerned Citizen

At the end of Primary school, pupils should:	At the end of Secondary school, students should:	At the end of Post-Secondary education, students should:
be able to distinguish right from wrong	have moral integrity	have moral courage to stand up for what is right
know their strengths and areas for growth	believe in their abilities and be able to adapt to change	be resilient in the face of adversity
be able to cooperate, share and care for others	be able to work in teams and show empathy for others	be able to collaborate across cultures and be socially responsible
have a lively curiosity about things	be creative and have an inquiring mind	be innovative and enterprising
be able to think for and express themselves confidently	be able to appreciate diverse views and communicate effectively	be able to think critically and communicate persuasively
take pride in their work	take responsibility for their own learning	be purposeful in pursuit of excellence
have healthy habits and an awareness of the arts	enjoy physical activities and appreciate the arts	pursue a healthy lifestyle and have an appreciation for aesthetics
know and love Singapore	believe in Singapore and understand what matters to Singapore	be proud to be Singaporeans and understand Singapore in relation to the world

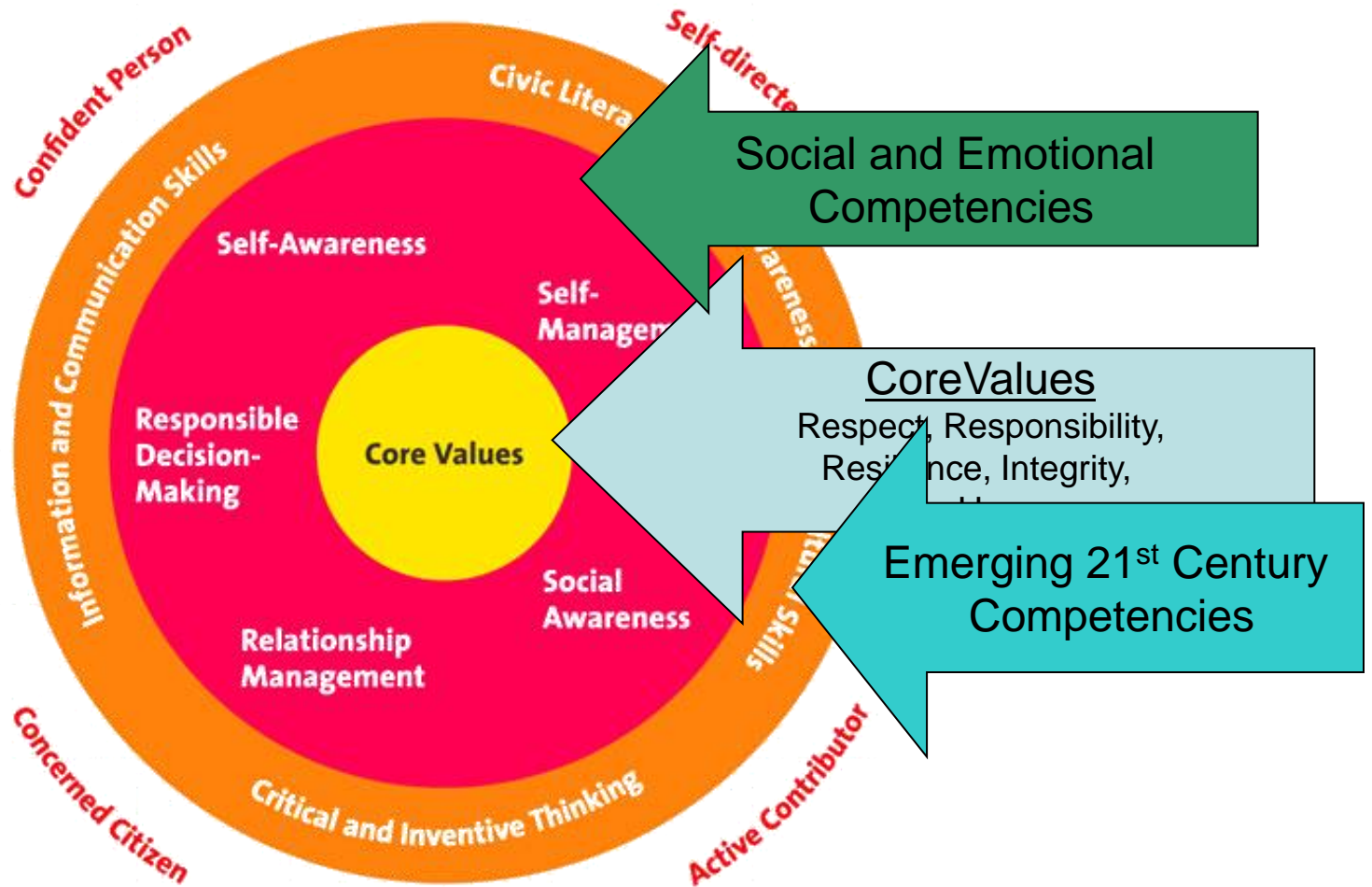


Strong Fundamentals

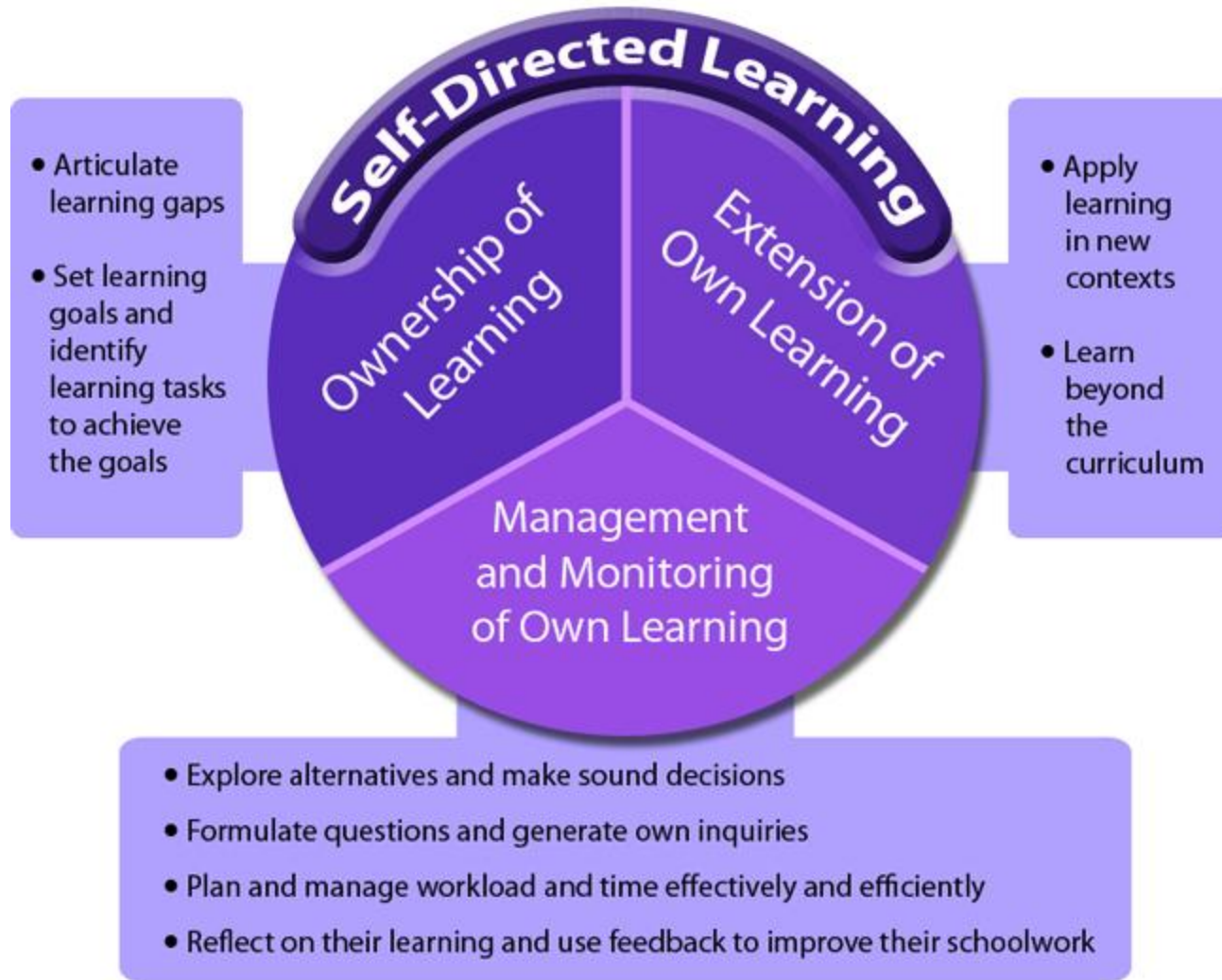
- **English & Mother Tongue** – Mandatory from Grade 1-12
- **Mathematics** – Mandatory from Grade 1-10, Elective from Grade 11-12
- **Science** – Mandatory from Grade 3 to 10, Elective from Grade 11-12
- **Humanities** – Mandatory from Grade 1 to 10, Elective from Grade 11-12



Future Learning – 21st Century Competencies Framework



ICT Masterplan 3: Goals – SDL and CoL



ICT Masterplan 3: Goals – SDL and CoL



21CC

1. Civic Literacy, Global Awareness & Cross Cultural Skills

Active Community Life

National and Cultural Identity

Global Awareness

Socio-Cultural Sensitivity and Awareness

2. Critical and Inventive Thinking Skills

Sound Reasoning and Decision-Making

Reflective Thinking

Curiosity and Creativity

Managing Complexities and Ambiguities



21CC Standards

21CC

3. Information and Communication Skills

Openness

Management of Info

Responsible Use of Info

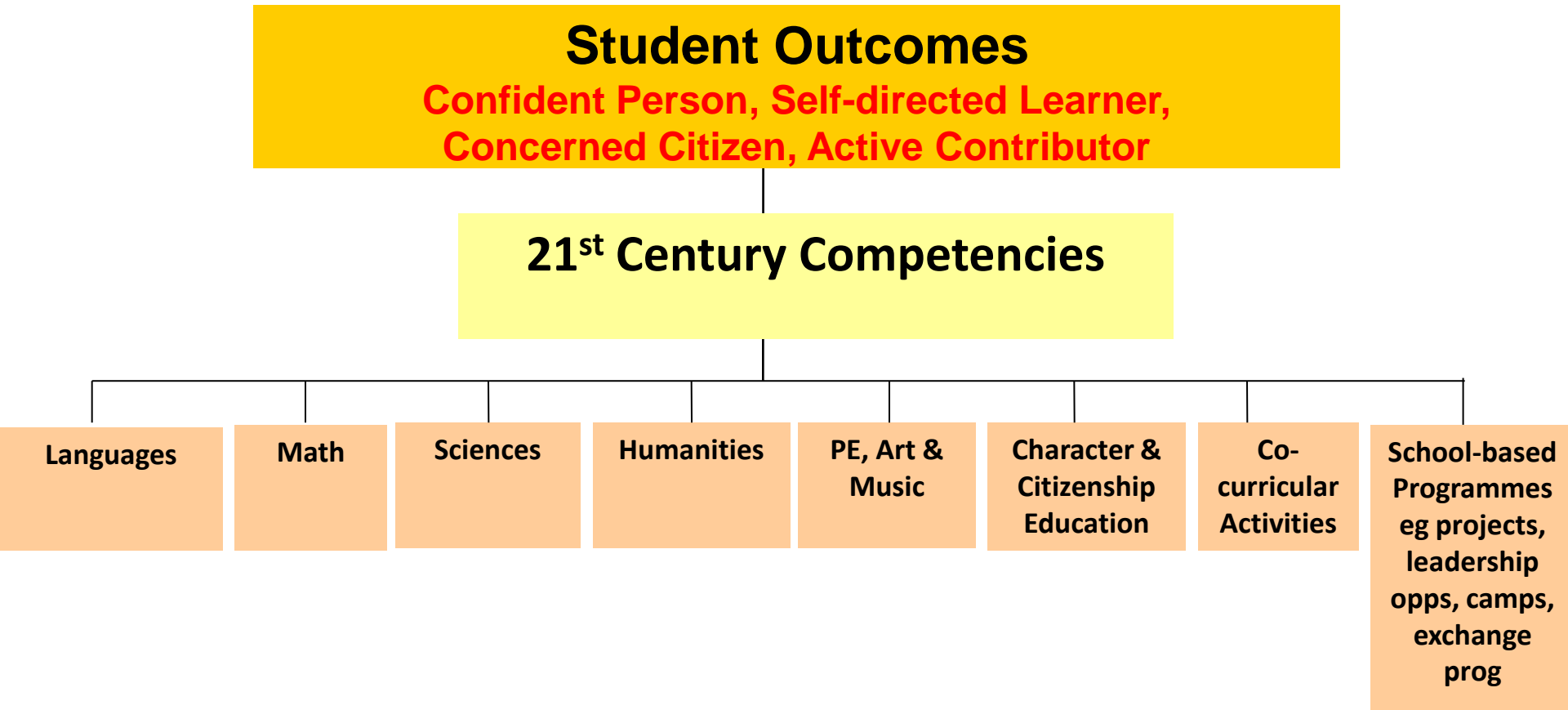
Communicating Effectively



Eg: Standards & Benchmark for CIT

Learning Outcome	Generates novel ideas; exercises sound reasoning and reflective thinking to make good decisions; and manages complexities and ambiguities				
Standard	Benchmarks				
	By end of P3	By end of P6	By end of S2	By end of S4/5	By end of JC2/PU3
CIT 1 Explores possibilities and generates ideas	1.1a The student is able to generate ideas to respond to an issue/ challenge	1.1b The student is able to generate ideas and explore different pathways to respond to an issue/ challenge	1.1c The student is able to generate ideas and explore different pathways that are appropriate for responding to an issue/ challenge	1.1d The student is able to generate ideas and explore different that lead to solutions.	

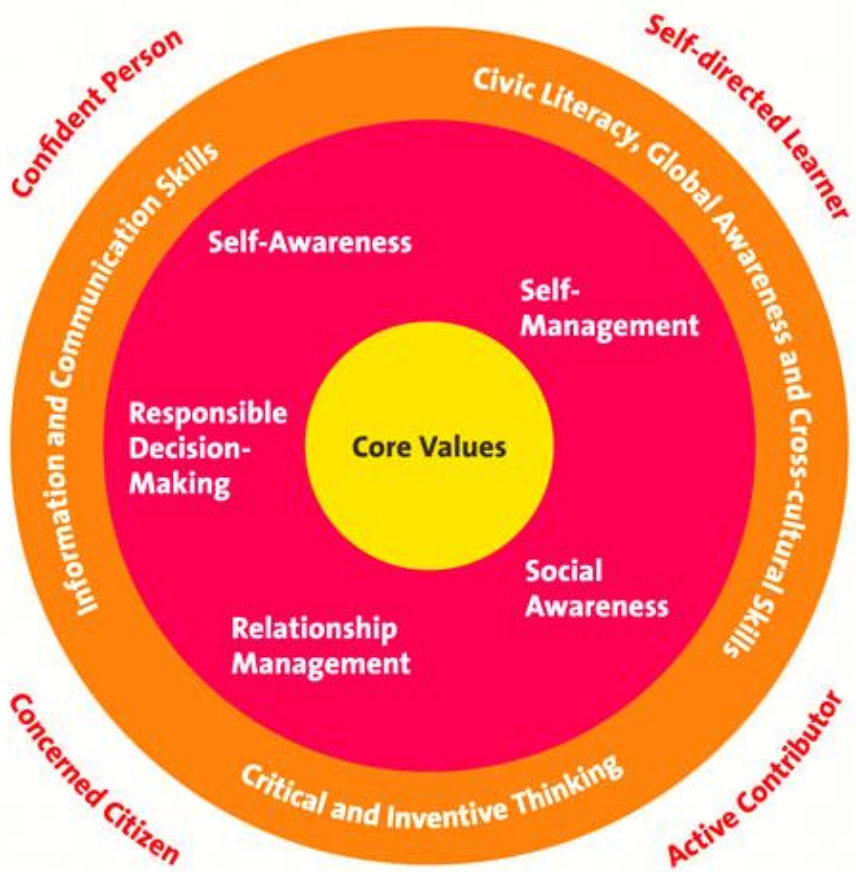
Developing 21CC through the Total Curriculum



Total curriculum - delivered within and outside structured time-table



The 21st Century Competencies (21CC) Framework



Thank You!

