

Preparing our Students for the Future: The Singapore Journey

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OUTLINE OF PRESENTATION

- CALLING WITH PLANNING
- CONTINUING EDUCATION WITH PASSION
- COURAGE WITH PURPOSE



Individual Work

Describe your work in a few sentences



Apple

We make great computers.

They are beautifully designed, simple to use and user-friendly. Wanna buy one?

AST

Our vision is Lead, Care, and Inspire. We provide quality in-service PD for all our 33,000 teachers.



Teacher

I teach Character and Citizenship Education and I am also involved in overseeing Values in Action programmes

NorthLight School

We provide a post-primary education for students who did not clear their PSLE. Want to join us?





CALLING WITH PLANNING

The Why behind the What and the How



<u>Apple</u>

Everything we do, we believe in challenging the status quo. We believe in thinking differently. The way we challenge the status quo is by making our products beautifully designed, simple to use and user-friendly. And we happen to make great computers. Wanna buy one?

Sinek, S. (2011). Start with why: How great leaders inspire everyone to take action. New York: Penguin Group.

<u>AST</u>

Teaching is about touching lives, a good education system is as good as its teachers. It is our desire to bring out the best in all our 33,000 teachers through quality in-service PD. Our teachers will in turn bring out the best in our students. We live out our vision: Lead, Care, and Inspire.

Teacher

I bring out the best in my students, help them to be upright citizens and be future ready. I do this through effective CCE and VIA programmes.

NorthLight School

Every child can learn and achieve. The corporate colours of the school are purple and white. We remind our students that the darker it gets the brighter they shine. NorthLight is about hope. Do you want to join us?



Individual Work

Describe your work in a few sentences





CONTINUING EDUCATION WITH PASSION

- Teacher Professional Competencies
- Key Stakeholders in PD
- Modes of PD



A Key Role of Education is to Support our Economy...

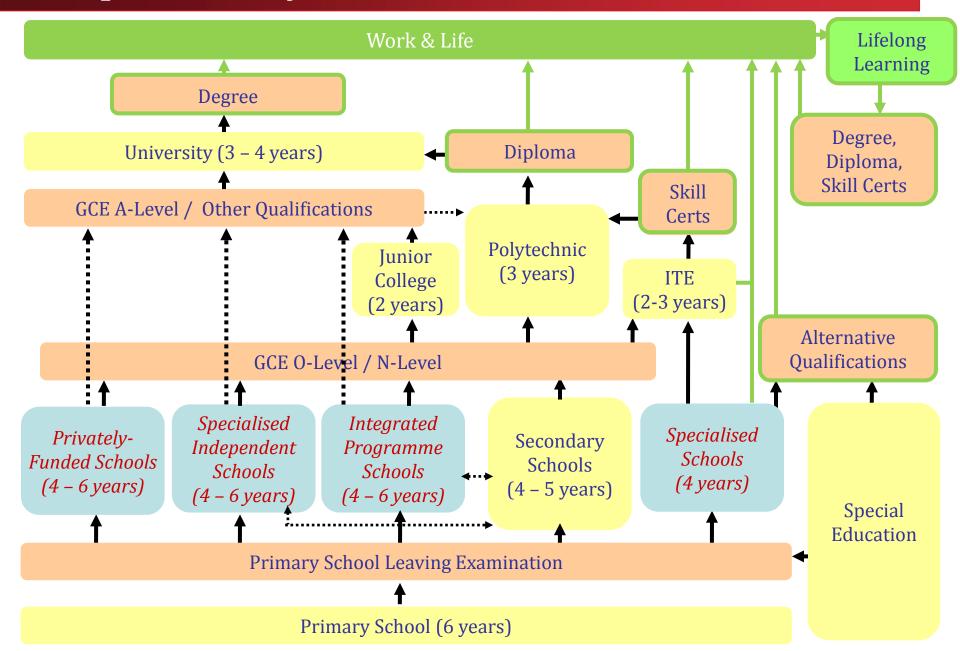
- People are Singapore's only natural resource
- Education prepares our children for an increasingly uncertain and globalised world
- Close coordination to develop these connections



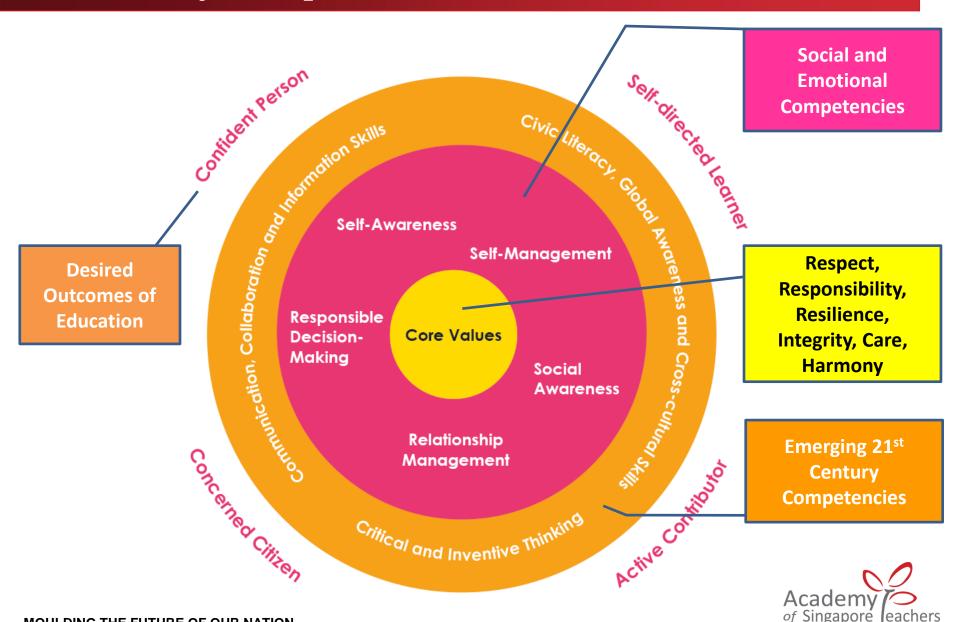
... While also Fulfilling the Aspirations of our Children

- Helping children be the best that they can be
- Multiple pathways for success, customised programmes from schools

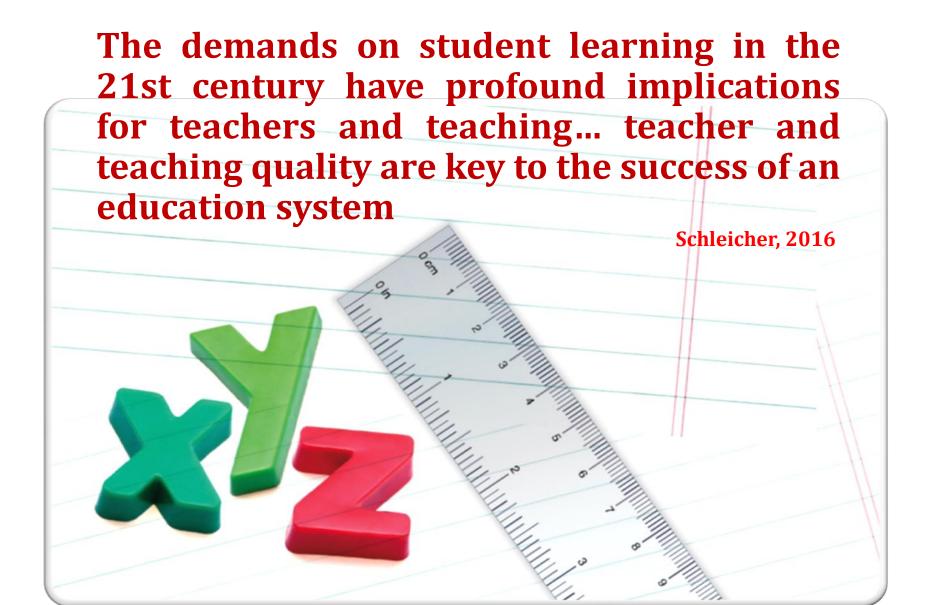
Multiple Pathways to Success



21st Century Competencies and Student Outcomes



21st Century Learning and Teacher Education





Teacher Professional Competencies





Teacher Recruitment

Beginning **Teachers**

Initial Teacher Education @ NIE

Contract teaching

Interview with lesson presentation

Academy of Singapore

Shortlist

Enhancing Teacher Competencies through PD

What matters most?

30% of

achievement variance can be attributed to teachers

When we focus on teachers, our students succeed.

Hattie's 8 Mind Frames for Teachers (Hattie, 2012)



Teacher Growth Model



21st Century Teacher Outcomes

- The Ethical Educator
- The Competent Professional
 - The Collaborative Learner
- The Transformational Leader
 - The Community Builder



The Ethical Educator		The Competent Professional		The Collaborative Learner	The Transforma- tional Leader	The Community Builder	
Living Out Ethos of the Teaching Profession	Mastering Self	Deepening Knowledge and Practice in Academic Curriculum	Deepening Knowledge and Practice in Student Development Curriculum	Learning as a Team	Leading People Towards a Shared Vision	Understand- ing and Engaging Our Community	
Professional Ethics (e.g., code and conduct)	Self- Knowledge	Curriculum	Learners and Learning	Collaborative Learning	Leader as Visionary	Understanding Local and Global Issues	
Ethics in/across Subject Discipline	Self-Efficacy	Discipline and Subject Content	Student Development Curriculum	Teamwork and facilitation	Leader as Manager	Engaging Our Stakeholders	
Research Ethics	Self- Management	Pedagogy		International Collaboration	Leader as People Developer		
Ethical Leadership and Culture		Assessment			Leader as Change Agent		
		(e.g., critica	Professional Practice (e.g., critical inquiry and reflection)		Academy of Singapore leachers		

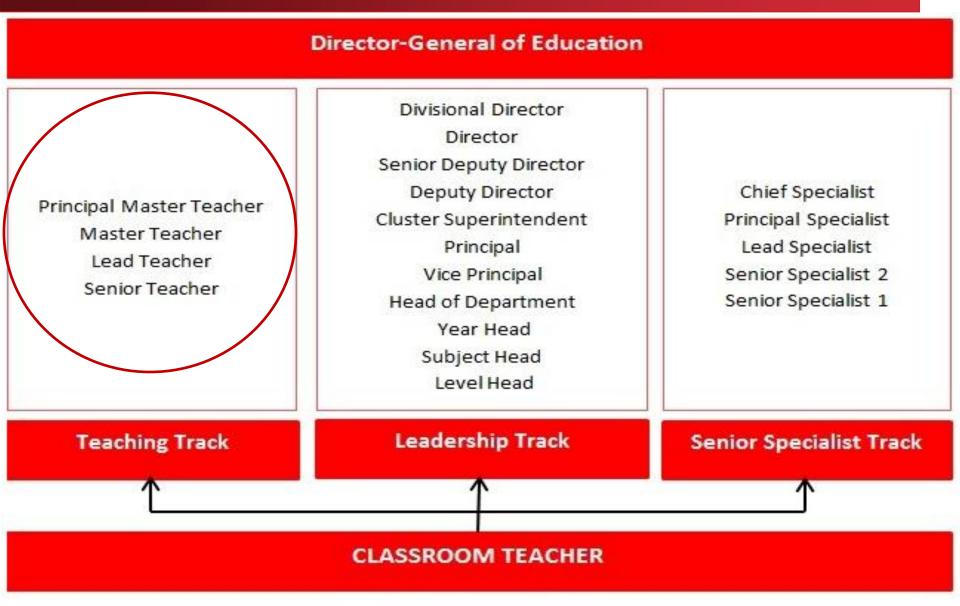


Key Stakeholders in PD

- 3-Track Career Structure
- Roles of Various Leaders in PD
- Seven Academies and Language Centres
- Strong Tripartite Relationship among MOE, NIE, & Schools



3-Track Career Structure in MOE



A career progression that takes into account officers' aspirations.

Teacher Leaders



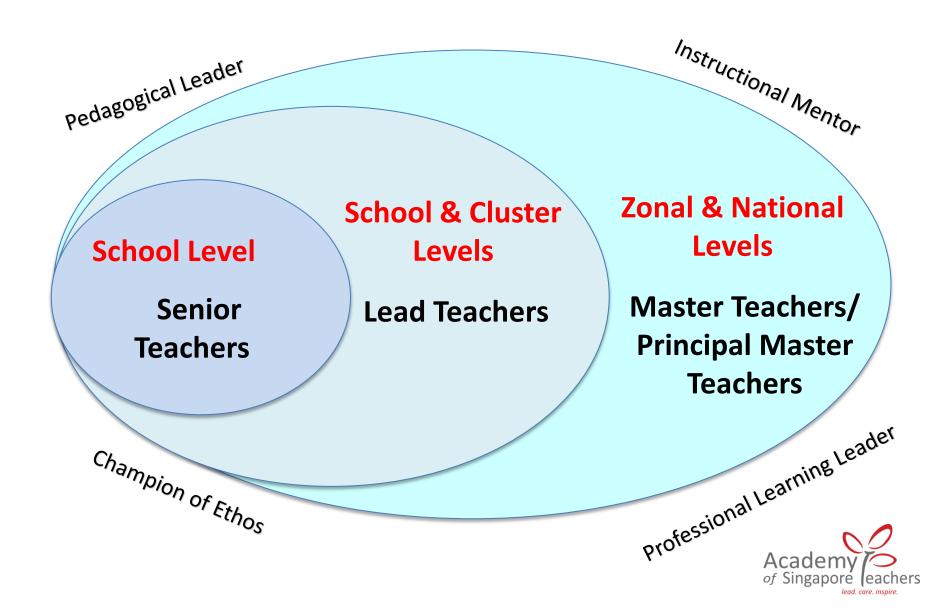
The Teacher Leader is a role model for teacher leadership and high professional standards in living out the Ethos of the Teaching Profession.

"Teachers do not only have a central role to play in improving educational outcomes, they are also at the centre of the improvement efforts themselves."

OECD (2011). Building a high-quality teaching profession: Lessons from around the world. Paris: OECD Publishing.



Impact of Teacher Leaders



Teacher Ownership, Teacher Leadership

Our PD Philosophy

Teacher ownership, teacher leadership is about teachers, driven by a sense of mission, exerting intentional influence to achieve an enhanced state of professional excellence within a climate of trusting and supportive relationships.



Key Personnel and Teacher Leaders Support PD

SCHOOL LEADERS AND SCHOOL STAFF SENIOR/LEAD **DEVELOPERS (SSDs)** MIDDLE MANAGERS **TEACHERS** Focus on mentoring Champion PD Create structures and programmes for conditions for PD teachers Design and plan Lead PD as content & Plan and role-model PD expected of leaders pedagogical experts PD for teachers Coach and mentor Lead PLC teams in schools to improve teachers student learning

Seven Academies and Language Centres

The academies and language centres drive and support the professional learning of teachers to enhance professionalism and pedagogical excellence.







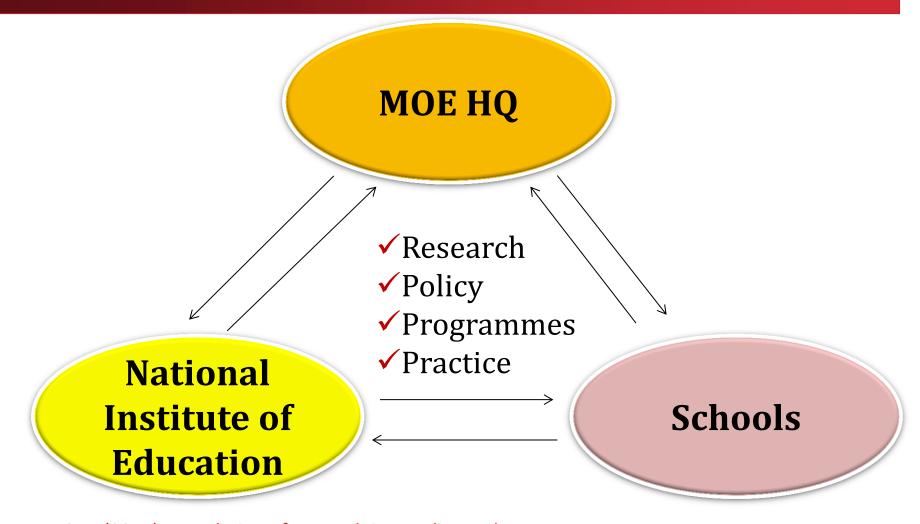








Strong Tripartite Relationship among MOE, NIE, and Schools



Poon, C. L. (2011). Translation of research into policy and practice. In E. L. Low (ed.) *Paving the Fourth Way – the Singapore Story*. Singapore: NIE.

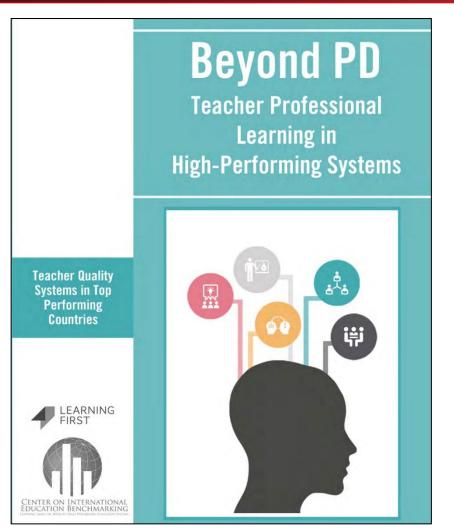


Modes of PD - What Works and How

- Attributes of Effective PD
- Instructional Mentoring
- Teacher Induction Framework
- Learning Communities



PD is Embedded in the Daily Practice of Teaching



- 1. PD is "central to teachers' jobs... about improving student learning... schools".
- Structure PD around a threestage improvement cycle of "assess, develop, evaluate".
- 3. Develop PD leaders to plan for and facilitate learning of others and ensure teachers have adequate time for PD.

Jensen, B., Sonnemann, J., Roberts-Hull, K., & Hunter, A. (2016). *Beyond PD: Teacher Professional Learning in High-Performing Systems*. Washington, DC: National Center on Education and the Economy.



Findings on PD in Singapore

Building a teacher-led culture of professional excellence centred on the holistic development of the child

Key Modes

Mentoring

Learning Communities

Courses

Supporting Policies

Developing and articulating the roles of PL leaders

Evaluation and accountability of PL

Time created for PL

Jensen, B., Sonnemann, J., Roberts-Hull, K., & Hunter, A. (2016). *Beyond PD: Teacher Professional Learning in High-Performing Systems*. Washington, DC: National Center on Education and the Economy.



Mentoring as an Effective Mode of PD

TALIS 2013 Singapore has the youngest teaching force among TALIS countries

Beginning and less-experienced teachers

- Deepen the knowledge and practice of beginning and less-experienced teachers, and develop them to be Competent Professionals
- Create a positive, supportive teaching experience for the mentees

High standards of teaching

 Establish high standards of teaching practice in our school system

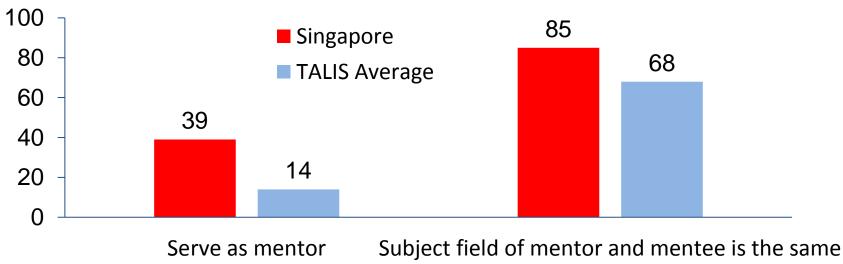


Growing Effective Mentoring in schools

Strong mentoring culture in Singapore schools

- Create supportive structures to support mentor-mentee lesson observations and regular conversations.
- Promote same-subject alignment between mentor and mentee, increasing effectiveness of mentorship

% of teachers who serve as mentors and % of teachers in schools where subject field of mentor and mentee is the same



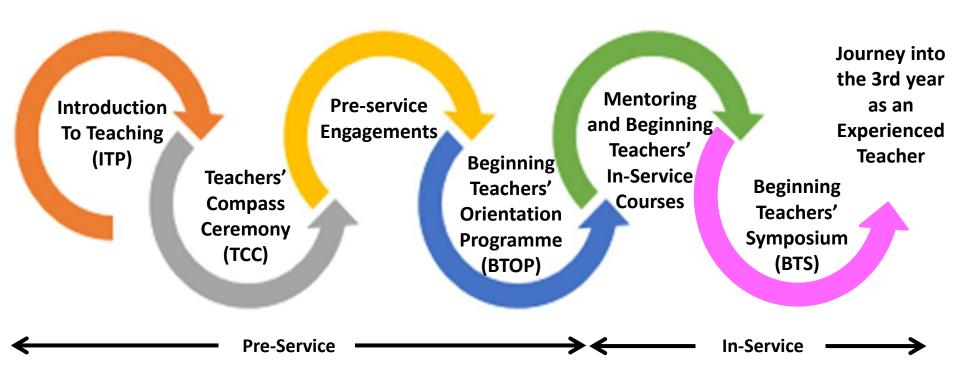
Instructional Mentoring Programme

An exploratory study of mentoring practices in Singapore (OER 06/16 LEL)

To understand mentoring practices in Singapore schools

	IMP (n=45)	Non-IMP (n=218)	Asymmp.	
Examples from mentees' survey	Mean Rank		Sig. Value (2-tailed)	
Willing to listen to my rationale	152.16	127.84	.038**	
Able to make time to drop by	152.01	127.87	.042**	
Reviews goals with me	163.20	125.56	.002**	
Conversation focuses on lesson planning	153.64	127.53	.029**	
Conversation focuses on actual lesson implementation	153.70	127.52	.027**	
A willingness to learn is essential in ensuring professional growth	153.90	127.48	.024**	

Teacher Induction Framework





Learning Communities

Practitioner Knowledge

Subject content, pedagogical content, and contextual knowledge of members

Adapted from "From
Professional Learning
Community to Networked
Learning Community," by D.
Jackson and J. Temperley, in L.
Stoll and K. S. Louis (Eds.),
Professional Learning
Communities: Divergence,
Depth and Dilemma (p. 48),
2007, Maidenhead: Open
University Press.

Public Knowledge

Knowledge from theory, research, and good practices elsewhere

New Knowledge

New knowledge that is created together through collaborative work and inquiry

Three Fields of Knowledge



Learning Communities

Examples:

- Geography Chapter
- Primary Math Chapter
- Primary Learners
- Low Progress Learners

By subjects & learner profiles



Examples:

- Assessment Literacy
- Learning Study
- Science Practical Skills

By Professional Roles



Professional Learning Communities (School-based)



Professional Learning Teams within schools

By Professional

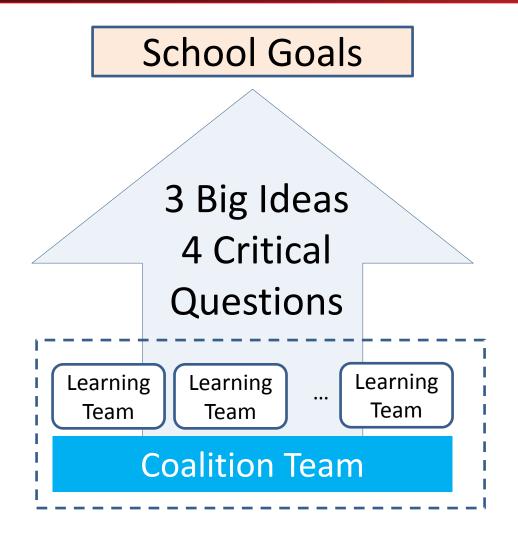
Interests

Examples:

- Lead Teachers-Senior **Teachers Networks**
- Master Teachers Network
- School Staff Developers Network



Professional Learning Communities (PLCs) in Schools



DuFour, R. (2004). What is a professional learning community? *Educational Leadership*, 61(8), 6-11.

- PD for PLC Facilitators
- Typically teacher leaders facilitate and lead the learning of PLCs. PD in facilitation, data-driven conversations and teacher inquiry are provided to help PLC facilitators
- Time-tabled Time

Collective engagement in lesson planning, reflection, and professional learning



Professional Learning Communities (PLCs) in Schools

Study on PLCs in Singapore schools (AFR02/16TLS)

- examined PLC practices and developed tools to help schools in the self-assessment of their PLCs
- 1777 teachers in 20 randomly-selected schools were surveyed (some were interviewed); data analysed against Hipp & Huffman's five dimensions of PLCs

Shared and supportive leadership

Shared values and vision

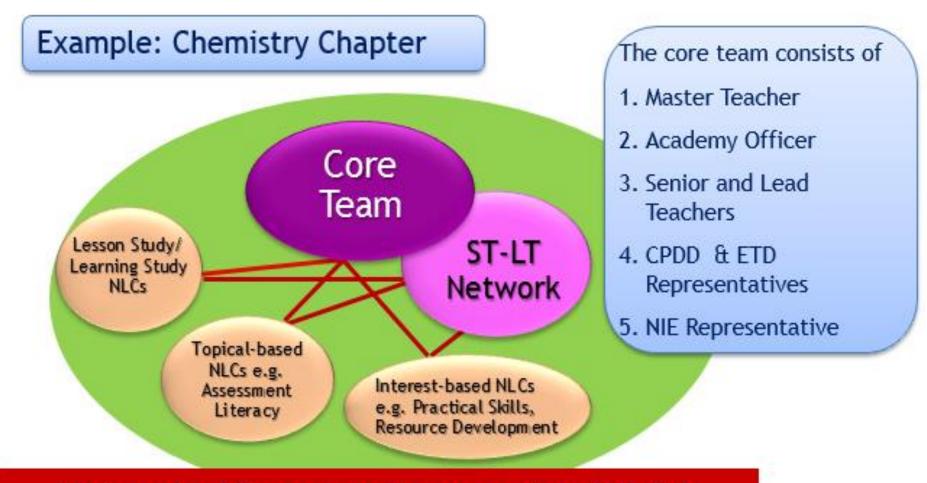
Collective learning and application

Shared personal practice

Hipp, K., & Huffman, J. (2003). Reculturing schools as professional learning communities. Lanham, MD: Scarecrow Education.



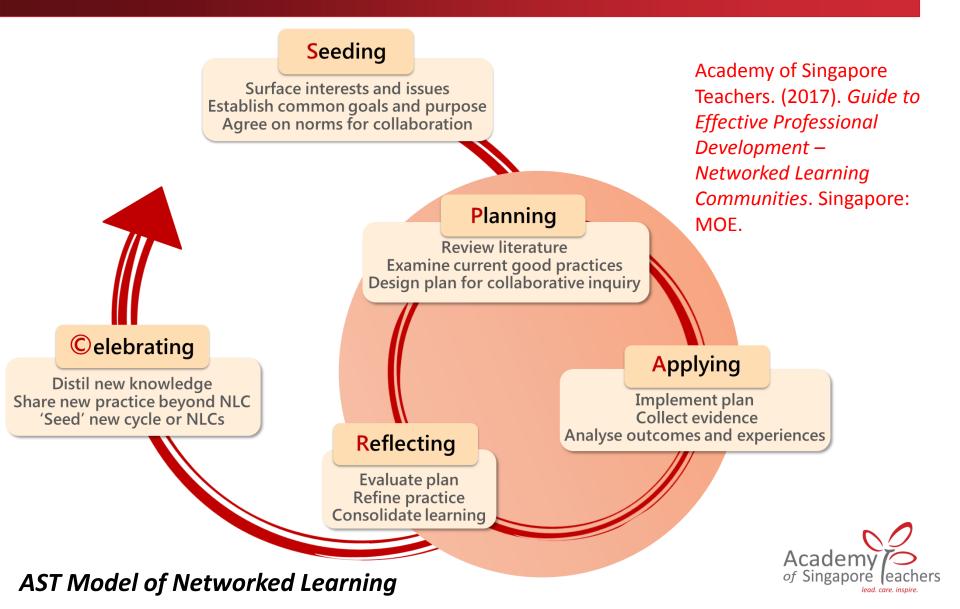
Structure of Subject Chapters in AST



Networked Learning Communities (NLCs)

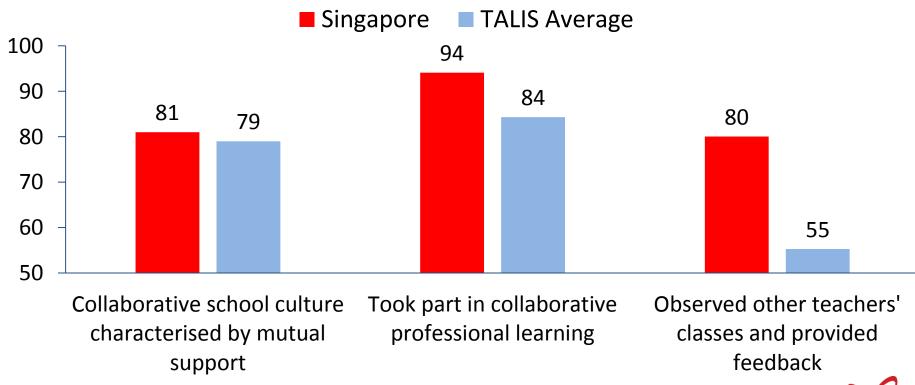


Networked Learning Communities (NLCs) across Schools



Singapore's TALIS 2013 Findings

A relatively large proportion of teachers participate in collaborative professional learning practices.



% of teachers who agree to the following statements



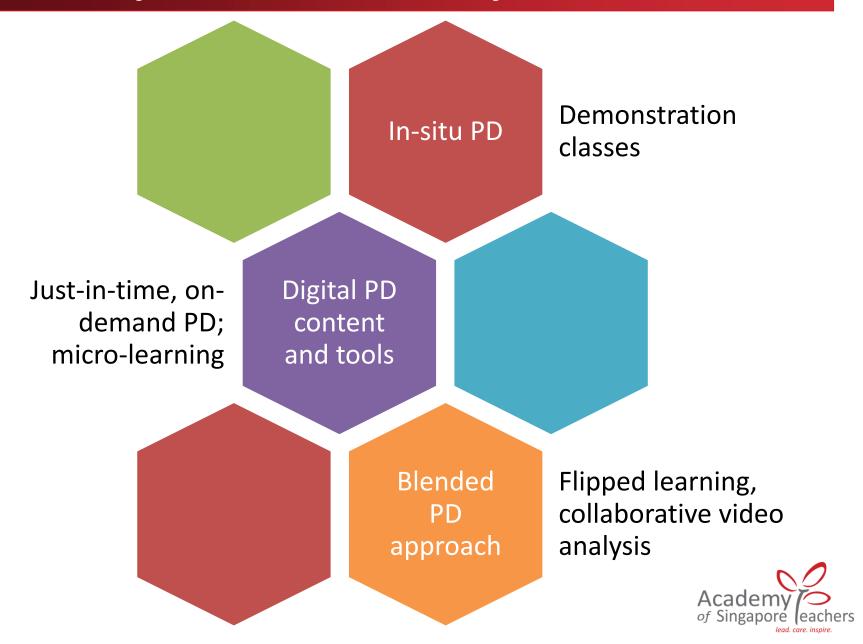


COURAGE WITH PURPOSE





Future-Ready PD for Future-Ready Teachers



Shift in the Mode of PD

Digital Learning/ Blended Learning

 2014 – 28% of teachers were involved in blended learning and this % has increased to 51% in 2017

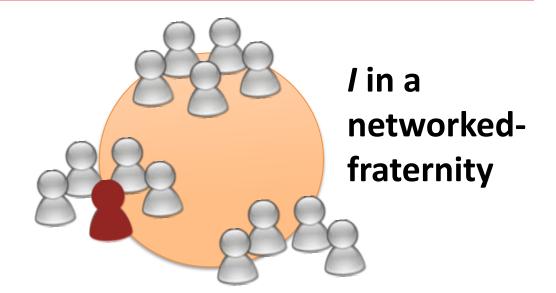
Enhanced One Portal all Learners

Learning on the go



Transformation of Our Teaching Profession

- Professional Identity:"I in my classroom"
- Organisational Culture:
 Ministry-driven system
 of excellence







I in professional collaboration

- Professional Identity:"I in a community"
- Organisational Culture:
 Teacher-driven culture
 of professional
 excellence

SkillsFuture

A national movement to provide Singaporeans with the opportunities to develop their fullest potential throughout life, regardless of their starting points.

Four Key Thrusts



Help individuals make well-informed choices in education, training, and careers



Develop an integrated high-quality system of education and training that responds to constantly evolving needs



Promote employer recognition and career development based on skills and mastery



Foster a culture that supports and celebrates lifelong learning



SkillsFuture

Towards a Nation of Lifelong Learners

- Support upskilling and reskilling of workforce through SkillsFuture
 - Future economy will see frequent technological disruptions and continual need for job redesign
 - ➤ To keep pace and sustain Singapore's economic growth, skills development efforts must continue throughout life

Integrated Lifelong Learning Ecosystem

- Develop an integrated high-quality system of education and training that responds to industry needs
 - Design and deliver industry-relevant training through closer industry collaborations
 - ➤ Help working adults choose their learning pathways











SUMMARY

- CALLING WITH PLANNING
- CONTINUING EDUCATION WITH PASSION
- COURAGE WITH PURPOSE

