

A systems approach to teacher careers: Choose and curate toward commitment to capable and committed (CCCCC) teachers

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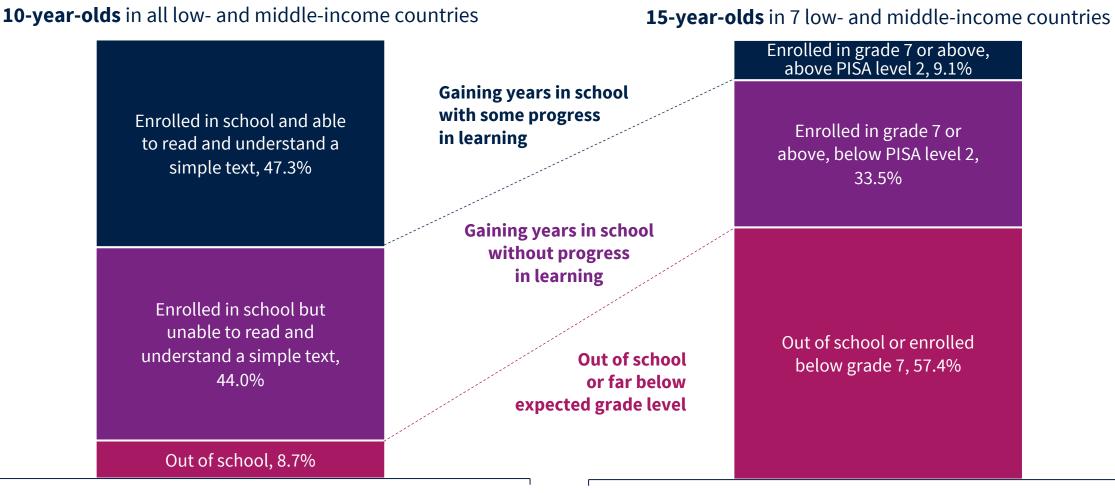






Classroom teaching is complex —and so are the challenges facing it in low-performing education systems

In many developing countries, education systems fail to cultivate learning for many children, even those in school



World Bank, Learning Poverty (2015)

PISA-D (Ecuador, Guatemala, Honduras, Cambodia, Paraguay, Senegal, Zambia, 2014–2016)



Sources: World Bank EduAnalytics. (2019). Tables and Figures for Learning Poverty technical paper.

https://github.com/worldbank/LearningPoverty/blob/master/05_working_paper/053_outputs/LPV_Tables_Figures_PAPER.xlsx;

Pritchett & Viarengo (2021), <u>https://doi.org/10.35489/BSG-RISE-WP_2021/069</u>

This is partly because education systems are failing to cultivate and support capable and committed teachers

In SACMEQ 2007 for South Africa,

74%

of 6th-grade teachers had completed senior secondary school or above but only

21%

of these teachers demonstrated mastery of the maths content they were supposed to be teaching Across the 8 African countries surveyed in the SDI, an average of



of randomly selected teachers were absent from classroom during an unannounced visit

Note: mean of country-level absence rates in Kenya, Madagascar, Mozambique, Nigeria, Senegal, Tanzania, Togo, Uganda



Sources: Makuwa, D. K. (2011). <u>http://www.sacmeq.org/sites/default/files/sacmeq/publications/02_teachers_final_05dec2011.pdf;</u> Venkat, H., & Spaull, N. (2015). <u>https://doi.org/10.1016/j.ijedudev.2015.02.002</u>; World Bank (2017), Service Delivery Indicators, https://databank.worldbank.org/reports.aspx?source=service-delivery-indicators# To fix these complex, entrenched, large-scale problems, we need to think about teacher careers as systems (that are embedded in other systems)

One level of systems thinking: the interaction between different design elements and phases of teacher careers

	Design elements of teaching careers	Pre-service <0 years	Novice 0–5 years	Experienced 5–25 years	Veteran >25 years
¥≣	Delegation Who does what where?				
٩	Information How well are they doing it?				
	Support What would help them to do it better?				
	Finance Does compensation attract, retain, and motivate quality teaching?				
	Norms How should 'good teachers' act?				

Note: Adapted from the RISE framework. See Pritchett (2015), <u>https://doi.org/10.35489/BSG-RISE-WP_2015/005</u>

Another salient level of systems thinking: the interaction between different sources of teacher motivation





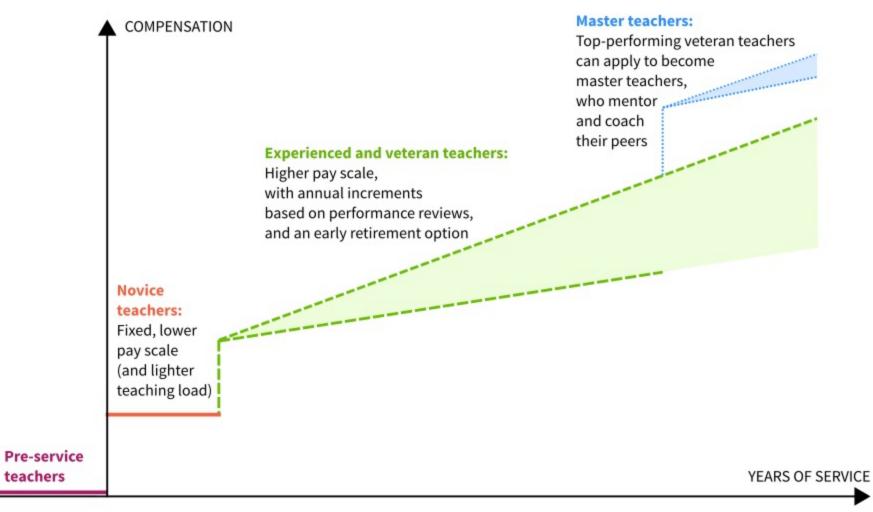
Some teacher reforms prioritise finances over all else—but other factors also shape motivation and performance

Finances Sinces	Design elements of teaching careers	Pre- service	Novice	Experi- enced	Veteran
Material Circumstances	Delegation				
	Information				
Personal Satisfaction	Support				
Social	See Finance				
NAN Validation	Norms				

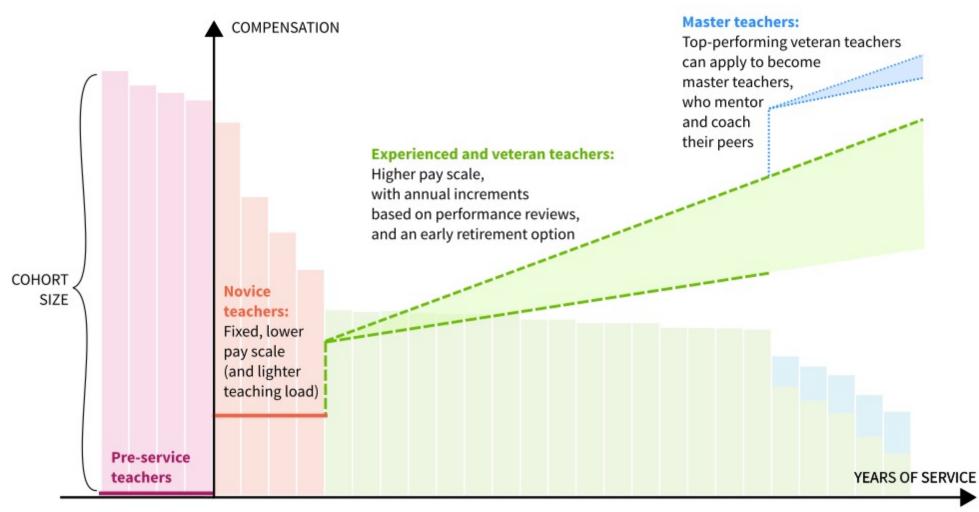
RESEARCH ON IMPROVING

The CCCCC principles: Choose and curate toward commitment to capable and committed teachers

Choose and curate toward commitment to capable and committed teachers



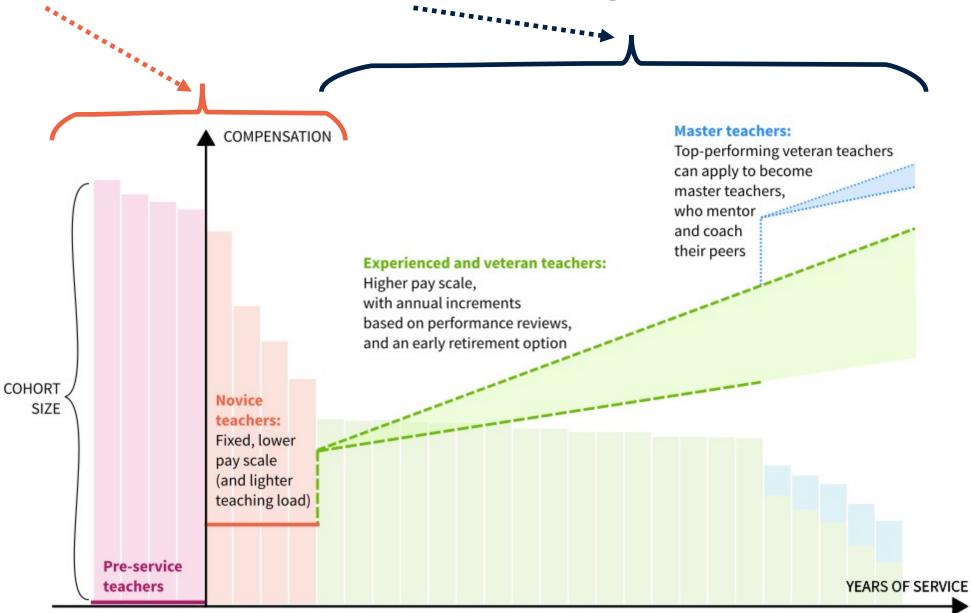
Choose and curate toward commitment to capable and committed teachers



RISE RESEARCH ON IMPROVING SYSTEMS OF EDUCATION

Note: hypothetical example illustrating one of many possible instantiations of CCCCC. Adapted from Pritchett & Pande (2006).

Choose and **curate** toward **commitment** to **capable** and **committed** teachers





Note: hypothetical example illustrating one of many possible instantiations of CCCCC. Adapted from Pritchett & Pande (2006).

The CCCCC principles accentuate the complex interactions between elements and phases of teacher careers

	Design elements of teaching careers	Pre-service <0 years	Novice 0–5 years	Experienced 5–25 years	Veteran >25 years	
¥≣	Delegation Who does what where?	As things now stand, most education sector plans				
٩	Information How well are they doing it?	 create more fragmentation and less coherence; they address teacher policy dimensions only partially and do not systematically include all the major determinants of learning success linked to teachers, i.e. recruitment; initial education; balanced deployment; continual professional 				
	Support What would help them to do it better?					
	Finance Does compensation attract, retain, and motivate quality teaching?	development; decent salaries; career prospects; and working (teaching/ learning) conditions				
	Norms	Teacher Task Force (2019), Teacher Policy Development Guide, p. 19				



Why **curate**? Because indicators from outside of the classroom might not encapsulate teacher **capability** and **commitment**

A panel data study in Pakistan found that standardised indicators did not encapsulate much about teacher value-added ...

Although effective teachers increase learning substantially, observed teacher characteristics* account for less than 5 percent of the variation in TVA.

Bau & Das (2020), p. 62

*Observed teacher characteristics included: whether the teacher was local; teacher training; bachelor's degree completion; years of experience; contract status; and assessed content knowledge



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*Observed teacher characteristics included: whether the teacher was local; teacher training; bachelor's degree completion; years of experience; contract status; and assessed content knowledge ... but schools and headteachers on the frontline could identify and reward effective teachers

… a 1 SD increase in TVA is associated with (at least) 49 percent higher wages in the private sector. Even in the absence of a formal testing regime, TVA is observable and can be rewarded, but the public sector does not have a mechanism to do so. Finally, the TVA of public sector teachers on temporary contracts ... was at least as high as that of permanent teachers ...

Bau & Das (2020), p. 64



Why **commitment**? Because continuous curation is costly—for ministries, schools, teachers, and students

C Teacher turnover affects the production of student learning not only indirectly, through the stock of teachers' skill and **motivation**, but also directly, because it introduces frictions in the allocation of **teachers** to schools. ... head teachers faced with **staffing shortages** may be forced to allocate teachers to **subjects** outside of their areas of specialty, resulting in a patchwork of teaching assignments that adversely affects learning outcomes.

> Zeitlin (2021), Teacher Turnover in Rwanda, p. 82, <u>https://doi.org/10.1093/jae/ejaa013</u>



Why **commitment**? Because continuous curation is costly—for ministries, schools, teachers, and students

Sources of teacher motivation		Choose and curate toward commitment to C and C	Careerlong curation (contract teacher model)	
	Finances	\checkmark	?	
()	Material Circumstances	\checkmark	?	
*	Personal Satisfaction	\checkmark	?	
THAT	Social Validation	\checkmark	?	

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Why choose and curate? Because a commitment-only approach misses key opportunities to build professional standards

66 A probationary period on entry to teaching should be recognized both by teachers and by employers as the opportunity for the encouragement and helpful initiation of the entrant and for the establishment and maintenance of proper professional standards as well as the teacher's own development of his practical teaching proficiency. ... the conditions for its satisfactory completion should be strictly related to professional competence ...

> ILO/UNESCO (1966), Recommendation Concerning the Status of Teachers, para. 39



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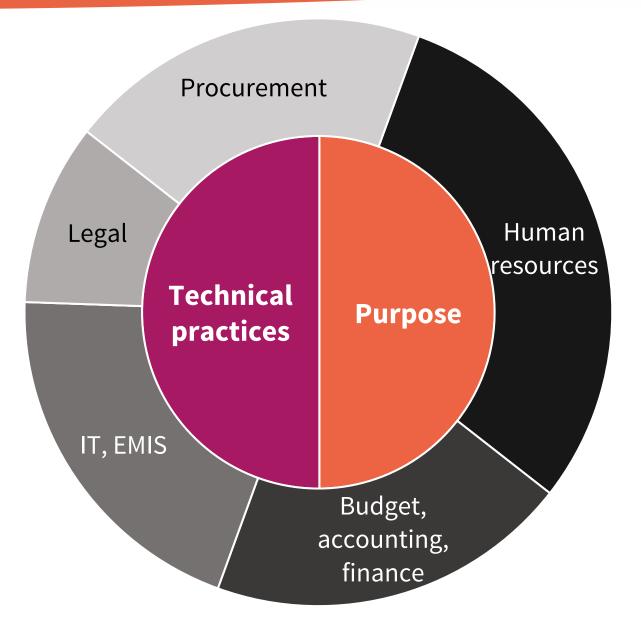
Sources of teacher motivation		Choose and curate toward commitment to C and C	Commitment only (typical civil service)	
	Finances	\checkmark	\checkmark	
	Material Circumstances	\checkmark	\checkmark	
*	Personal Satisfaction	\checkmark	?	
TIT	Social Validation	\checkmark	?	

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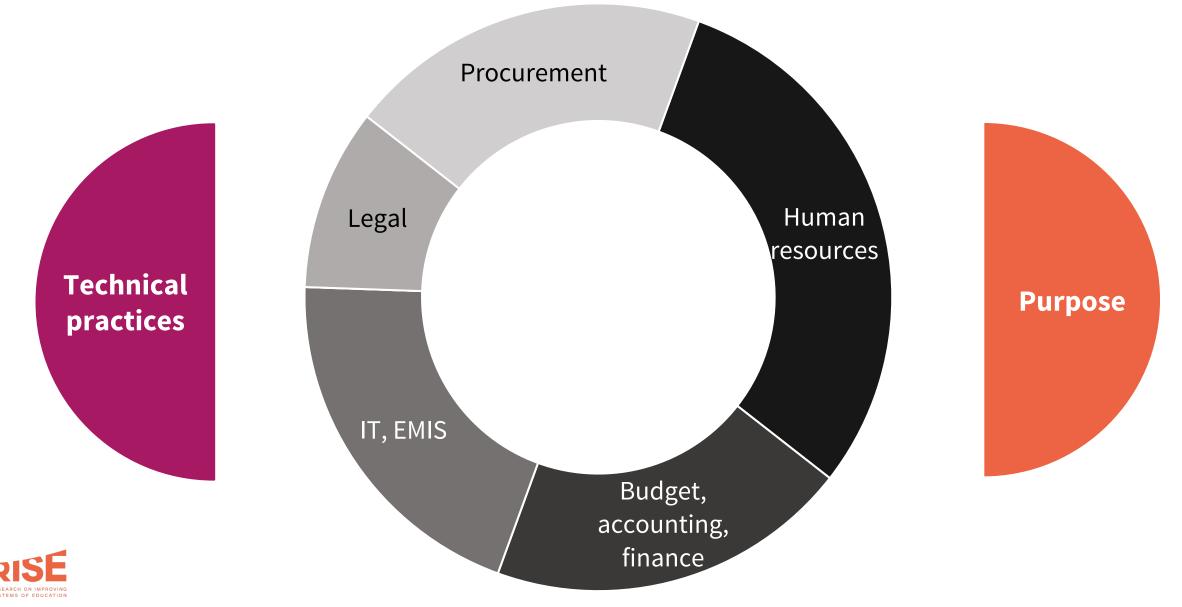
At the **core** of CCCCC (and of any effective organisation) is **purpose** and **technical capability**

Effective organisations are effective from the inside out—from their core purpose + technical practices advancing the purpose

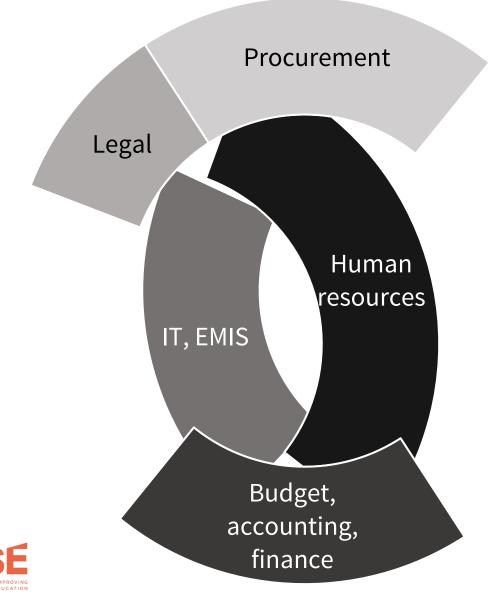




If an organisation loses its core, it might continue functioning as a doughnut, but it will likely get co-opted for other goals

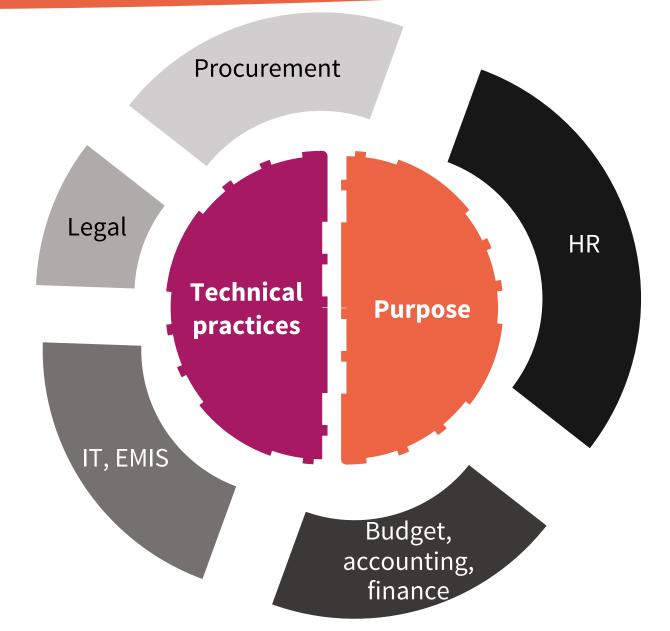


The CCCCC principles do **not** imply that a core-less system can be fixed just by fixing HR (or other support functions) ...



There is a lot of documentation work. We have to make a work plan and then upload it, get it printed. There is so much paper work that by the time some teachers figured that out they had forgotten what was Shaala Siddhi itself. I do all the documentation work at home because I have no time in the school.

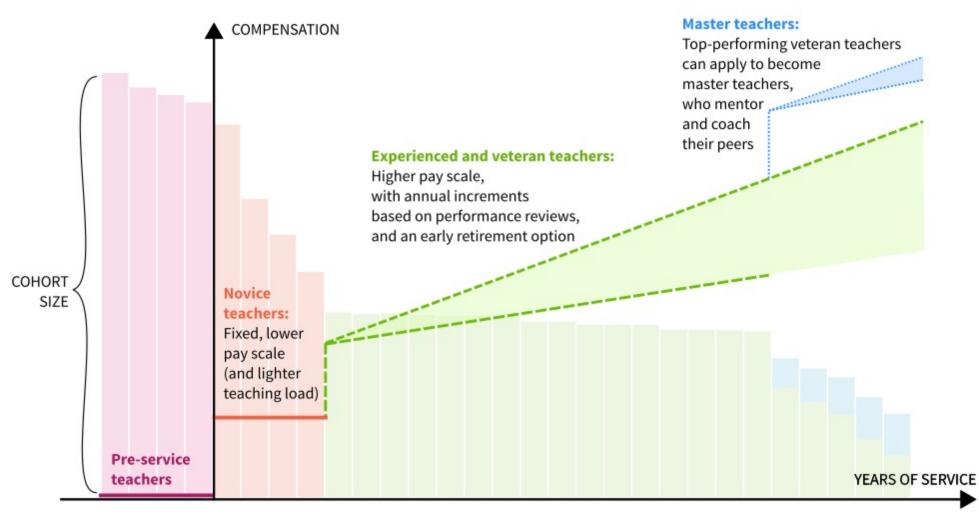
Headteacher at a school that was designated as an effective implementer of Shaala Siddhi in Madhya Pradesh, India; quoted Muralidharan & Singh (2020), p. 18, <u>https://doi.org/10.35489/BSG-RISE-WP_2020/056</u> ... but if HR and other support functions aren't coherent with the core, the core purpose has to compete with other priorities





Why **capable** and **committed**? To give the core (technical quality + purpose) the priority that it warrants

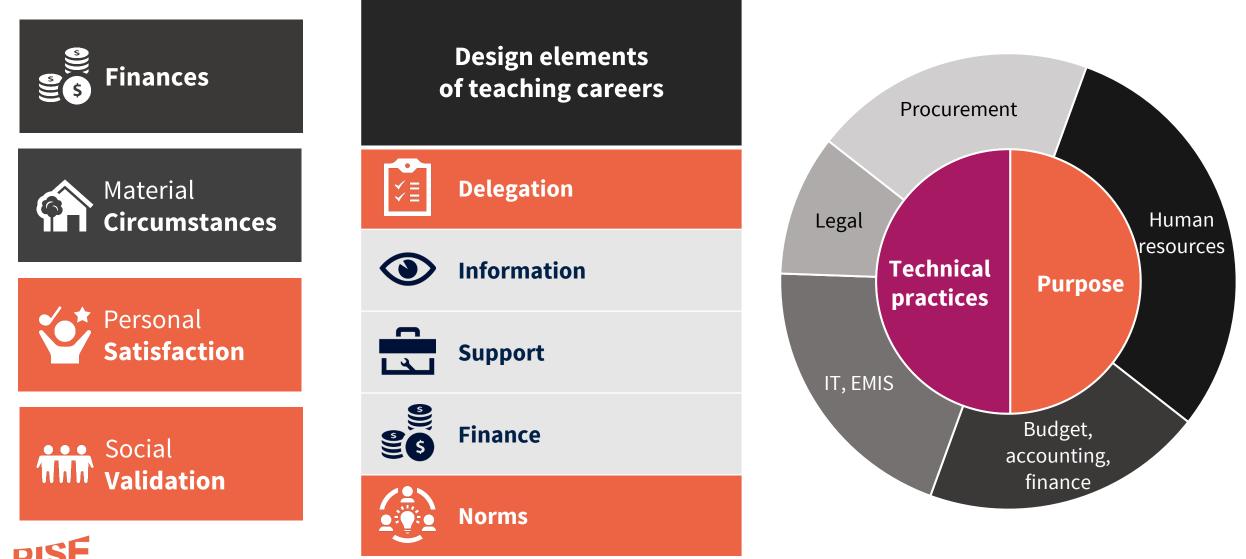
Choose and **curate** toward **commitment** to **capable** and **committed** teachers





Note: hypothetical example illustrating one of many possible instantiations of CCCCC. Adapted from Pritchett & Pande (2006).

Purpose is fundamental—at every level of the system



CCCCC is a set of principles—which can (and should!) be implemented differently in different contexts

We can identify elements of teacher careers that look very different on the surface, but similarly reflect aspects of **choose-and-curate-toward-commitment-to-capable-and-committed** teachers:

Finland

Choose: intensive, two-stage screening for entry to pre-service training

Singapore

Curate: 'compulsory untrained teaching stint' prior to pre-service training

Brazil

Committed: municipal authority to tailor some elements of teacher careers to local prioritise (e.g. Sobral)

Peru

Capable: national-level test of teacher knowledge and accreditation of pre-service training



MORE CENTRALISED (spider)



Thank you very much!





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