## Introduction to Improvement Science

Lessons Learned about Engaging in Continuous Improvement from a Research-Practice Partnership

#### Inaugural Summit on Improvement Science

Campus Center Ballroom, University at Albany September 28, 2019

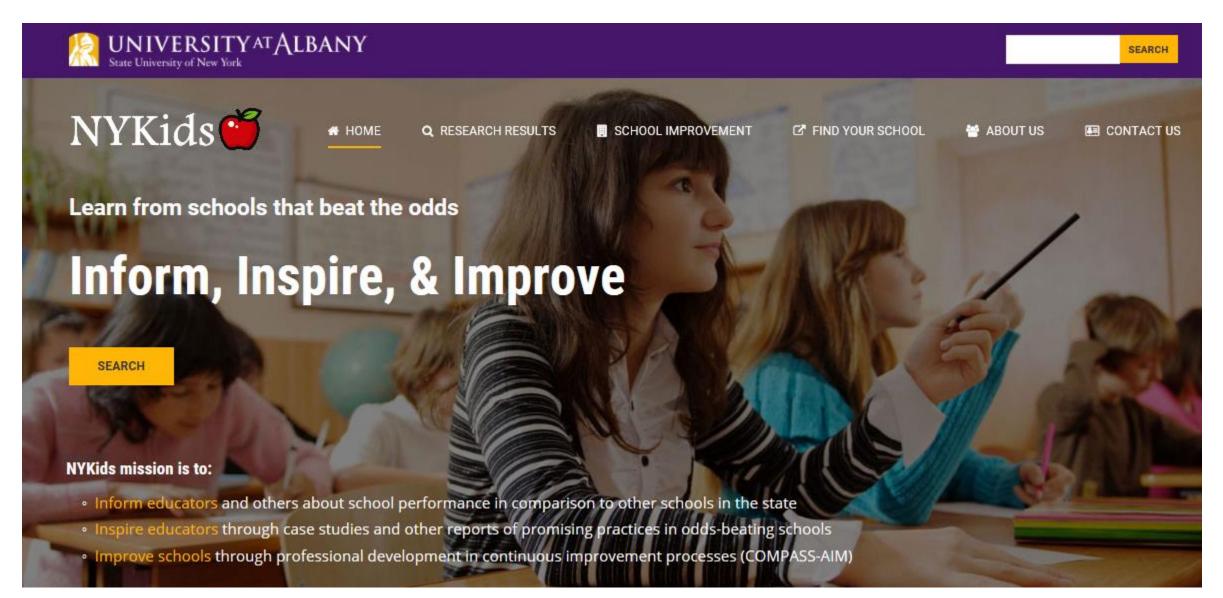


State University of New York

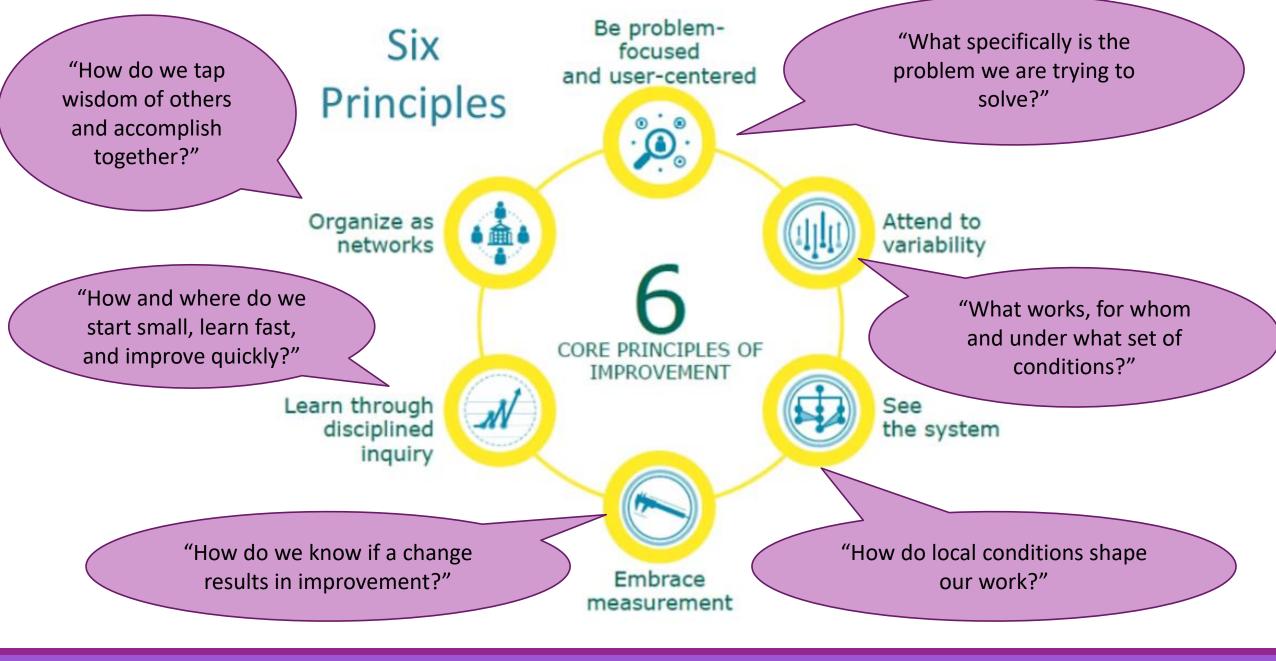
Kristen C. Wilcox, Associate Professor; Research & Development Director, NYKids Amanda Lester, Outreach Coordinator, NYKids Andrew Hills, Principal, Arongen Elementary School, Shenendehowa CSD Mallory Sulz, Gr. 1Teacher, Arongen Elementary School, Shenendehowa CSD Nancy Andress, Faculty, Capital Area School Development Association Susan Tangorre, Faculty, Capital Area School Development Association "The problem-solving work of innovation requires access to 'sticky' information regarding user needs and the context of use . . . we need design which explicitly aims to function in the hands of diverse individuals working in highly varied circumstances."

Bryk et al, 2011





https://ny-kids.org/



Not All Problems and Solutions Are Created Equal

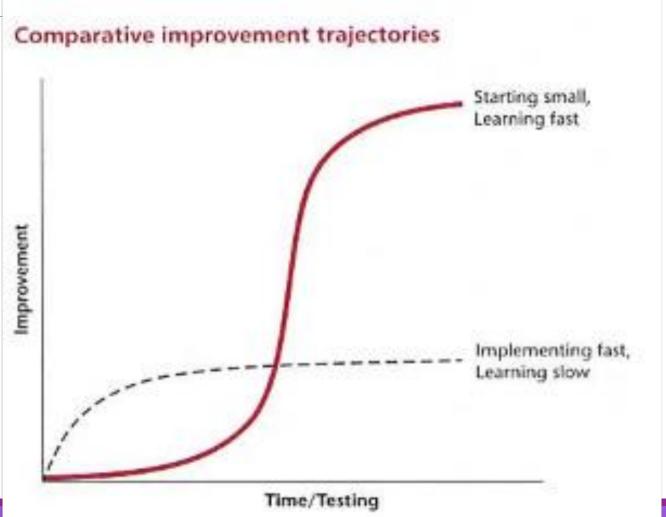
Consider your options...

a. Implement fast – learn slow

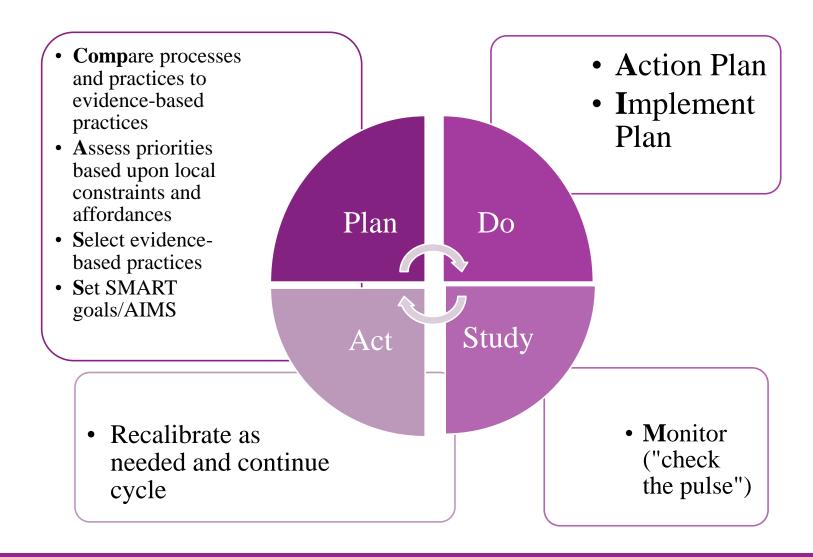
Or

b. Start small – learn fast

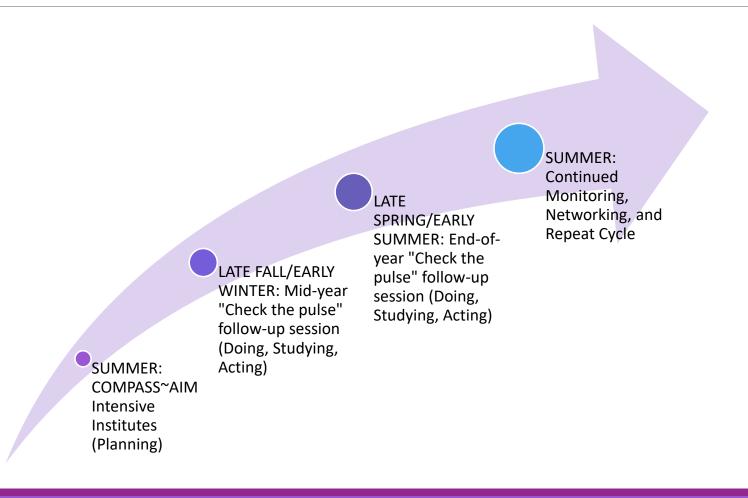
(See Bryk et al, Harvard Ed Letter, 2015)



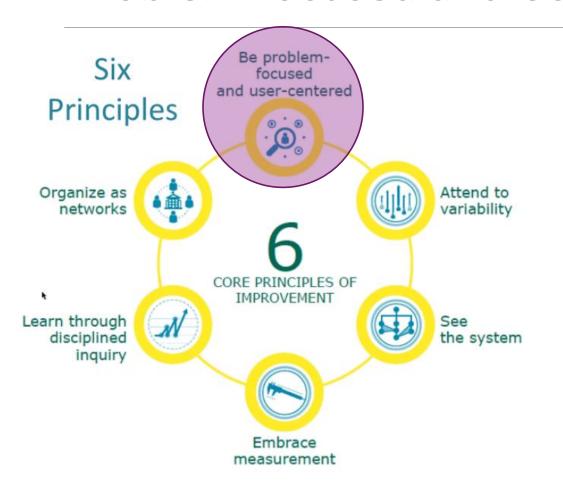
## **NYKids COMPASS Process**

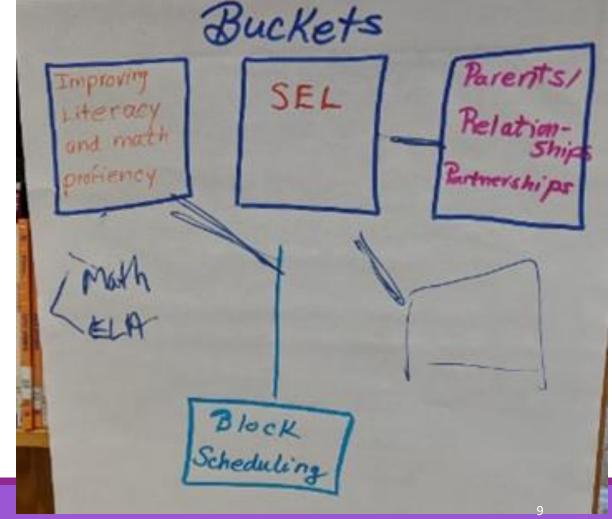


## How COMPASS works

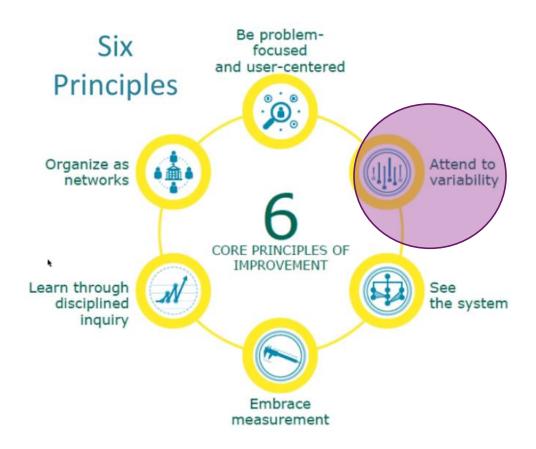


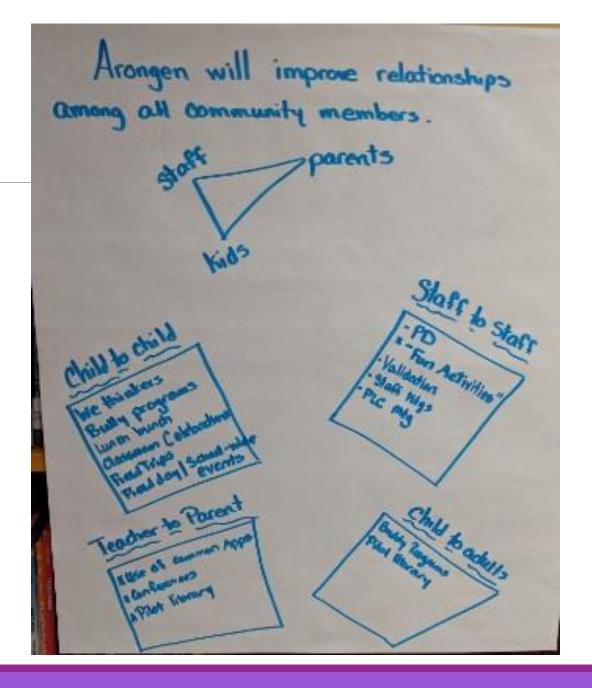
#### Problem-focused and User-Centered



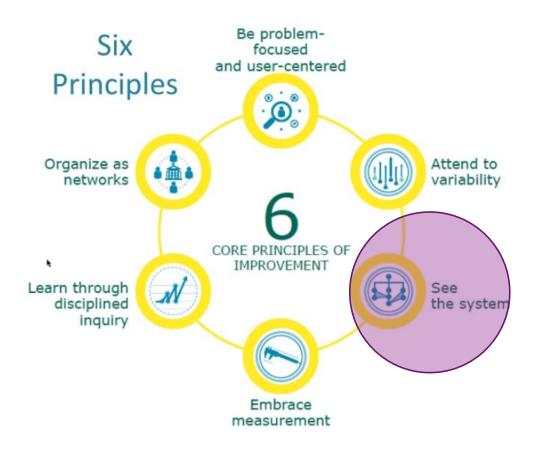


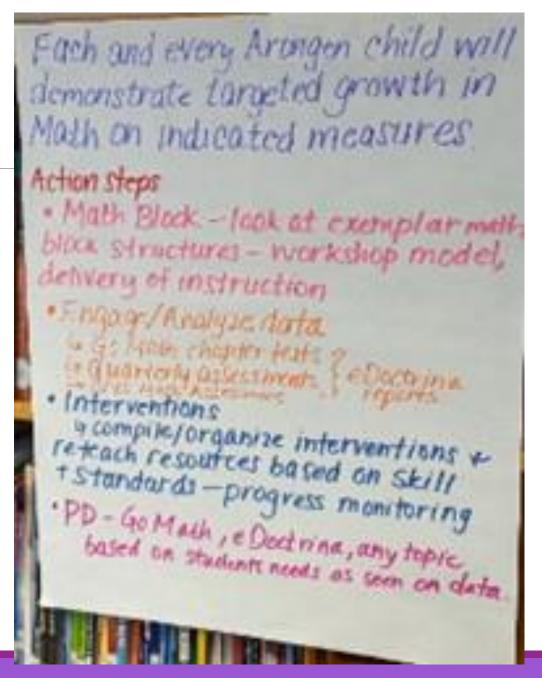
### Attend to Variability



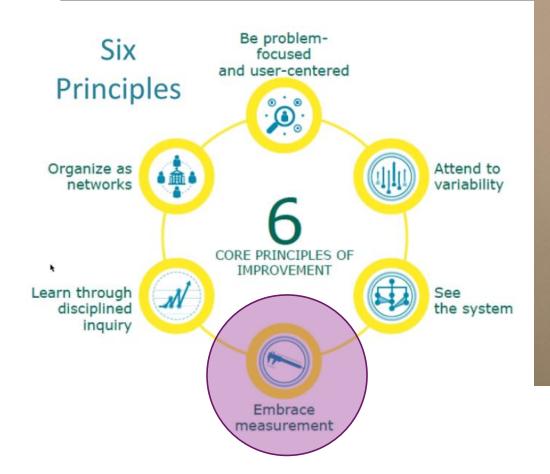


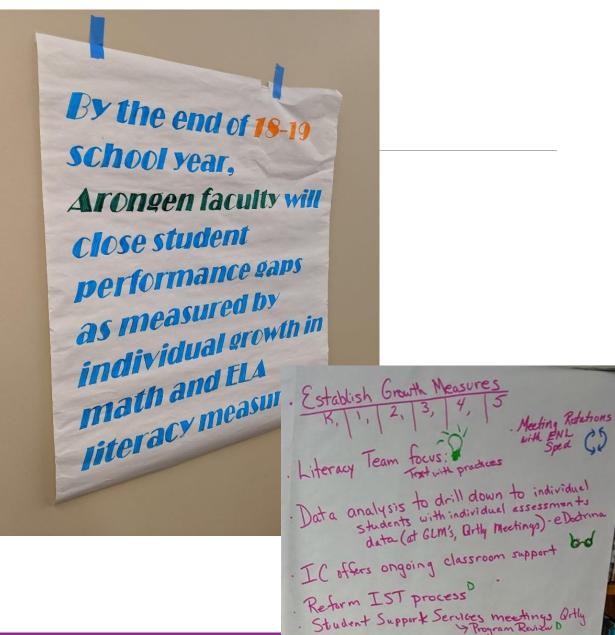
## See the System



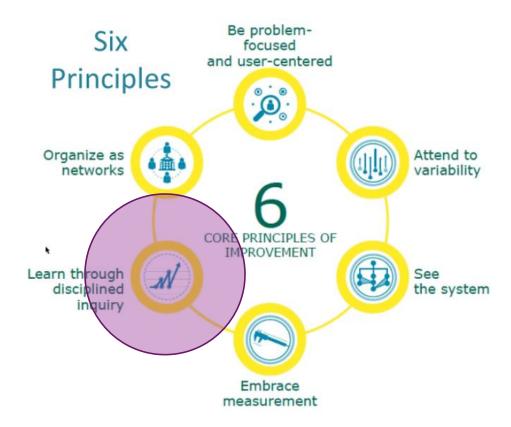


#### **Embrace Measurement**





## Learn Through Disciplined Inquiry



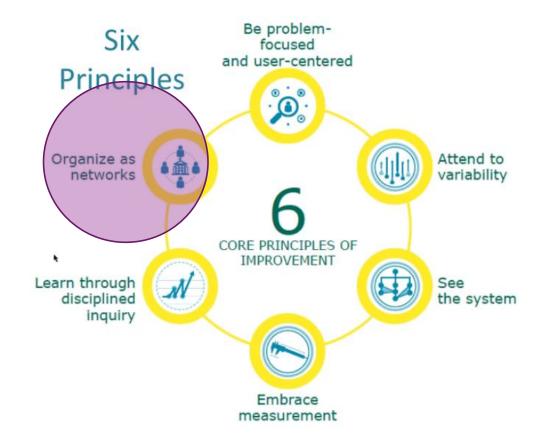
#### Improvement Review: Check the Pulse Summer Meeting

#### Objective

Summarize your team/organization's current progress on your improvement work

Section	Guiding Questions
The big picture	2
Aim & Motivation	What are the goals of your improvement efforts?
Focus and learns	ng of the current phase
Current Performance	What is the current status on your improvement efforts?
Current Focus	Where did you want to be by the end of the year?  Where have you been focusing your energy—what activities have you been engaged in?
Key Learnings	What progress have you made so far?  What have been your most significant learnings?
	<ul> <li>- (Use exidence to suggest your learnings: Share artifacts if available e.g. data displays meeting minutes, stoff meeting agendas, etc.)</li> </ul>
Going forward	
What's next?	Where are you planning to go next?
Questions	What are two questions you have about your action plan (can be challenges you're facing, places where you need more information)?

### Organize in Networks







The Odds-Beating High Schools

Alfred-Almond Junior-Senior HS, Alfred-Almond Central School District



Crown Point Central School, Crown Point Central School District



Malverne Senior HS Freeport HS Freepart Union Free School Malveme Union Free School District



This cross-case analysis builds on the case reports for each of the schools in our sample. These case reports are available at www.elbary.edu/nykids as well as ny-kids.org, and highlights from them appear throughout this report. Introductory details about our sample selection and study methods can be found on page 32. A separate methods and procedures report provides more detail. and it is available on our websites.

HS, Bemus Point Central School District



Magle Grove Junior-Senior Port Chester Senior HS Port Chester-Rye Unified



Sherburne-Eartville Senior HS, Sherburne-Earlville Central School District



# Thank you

#### **Related research:**

Wilcox, K.C., Lawson, H.A, &. Angelis, J.I. with Durand, F., Schiller, K, Gregory, K., & Zuckerman, S\* (2017). *Innovation in odds-beating schools: Exemplars of getting better at getting better*. Lanham, MD: Rowman & Littlefield.

Wilcox, K.C., Lawson, H.A., & Angelis, J. (2017). **COMPASS-AIM: A university/P-12 organizational intervention for continuous improvement**. *Peabody Journal of Education*. doi: 10.1080/0161956x.2017.1368654

Bryk, A.S., Gomez, L., Grunow, A. & LeMahieu, P. (2015). *Learning to improve: How America's schools can get better at getting better.* Cambridge, MA: Harvard Education Publishing.

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