

**Resources and Research:
Improvement Science &
Continuous Improvement Direct Support**

NYKids Research Presentations & Publications:

- Wilcox, K.C., Lester, A., Hills, A., Sulz, M., Andress, N. & Tangorre, S. (2019). **Introduction to improvement science: Lessons learned about engaging in continuous improvement from a research-practice partnership.** This presentation provides an overview of the Six Principles of Improvement Science and how these principles can be applied to improve student outcomes using the COMPASS-AIM process. Retrieved from NYKids website: <https://ny-kids.org/introduction-to-improvement-science-lessons-learned-about-engaging-in-continuous-improvement-from-a-research-practice-partnership/>.
- Wilcox, K.C., Perry, J., Eddy-Spicer, D., Biag, M., Crow, R., Lozano, M. & Peurach, D. (2019). **Preparing school and system leaders for improvement science.** A presentation given as part of an innovative, hands-on mini-workshop on the topic of improvement science. University Council for Educational Administration (UCEA) Convention in New Orleans, LA (11/22/2019). Retrieved from NYKids website: https://ny-kids.org/wp-content/uploads/2019/12/Preparing-School-and-System-Leaders-for-Improvement-Science.final_.pdf.
- Wilcox, K.C., & Zuckerman, S.J. (2019). **Building will and capacity for improvement in a rural research-practice partnership.** *The Rural Educator*, 40(1), 73-90. Retrieved from: <https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1102&context=cehsedadfacpub>
 - Related blog, retrieved from NYKids website: <https://ny-kids.org/building-will-and-capacity-for-improvement-in-a-rural-research-practice-partnership/>
- Andress, N. (2017). **CASDA’s mission in action: Powerful partnership with the University at Albany’s School of Education.** The goals of the COMPASS (Compare; Assess priorities; Select levers for improvement; Set SMART goals and develop action plans) is to engage school teams, led by the principal in reflective, collaborative inquiry that looks holistically at how to impact student performance. The COMPASS-AIM process melds the principles of improvement science with research on odds-beating schools to help schools and districts tackle complex problems effecting student success.
 - **To retrieve article:** <https://ny-kids.org/wp-content/uploads/2018/06/2017-CASDAs-Mission-in-Action.pdf>
 - **To learn more about COMPASS:** <https://ny-kids.org/school-improvement/>
- Wilcox, K. C., Lawson, H. A., & Angelis, J. I. (2017). **COMPASS-AIM: A University/P–12 Partnership innovation for continuous improvement.** *Peabody Journal of Education*, 92(5), 649-674. doi:10.1080/0161956X.2017.1368654 Retrieved from <https://www.tandfonline.com/doi/abs/10.1080/0161956X.2017.1368654?journalCode=hpje20>

- Wilcox, K.C.; Angelis, J.I. & Lawson, H.A. (2015). **Developing capacities for evidence-guided continuous improvement: A university/P-12 network project** [conference paper]. The National Center on Scaling Up Effective Schools (NCSU) Presented at the second NCSU national conference, “Using Continuous Improvement to Integrating Design, Implementation, and Scale Up”, October 7-9, 2015; Nashville, TN. Retrieved from <https://my.vanderbilt.edu/scalingupcenter/files/2016/12/Developing-Capacities-for-Evidence-guided-Continuous-Improvement.pdf>

Research & Resources from Topic-Related Researchers and Organizations:

Resources:

- Carnegie Foundation for the Advancement of Teaching. **Learning to Improve Glossary.** <https://www.carnegiefoundation.org/resources/learning-to-improve-glossary/>
- Carnegie Foundation for the Advancement of Teaching. **Our Ideas.** <https://www.carnegiefoundation.org/our-ideas/>
- Carnegie Foundation for the Advancement of Teaching. **Resources.** <https://www.carnegiefoundation.org/resources/>
- Carnegie Foundation for the Advancement of Teaching. **The Six Core Principles of Improvement.** <https://www.carnegiefoundation.org/our-ideas/six-core-principles-improvement/>
- Carnegie Foundation for the Advancement of Teaching. **Tools.** <https://www.carnegiefoundation.org/resources/tools/>
- Improvement Science Research Network. **What is Improvement Science?** https://isrn.net/about/improvement_science.asp
- REL West. **Introduction to Improvement Science.** <https://ies.ed.gov/ncee/edlabs/regions/west/Blogs/Details/2>
- University at Albany- **The Systems Center-(micro-credential in improvement science)** <https://thesystemscenter.org/>

Research Articles:

- Coburn C. E., Penuel, W. R., & Geil, K. E. (2013). **Research-practice partnerships: A strategy for leveraging research for educational improvement in school districts.** New York: WT Grant Foundation. <https://wtgrantfoundation.org/library/uploads/2015/10/Research-Practice-Partnerships-at-the-District-Level.pdf>
- Hargreaves, A., Parsley, D., & Cox, E. K. (2015). **Designing rural school improvement networks: aspirations and actualities.** *Peabody Journal of Education*, 90(2), 306-321. doi:10.1080/0161956X.2015.1022391. Retrieved from https://peabody.vanderbilt.edu/faculty/pje/pje_volume_90_issue_2_2015/hargreaves_parsley_cox.php.
- LeMahieu, P. G., Bryk, A. S., Grunow, A., & Gomez, L. M. (2017). **Working to improve: Seven approaches to improvement science in education.** *Quality Assurance*

in Education, 25(1), 2-4. Retrieved from
<https://www.carnegiefoundation.org/newsroom/improvement-voices/working-to-improve-seven-approaches-to-improvement-science-in-education/>

- LeMahieu, P. G., S., Grunow, A., Baker, L., Nordstrom, L.E. & Gomez, L. M. (2017). **Networked improvement communities: The discipline of improvement science meets the power of networks.** *Quality Assurance in Education*, 25(1) 5-25. Retrieved from <http://www.emeraldinsight.com/doi/full/10.1108/QAE-12-2016-0084>.
- Park, S., Hironaka, S., Carver, P., & Nordstrom, L. (2013). **Continuous improvement in education [white paper]**. Retrieved from Carnegie Foundation for the Advancement of Teaching: https://www.carnegiefoundation.org/wp-content/uploads/2014/09/carnegie-foundation_continuous-improvement_2013.05.pdf
- Peurach, D. J. (2016). **Innovating at the nexus of impact and improvement: Leading educational improvement networks.** *Educational Researcher*, 45(7), 421-429. doi: 10.3102/0013189X16670898. Retrieved from <https://journals.sagepub.com/doi/abs/10.3102/0013189X16670898?journalCode=edra>
- Tichnor-Wagner, A., Wachen, J., Cannata, M., Cohen-Vogel, L. (2017). **Continuous improvement in the public-school context: Understanding how educators respond to plan-do-study-act cycles.** *Journal of Education Change*, 1-30. doi: 10.1007/s10833-017-9301-4. Retrieved from <https://link.springer.com/article/10.1007/s10833-017-9301-4>.