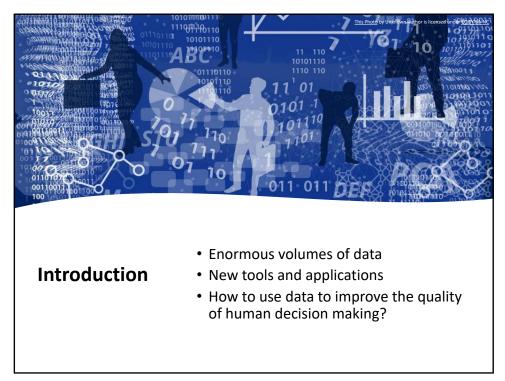
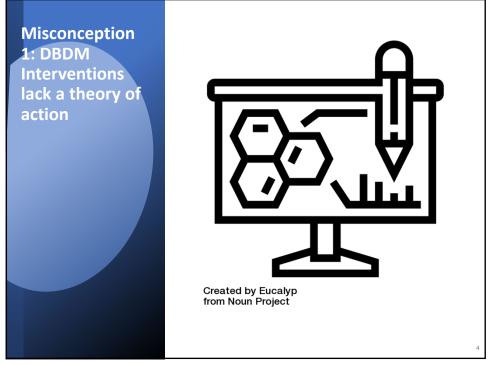
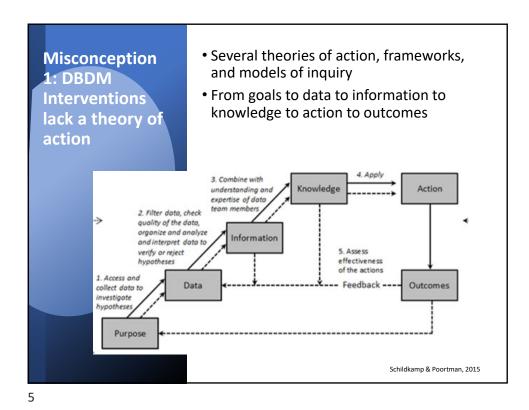


In this presentation

- Theory of action and theory of learning
- Data use for accountability and improvement
- Data triangulation
- Data use as a collective effort including students



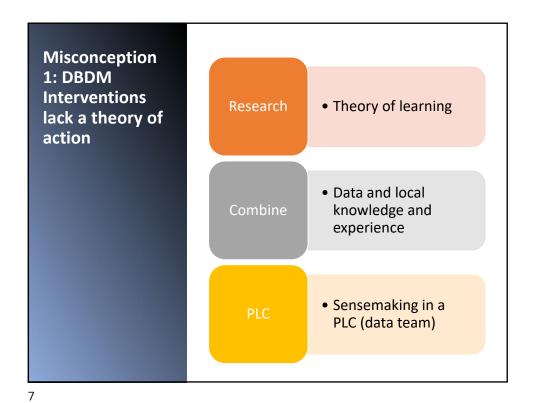




Misconception
1: DBDM
Interventions
lack a theory of action

Challenges

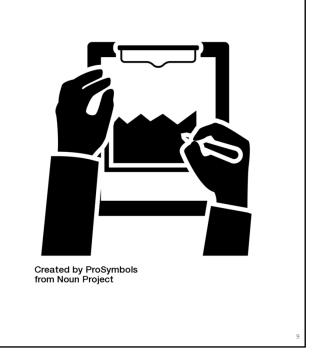
- Data use is:
 - not straightforward and linear
 - iterative
 - involves sensemaking
- Focus on student learning but what about teacher learning?
- How do we combine data with local knowledge and experience?
- A theory of learning?



The datateam® procedure

• 6-8 teachers and school leaders
• Start is educational problem and goal
• Goals: professional development and improvement
• Coaching
• 10 years
• 5 countries

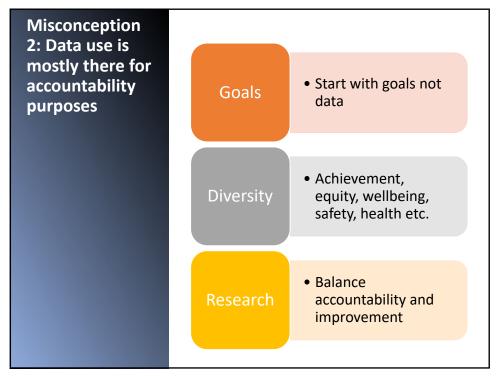


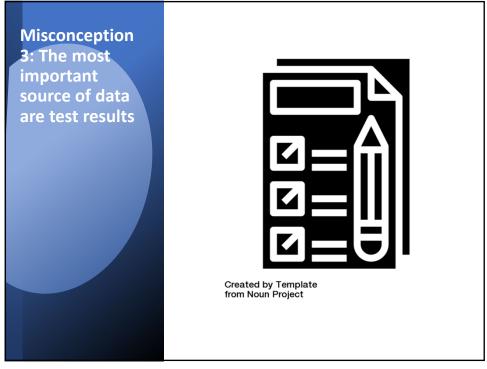


Misconception
2: Data use is
mostly there for
accountability
purposes

Challenges

- Shaming and blaming, deficit mindsets
- Narrow curricula
- Short-term goals, bubble kids
- Focus on test scores not on whole child
- "Accountability without improvement is empty rhetoric, and improvement without accountability is whimsical action without direction"
- Data in an accountability system can reveal aspects that need improvement
- Different stakeholders different goals
- Goals: Deliberation, negotiation, debate





Misconception 3: The most important source of data are test results

Data

- · Systematically collected
- Qualitative & quantitative
- Cognition, socio-emotional, attitudes, behavior etc.
- Socially constructed
- · Goal displacement
- New goals require new data
- Triangulation
- · Student voice data

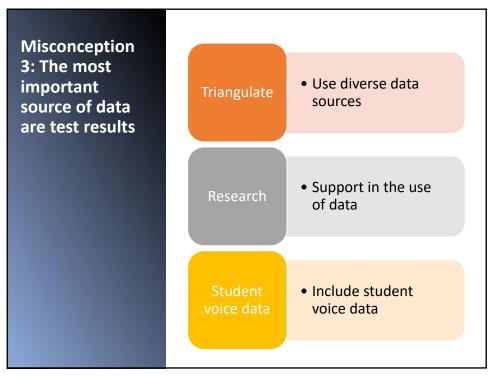
13

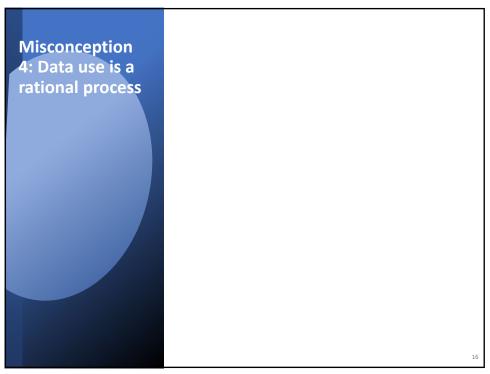
Misconception 3: The most important source of data are test results

Challenges

- Overreliance on assessment data and/or lack of access to other data
- Interim data show which students need help, understanding of misconceptions or next instructional steps is missing
- Look beyond traditional student performance indices
- Students are not numbers





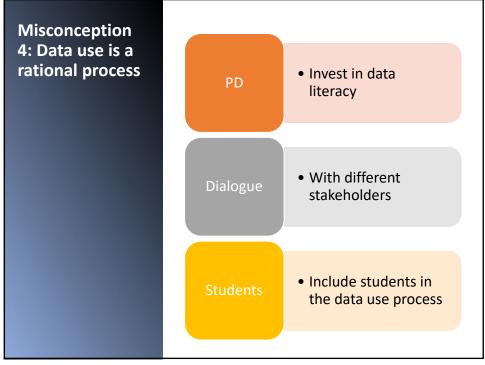


Misconception 4: Data use is a rational process

Challenges

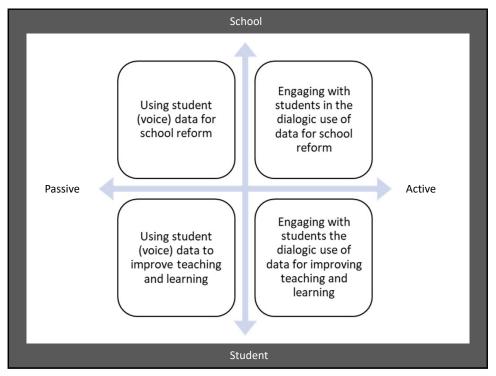
- Data use is not straightforward or exclusively rational
- People filter data through lenses, experiences, intuition
- Confirmation bias
- Collective engagement
- Sensemaking and dialogue is crucial
- Requires data literacy

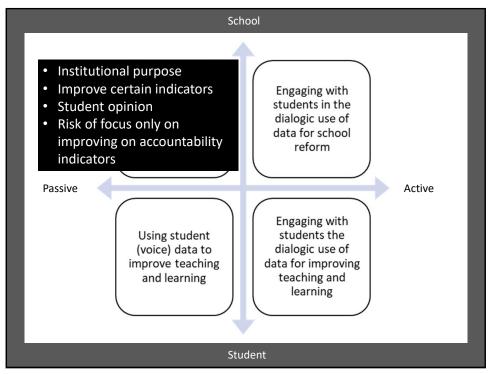
17

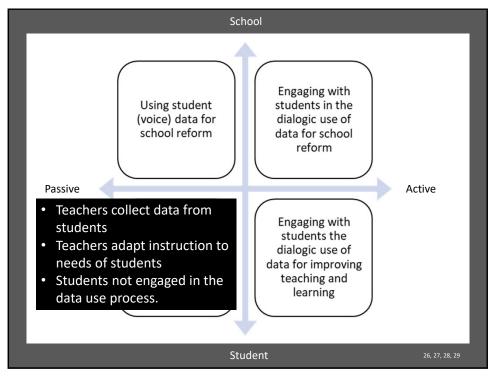


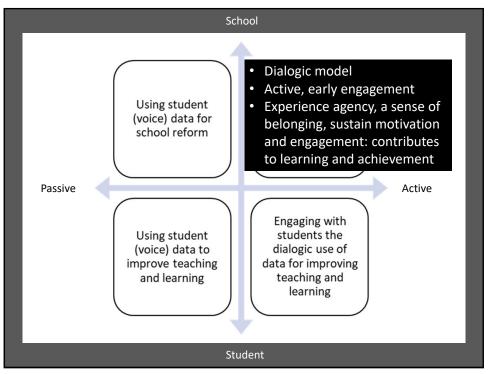


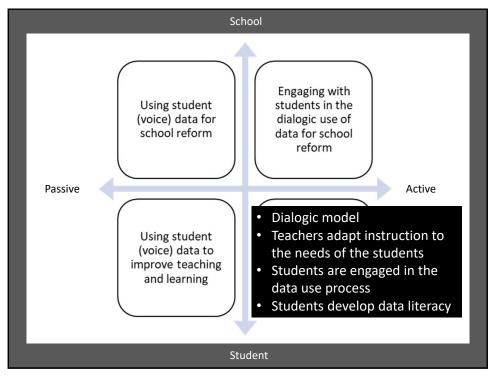


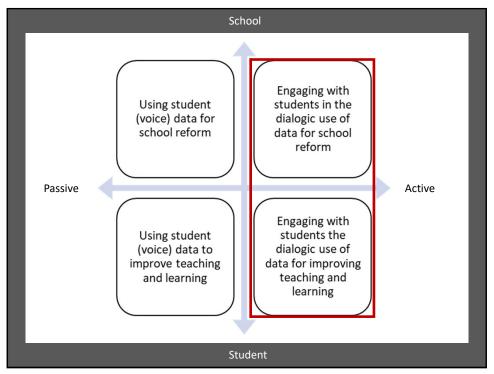


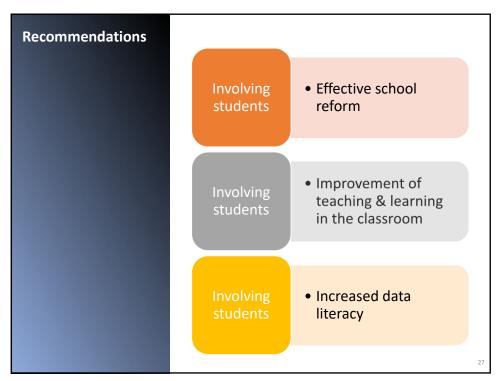






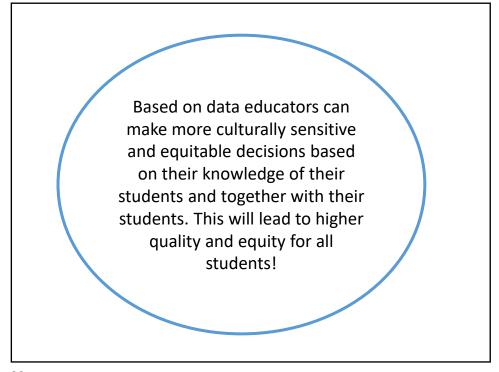


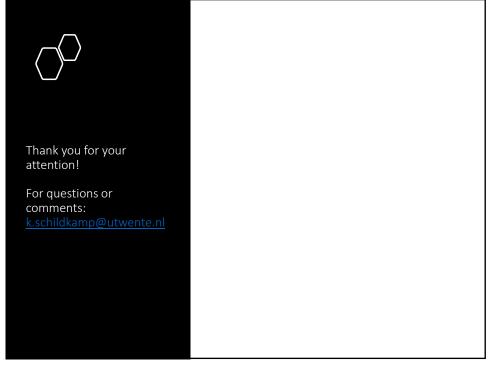






- Data use not rational and technical, it involves human aspects
- For studying data use a theory of action and theory of learning is
- Data can be used for accountability and improvement
- Triangulate data
- Effective data use requires a collective effort including students





- This presentation is based on

 1. Berliner, D. C. (2011). Rational responses to high stakes testing: The case of curriculum narrowing and the harm that follows. Cambridge Journal of Education, 41(3), 287–302.

 2. Bertrand, M., and J. A. Marsh. 2015. "Teachers' Sensemaking of Data and Implications for Equity." American Educational Research Journal 52 (5): 861–893.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow the Bubble: "Educational Triage" and the Texas Accountability System." American Educational Research Journal 42 (2): 231–268.

 3. Booher-Innnings, J. 2005. "Bellow th
- .v. w, A., Park, V., & Choi, B. (2018). "Everyone's responsibility": Effective team collaboration and data use. In N. Barnes, & H. Fives (Eds.). Cases of teachers' data use (pp. 145–161). New York, NY: Routledge

- Dation, A., Pai, N., et No., e

- Educational Evaluation 42: 35-40. doi:10.1016/j.stueduc.2013.10.006.

 Kippers, W. B., Poortman, C. L., Schildkamp, K., & Visscher, A. J. (2018). Data literacy: What do educators learn and struggle with during a data use intervention? Studies in Educational

- Kippers, W. B., Poortman, C. L., Schildkamp, K., & Visscher, A. J. (2018). Data literacy: What do educators learn and struggle with during a data use intervenious: a country of the proportion of the large properties. In Contract Science of the proportion of the large properties of the proportion of the large properties. In Contract Science of the proportion of the large properties (pp. 9–21). Dordrecht: Springer.
 Lasater, K., Bengtson, E., & Abillaid, W. S. (2020). Data use for equity?: How data practices incite deficit thinking in schools. Studies in Educational Evaluation, online pre-publication (Lavertu 2014).
 Lavertu, S. 2014. "We All Need Help: "Big Data" and the Mismeasure of Public Administration." Public Administration Review 76 (6): 864–872. doi:10.1111/puar.12436
 Mandinach, E. B., & Gummer, E. S. (2016). What does it mean for teachers to be data literate: Laying out the skills, knowledge, and dispositions. Teaching and Teacher Education, 60, 366–378. Mandinach, E. B., & Warner, S. & Mundry, S. E. (2019). November). Using data to promote culturally review teaching (weblains). Washington, Dr. U. S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast & Islands.
 Mandinach, E. B., & Schildkamp, K. (2020). Misconceptions about data-based decision making in education: An exploration of the literature. Studies in Educational Evaluation, online prepublication.
- publication.
 21. Mandinach, E. B., Warner, S., & Mundry, S. E. (2019, November). Using data to promote culturally responsive teaching (webinar). Washington, DC: U.S. Department of Education,

- Mandinach, E. B., Warner, S., & Mundry, S. E. (2019, November). Using data to promote culturally responsive teaching (webinar). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast & Islands.
 Mitra, D. (2004). The significance of students: can increasing "student voice" in schools lead to gains in youth development?. Teachers college record, 10(4), 651-688.
 Poortman, C. L., and K. Schildkamp. 2016. "Solving Student Achievement Focused Problems with a Data Use Intervention for Teachers." Teaching and Teacher Education 60: 425–433.
 doi:10.1016/j.tate.2016.06.010.
 Schildkamp, K., R. Poortman, C. L. (2015). Factors influencing the functioning of data teams. Teachers College Record, 117(4).
 Schildkamp, K., C. L. Poortman, and A. Handetzalts. 2016. "Data Teams for School Improvement." School Effectiveness and School Improvement 27 (2): 228–254.
 doi:10.10.1080/93243432.2015.1056192
 Tulowitzki, P. 2016. "Educational Accountability around the Globe. Challenges and Possibilities for School Leadership, editor by J. Easily I and P. Tulowitzki, 232–238. London: Routledge.
 Valondment, K., & Schildkamp, K., (2019). How Do Teachers Make Sense of Data in the Context of High-Stakes Decision Making?. American educational research journal, 56(3), 792-821.
 Weiss, C. H. 1998. "Have We Learned Anything New about the Use of Evaluation?" American Journal of Evaluation 19 (1): 21–33. doi:10.1177/109821409801900103.

- 27.
- 28. 29.