



Issues in Measuring Learning

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Themes from Panel

- ▣ Measuring learning to lead to improvement
- ▣ Alignment with national priorities, existing goals, standards and culture
- ▣ Equity as organizing principle
- ▣ Ensure data are valuable and recognize country capacity

What's Ideal?

- Achieve expectations at global level for SDG monitoring by producing universal learning indicators for each target
 - Agreement on what counts as reaching minimum proficiency in global context
 - Define technical pathways to produce the indicators
 - Promote reliable national, regional and global measurement to produce necessary data
 - Equity in measurement

Big Issues to Resolve ...

- While targets are focused on different ages and types of learning, there are common elements in each
- These include defining ...
 - Comparability: What's globally comparable? How can multiple forms of data help define this?
 - Thresholds: What's "good enough" learning and development – minimum levels of proficiency, basic learning, developmentally on track
 - Periodicity: How frequently to measure – should be based on policy impact, sensitivity to interventions

Globally Comparable

- Two elements to start with ...
 - **Conceptual agreement** on what should be relevant across contexts
 - **Empirical support** to demonstrate that measurement and more specifically, items function in similar-enough ways across contexts
- Possible and plausible to conclude some constructs are not globally comparable
 - Tricky balance in light of greater emphasis, political prioritization of areas that can be compared

How can comparability be addressed?

- ❑ Define common content through examination of existing measures, curricula framework
- ❑ Use psychometric models to order items in terms of difficulty
- ❑ Examine degree of similarity in how items function across countries
- ❑ Determine appropriate level at which to “compare”
- ❑ Other methods?

Options for Making Measurement Easier

1. One measure used everywhere: Same items, same administration everywhere, with some degree of adaptation
2. Common core of items: One set of items, part of larger and more culturally-adapted set
3. Common constructs, with items that may vary: May be able to “match” at level of construct, but with different items
4. Whatever country feels is appropriate (thresholds set by country measures that meet global standards)

Defining Thresholds

- What counts as
 - “minimum proficiency”
 - “fixed level of proficiency”
 - “developmentally on track”
- **Absolute** (*defined by reaching a set standard - criterion*) or **relative** (*defined in relation to rest of population – norm-referenced*)
- Is there a common level of functioning that is applicable to all people?
 - Should be considered within framework of the goal – focused on equity

Periodicity

- **Frequency of measurement:**
 - What's feasible? How frequently can data reasonably be produced?
 - How sensitive are data to changes in policies, investments, practice?
- Balance between **feasibility and sensitivity**
 - More feasible can also be less sensitive to change
- **Country capacity** for high-quality measurement, balance between measurement complexity vs attainable capacity building
- Showing **change over time**, as well as absolute scores

Comparability

- Pathways to defining “globally comparable” should be outlined for each target
 - Both conceptual knowledge and existing data should be used to generate recommendations for globally comparable
 - Multiple methodologies may be applicable and necessary
- “Ideal”: Some degree of comparability, respecting cultural differences and nature of learning in various constructs

Thresholds

- Articulating a threshold: core question of absolute vs. relative
 - How much do we know about the science of learning to define this?
 - Define what data and methodologies are required to produce absolute vs. relative data

- “Ideal”: Method most likely to reveal equity between and within countries ... absolute or relative may vary by target?

Periodicity

- Consideration of
 - Likely sensitivity of the data to changes in policy and investment
 - Feasibility of large-scale data collection
 - Ability of data to show changes over time, to show progress

- “Ideal”: Data collected on regular basis, sensitive to large shifts and able to detect progress

Main Points for Discussion

- How best to balance the technical challenges with political demands for data on learning
- What are the pros and cons of reaching for higher degrees of comparability across constructs and targets?
- How can the agenda on equity be expressed through measurement?