## **Student Assessment**

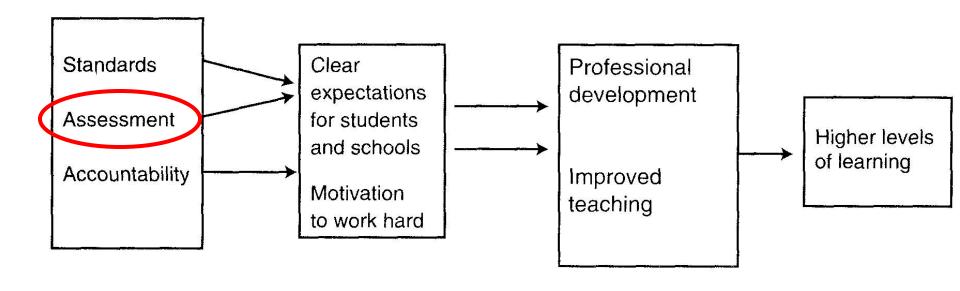
# Session 2 Why student assessment is important

Room I2-220 Washington, DC





## A theory of change



#### **Session overview**

- Key evidence and good practices for student assessment
- Different assessment models
- What matters most for student assessment systems?
  - Introduction to SABER-Student Assessment framework

# Definitions, key evidence, good practices

#### What is student assessment?

...the process of gathering and evaluating information on what students know, understand, and can do in order to make an informed decision about next steps in the educational process.

## What is a student assessment <u>system</u>?

... a group of policies, structures, practices, and tools for generating and using information on student learning and achievement.







# What counts as key evidence and best practices for effective assessment?



### Classroom assessment



Strong link between highquality assessment and better learning outcomes

Gains of half to full standard deviation on standardized tests (Black & Wiliam, 1998; Rodriguez, 2004)

More work needed to define and isolate characteristics that lead to improved outcomes (Bennett, 2011)

### **Examinations**

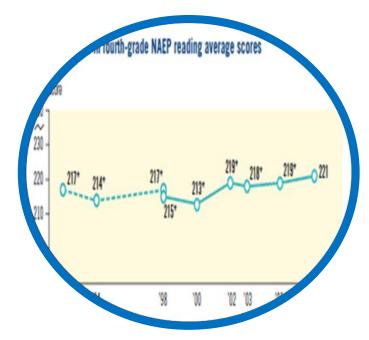


Link between exit exam policies and higher performance levels on international assessments (Bishop, Mane, & Bishop, 2001)

Link between specific characteristics of the test and student learning outcomes (Au, 2007; Hill, 2010)

Can have negative impact on students (Greaney & Kellaghan, 1995; Madaus & Clarke, 2001)

## Large-scale 'survey' assessment



Simply reporting information about average school scores can lead to increased student performance (Hanushek & Raymond, 2003)

Overall weak, positive link between accountability uses of data and better learning outcomes (Carnoy & Loeb, 2002)

Much to learn about optimal design for accountability models that will produce best outcomes with fewest negative side effects

# Different countries... different assessment models



### **Finland**



- Strong emphasis on classroom-based formative assessment activities
- Limited use of high-stakes examinations
- Regular schedule of low-stakes, large-scale assessment activities for system monitoring





#### China



- Strong emphasis on high-stakes examinations
- Emergent focus on classroom assessment and large-scale assessment

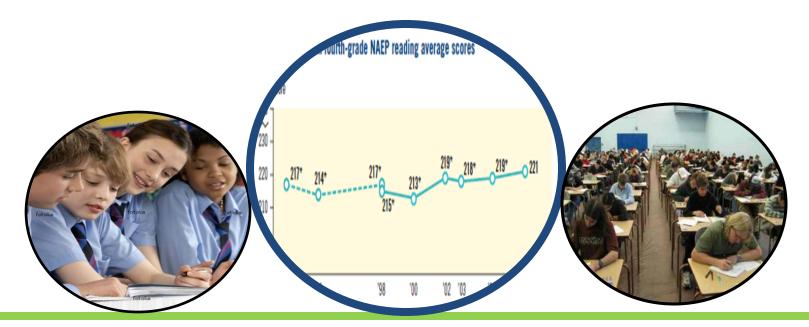








- Very strong emphasis on large-scale assessment
- Strong emphasis on classroom assessment and examinations

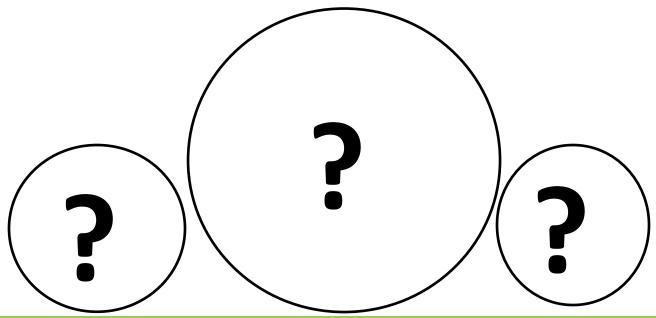




# <Name of country in which you work>?

- Classroom assessment
- Examinations

Large-scale assessment



## **Activity: Choosing among models**

- Identify your preferred assessment model and discuss the reasons behind your preference.
  - Which is your preferred model?
    - 1. More emphasis on classroom assessment
    - 2. More emphasis on external examinations
    - 3. More emphasis on large-scale assessments
  - -Why?
  - Under what conditions would you recommend it to a client?

# What matters most for student assessment systems?

## Assessment types/purposes

#### Classroom assessment

For improving teaching and learning

#### Examinations

 For making high-stakes decisions about individual students

#### Large-scale assessment

•For determining system learning levels and related factors



Trend in fourth-grade NAEP reading average scores



## **Quality drivers**

#### Enabling context

 Leadership, policies, institutional arrangements, human/fiscal resources



#### System alignment

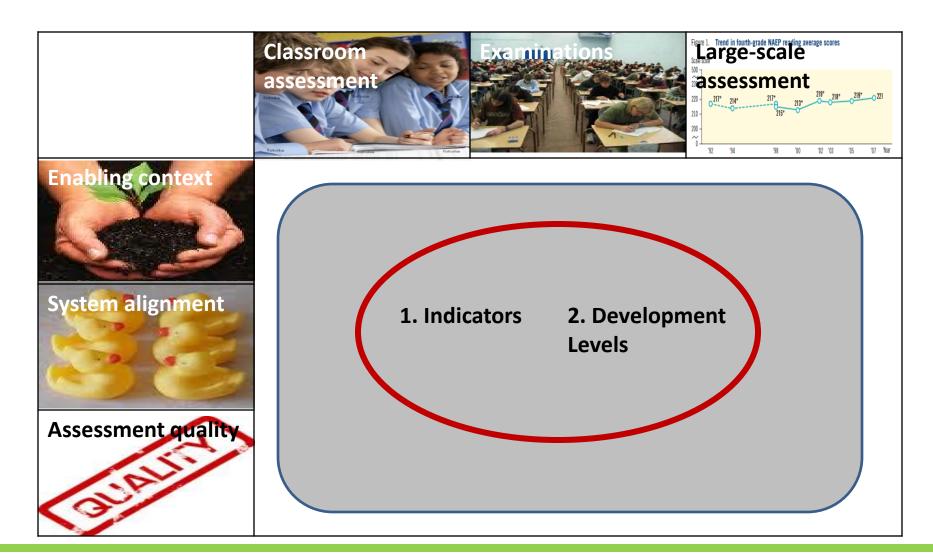
Learning goals, curricula, opportunities

#### Assessment quality

- Design, administration, analysis
- Reporting and use



### Framework



### **Indicators**

#### Enabling context

 Policies, leadership, institutional arrangements, budget, human resources

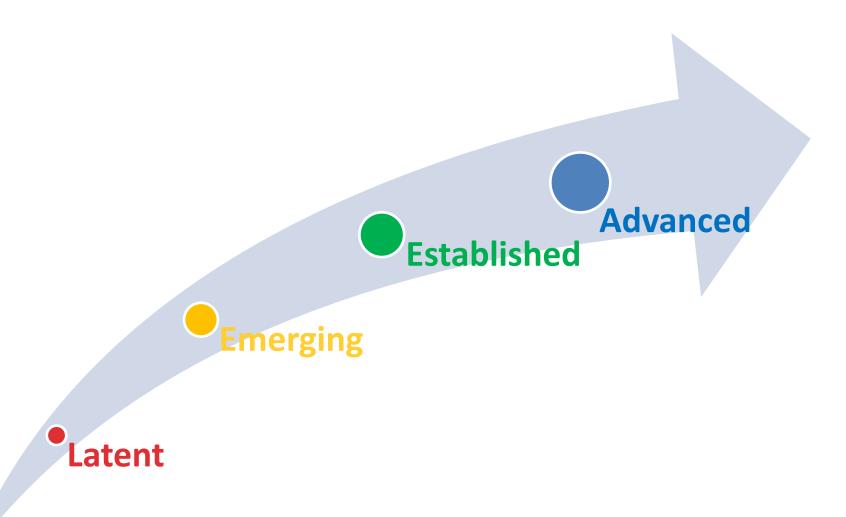
#### System alignment

Learning standards and goals, curricula

#### Assessment quality

Technical features, dissemination, use, quality assurance

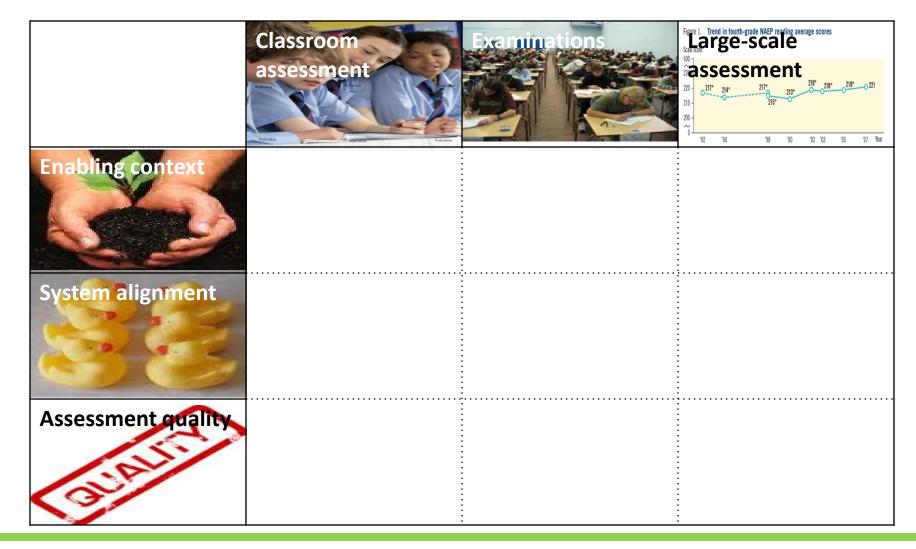
## **Development levels**



# Activity: Applying the framework to your regional context

- Using the framework as an organizing structure, discuss the relative strengths and needs of countries in the region where you work in the area of assessment.
- What data did you draw on to come to your conclusions?
- What other data would you need before taking any action?

### Framework



### **Indicators**

#### Enabling context

 Policies, leadership, institutional arrangements, budget, human resources

#### System alignment

Learning standards and goals, curricula

#### Assessment quality

Technical features, dissemination, use, quality assurance

### **Extra slides**

## Classroom Assessment Development Levels

**Angola** 

Mozambique

Zambia

Bangladesh

Nepal

**Pakistan** 

Sri Lanka

Serbia

**Armenia Finland** 

Kazakhstan Korea

> Some/sufficient system-wide institutional capacity.

Strong systemwide institutional capacity to support and ensure quality of classroom assessment

practices.

**Ethiopia Kyrgyz Republic** 

> No systemwide

institutional capacity.

Latent

**Emerging** 

Weak system-

institutional

capacity.

wide

**Established** 

## **Examinations** Development Levels

**Ethiopia** 

Zambia

Bangladesh

Nepal

Korea

Angola Sri Lanka

Mozambique **Armenia Pakistan** 

Kazakhstan

**Kyrgyz Republic** 

Serbia

Partially stable standardized exam, typically of poor quality.

**Finland** 

Stable standardized exam of acceptable quality; limited monitoring mechanisms.

Stable standardized exam of high quality; institutional capacity and strong monitoring mechanisms.

No standardized exam.

Latent

**Emerging** 

**Established** 

## National Large-Scale Assessment Development Levels

**Ethiopia** 

Mozambique

Zambia

Bangladesh

Nepal

**Pakistan** 

Sri Lanka

**Armenia** 

Kazakhstan

Kyrgyz Republic

Serbia

**Angola** 

No NLSA in place.

**Finland** 

Korea

Unstable NLSA in place; assessment quality and impact weak.

Stable NLSA of moderate quality in place; information disseminated, but not used effectively.

Stable NLSA of high quality in place; information effectively used.

Latent

**Emerging** 

**Established** 

# International Large-Scale Assessment Development Levels

Mozambique Zambia Kyrgyz Republic

Angola
Ethiopia
Bangladesh
Nepal
Pakistan

Sri Lanka

Participation in ILSA initiated.

No history of participation in ILSA .

Armenia Kazakhstan Serbia Korea

More or less stable participation in ILSA.

**Finland** 

Stable participation in ILSA. Information effectively used to improve education.

Latent

**Emerging** 

**Established** 

### **Sub-Saharan Africa**

|            | Classroom<br>Assessment | Examinations | Large-scale Assessment |               |
|------------|-------------------------|--------------|------------------------|---------------|
|            |                         |              | National               | International |
| Angola     |                         |              |                        |               |
| Ethiopia   |                         |              |                        |               |
| Mozambique |                         |              |                        |               |
| Zambia     |                         |              |                        |               |

### **South Asia**

|                                 | Classroom<br>Assessment | Examinations | Large-scale Assessment |  |
|---------------------------------|-------------------------|--------------|------------------------|--|
|                                 |                         | National     | International          |  |
| Bangladesh                      |                         |              |                        |  |
| Nepal                           |                         |              |                        |  |
| Pakistan<br>(Punjab &<br>Sindh) |                         |              |                        |  |
| Sri Lanka                       |                         |              |                        |  |

## Eastern Europe, Central Asia

|                    | Classroom<br>Assessment | Examinations | Large-scale Assessment |               |
|--------------------|-------------------------|--------------|------------------------|---------------|
|                    |                         |              | National               | International |
| Armenia            |                         |              |                        |               |
| Kazakhstan         |                         |              |                        |               |
| Kyrgyz<br>Republic |                         |              |                        |               |
| Serbia             |                         |              |                        |               |

## Key trends and issues

- Blended cognitive and psychometric models
- Blurring of lines between classroom and external assessment events
- Measuring 21<sup>st</sup> century skills, cognitive, noncognitive
- Key role of technology
- Key role of teachers
- Accountability uses of assessment data
  - Value-added models
  - NGOs and community mobilization

## 21st century skills

#### **WAYS OF THINKING**

Creativity and innovation
Critical thinking, problem solving, decision making
Learning to learn

#### **TOOLS FOR WORKING**

Information literacy
ICT literacy

#### **WAYS OF WORKING**

**Communication Collaboration** 

#### WAYS OF LIVING IN THE WORLD

Citizenship

Life and career

Personal and social responsibility



## Sample item

