











July 9, 2020

### **ICAN**

International Common Assessment of Numeracy Background, Features and Large-scale Implementation



























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Citizen-Led Assessment (CLA) approach innovated in India in 2005
Adopted and adapted in other Global South contexts
People's Action for Learning (PAL) Network formalised in 2015, now comprising members in 14 countries across 3 continents

## **CLA** approach is relevant for the Global South

#### Core features of CLAs:

- Conducted in households to include all children irrespective of schooling status
- Implemented orally and one-on-one as many children cannot read
- Cover foundational learning content taught in early primary classes
- Administer simple-to-use tools, processes and produce easy-to-understand data to ensure wider engagement
- Ensure collaboration with local stakeholders to create awareness and fuel local action

## Global goal for education: SDG 4

- SDG 4 focuses on ensuring "inclusive and equitable quality education and lifelong learning opportunities for all."
- Within Target 4.1, the first indicator (SDG 4.1.1) tracks the "proportion of children and young people achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex"
  - (a) in Grade 2 or 3 Critical to measure learning early so that corrective measures can be implemented
- Robust and regular data on learning outcomes are needed over time and across countries
- Limited relevance of existing data to track progress towards SDG 4.1.1 for grades 2 or 3

## ICAN - A comparable assessment for the Global South

The minimum proficiency level descriptor for numeracy under SDG 4.1.1 for class 2 or 3 requires students to demonstrate skills in number sense and computation, shape recognition and spatial orientation.

Overview of domains and tasks in the ICAN assessment tool

#### **NUMBER KNOWLEDGE**

- Counting, comparing number of objects
- Number recognition
- Operations (without and with carry-over, borrow and remainder)
- Real world problems

#### **GEOMETRY**

- Position and direction
- Shapes and figures

#### **MEASUREMENT**

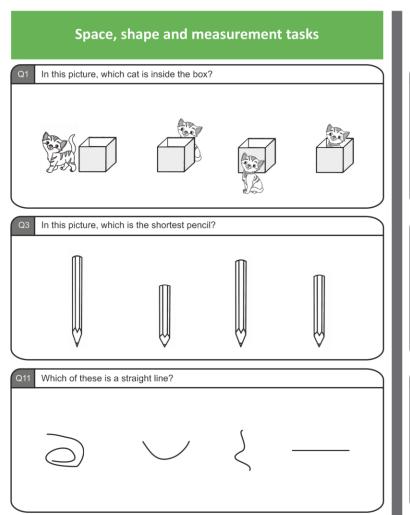
- Length and capacity
- Time and calendar

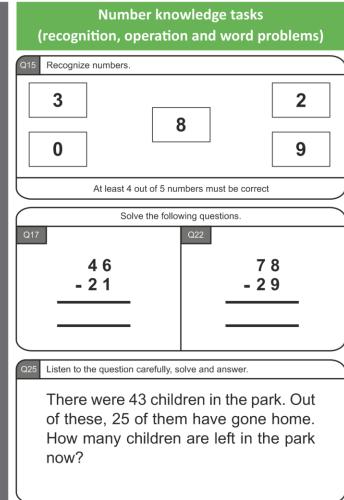
#### **DATA DISPLAY**

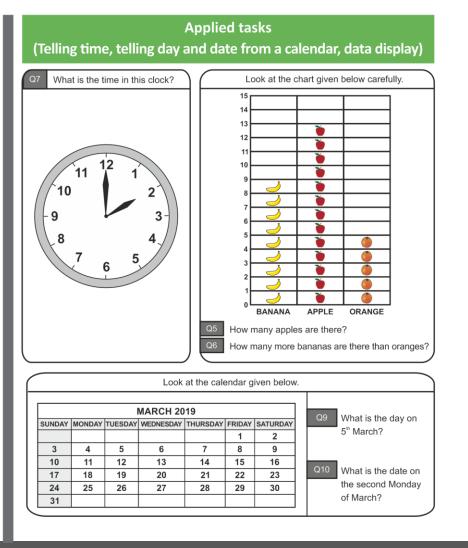
Retrieving simple information



## Sample tasks from the ICAN assessment tool







## ICAN 2019: Large-scale household-based implementation

- Proof of concept feasibility of using common tools across different country contexts
- ICAN 2019 retained all core features of the CLA architecture
- Translation, training, data collection procedures based on PAL Network's Data Quality
   Standards Framework (DQSF) in all participating countries
- Implementation by PAL member organisations in collaboration with local partners



Conducted in 13 countries

60 randomly sampled rural communities in
1 district per country

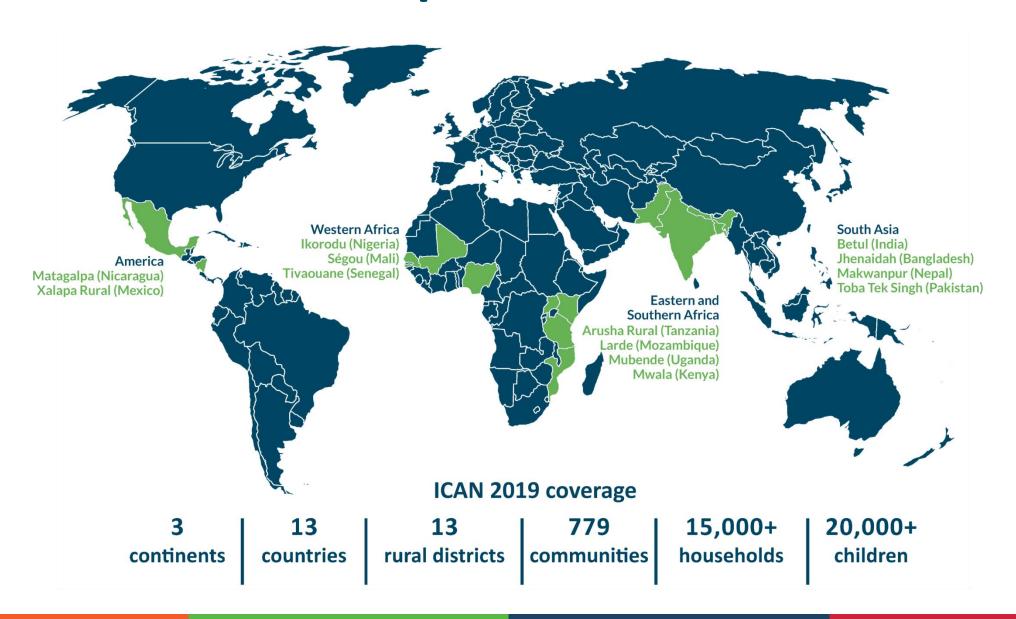
District not an outlier in terms of learning

outcomes

Administered in randomly sampled households to children in the age-group of 5-16 years

Each child assessed orally, one-on-one

## ICAN 2019: sampled districts and reach

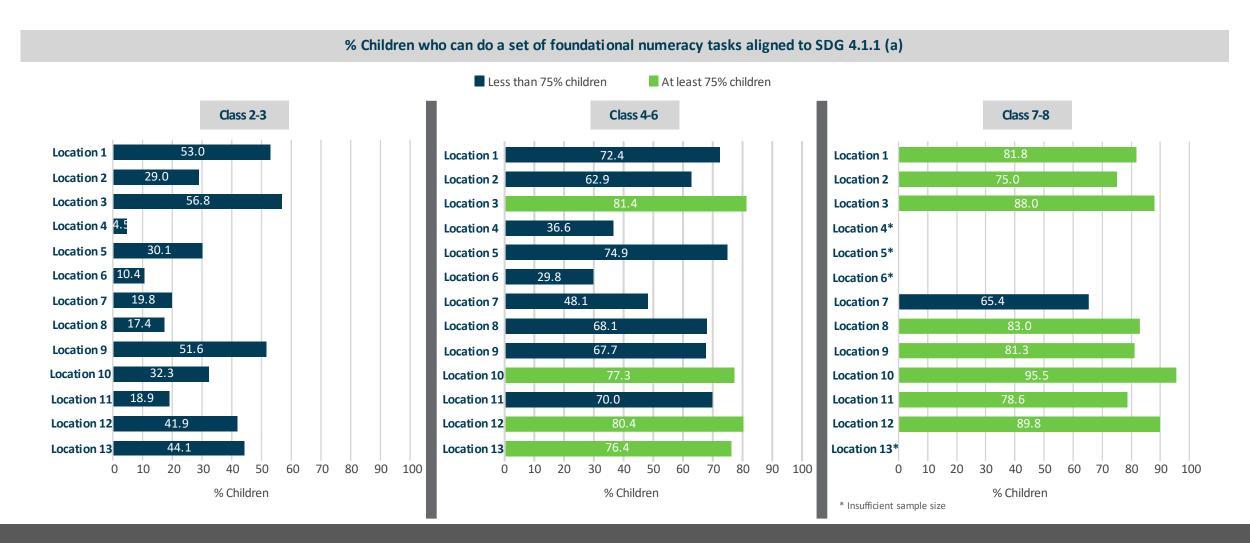


## Illustrative findings from ICAN 2019

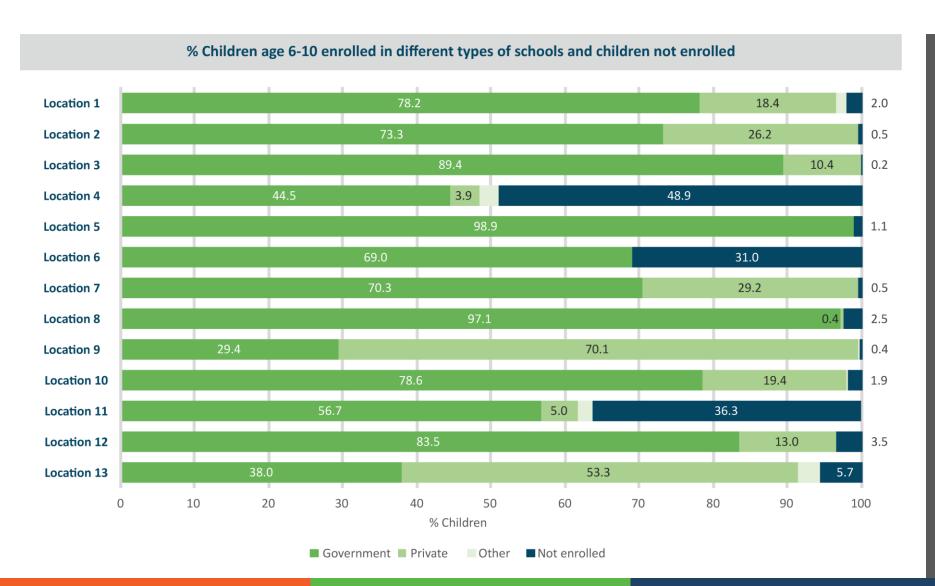
Purpose of this round of implementation was to test feasibility
 across country contexts and to showcase the kinds of comparisons
 that the use of ICAN on scale facilitates

In the ICAN 2019 Report, district names are anonymized as Location
 1, Location 2, and so on while showing comparative analysis

# No location has at least 75% children in class 2-3 who can do numeracy tasks mapped to SDG 4.1.1 (a) criteria



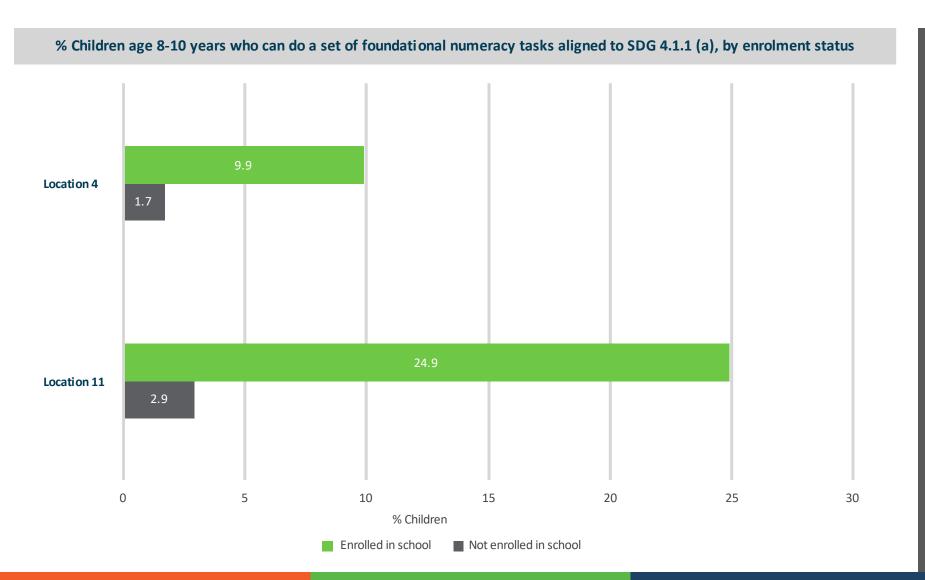
# Even 20 years after the MDGs, many primary school-age children are out of school



Because ICAN 2019 was a household survey, it generated information on enrolment patterns for children age 5-16

- In 3/13 locations, more than 3 in every 10 children age 6-10 are out of school
- There is enormous variation in the types of schools enrolled children attend

# Out of school children <u>must</u> be included in discussions on learning



SDG 4 is targeted to ALL children.

Because ICAN 2019 was administered in households, it assessed all children in the target age group of 5-16 years, irrespective of enrolment status.

Children age 8-10 years are usually enrolled in classes 3 to 5.

There are large disparities among performance of children enrolled in school and those not enrolled.

### As the clock ticks to 2030 . . .

We need less top-down and more granular measurements of foundational learning that can lead to rapid corrective action

#### **ICAN** is:

- Open source; currently available in 11 languages
- Most tasks are aligned to grade 3 level or lower of the UNESCO Global Proficiency
   Framework
- Suitable for use in both household and school settings
- Simple and quick to administer and understand, therefore easy to scale





#### For more information, please visit:



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