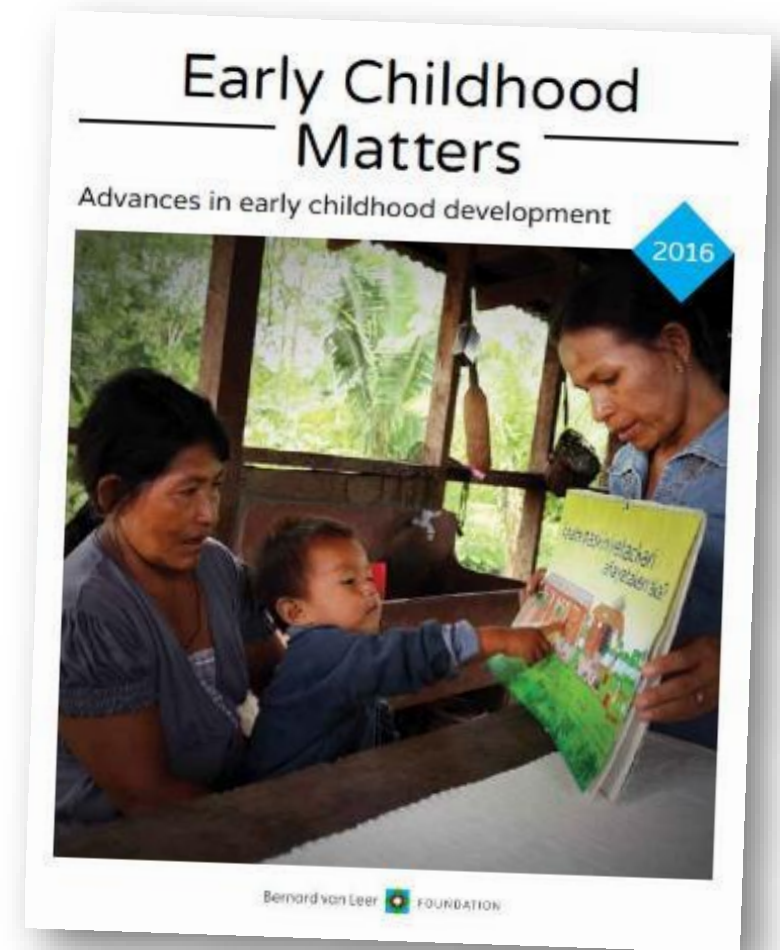


Welcome to the Webinar

'Advances in early childhood development'



Welcome to the Webinar

'Advances in early childhood development'

Agenda

Mihaela Ionescu

The Early Childhood Workforce –a powerful force for scaling-up quality services for young children

Arjun Upadhyay
Vidya Putcha

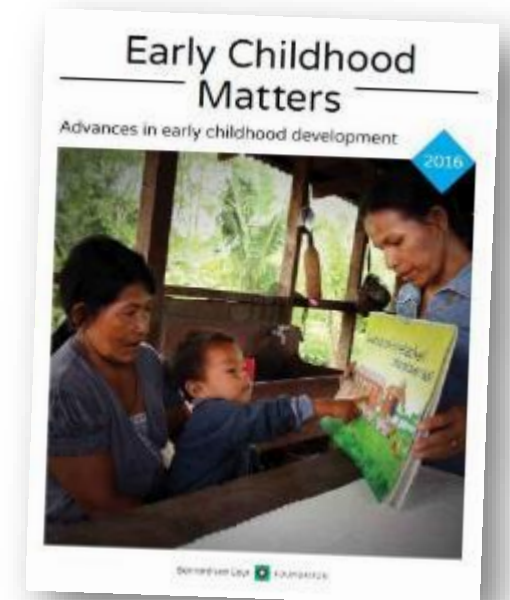
A call for public financing: innovative finance is welcome, but not enough

Tarun Dua
Dana Charles McCoy
Magdalena Janus
Maureen M. Black

Measuring development in children from birth to age 3 at population level

Q&A session

Moderated by [Joan Lombardi](#), Senior Adviser, Bernard van Leer Foundation





Mihaela Ionescu

Programme Director, International Step by Step Association (ISSA), The Netherlands

The Early Childhood Workforce –a powerful force for scaling-up quality services for young children

EARLY CHILDHOOD WORKFORCE INITIATIVE

The initiative is co-hosted by the [International Step by Step Association \(ISSA\)](#) and [Results for Development \(R4D\)](#).



Stimulating environments and high-quality pedagogy are fostered by better qualified staff, and better quality pedagogy leads to better learning outcomes.

(Litjens, I., M. Taguma (2010), *Literature overview for the 7th meeting of the OECD Network on Early Childhood Education and Care*, OECD, Paris)

A few challenges:

EARLY
CHILDHOOD
WORKFORCE
INITIATIVE

Poorly trained, paid,
& supported

Shortage of
qualified workers

Expansion of services,
yet quality & equity
concerns persist

Limited data about
the workforce and
evidenced-based
approaches

Early childhood
workers are diverse
and difficult to define

*Neuman, Josephson & Chua (2015); Bernal & Camacho (2012);
CapacityPlus (2013); SABER-ECD.*

About the Initiative:

EARLY
CHILDHOOD
WORKFORCE
INITIATIVE

- It's global, but focuses also on the country system and policy level to support and empower those who work with families and children under age 8 and those who supervise and mentor practitioners.
- Takes a holistic, multi-sectoral approach to bridge gaps in policy and practice and promote high quality, equitable services.
- Its main functions: Knowledge Hub and Joint Learning



Online portal



Country studies & global
landscape analyses



Joint learning

Thematic areas

EARLY
CHILDHOOD
WORKFORCE
INITIATIVE

1. Competencies & standards

Remuneration,
working conditions,
recruitment,
attractiveness of the
profession

Agreed requirements and
expectations; different roles
within diverse EC services;
Individual, team,
institutional and system
level

2. Training & professional development

Up-to-date training
opportunities, evidence
based, linked with
practice; career pathways
with diverse entry points

3. Monitoring and mentoring

Continuous feedback
and coaching;
supportive
monitoring for
improvement

4. Recognition of the profession

www.earlychildhoodworkforce.org

EARLY
CHILDHOOD
WORKFORCE
INITIATIVE

The screenshot shows the homepage of the Early Childhood Workforce Initiative website. At the top, there is a navigation menu with links for 'ABOUT US', 'KNOWLEDGE HUB', 'NEWS', 'JOINT LEARNING', 'BLOG', and 'CONTACT'. Below the menu is a large photograph of a woman in a white lab coat examining the belly of a pregnant woman lying in a hospital bed. To the right of the photo is a 'LIGNA' logo with a right-pointing arrow.

About the Early Childhood Workforce Initiative

The Early Childhood Workforce Initiative focuses on the country system and policy level to support and empower those who work with infants and children under age 5 (i.e., home visitors, educators, staff, community health workers, as well as those who supervise and monitor practitioners (e.g., supervisor, instructor and coaches, trainers). This initiative takes a holistic, multi-sector approach to bridge gaps in policy and practice and promote high quality workforce services. The Initiative is co-funded by the International Step by Step Association (ISSA) and Results for Development (RFD).

EARLY CHILDHOOD WORKFORCE INITIATIVE

The main content area features four colored circles representing key focus areas:

- Commitment to Excellence (Green circle)
- Training & Professional Development (Yellow circle)
- Monitoring & Measuring (Blue circle)
- Recognition of the Profession (Red circle)

Below the circles is a 'News' section with four featured articles:

- ARNEC** (Asia Pacific Regional Network for Early Childhood) - News ARNEC updates: The Primary Research Programme
- Asociación de Jóvenes Democráticos, Justicia Social, Educación de Paz** - The Second Biennial Conference on Childhood and
- Topical for Trinidad & Tobago** - Designing and implementing
- TRU** (Trinidad and Tobago) - TRU initiatives continue: 'Friendly and identity-free early'

At the bottom, there is an 'In the spotlight' section with a small image of a child and the title 'Early Childhood Workforce in Peru: A country study'. The text below the title reads: 'Through a series of country studies, we will gather and analyze information to formulate evidence-based recommendations for strengthening and scaling up a quality early childhood workforce. The first country study will take place in Peru, and will explore the country's early childhood system, as well as the role of work-ready workers who created their own.'

For more information about the initiative:

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mionescu@issa.nl



Arjun Upadhyay Senior Programme Associate
Results for Development Institute, USA



Vidya Putcha Programme Officer

**A call for public financing: innovative
finance is welcome, but not enough**

A call for public financing: innovative finance is welcome, but not enough

Early Childhood Matters Webinar

September 20, 2016

Vidya Putcha and Arjun Upadhyay



**RESULTS FOR
DEVELOPMENT**

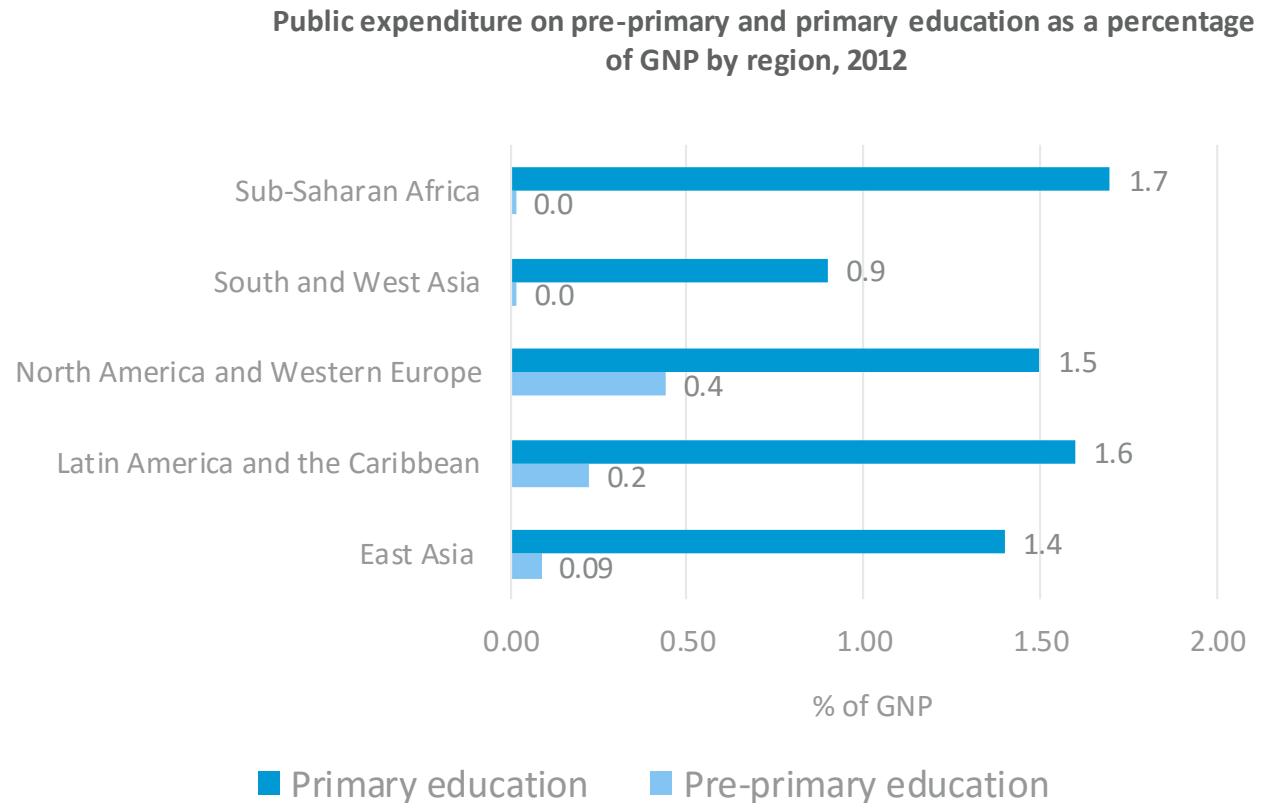
INTRODUCTION

- **Roadmap of the presentation**
 - Public spending on pre-primary education
 - Trends in international financing
 - Financing needed to reach SDG Target 4.2
 - Benefits and challenges of leveraging innovative finance
 - Need for public financing
- **Sources for analysis**
 - Background Paper for International Commission on Financing Global Education Opportunity
 - OECD-DAC CRS database
 - Desk review
 - Primary research via country consultants

PUBLIC SPENDING ON PRE-PRIMARY EDUCATION

Financing for early childhood development (ECD) services has been inadequate to ensure access and quality for disadvantaged children who have the most to gain.

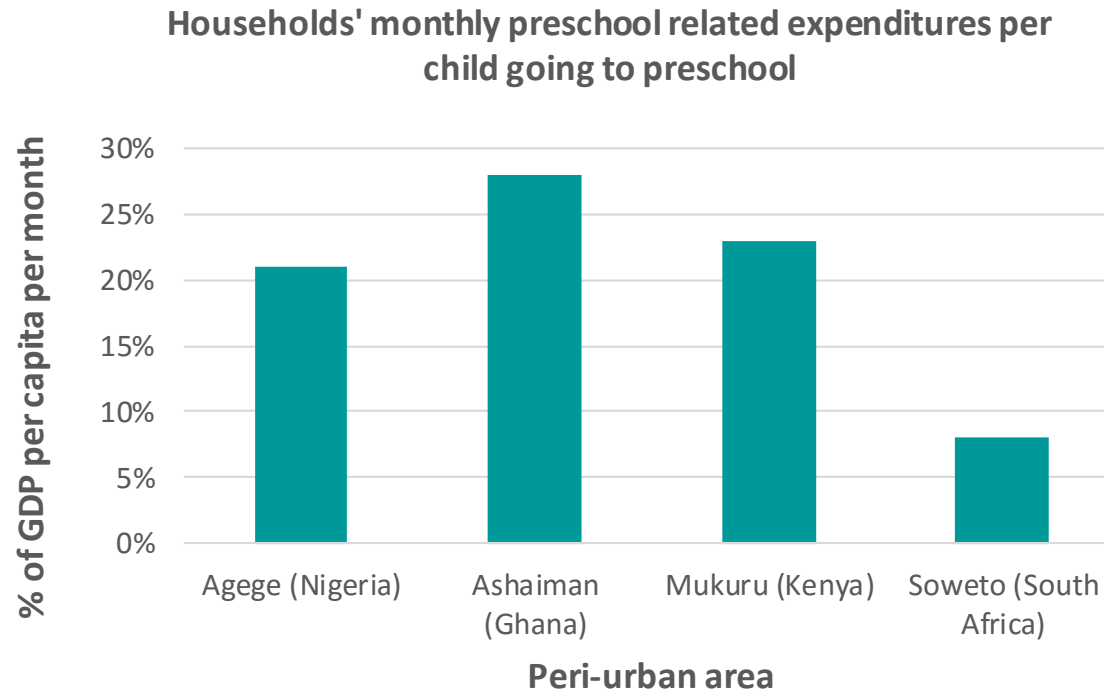
- In developing countries, on average, 0.07% of gross national product is spent on pre-primary education compared to 0.5% in developed countries (UNESCO, 2015).
- Asia and Sub-Saharan Africa spend considerably less on pre-primary education compared to other regions.



PUBLIC SPENDING ON EARLY CHILDHOOD DEVELOPMENT

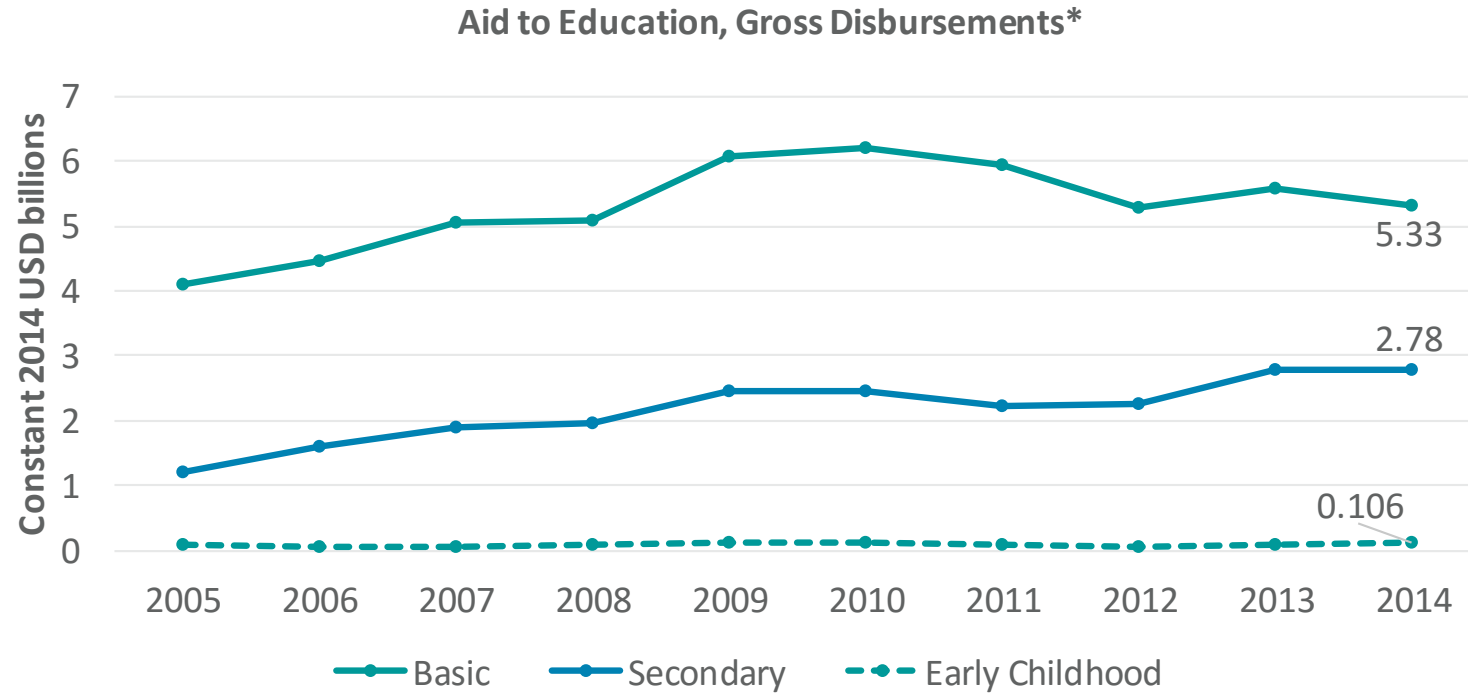
In addition to insufficient public financing, households make significant contributions to ECD programs which has severe equity implications.

- For example, across peri-urban areas in Nigeria, Ghana, Kenya, and South Africa, households spend anywhere between 8 to 27% of GDP per capita per month on preschool



TRENDS IN INTERNATIONAL FINANCING

Estimates suggest that donor investments in early childhood education account for only 2% of aid to basic education.

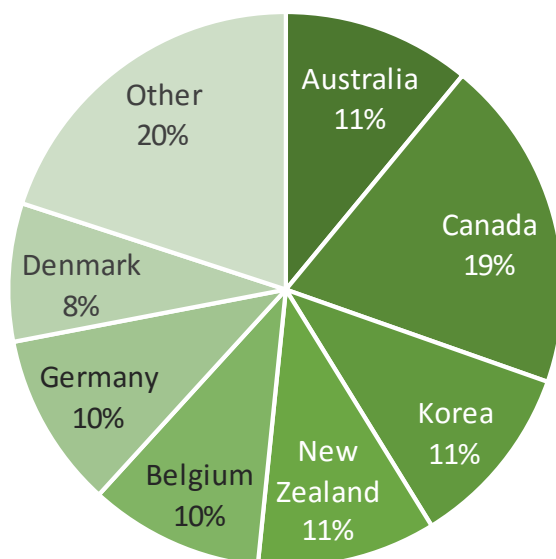


Source: OECD-DAC CRS Database

*Basic education includes early childhood education according to OECD-DAC categorization.

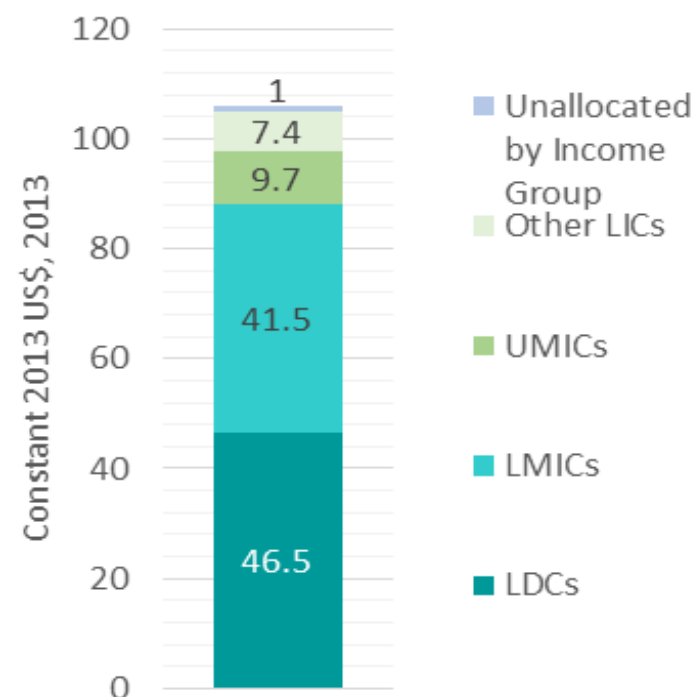
TRENDS IN INTERNATIONAL FINANCING

Top Donors of ECE, Gross Disbursements, 2014*



Source: OECD-DAC CRS Database

Top Recipients (by income group) of ECE Aid, Gross Disbursements, 2014



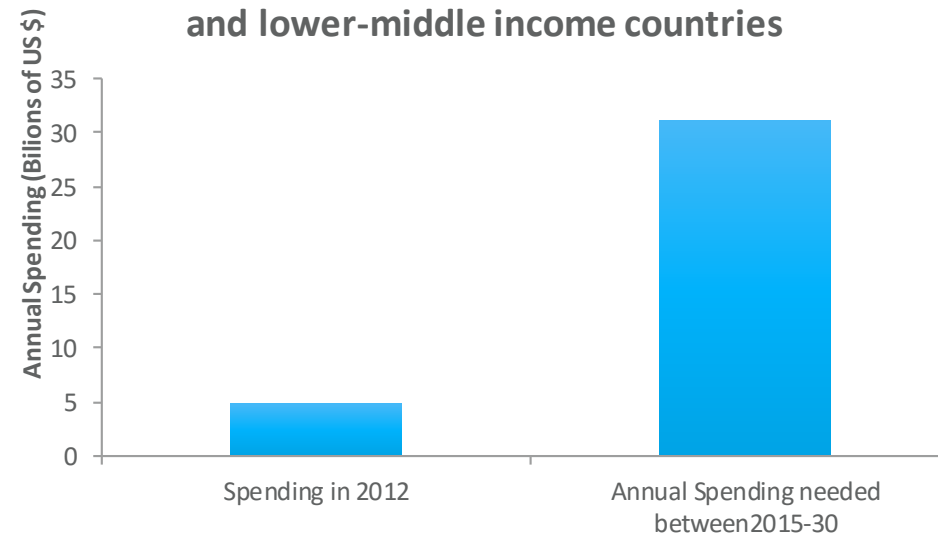
*Basic education includes early childhood education according to OECD-DAC categorization.

FINANCING NEEDED TO REACH TARGET 4.2

Target 4.2: By 2030, ensure that all boys and girls have access to quality early childhood development, care, and pre-primary education so that they are ready for primary education.

- Current financing is woefully inadequate to reach Target 4.2
- Estimates suggest that spending on one year of high quality pre-primary education alone must increase by seven times annually.

Current Spending on Pre-Primary Education vs. Spending Needed to Reach Target 4.2 in low and lower-middle income countries



INNOVATIVE FINANCING CAN HELP BRIDGE THIS GAP; HOWEVER, THERE ARE LIMITATIONS

Innovative financing has its benefits and challenges.

Benefits

Jumpstart investments in ECD

Promote a focus on outcomes

Challenges

Can require complex policy/legal frameworks

May not be sustainable in long-term or suitable for programs at scale

Challenges encountered similar to mainstream financing

Relegates ECD to a "special category"

PUBLIC FINANCING IS NEEDED TO SUPPORT ECD

In order to ensure wide access, public financing is needed and countries must innovate to support the most disadvantaged. This aligns with recommendations made by the Education Commission in its recent report.

- **Countries must:**
 - Integrate early childhood services into existing financing for core education, health and nutrition, and protection services.
 - Innovate to support the most disadvantaged children.

Education Commission Recommendations

- Governments should provide fee free education for pre-primary through secondary
- Allocate public funding to the lower levels of the education ladder, and, within that, to those left behind because of poverty, disability, and social disadvantage

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Magdalena Janus Associate Professor, Offord Centre for Child Studies, Department of Psychiatry and Behavioural Neuroscience, McMaster University, Canada



Maureen M. Black Distinguished Fellow, RTI International and Professor, University of Maryland School of Medicine, USA

Measuring development in children from birth to age 3 at population level

Population-based Assessment of Child Development 0-3 years

Tarun Dua
Dana Charles McCoy
Magdalena Janus
Maureen M. Black

SUSTAINABLE DEVELOPMENT GOALS

- **TARGET 4.2**

By 2030 ensure that all girls and boys have access to quality early childhood development, care and pre-primary education so that they are ready for primary education

- SDG goals are inter-linked, cover several goal areas and are meant to work together, e.g., Goal 1 (end poverty) Goal 2 (end hunger and improve nutrition), Goal 3 (healthy lives for all), Goal 5 (gender equity), Goal 16 (end violence against children).
- **Indicator 4.2.1**
- – Percent of children developmentally on track

What gets measured, gets done

KEY QUESTIONS

- What does “developmentally on track” mean?
 - Culture + context: How to consistently measure?
- How to apply to all countries, all children:
 - Few tools available now for high, middle and low-income countries
 - Accurate measurement for children with disability
 - Birth to age 6: Developmental trajectories
- **Three initiatives**
 - ✓ **The Caregiver Reported Early Development Index (CREDI) – DANA MCCOY**
 - ✓ **WHO Child Development Indicators Project – MAGDALENA JANUS**
 - ✓ **Global Child Development Group – MAUREEN BLACK**

The Caregiver Reported Early Development Index (CREDI)

Dana Charles McCoy, PhD
Günther Fink, PhD
Harvard University



Project funded by:

Grand Challenges Canada™
Grands Défis Canada™

CREDI AIMS

- To develop a set of **caregiver-reported items** that
 - capture *motor, language & cognition*, and *socio-emotional* development for 0-36mo
 - are clear and simple enough to be understood by caregivers and implemented quickly with minimal training
 - are “culturally neutral” for global use
 - are psychometrically valid/reliable, not subject to social desirability bias
- To group these items into
 - A **brief scale** (~20 items) for population-level monitoring
 - A **long scale** (~60 items) for research & evaluation (& screening?)
 - A **supplemental item set** for country-specific use
- To make all scales, supporting documents, and data freely available via **sites.sph.harvard.edu/credi**

FORMAT & ADMINISTRATION

- Items asked to **primary caregiver** using **yes/no scale**
- **Training** takes <1 day
- Section **prompts** included to explain directions & reduce social desirability bias
- Items include **examples** and **images** to improve objectivity and clarity
 - Can the child speak using short sentences of two words that go together (e.g., “Mama go” or “Dada eat”)?
 - Can the child pick up a small object (e.g., a small toy or small stone) with just his/her thumb and a finger?
- Total **time**: <5mins (*short form*), 10-15mins (*long form*)
- Final version to include **start/stop rules**, **scoring guide** for full scale and subscales, **item guide** for translation



HISTORY & VALIDATION PROCESS



Evaluation, refinement, communication



1. Creation of conceptual framework (Summer, 2013)
2. Collection of existing tools (Summer, 2013)
3. Selection & development of initial item set (Fall, 2013)
4. Pilot Phase I (18-36mo only; Jan-Oct, 2014)
 - *Rural Tanzania*
5. Pilot Phase II (June, 2015 - Jan, 2016)
 - *Urban Tanzania, Zambia, Brazil, Bangladesh, Laos, United States*
6. Pilot Phase III (March-April, 2016)
 - *Lebanon, Jordan, Pakistan*
7. Pilot Phase IV (June-Sept, 2016)
 - *Brazil, Cambodia, Chile, Colombia, Ghana, Guatemala, Hong Kong, Laos, Philippines, United States*
8. Public dissemination (end 2016)



WHO Child Development Indicators Project

For children 0-3 years of age

Tarun Dua, WHO

Melissa Gladstone, University of Liverpool

Magdalena Janus, McMaster University

Patricia Kariger, University of California Berkeley

Gillian Lancaster & Gareth McCray, University of Lancaster

& a Group of Collaborators and Experts

Funded by Grand Challenges Canada and
Bernard van Leer Foundation



World Health
Organization

Background

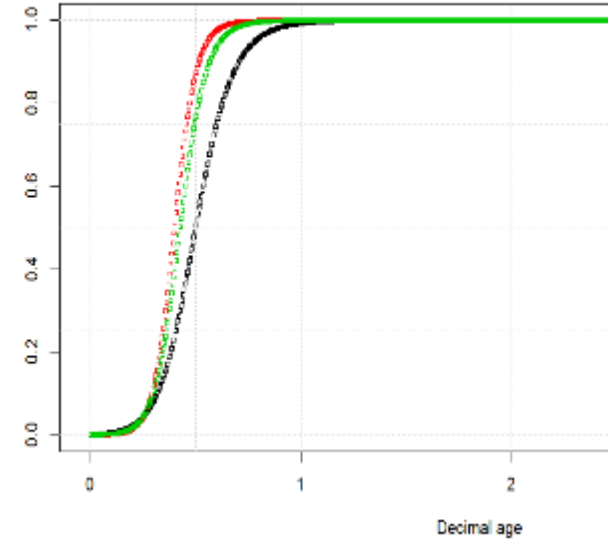
- WHO urgency to measure past survival, limited availability of culturally validated measures
- Two complementary initiatives to monitor child development and learning on a population-level: **for children 0-3 led by WHO; and for children 3-7 by UNESCO and UNICEF**

Goal of WHO Child Development Indicators Project:

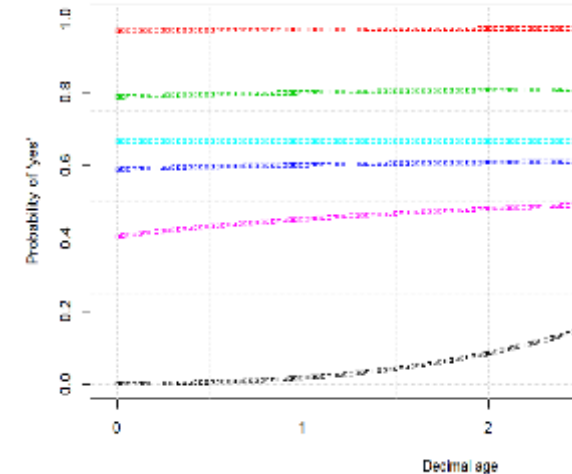
Using a combination of conceptual and empirical approaches, **identify, field test and recommend a set of indicators to reliably assess child development at population-level across the 0-3 age group** valid worldwide and practical for use in household surveys/progamme evaluations.

Methods

- LMIC data on 0-3 development - 7 instruments, 10 countries, 14 databases (N=23,635)
- Item matching, statistical analyses of distribution of 542 item clusters considering: age discrimination, item reliability & validity, ease of use/feasibility, importance
- Prototype: 120 items in 5 domains:
 - Fine Motor (23),
 - Gross Motor (23),
 - Receptive language (20),
 - Expressive (24),
 - Socio-emotional (30)



Universal, discriminates well



Non-universal, doesn't discriminate

Testing the Instrument

- Detailed protocol for adaptation, testing and tablet data collection; integration of visuals
- Phase I (feasibility and adaptation): Pre-pilot in Brazil, Malawi, Pakistan – focus groups, contextual data, anthropometry, caregiver and direct assessment
- Phase II (pilot testing). Pilot in 3 countries – caregiver only, representative sample, cognitive testing, reliability, contextual data
- Phase III (field testing). Large-scale multi-country study with representative samples to create norms (*planning stages*)



Advances in Early Child Development

Maureen Black, PhD

Funding:

**Bill & Melinda Gates Foundation
RTI International**

Global Child Development Group:

**Sue Walker
Stef van Buuren
Sally Grantham-McGregor
Ann Weber
Orazio Attanasio
Hedwig Hoffstetter
Other Advisory Board members**

Participating Colleagues



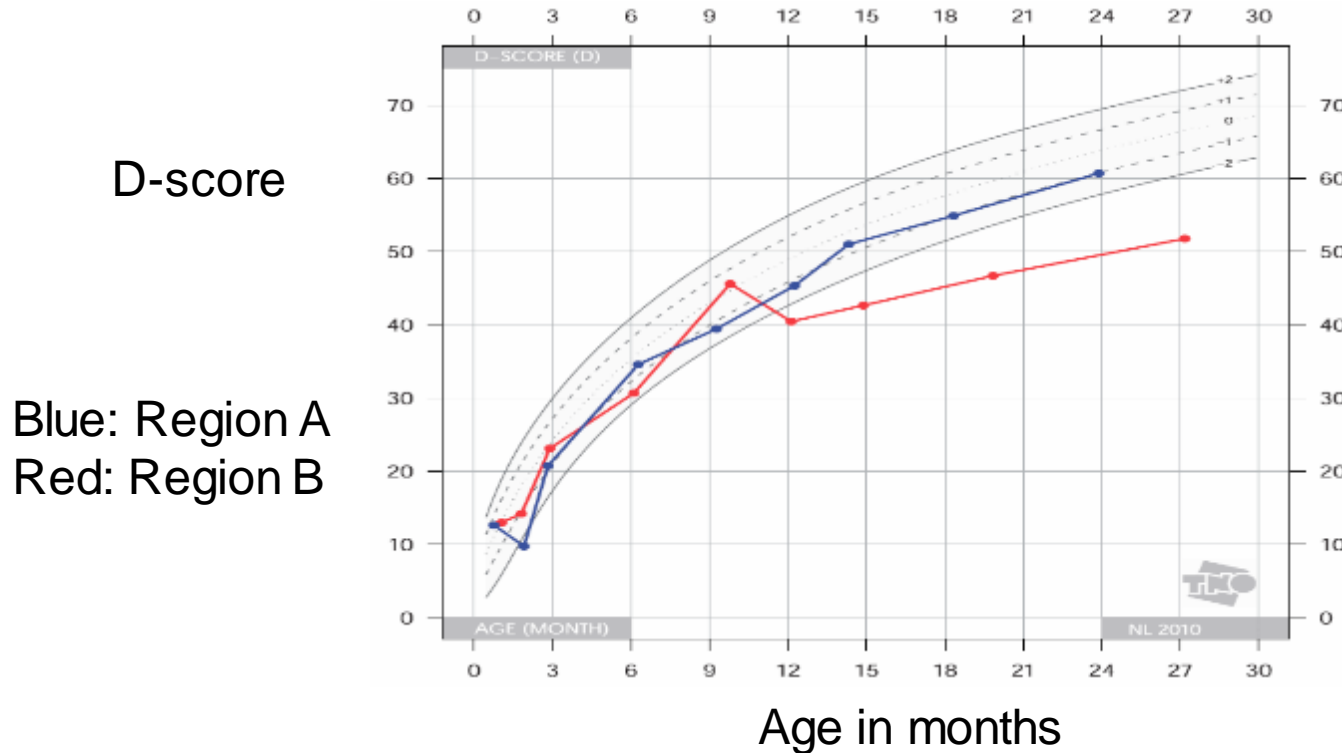
Aim

- To develop population-based method of monitoring early child development across ages & countries using existing data
- Data from over 16,000 children representing 15 cohorts from 11 countries.
 - Initial data < age 3
 - Longitudinal data > age 5



D-score (Development score)

D-score: numerical unit with quantitative comparisons within and between ages and countries (similar to height-for-age z-score used to define stunting).



Source: S. Van Buuren (2014) Growth charts of human development. *Statistical Methods in Medical Research*

Goal: 2 population-level instruments

Monitoring & Evaluation

- Global development score
- Few items (10-15 per child)
- Less time (< 10 min)
- Less training

Program Impact Evaluations

- Global and domain-specific
- More items (10-15 per domain per child)
- More time (< 30 min)
- More training
- Goal: direct assessment

For both

- Open access with no licensing fees
- Materials (if necessary) at cost (no profit)
- Training, quality assurance guidelines downloadable
- Predictive of later school-related outcomes

Process



- **Harmonize data** from multiple countries



- Fit Rasch model and identify items for a **composite scale**



- Estimate D-scores and **distribution of D-scores** within and across the cohorts.



- Test **predictive validity of D-scores** in several cohorts



- **Construct age-conditional reference charts of typical development** using South African birth cohort



- Establish process to select set of developmental indicators for “**off track**” development

Future Directions

- Complementary efforts with points of consensus
 - Conceptual framework
 - Emphasis on psychometric properties
 - Evidence on usability
- Need for active collaboration as the results become available after testing
- Collaboration with other stakeholders

Q&A session

Moderator

Joan Lombardi

Mihaela Ionescu

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Thank you for attending!

The recording of this webinar will be shared via
www.bernardvanleer.org

