How Data Can Transform the Classroom
ISIL Crisis - Iraqi Kurdistan
January 2014 - Present

3,065,112 displaced persons
Project Background
Education and Protection for Displaced Children in Northern Iraq
funded by Bureau of Population, Refugees, and Migration (BPRM)

Conflict-affected children in Iraq benefit from quality learning and psychosocial support

- 2 years
- 2.8 million USD
3. Good Health

4. Quality Education

5. Gender Equality

6. Clean Water and Sanitation

9. Innovation and Infrastructure

11. Sustainable Cities and Communities

12. Responsible Consumption and Production
Project Components

**Formal Primary School** for Internally Displaced + Host Community Children

**Soft Components**
- Teacher + School Director Training
- Teacher Peer Learning Circles
- Teacher Coaching
- Parent Engagement
- School Events

**Hard Components**
- Teaching and Learning Materials
- School Upgrades
Problem

shift from child friendly space to formal school

- ANIMATORS BECOME TEACHERS OVERNIGHT
- IDENTIFY LEARNING NEEDS
- STAFF NEW TO COACHING
- MEASURE TEACHER PERFORMANCE
- CHILD PROTECTION
Opportunity

Project (Education) Team Driven Solution - Teacher Capacity Building

1. identify **learning needs** of teachers (to design training and peer learning circles)

2. guide project officers (and eventually school directors) in coaching effectively and tailored to teacher's specific needs

3. **measure** teacher's use of student centered **learning pedagogy** in the classroom

4. flag **child protection** concerns
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Quality Education Toolkit

- Enrollment and Attendance Tracking Tool + Dashboard
- Teacher Coaching / Classroom Observation Tool + Dashboard
- Spot Check Tool
Teacher Coaching / Classroom Observation Tool

Use of Data

- **IMMEDIATE:**
- *flag child protection* concerns
- *guide teacher coaching* with tailored key messages
- **MEDIUM TERM:** *make timely and informed decisions on training design and peer learning circles*
- **LONG TERM:** *measure* project indicator (behavior change) for evidence-based reporting
Post Observation Coaching key messages on tablet enable tailored coaching
Classroom Observation Dashboard enables decision making including helpful user filters
easy, timely access to analyzed data
ICT4D (ICT4MEAL) Solution

Software
- iFormBuilder
- Zoho Reports
- Dropbox

Data Collection
Data Visualization
Data Storage

Hardware
iPad mini
Online Helpdesk

Technology SUPPORT
Design, Implementation, Maintenance

ICT / MEAL staff
How Data Can Transform the Classroom
KEY SUCCESSES

- Collaboration in Design & Deployment (*MEAL + ICT + Education Team*)
- Careful and Iterative Design Process
- Accessibility for "non-data" people
- User Oriented Tool & Dashboard
- Designed with Scale and Sustainability in Mind
- Data Driven Informed Decision Making
- Timeliness
Results - Year 2

Outcome Indicators

Classroom Management
% of trained teachers use effective classroom management techniques
- End of year 1: 79%
- End of year 2: 94%

Student Centered Learning
% of trained teachers use participative and student-centered teaching
- End of year 1: 70%
- End of year 2: 95%

Psychosocial Support
% of trained teachers use PSS mainstreaming techniques in the classroom
- End of year 1: 77%
- End of year 2: 57%
Feedback from Users

Teachers
- appreciate having access to tool for reference / review in local language on school based tablet
- appreciate feedback and guided/tailored coaching

Observers
- tool made coaching easier and more effective because of guided/tailored messaging
- timeliness of data allowed observers to make better decisions about learning needs of teachers for peer learning circles and trainings

Program Manager
- timeliness and of data made decision making more effective
- evidence based report writing
- monitoring project officer (observer) performance
- clear definition and objective measurement of indicator of success
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KEY Challenges

- Vision Casting - education team found it challenging to envision final product
- Direct Feed - Data Quality Issues
- Technical Support from MEAL unit not always available
- Technical Difficulties - application crash, loss of data
- Department of Education Partnership / Buy In
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Lessons Learned
Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Link to Sustainable Development Goal
tailored teacher coaching

improved andragogy (method of teaching adult learners)

improved pedagogy (student centered learning)
Scale

2016 - 2017:
6 schools
3 project officers

2017 - 2019:
21 schools
21 head teachers

2020
DoE Handover?
630 schools
2016 - 2017:
6 schools
3 project officers

2017 - 2019:
21 schools
21 head teachers

2020
DoE Handover?
630 schools
Sustainability
• Cost of Software / Hardware
• Collaborative Design with DoE
• Lower Capacity of Users
• Technical Capacity of DoE to manage data
• Access to and Cost of Internet
• Training at Scale
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KEY MESSAGES
Be Data Driven
Design with the User and Be Collaborative
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