

**Webinar**

# COMPOSITE MEASURES FOR ANALYSING DURABLE SOLUTIONS : Practitioners' reflections from global and field level

*JIPS' work on durable solutions analysis is made possible with funding provided by the United States Government.*



**TUESDAY** MAR 31<sup>st</sup>, 2020 **15.00 GENEVA**



**www.jips.org**



MODERATOR

**Margharita Lundkvist-Houndoumadi**

Joint IDP Profiling Service (JIPS)



OPENING REMARKS

**Aldo Benini**

Sociologist and humanitarian expert working on statistics



SPEAKER

**Vibeke Oestreich Nielsen**

United Nations  
Statistical Division (UNSD)



SPEAKER

**Santiago Córdova**

Independent consultant

# Agenda

## 3.00 pm CET | Welcome & opening remarks

- Opening remarks: Aldo Benini, sociologist and humanitarian expert working on statistics
- Moderator: Margharita Lundkvist-Houndoumadi, Joint IDP Profiling Service (JIPS)

## 3.15 pm | Case study presentations

1. **Developing a statistical measure of overcoming key displacement-related vulnerabilities – a composite measure proposed by the Expert Group on Refugee and IDP Statistics (EGRIS)** with Vibeke Oestreich Nielsen, UN Statistical Division (UNSD)
2. **Measuring durable solutions in Somalia – a local re-integration index developed by the Danwadaag Durable Solutions Consortium** with Santiago Córdova, independent consultant

## 3.45 pm | Q&A

## 4.25 pm | Closing remarks

# Housekeeping

- Please ensure you are muted throughout the duration of the webinar.
- Do submit your questions via the chat box only, we will aim to answers as many questions as possible during the Q&A session.
- The webinar will be available after as a recording, we will also be providing today's slides and any other material mentioned for you to download.



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# Composite measures for analysing durable solutions: Practitioners' reflections from global and field level

Webinar, 31<sup>st</sup> March 2018

Aldo Benini

# Composite measures in the humanitarian community – *Brief remarks on:*

- Positive changes in the last ten years
- Recurring challenges
- Measures and more



# Positive changes in the last ten years

- Greater methodological sophistication
  - Imports from econometrics, epidemiology, etc.
- Enlarged toolboxes
  - R, GIS, Kobo, Web-based surveys
- resulting in ..

.. resulting in:

- greater diversity of data types and data sources
- greater shared concern for
  - reliable and valid measurement,
  - valid inference from sample to population
- (presumably!) also:
  - greater speed in assessments, therefore
  - more time to interact with stakeholders, who in turn have greater capacity to absorb findings

# Recurring challenges

Among others:

- Statistical
- Stability of measures

# Statistical

- Finding the right balance between
  - Run-away evolution of statistical methods and
  - Common footing in the community of analysts
  
- One example: ..

# Example: Treatment of ordinal information

Rankings, ratings, ordered intervals

- Continued statistical mischief
- Ignorance of appropriate methods

Ultimately: How to raise the common skills denominator?

# Stability of measures

Learning to mitigate three inherent conflicts:

1. Social: Competing interests and conceptions
2. Substantive: Focus on intersectoral relevance vs. responders' operational concerns
3. Temporal: Learning / design revisions vs. comparability over time

# Measures and more:

How do findings based on composite measures inform decision-making?

Our natural aspiration says:

Response priorities should closely reflect our measurements (of severity, integration, etc.)

However, ..



# However, tightly coupled response is

- Appropriate for some institutional areas ..
  - Health care ← epidemiology,
  - Multi-actor relief ← food security monitoring
- .. but problematic for others
  - Education ← PISA testing, media ratings
  - Mine action ← “value of a human life” estimates
- Reformulate aspiration for the use of compound measures:
  - To reduce the uncertainty that decision makers face in evaluating options,
  - while safeguarding their legitimate autonomy

# A simple, perhaps paradoxical conclusion:

Action priorities are decided from insights that are

- strengthened by, but are always wider than,
- indicators, formulas, compound measures.

For that very reason, we strive to improve our quantitative constructs – and to use them with humility!

# Thank you for your attention!

Aldo Benini

Happy to receive feedback and questions at

[aldobenini@gmail.com](mailto:aldobenini@gmail.com)

and to offer a number of analysis tools at

[http://aldo-benini.org/Level2/humanitarian\\_data\\_analysis.htm](http://aldo-benini.org/Level2/humanitarian_data_analysis.htm)

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# Expert Group on Refugee & IDP Statistics



## Introduction to EGRIS and the International Recommendations on IDP Statistics (EGRIS)

Steering committee members:



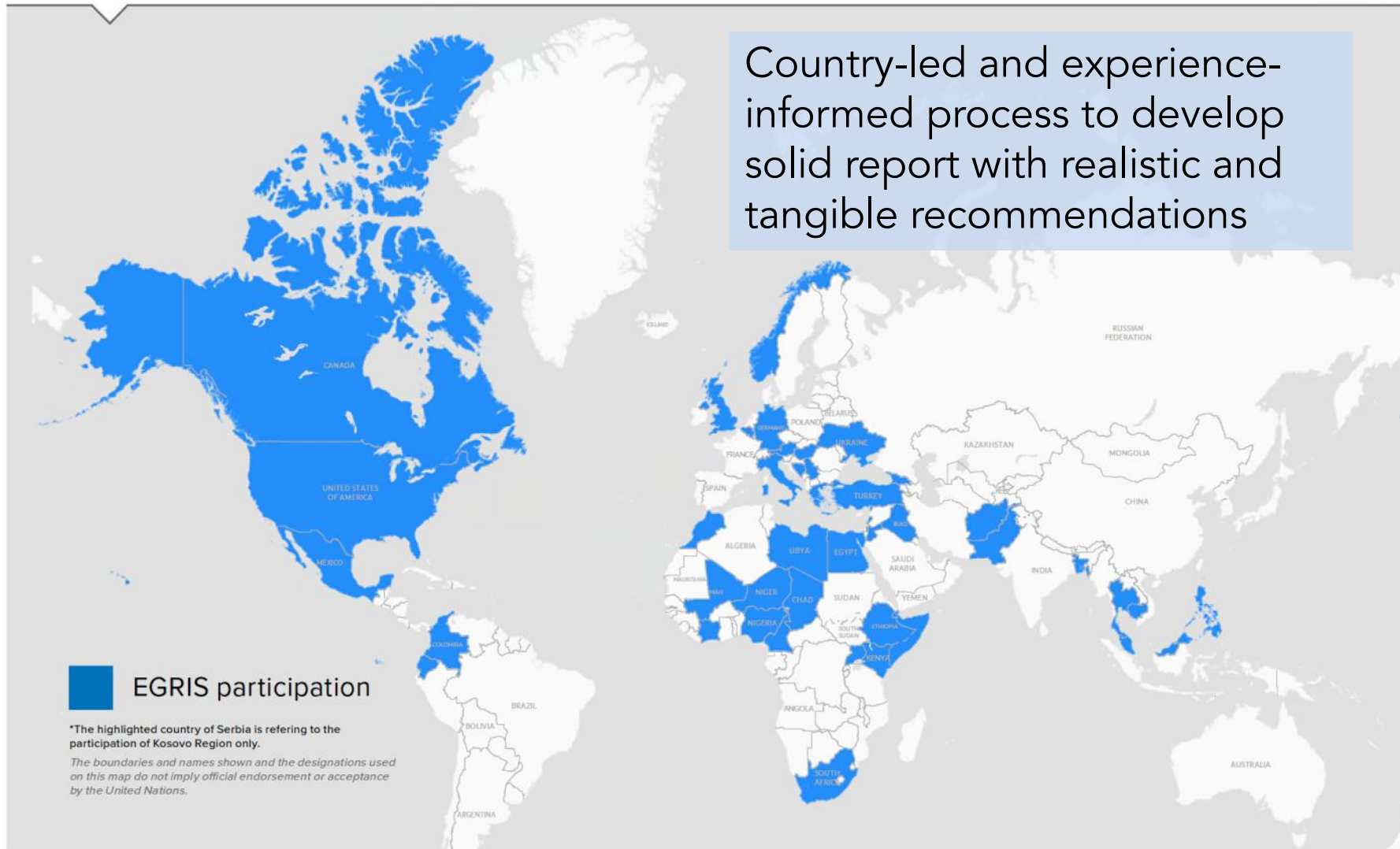
# Why EGRIS?

- Bring on board the official statistical community in the production and publication of statistics on IDPs and refugees
- Create increased ownership to and use of data at national level
- Evidence driven policy making
- Increased collaboration among partners
- Comparability of statistics nationally and internationally



# EGRIS membership

Country-led and experience-informed process to develop solid report with realistic and tangible recommendations



# EGRIS achievements

Recommendations adopted at Statistical Commission:

- International Recommendations on **Refugee** Statistics (IRRS) – March 2018  
(link to full document [here](#))
- International Recommendations on **IDP** Statistics (IRIS) – March 2020  
(link to full document [here](#))

Picture from  
the Statistical  
Commission 2020



# EGRIS achievements

## Compilers' manual

- Tool with practical guidance on implementation
- Acknowledged at Statistical Commission as living document which will be continuously updated with new experiences and examples.

Screenshot of online version of the Compilers' Manual

### Welcome to the Expert Group on Refugee and Internally Displaced Persons Statistics (EGRIS)

The Expert Group on Refugee and Internally Displaced Persons Statistics (EGRIS) was established by the United Nations Statistical Commission (UNSC), at its 47th session in 2016. The group consists of participants from national statistical authorities, international and regional statistical organizations and other technical experts.

The Expert Group was mandated to develop the International Recommendations on Refugee Statistics (IRRS), the International Recommendations on IDP Statistics (IRIS), and the Refugee Statistics Compilers' Manual, which aim at providing reference and guidance to national and international work concerning statistics on refugees, asylum seekers, and internally displaced persons.

This site will be used as a platform to share the materials developed by the Expert Group, with a special focus on the Compilers' Manual, as well as a communication channel in order to receive feedback and inputs to further develop the recommendations.



Access to the Compilers' Manual

### EGRIS TIMELINE

Year	Event
2015	46TH SESSION UN STATISTICAL COMMISSION: In March 2015, the UNSC, supported by Statistics Norway and UNHCR, organized an international conference on refugee statistics.
2015	INTERNATIONAL CONFERENCE ON REFUGEE STATISTICS: From 7 to 9 October 2015, international organizations and experts from national statistical offices met in Antalya (Turkey) to explore how to incorporate statistics on refugees and IDPs into national statistical systems and develop recommendations for organizing those statistics.
2016	47TH SESSION UN STATISTICAL COMMISSION: The UNSC endorsed the establishment of the Expert Group on Refugee and IDP Statistics (EGRIS). It also requested the group to develop International Recommendations on Refugee Statistics (IRRS), a technical report on statistics of IDPs, and a Compilers' Manual.
2016	TECHNICAL FOLLOW-UP MEETINGS: EGRIS organized technical follow-up meetings to ensure the progress of the work conducted by the group and develop the International Recommendations on Refugee Statistics (IRRS) as well as the Technical Report on Statistics of IDPs.
2017	48TH SESSION UN STATISTICAL COMMISSION: In March 2017, the UNSC endorsed the adoption of the International Recommendations on Refugee Statistics (IRRS) and requested the group to develop International Recommendations on IDP Statistics (IRIS).
2018	TECHNICAL FOLLOW-UP MEETINGS: EGRIS organized technical follow-up meetings to work on the development of the International Recommendations on IDP Statistics (IRIS) and the Compilers' Manual with operational instructions on how to collect refugee and IDP statistics.
2019	TECHNICAL FOLLOW-UP MEETINGS: EGRIS organized technical follow-up meetings to work on the development of the International Recommendations on IDP Statistics (IRIS) and the Compilers' Manual with operational instructions on how to collect refugee and IDP statistics.
2020	51ST SESSION UN STATISTICAL COMMISSION: In March 2020, the UNSC endorsed the International Recommendations on IDP Statistics (IRIS) and the Compilers' Manual.
2020	LAUNCH OF THIRD PHASE OF WORK: Following the production of the IRRS and IRIS, in 2020, EGRIS' work will be focused on the implementation of the above mentioned recommendations.

### EGRIS PARTICIPATION

Participation in the work of the EGRIS group

Expert Group on Refugee and Internally Displaced Persons Statistics

INTERNATIONAL RECOMMENDATIONS ON REFUGEE STATISTICS

March 2018

eurostat

Technical Report on Statistics of Internally Displaced Persons

CURRENT PRACTICE AND RECOMMENDATIONS FOR IMPROVEMENT

March 2018

OVERVIEW TO THE COMPILERS' MANUAL

THE GENERIC STATISTICAL BUSINESS PROCESS MODEL (GSBPM) VERSION 5.0

UNHCR, the UN Refugee Agency

@Refugees

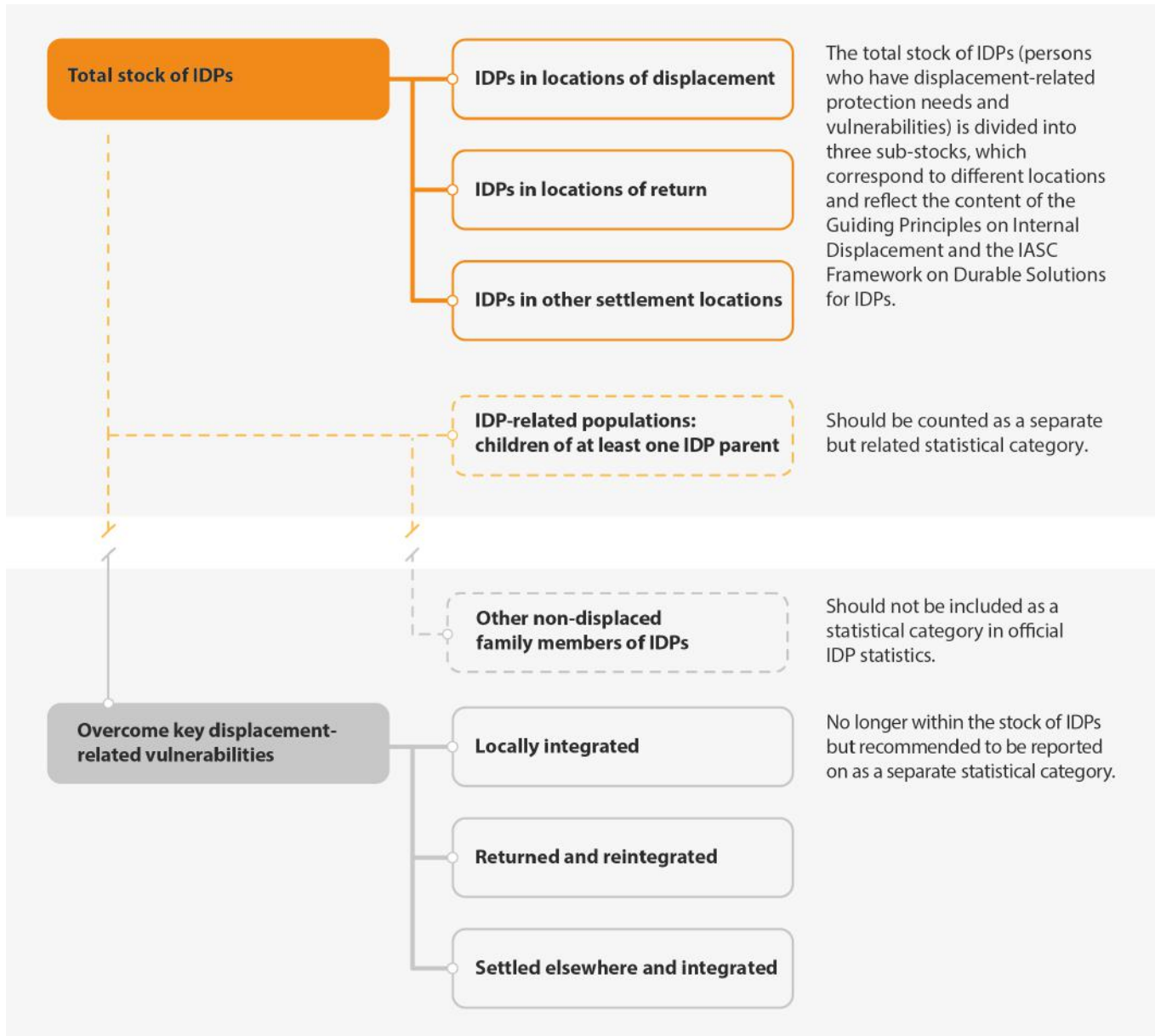
Hope and anxiety as Congolese refugees return home from Angola trib.al/OXEIBTJ



# IDP Recommendations

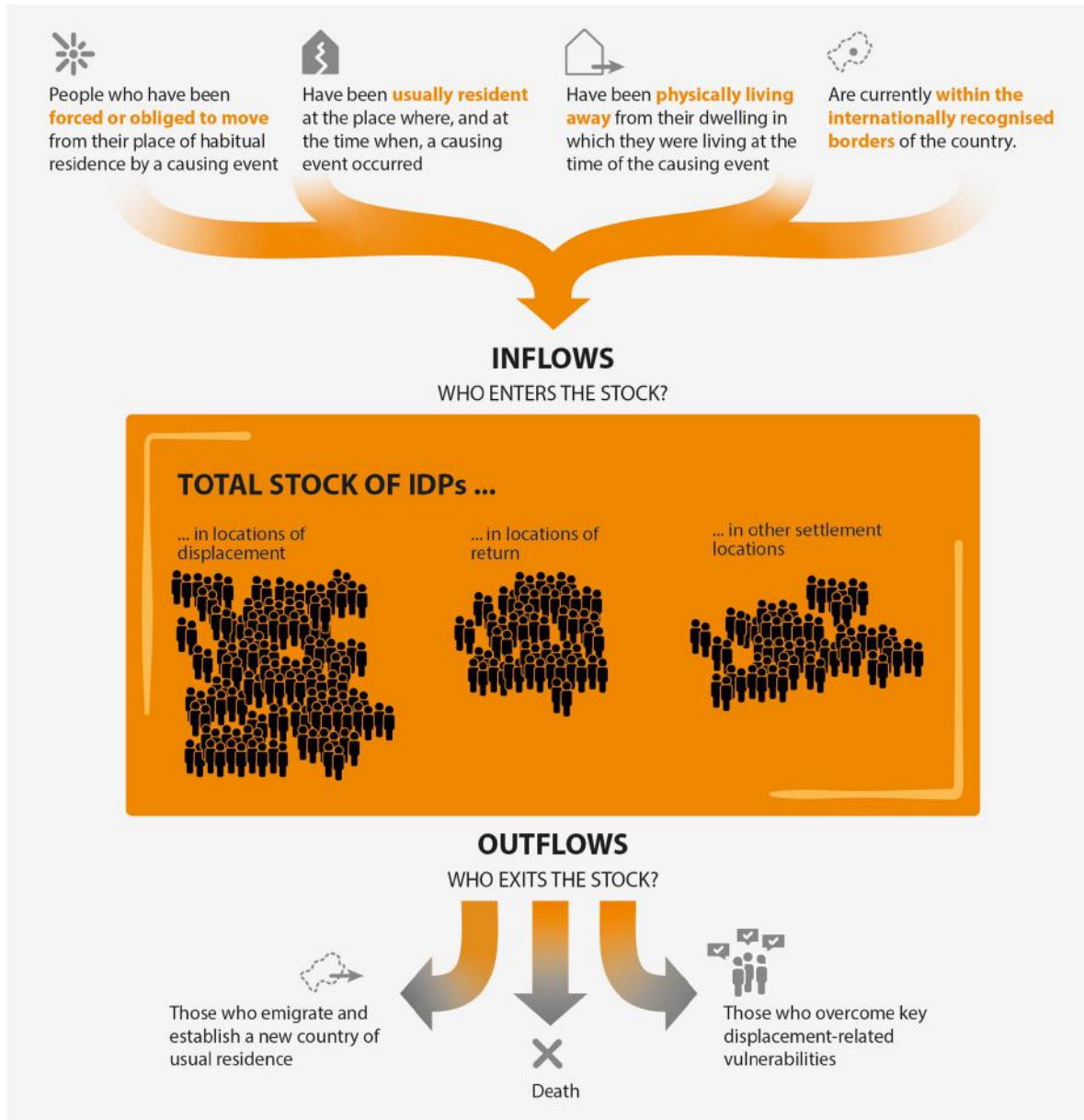
1. Develops a **statistical framework** standardising relevant **terminology** and **classifications** based in UN Guiding Principles on Internal Displacement
2. Statistical measurement for **progress towards durable solutions** and **overcoming key displacement-related vulnerabilities** (composite measure) based on IASC Framework for Durable Solutions for IDPs
3. Assessment of different relevant **data sources**
4. List of basic **data tabulations** and **variables**
5. Steps to improve statistical **coordination** at national, regional, international levels

# IDP Recommendations



**Internal  
Displacement  
Statistical  
Framework**

# IDP Recommendations



**Definition of IDPs – stocks and flows**

# IDP Recommendations

## Two measures

- Measuring progress towards durable solutions &
- Overcoming key displacement-related vulnerabilities

Criteria		Sub-criteria
1. Safety and security	1	1.1 Victims of violence
	2	1.2 Freedom of movement
2. Adequate standard of living	3	2.1 Food security
	4	2.2 Shelter and housing
	5	2.3 Medical services
	6	2.4 Education
3. Access to livelihoods	7	3.1 Employment and livelihoods
	8	3.2 Economic security
4. Restoration of housing, land and property	9	4.1 Property restitution and compensation
5. Access to documentation	10	5.1 Documentation

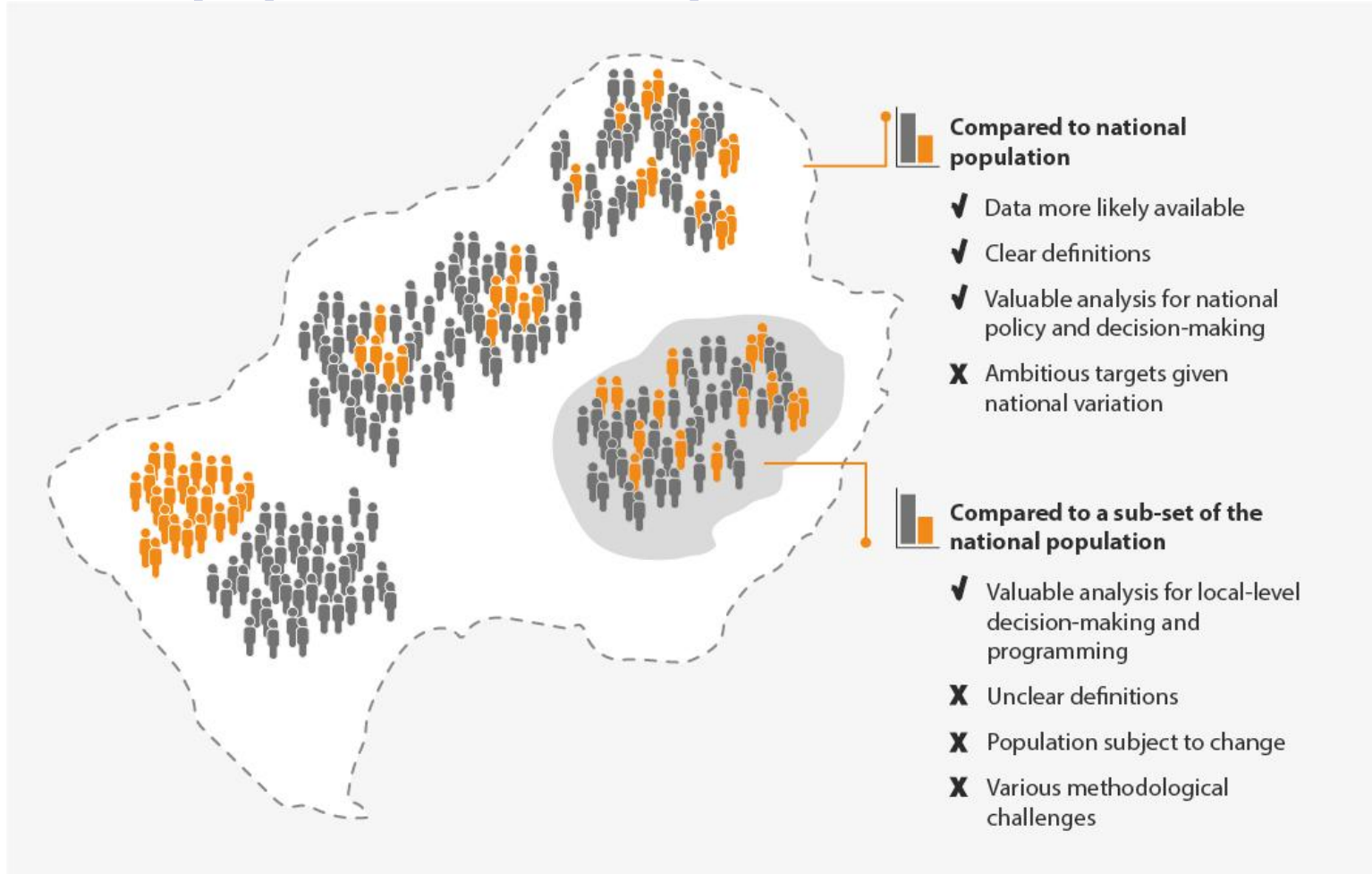


# Key aspects to note

- The key displacement related vulnerability measure is a simple pass/no pass (or binary) scenario at sub-criteria level that is then accumulated to produce a score at criteria level, and ultimately an overall score for the measure
- All of the five key-displacement-related vulnerabilities (the five criteria) need to achieve a 'pass' mark for the composite measure to be fulfilled
- The pass/no-pass is measured against other parts of the population in the country – ideally all non-displaced
- Both measures are meant for statistics and not individual response: while individual information will be used for calculations, all information stays confidential – should not be used for individual response.

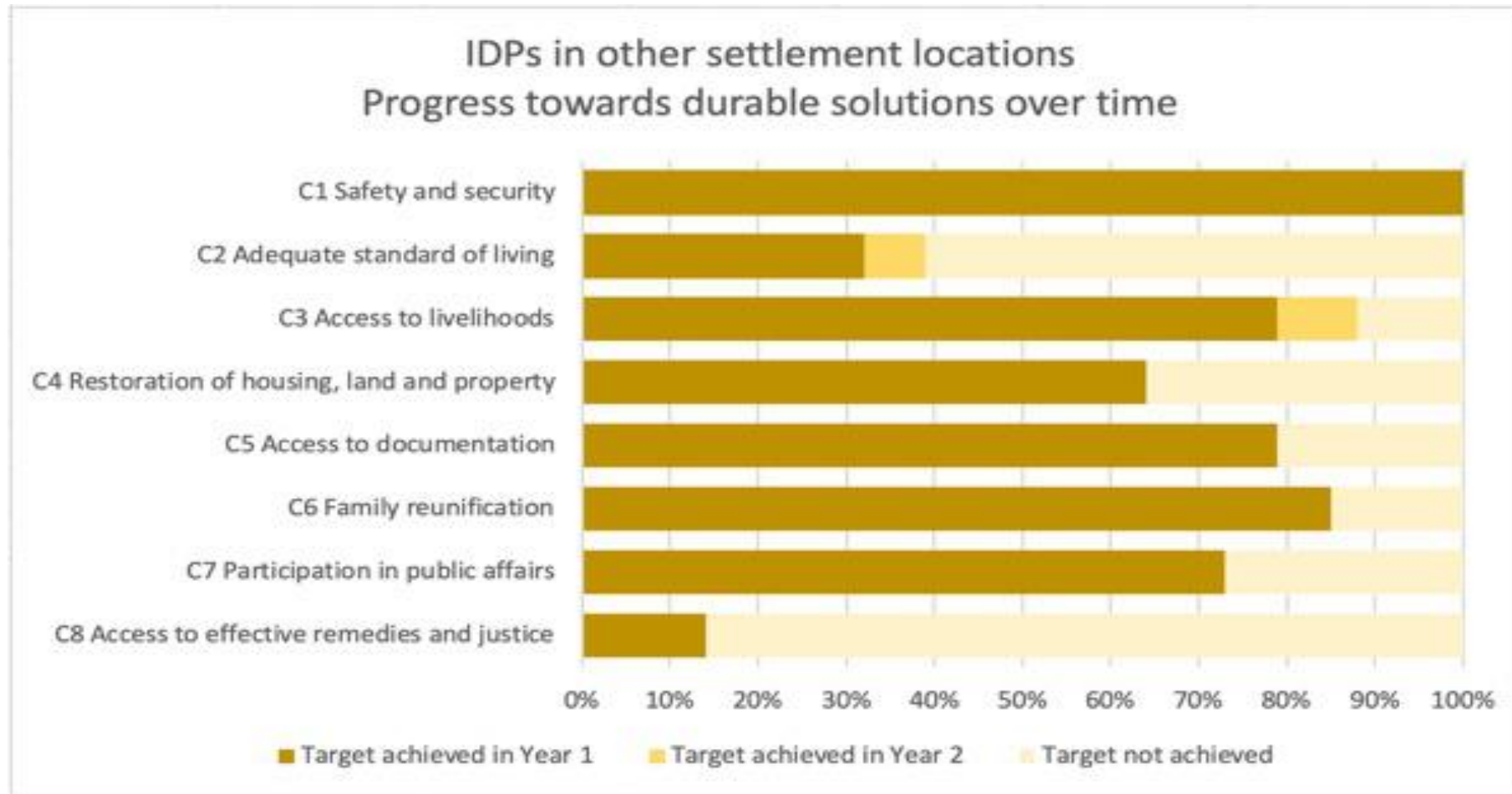
# IDP Recommendations

## Which population to compare with?



# IDP Recommendations

## Illustration of progress measure



# HOUSEHOLD LEVEL ASSESSMENT

BY DURABLE SOLUTIONS CRITERIA

	Household 1	Household 2	Household 3	Household 4	Household 5
<b>Criteria 1</b>	✓	?	X	?	X
1.1	✓	?	X	?	X
1.2	✓	✓	✓	✓	✓
<b>Criteria 2</b>	✓	✓	✓	X	X
2.1	✓	✓	✓	✓	X
2.2	✓	✓	✓	✓	✓
2.3	✓	✓	✓	X	✓
2.4	✓	✓	✓	✓	X
<b>Criteria 3</b>	✓	?	✓	✓	X
3.1	✓	✓	✓	✓	X
3.2	✓	?	✓	✓	X
<b>Criteria 4</b>	✓	✓	✓	✓	✓
4.1	✓	✓	✓	✓	✓
<b>Criteria 5</b>	✓	✓	✓	✓	X
5.1	✓	✓	✓	✓	X
<b>RESULT</b>	✓	?	X	X	X

✓ passed  
 ? not enough information  
 X not passed



**20%**  
 have overcome key displacement-related vulnerabilities

**20%** information lacking for certain sub-criteria  
**60%** have not overcome key displacement-related vulnerabilities

Assessment of whether key displacement-related vulnerabilities have been overcome – and IDPs can be taken out of statistical stock

# How to collect data?

- Inclusion in household surveys
- Use of registers
- Potential inclusion in censuses
- Combination of data sources

# EGRIS country implementation

## **Afghanistan:**

- Working group including national and international policy makers
- Moving towards common definitions, and aligning data systems

## **Colombia**

- Already has a framework in place for measuring vulnerabilities of IDPs
- Also linking this work to SDG disaggregation

## **Kenya:**

- Included questions on refugees in census
- A unit dedicated to the collection and dissemination of refugee related statistics.

## **Mexico:**

- Working on IDP law – benefiting from clear framework in EGRIS
- Forced displacement module to include in surveys

## **Morocco:**

- Including refugees in regional migration survey

## **Ukraine:**

- Coordination of data sources through technical working group

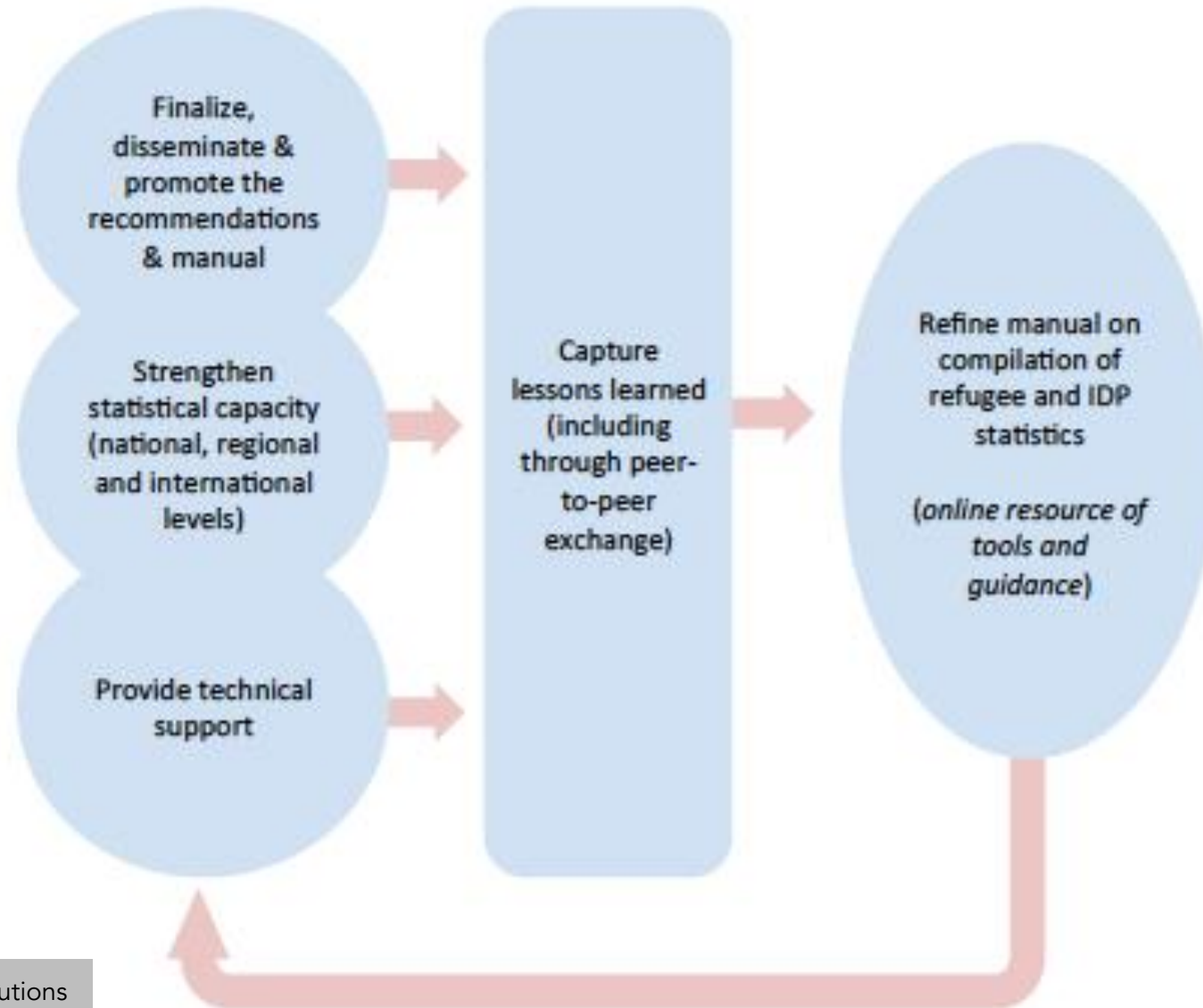
## **African Union – meeting of chief statisticians**

- Agreed to encourage implementation in the region

# Moving forward: Phase III

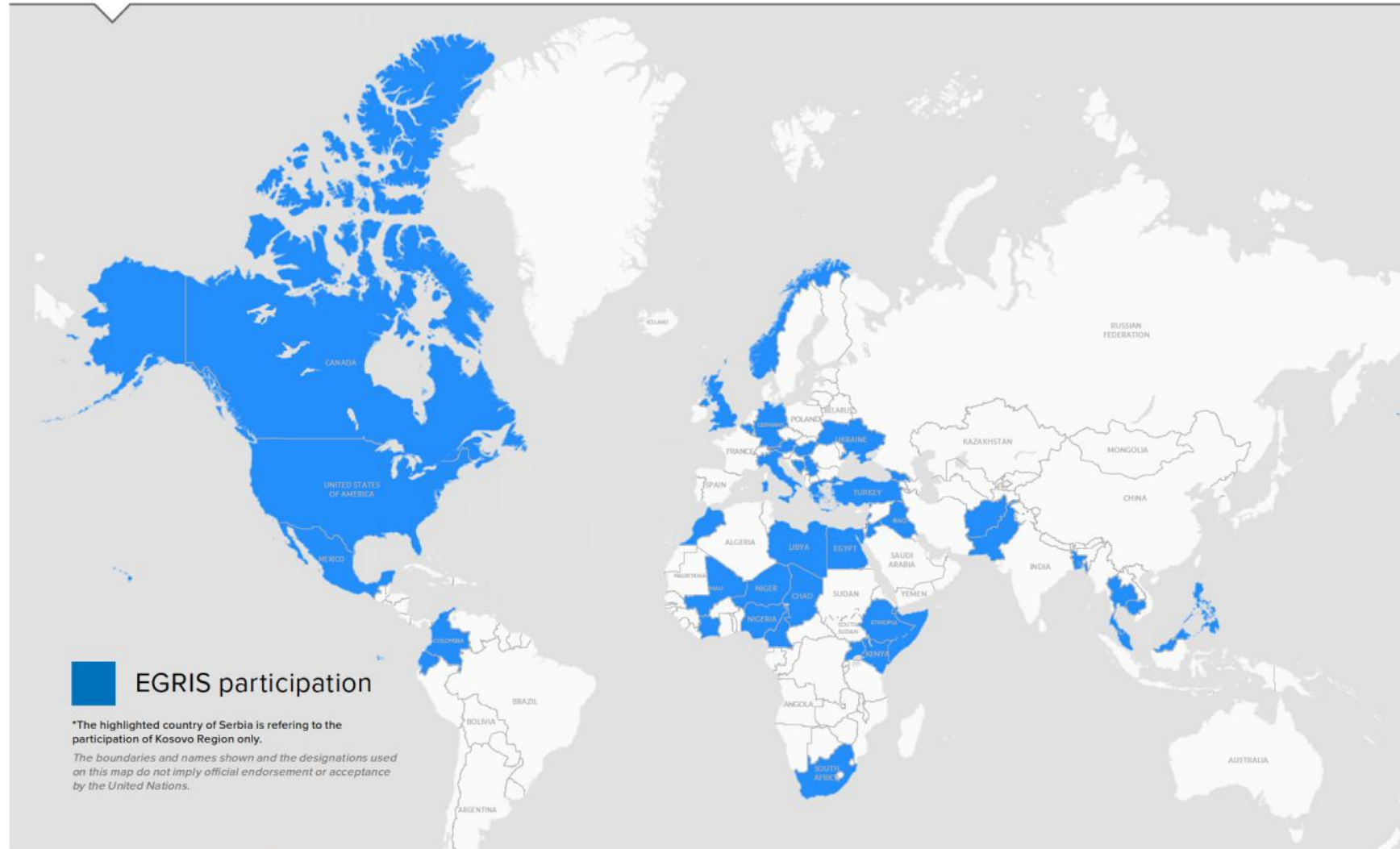
Supporting  
implementation:

- Promotion & dissemination
- Capacity strengthening
- Continuous learning & refinements of manual





# Thank you



Sources: UNCS, UNHCR Author: UNHCR - HQ Geneva Feedback: mapping@unhcr.org Filename: World\_EGRIS\_A4L

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# LORI: Local (Re) Integration Index

*Methodological approach to measure durable solutions in Somalia. A Local (Re) Integration Index, developed for the Danwadaag Durable Solutions Consortium.*



**DANWADAAG**  
Towards Durable Solutions to Displacement

**Speaker:**

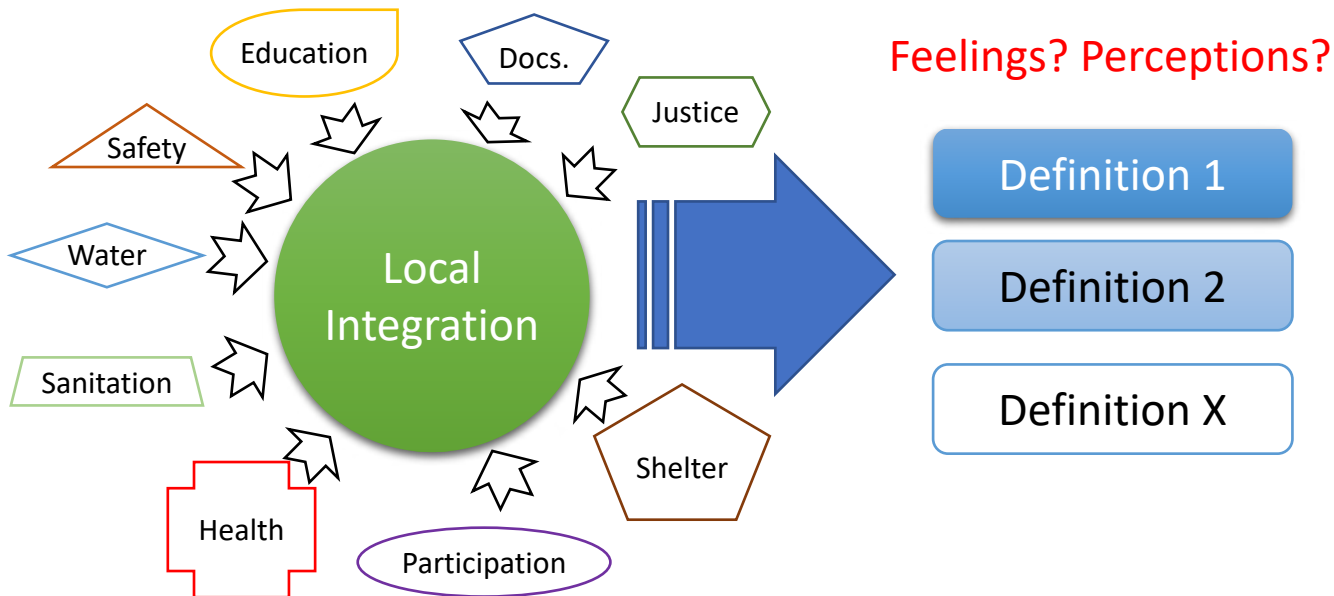


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# What is LORI?

LORI is a composite indicator, that combines multiple criteria and presents it in a single figure, through a defined methodology. It calculates the extent of **local integration** of a household (HH) in a specific location, which allows to measure, monitor and evaluate the progress towards local (re)integration, for a single HH or a group of HHs.

# What is Local Integration?



**Assumption.**

*Only the individual to be integrated can define whether he or she feels integrated or not.*

# Methodology:

Information



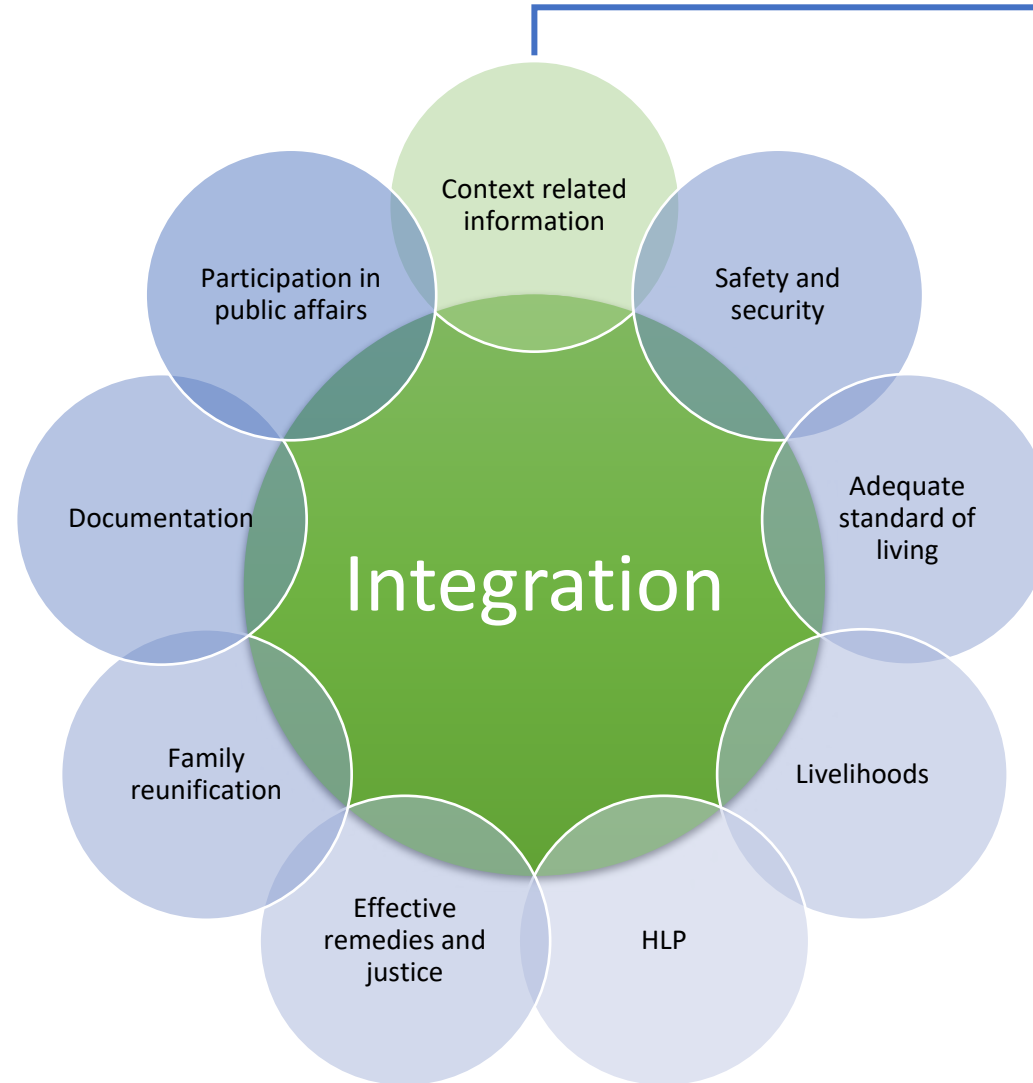
Analysis



Results

## Survey:

- ✓ Target population.
- ✓ Household oriented.
- ✓ Determine area of study.
  - ✓ Sample.
  - ✓ Questionnaire:
    - Context specific.
    - IASC Framework.
- ✓ Data collection teams.
- ✓ Data collection tool.
- ✓ Quality assurance.



**Key Informant Interviews**

**Focus Groups Discussions**



**Local Integration Concept**



## Danwadaag's Survey:

- ✓ Target population: **IDP, Returnee and Host Community.**
- ✓ Determine area of study: **Incubators where the project is implemented.**
  - ✓ Sample: **3050 Households**
  - ✓ Questionnaire: **135 Questions**
- ✓ Data collection teams: **Local population**
  - ✓ Data collection tool: **Kobo Collect**
- ✓ Quality assurance: **Daily check and Random Verification Phone Calls**

Key Informant Interviews: **12**  
Focus Groups Discussions: **40**

**Local Integration Concept:** 'Local integration means living in a peaceful area where one can move freely in safety; building relationships with the community based on trust, addressing challenges and resolving issues together; being fully accepted when participating in social activities and community decision making; exercising one's rights without discrimination on account of one's displacement status; and having fair and free access to employment, economic opportunities and resources, primarily water, land, food, health, education, and housing, among others, even when resources are scarce.'

Do you feel integrated in the place where you currently live? Yes/No

# Methodology:

Information



Analysis



Results

## Danwadaag's LORI

### Data Analysis

- ✓ Frequency charts and tables
- ✓ Comparison between population groups

"BASELINE 2019"

### Variable creation and pre-selection.

- ✓ Variables should be converted into binary
- ✓ Define thresholds.
- ✓ Pre-selection: Tetrachoric Correlation
- ✓ Positive
- ✓ Significant 90% C.I.

51 Variables Created with different thresholds.  
11 Variables Pre-selected

### Model testing and variable selection.

- ✓ Logistic (Logit) Models, before Log. Transf.
- ✓ Mathematical Equation
- ✓ Selection
- ✓ Significant for the model at 90% C.I.

7 Variables Selected: Education, Food, Latrines, Shelter, Land, Capacity to meet basic needs, and Employment.

# Methodology:

Information



Analysis



Results

✓ Mathematical Equation



✓ Coefficients = “odds ratios”

✓ “Odds ratios” are transformed into weights that take values between 0 and 1, and the sum of all weight must be 1.

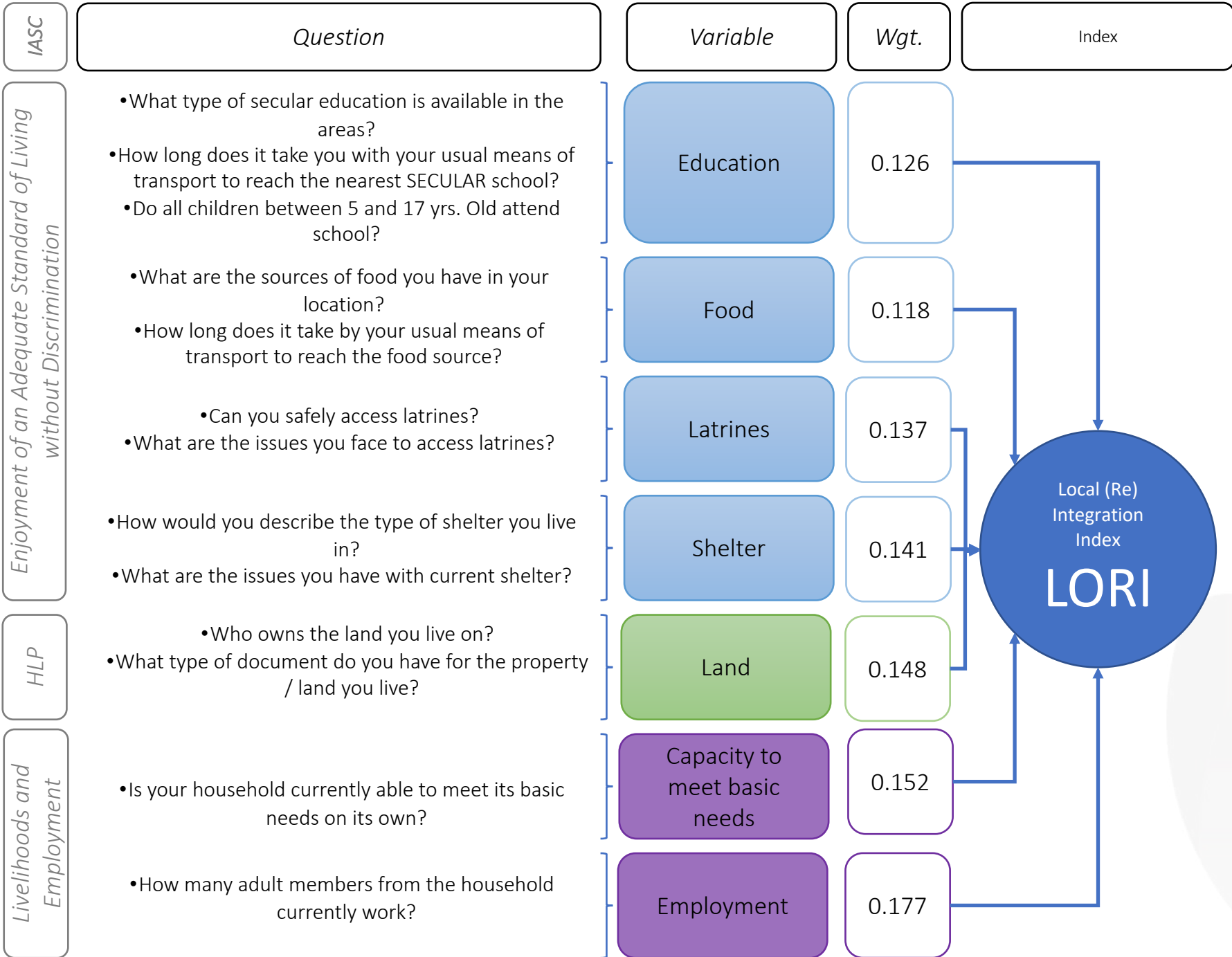
✓ To obtain the weight, the odds ratio of each variable is divided by the sum of all odds ratio.

## Danwadaag’s LORI

Variable	Odds ratio	Weight
Education	1.4063	0.126
Food	1.3166	0.118
Latrines	1.5328	0.137
Shelter	1.5783	0.141
Land	1.6556	0.148
Basic needs	1.7030	0.152
Employment	1.9829	0.177
<b>Sum of Odds Ratio</b>	<b>11.1754</b>	<b>1.000</b>

$$LORI_i = e_i * w_e + f_i * w_f + l_i * w_l + s_i * w_s + la_i * w_{la} + b_i * w_b + em_i * w_{em}$$





**Example.** If a household had access to education, food and employment, but did not have access to the other variables:

$$\begin{aligned}
 LORI_i &= 1 * 0.126 + 1 * 0.118 + 0 * 0.137 \\
 &+ 0 * 0.141 + 0 * 0.148 + 0 * 0.152 \\
 &+ 1 * 0.177
 \end{aligned}$$

The LORI score for this individual household is calculated as  $LORI_i = 0.421$ .

Variable	HC.	IDP	Ret.	Total
Avg. Education	0.024	0.015	0.023	0.020
Avg. Food	0.080	0.058	0.065	0.067
Avg. Latrines	0.032	0.017	0.014	0.021
Avg. Shelter	0.031	0.010	0.011	0.017
Avg. Land	0.086	0.066	0.054	0.070
Avg. Capacity to meet basic needs	0.007	0.010	0.002	0.007
Avg. Employment	0.138	0.137	0.132	0.136
Avg. LORI	0.398	0.313	0.300	0.337

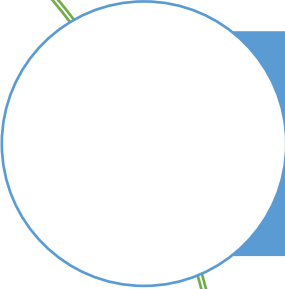
The index allows presenting the result as an average for the whole population or for specific groups of population. The calculation is done according to the following formula:

$$Avg. LORI = \frac{\sum_i^n LORI_i}{n}$$

Where,

*LORI<sub>i</sub>* = Local (Re)Integration Index of each household  
*n* = number of households of the group

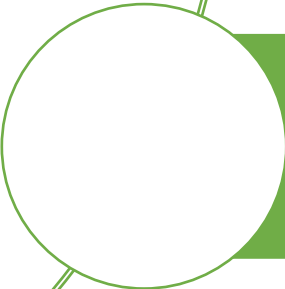
# Benefits:



LORI is a strategic tool for durable solutions programming. It identifies which areas will have more impact to improve local integration.










It is a monitoring and evaluation tool. Once the design is final, it could be simplified to carry simpler data collection and analysis.

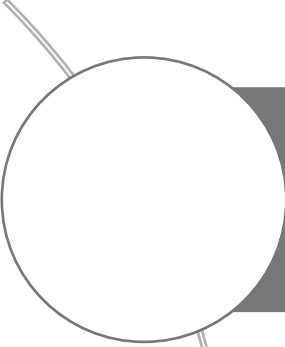


It could be used as a targeting tool, to select beneficiaries to be part of a specific program.

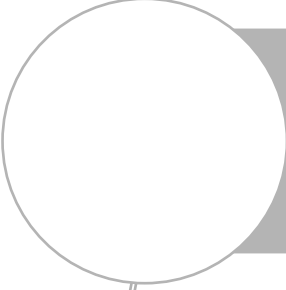
# Benefits:

		BRA		Jubaland	South West				Total	
		Daynile	Kaxda	Kismayo	Afgowe	Baidoa (ADC)	Baidoa (Barwago)	Baidoa (Hanano)	Baidoa (Other)	
	Avg. Education	0.009	0.022	0.043	0.020	0.009	0.011	0.036	0.018	0.020
	Avg. Food	0.072	0.075	0.081	0.079	0.064	0.066	0.058	0.059	0.067
	Avg. Latrine	0.013	0.031	0.019	0.022	0.006	0.030	0.028	0.017	0.021
	Avg. Shelter	0.020	0.025	0.015	0.010	0.006	0.023	0.024	0.013	0.017
	Avg. Land	0.123	0.106	0.017	0.016	0.090	0.084	0.063	0.064	0.070
	Avg. Capacity to meet basic needs	0.017	0.020	0.000	0.004	0.006	0.011	0.004	0.005	0.007
	Avg. employment	0.145	0.131	0.167	0.143	0.133	0.147	0.123	0.139	0.136
<b>Avg. LORI</b>		<b>0.400</b>	<b>0.409</b>	<b>0.342</b>	<b>0.295</b>	<b>0.315</b>	<b>0.372</b>	<b>0.335</b>	<b>0.314</b>	<b>0.337</b>

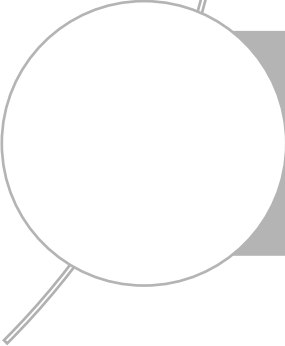
# Limitations:



The index is specific to the location, so it can't be compared to other locations. However, all the “Baseline” information is comparable.



The weight of the index need to be updated, as the program is implemented. Since the population needs are dynamic, hence the weight they assign to different services might change.



It relies on the information provided by the interviewee (Head of the household), which might not be accurate.

# Agenda

## 3.00 pm CET | Welcome & opening remarks

- **Opening remarks:** Aldo Benini, sociologist and humanitarian expert working on statistics
- Moderator: Margharita Lundkvist-Houndoumadi, Joint IDP Profiling Service (JIPS)

## 3.15 pm | Case study presentations

1. **Developing a statistical measure of overcoming key displacement-related vulnerabilities – a composite measure proposed by the Expert Group on Refugee and IDP Statistics (EGRIS)** with Vibeke Oestreich Nielsen, UN Statistical Division (UNSD)
2. **Measuring durable solutions in Somalia – a local re-integration index developed by the Danwadaag Durable Solutions Consortium** with Santiago Córdova, independent consultant

## 3.45 pm | Q&A

## 4.25 pm | Closing remarks

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MODERATOR

**Margharita Lundkvist-Houndoumadi**

Joint IDP Profiling Service (JIPS)



OPENING REMARKS

**Aldo Benini**

Sociologist and humanitarian expert working on statistics



SPEAKER

**Vibeke Oestreich Nielsen**

United Nations  
Statistical Division (UNSD)



SPEAKER

**Santiago Córdova**

Independent consultant

**Webinar**

# COMPOSITE MEASURES FOR ANALYSING DURABLE SOLUTIONS : Practitioners' reflections from global and field level

*JIPS' work on durable solutions analysis is made possible with funding provided by the United States Government.*



**TUESDAY** MAR 31<sup>st</sup>, 2020 **15.00 GENEVA**



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