Disabling barriers – Break to

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1. Development process
2. Conceptual basis
3. Data
Development process

**PHASE ONE**

**MAPPING DRAFTING**

- A) Review available surveys
- B) Statistical analysis with microdata
- C) Draft of a Zero MDS version
- D) Expert Consensus

**Alpha Version**

**Nov 2011**

**Dec 2012**

**Aug 2013**

**Nov 2014**

**PHASE TWO**

**TESTING & FURTHER DEVELOPMENT**

- Cognitive testing
- Pilot studies

**PHASE THREE**

**IMPLEMENTATION**

National Disability Surveys:

- MDS as stand alone survey
- Addition of Brief MDS existing surveys and data collection platforms

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National Disability Surveys:
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Timeline:
- Nov 2011: Alpha Version
- Dec 2012: Beta Version
- Aug 2013: Cognitive testing
- Nov 2014: Implementation
179 Health and Disability Surveys

12 surveys selected for data analyses
Tradition measuring functioning and disability

WHO Study on global AGEing and adult health (SAGE)

Wave 0: 2002-2004
Wave 1: 2007-2010
Wave 3: 2017

Multi-Country Survey Study

World Health Surveys WHS

Model Disability Survey

WHODAS 2.0 Manual
Development process

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Institutions

• National Center for Health Statistics, US
• Institute for Survey Research, University of Michigan, US
• Statistics Norway, Norway
• Institute for Public Health and Health Services Research, Ludwig-Maximilians-University Munich, Germany

Countries

• US, Cambodia, Malawi, Nepal, China and UK
PILOT STUDIES

CAMBODIA 2014
N=500 adults

MALAWI 2014
N=500 adults

OMAN 2016
N ≈ 300 adults

PAKISTAN 2015
N≈4000

BRAZIL 2017
N=2.000, in preparation

MALAWI 2014
N=500 adults

CAMBODIA 2014
N=500 adults
Brief MDS

• **WHO** recommends the **MDS** as a broad national disability survey every five or ten years

• **MDS brief version** can be integrated in health and further specific surveys in between these full implementations

**Goal:** Guarantee regular, continuous monitoring of disability for CRPD and SDGs
Brief MDS – Development 2015/2016

Technical expert consultation
December 2015 at the WHO Headquarters in Geneva, Switzerland.
**GOAL:** propose a first version of the brief MDS.

**Statistical analyses**
**GOAL:** confirm robustness and reliability of the set proposed in December using Generalized Partial Credit Model and Bayesian models adjusted for age, gender and income.

Brief MDS
August 2016, WHO Headquarters, Geneva, Switzerland.
**GOAL:** Re-evaluate the consensus achieved in December in the light of the statistical analyses and propose the brief MDS version.
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REGIONAL SURVEYS

- UNITED ARAB EMIRATES
  Dubai
  2017, in preparation

- CAMEROON
  Adamawa
  2016, N≈800

- PAKISTAN
  Tehsil Pindi Gheb
  2017, in preparation
1. Development process
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Disability as the outcome of the interaction between health conditions or impairments and contextual factors

Model of Functioning, Disability and Health

Health condition

Impairment in body functions & structures

Activity limitation

Participation restriction

Environmental factors

Personal factors
Disability as an unidimensional continuum

Number of persons

Low Disability Extrem
ICF Model & Classification

How to operationalize disability for measurement purposes?
Key ICF Concepts

Capacity is the inherent or intrinsic feature of a person to do an action or execute a task “under the skin”

Performance is the doing of an action or execution of a task in the actual context of the individual “the lived experience”
Intrinsic capacity of the body
The result of the interaction of capacity with the environment and the person
1. Development process
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3. Data
Goals

1. To determine the **distribution of disability** in the region or country
Disability Continuum

CAPACITY

PERFORMANCE

Sri Lanka
Disability Continuum

Sri Lanka
Does individual A experience less or more disability than individual B, irrespective of the underlying health condition?

Are levels of disability higher in population A than population B?

Does risk groups experience less or more disability than at a previous point in time?

Are levels of disability in a population lower or higher than at a previous point in time?

What are the major determinants of disability?
Are levels of disability higher in women than in men?  

Sri Lanka
Are levels of disability higher in the elderly population?

Sri Lanka

AGE 17-39

AGE 40-59

AGE 60+

No problems

Extreme problems
Goals

1. To determine the distribution of disability in the region or country

2. To estimate the prevalence of disability
Disability rate

CAPACITY

Severe capacity difficulties

PERFORMANCE

Severe performance problems

VULNERABLE GROUP!

PERSONS EXPERIENCING DISABILITY
Disability rate

VULNERABLE POPULATIONS IN NEED OF POLITICAL ATTENTION

Severe capacity difficulties

Severe performance problems

CAPACITY

PERFORMANCE
Disability rate

**DISABILITY RATE** = # PERSONS WITH SEVERE DIFFICULTIES IN CAPACITY OR SEVERE PROBLEMS IN PERFORMANCE / SURVEY SAMPLE
Goals

1. To determine the distribution of disability in the region or country

2. To estimate the prevalence of disability

3. To detect inequality, barriers and needs associated with disability
GOAL 8

Indicator 8.5.2: Unemployment rate, by sex, age and persons with disabilities

Chile

- **Severe**
  - Unemployed: 65.84%

- **Moderate**
  - Unemployed: 54.23%

- **Mild**
  - Unemployed: 45.55%

- **No**
  - Unemployed: 47.95%

- **Male**
  - Unemployed: 54.79%

- **Female**
  - Unemployed: 31.58%

- **No**
  - Unemployed: 19.41%
GOAL 10

10.3.1 Proportion of the population reporting having personally felt discriminated against or harassed within the previous 12 months

% who felt often or always discriminated

Chile

<table>
<thead>
<tr>
<th>Severity</th>
<th>Female %</th>
<th>Male %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>8.43</td>
<td>10.96</td>
</tr>
<tr>
<td>Moderate</td>
<td>4.35</td>
<td>3.16</td>
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<tr>
<td>Mild</td>
<td>2.16</td>
<td>2.29</td>
</tr>
<tr>
<td>No</td>
<td>1.1</td>
<td>0.66</td>
</tr>
</tbody>
</table>
Goals

1. To determine the *distribution of disability* in the region or country

2. To estimate the *prevalence* of disability

3. To detect *inequality, barriers and needs* associated with disability

4. To *monitor* the effectiveness of concrete actions and policies at regional and national level
Thank you for your attention!

Long and brief MDS available at:
http://www.who.int/disabilities/data/mds/en