UN Regional Meeting on Disability Measurement and Statistics Bangkok, Thailand, 26-28 July 2016

## WHO's current work on disability data

Alarcos Cieza
Disability and Rehabiliation
WHO Geneva

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Persons with disabilities have to be able to participate in society "on an equal basis with others"

Article 31 - Statistics and data collection
Statistical and research data for policy implementation















- Regional and national agendas
- UN Organizations





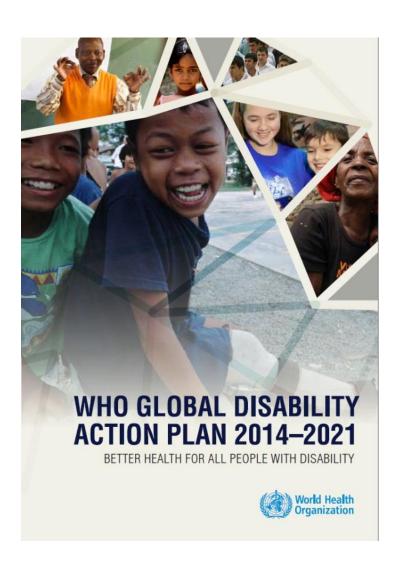














## Purposes for collecting disability data

- 1. To determine the overall population **prevalence** of disability;
- 2. To identify the existence and extent of the inequality;
- 3. To **monitor** the effectiveness of concrete actions and policies at the national level; and
- 4. To formulate policy recommendations.

# Where all these data should come from?

## Disability Data

### Censuses

Country Specific Surveys

1), 2), 3)

1), 2), 3), 4)

## Disability Surveys

1), 2), 3), 4)

#### Purposes for collecting disability data

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## Administrative data

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# What is about disability data coming from registers?

Not useful for disability prevalence

## WHO is working on ...

Censuses

Country Specific Surveys

**Brief MDS** 

Disability Surveys

**MDS** 

• What are the data collection approaches?

• Which disability data are we collecting?



International
Classification of
Functioning,
Disability
and
Health



World Health Organization Geneva

## **Key ICF Concepts**





Intrinsic capacity of the body

The result of the interaction of capacity with the environment and the person

## **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"

# Why is it fundamental to have information about both?





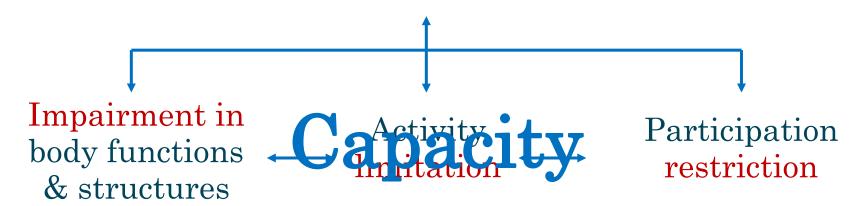
Intrinsic capacity of the body

The result of the interaction of capacity with the environment and the person



# Which information on disability is needed?

Health condition





## Which information on disability is needed? Health condition Impairment in body function Performance Participation restriction & structures Environmental factors Personal factors

Section 4000 Performance

How much of a problem is getting out of your home for you?

1 None 2	X	4	5 Extreme	8 Don't Know
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Migraine

SCI

Section 5000 Capacity

How much difficulty do you have moving around because of your health?

None 2 3	4	5 Extreme	Don't Know
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## Model Disability Survey (MDS)





## Fundamental modules

Section 3000 A

Environmental factors

Section 4000

Performance

Section 5000

Health
Conditions &
Capacity

Section 3000 B

Personal assistance, assistive devices, facilitators

## Fundamental modules

Section 3000 A

Environmental factors

Section 4000

Performance

Section 5000

Health
Conditions &
Capacity

Section 3000 B

Personal assistance, assistive devices, facilitators

Section 1000

Sociodemographic Characteristics Section 2000

Work History and Benefits

Section 6000

Health Care Utilisation

Section 7000

Well-Being

Section 8000

Empowerment

## 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

ha Version

Dec
2011

### 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

Aug 2013

Nov 2014

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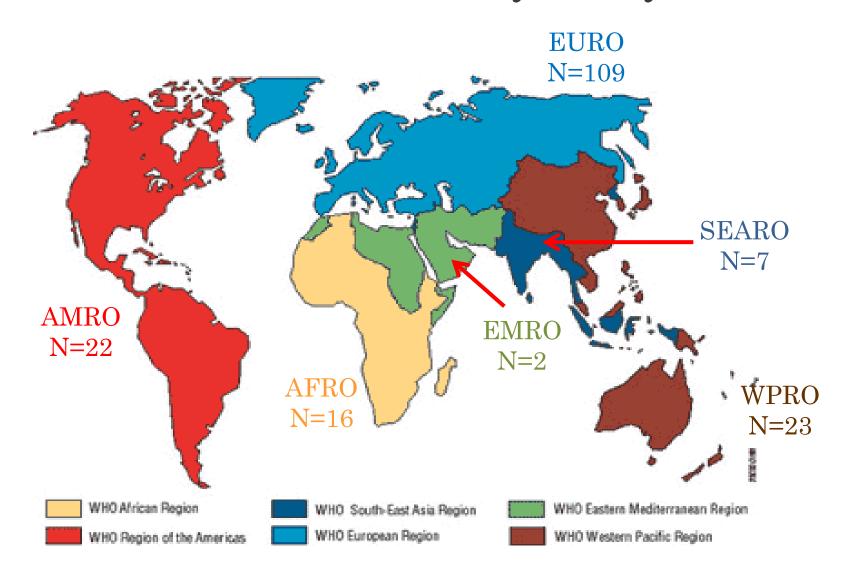
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Aug 2013

Nov 2014

## 179 Health and Disability Surveys



## Preparatory phase

## http://disabilitysurvey.checkdesign.de/

- Oberhauser C, Chatterji S, Sabariego C, Cieza A. Development of a metric for tracking and comparing population health based on the minimal generic set of domains of functioning and health. *Popul Health Metr. 2016* May 12;14:19. doi: 10.1186/s12963-016-0088-y.
- Sabariego C, Oberhauser C, Posarac A, Bickenbach J, Kostanjsek N, Chatterji S, Officer A, Coenen M, Chhan L, Cieza A. Measuring Disability: Comparing the Impact of Two Data Collection Approaches on Disability Rates. Int J Environ Res Public Health. 2015 Aug 25;12(9):10329-51. doi: 10.3390/ijerph120910329.
- Sabariego C, Oberhauser C, Posarac A, Bickenbach J, Kostanjsek N, Chatterji S, Officer A, Coenen M, Chhan L, Cieza A. Response to Madans et al. Comments on Sabariego et al. Measuring Disability: Comparing the Impact of Two Data Collection Approaches on Disability Rates. Int. J. Environ. Res. Public Health, 2015, 12, 10329-10351.

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## Cognitive testing

Three rounds: 2013, 2014, 2015

#### 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

Cambodia	<ul><li>National Institute of Statistics Cambodia</li><li>WHO</li></ul>				<ul><li>completed</li><li>Report being prepared</li><li>by SN</li></ul>
Malawi	<ul> <li>Statistics Norway (SN)</li> </ul>	Mar 2015	500	500	<ul> <li>Data analyses pending</li> </ul>
Pakistan	<ul> <li>Pakistan Bait-ul-Mal*</li> </ul>	Feb & Mar 2015	3977	-	<ul><li>Data analyses completed</li><li>Report available</li></ul>
Oman	<ul><li>Ministry of Health</li><li>WHO</li></ul>	Oct & Nov 2015	300	300	<ul><li>Data collection completed</li><li>National survey being planned</li></ul>
	Ministry of Health	Middle	2000	tbd	In planning

2016

\*Pakistan Bait-Ul-Mal (PBM) is one of the major public sector organizations and has been delivering since 1992 Social Protection program in terms of cash, in-kinds, care

**DATA** 

**COLLECTION** 

Aug 2014

**SAMPLE** 

**SIZE** 

**ADULTS** 

500

**SAMPLE** 

**SIZE** 

**CHILDREN** 

500

**STATUS** 

Data analyses

**COUNTRY** 

**Brazil** 

**RESPONSIBLE** 

**INSTITUTION** 

Statistics Norway (SN)

WHO - OPAS

and services addressing almost every needy segment of the society.

Test for inclusion of

national health survey

modules in the

of 2017

<sup>30</sup> 

```
VERSION ZERO (Dec 2012)
```

Expert meeting - 5th Dec 2012

#### **ALPHA VERSION**

Expert appraisal Norway - March 2013

First revised Alpha version (March 2103)

Expert Meeting - 29-30 April 2013

Second Revision of the Alpha Version (May 2013)

1st Round of Cognitive Testing

Revised Alpha version -1st round cognitive testing (Oct 2013)

2nd Round of Cognitive Testing

Revised Alpha version - 2nd round cognitive testing (July 2014)

Preparatory work national survey Chile (Nov 2014)

Revised Alpha version after preparation in Chile (Nov 2014)

MDS Group Intern Meeting, July 2015 – results pilot studies (Cambodia, Pakistan, Malawi) and preparation for the national surveys (Sri Lanka and Chile)

## CURRENT MDS ALPHA VERSION (July 2015)

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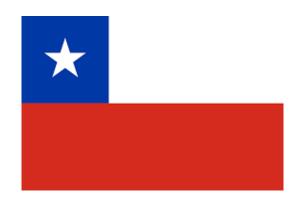
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Nov 2014

## National Surveys – 2015



#### CHILE

- Data Collection: June to August 2015
- Sample:12.000 individual interviews

#### SRI LANKA

- Data Collection: February to April 2015
- Sample: 3.000 households



## **National Surveys**



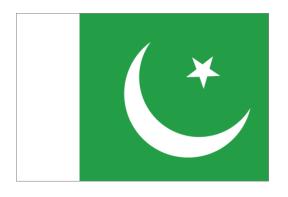
#### **PANAMA**

Planned data collection: October-December 2016

#### **PHILLIPINES**

Planned data collection: January – February 2017





#### Pakistan

Planned data collection: 2017

## Regional Surveys



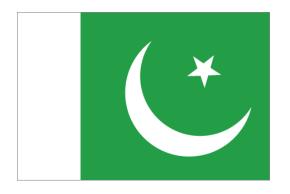
#### DUBAI, United Arab Emirates

Planned data collection: October-November 2016

#### ADAMAWA, CAMEROON

Data collection: April– June 2016

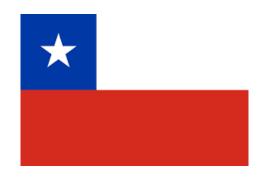




#### Tehsil Pindi Gheb, Pakistan

Data collection: April- June 2016

## Included in existing surveys



#### Chile

- MDS Brief Version
- National Health Survey 2016

#### **BRAZIL**

- •MDS Brief version
- ■National Health Survey 2017



## Model Disability Survey (MDS)





## Capacity



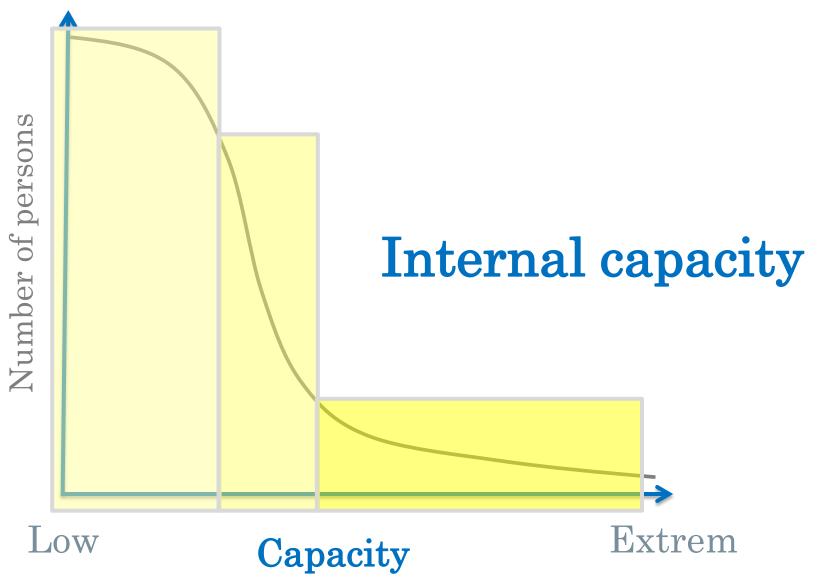
## Intrinsic capacity of the body

## **Performance**

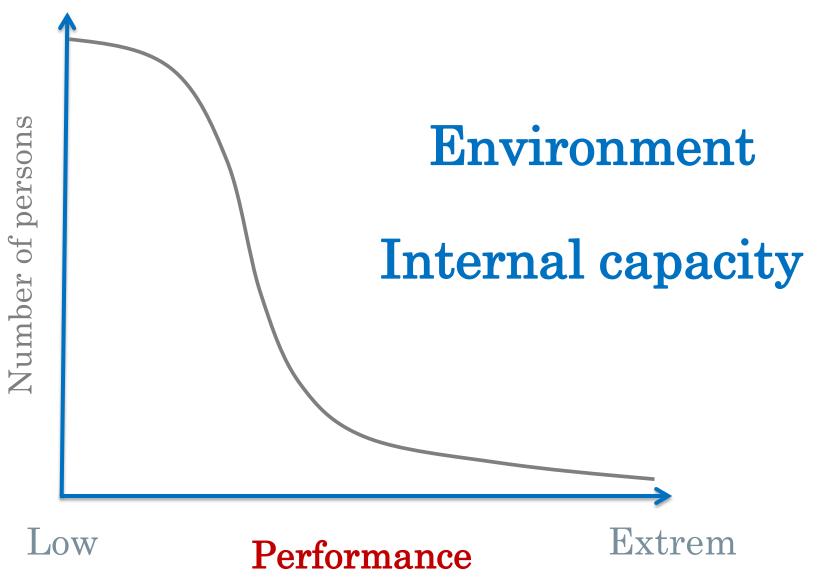


The result of the interaction of capacity with the environment and the person

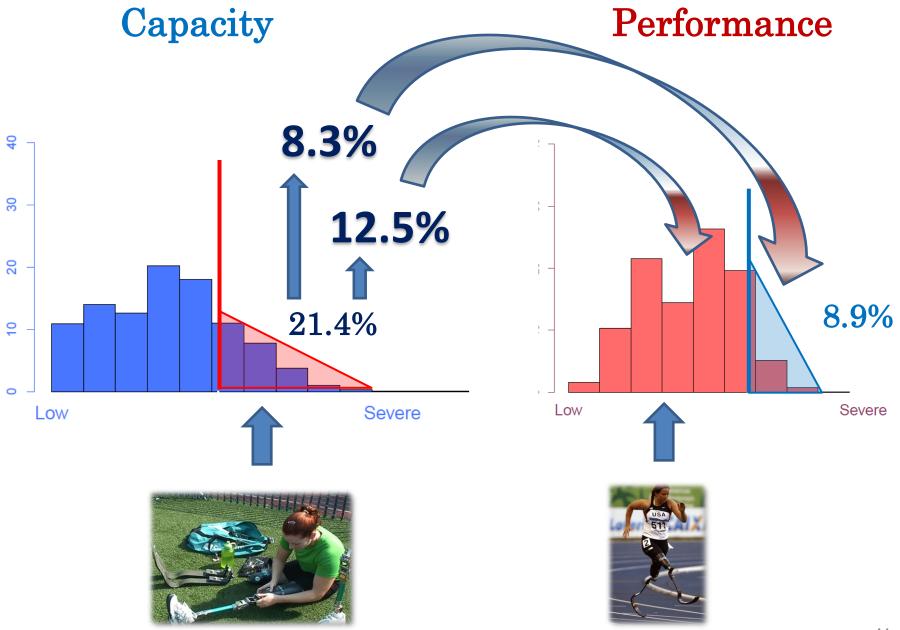
## Both capacity and performance are in a <u>continuum</u> and are <u>unidimensional</u>



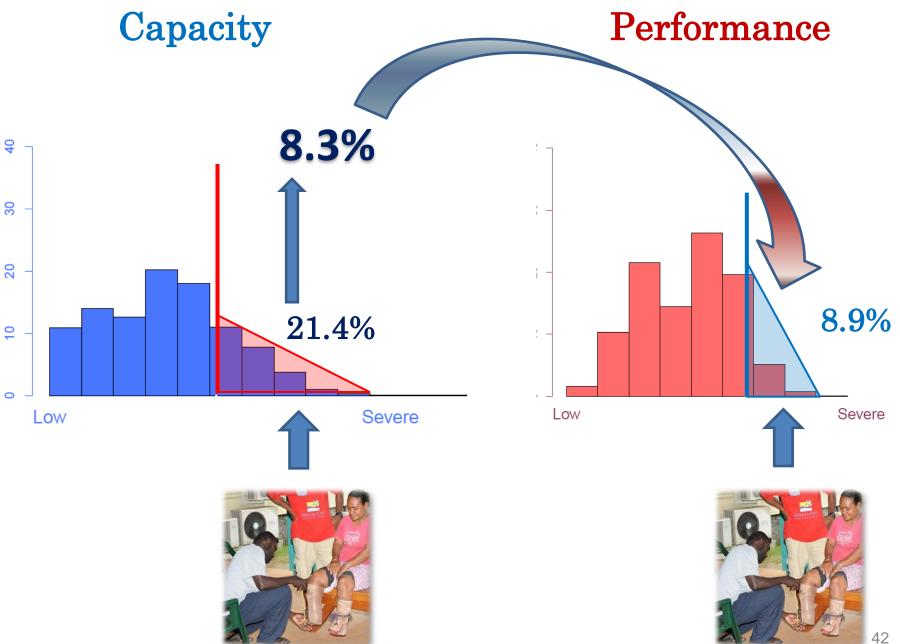
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## CHILE (N=12265)



## CHILE (N=12265)



## GOAL 11

## Chile

# 1 most 11 most 1 most 1

## 11.2.1 Proportion of population that has convenient access to public transport

% who have problems using transportation



## GOAL 8

## Chile & Sri Lanka

SUSTAINBLE DEVELOPMENT GOALS

1 Tour H+1/1+1

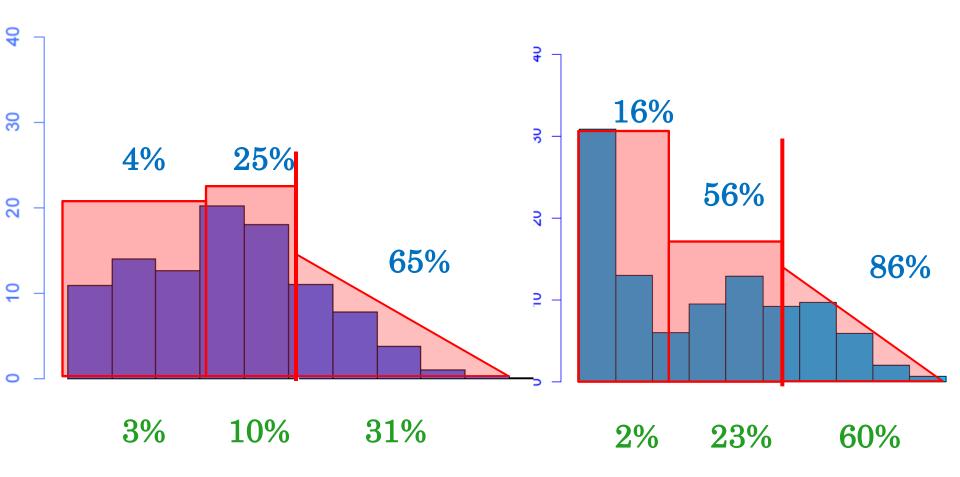
2 Tour STAINBLE DEVELOPMENT GOALS

4 Tour STAINBLE DEVELOPMENT GOALS

5 Tour STAINBLE DEVELOPMENT GOALS

1 Tou

% who have problems getting things done at work



Experienced Barriers at the workplace

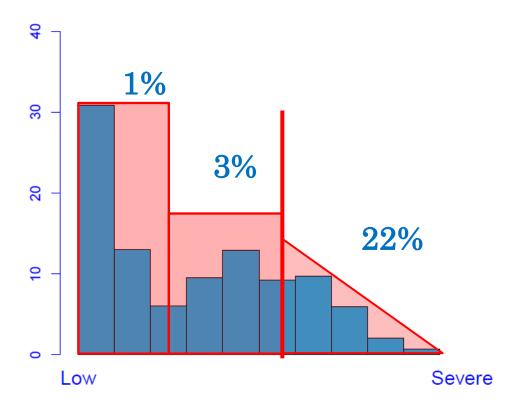
## GOAL 6

## Sri Lanka



## 6.2.1 Proportion of population using safely managed sanitation services

% who find hard or very hard to use the toilet of the dwelling



## Collaboration between WHO and countries

- Close collaboration with the countries
  - -Training
  - Analyses
  - -Reporting
- We encourage the collaboration among the statistical office, ministries and UN organizations