

CONSEVAL

Consejo Nacional de Evaluación
de la Política de Desarrollo Social

Stata as a tool for transparency and statistics dissemination: measuring multidimensional poverty in México

April 29, 2010

www.coneval.gob.mx

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Forewords

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**Regulate and coordinate
the evaluation of
social development policies
and programs**

Evaluation

**Set the guidelines and criteria
for the definition, identification
and measurement of poverty
in Mexico**

Poverty

- **CONEVAL will use information generated by INEGI on, at least, the following indicators:**

Current Income per capita

Housing Quality and Space

Average Educational Gap in Households

Access to Basic Housing Services

Access to Health Services

Access to Food

Access to Social Security

Level of Social Cohesion

LGDS, artículo 37

**Periodicity and
Level of
Disaggregation**

State (32)

2 years

Municipality (2454)

5 years

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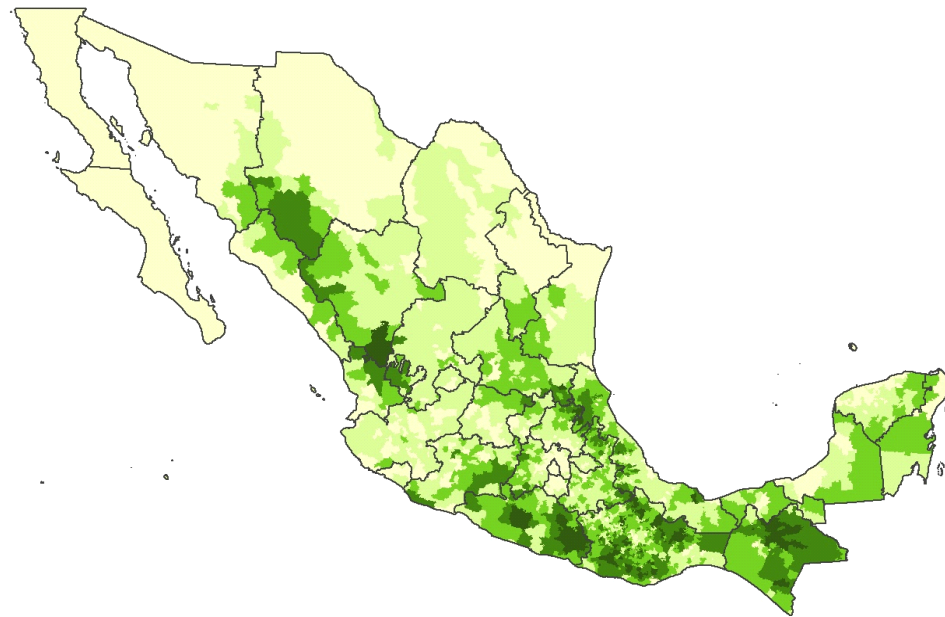
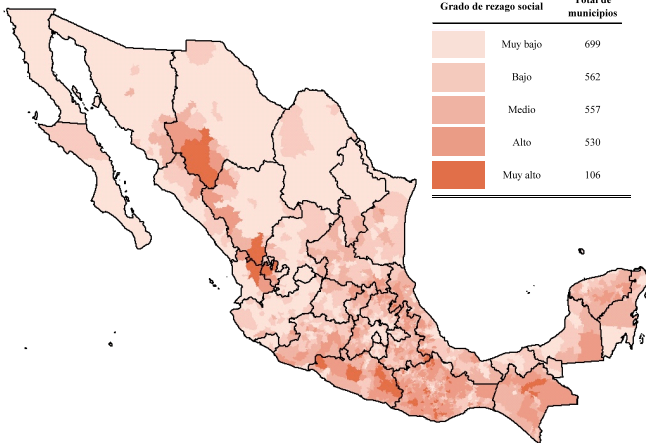
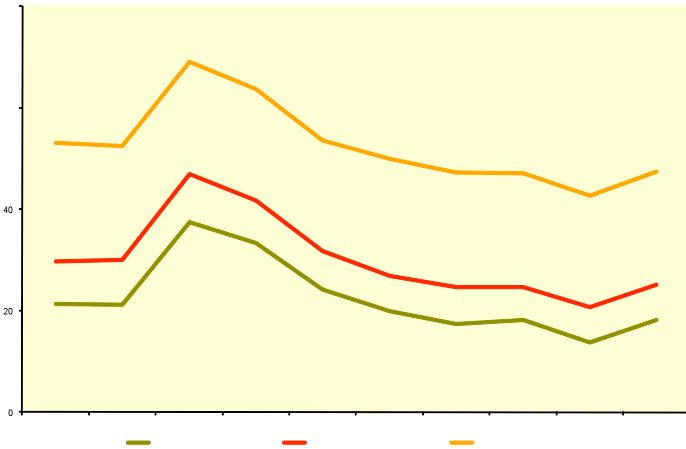
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First steps

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Income poverty

Porcentaje de población en situación de pobreza por ingresos
1992 – 2008



- **Generation based on public access data bases**
- **Publication of all necessary guidelines and criteria to replicate the estimates**
- **Technical documentation**
- **Statistical routines in Stata and SPSS**
- **Technical consultancy to all interested public**

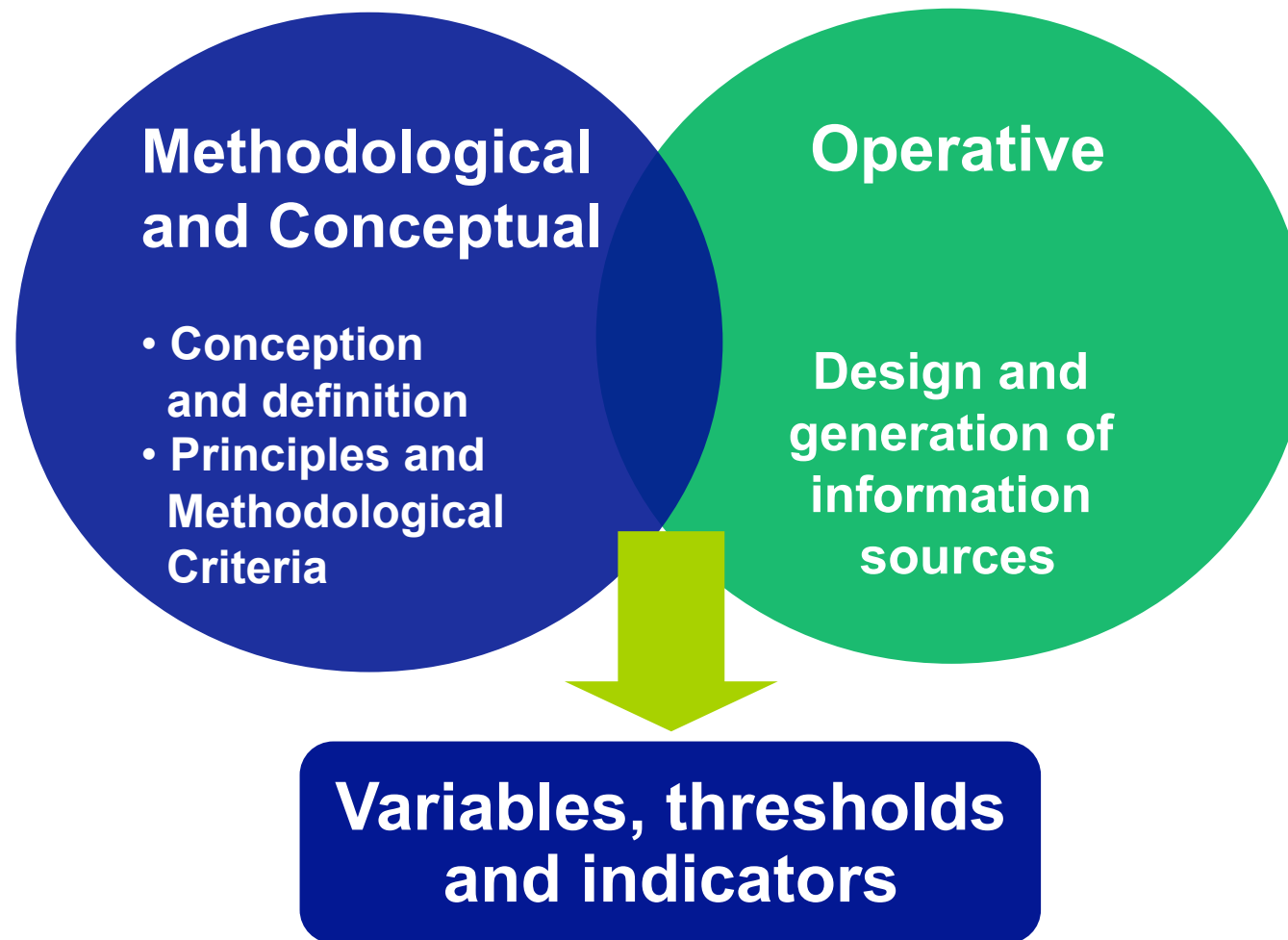
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Multidimensional measurement of poverty in México

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Two Research Agendas:



- **First Stage:**
 - Discussion sessions with national and international experts

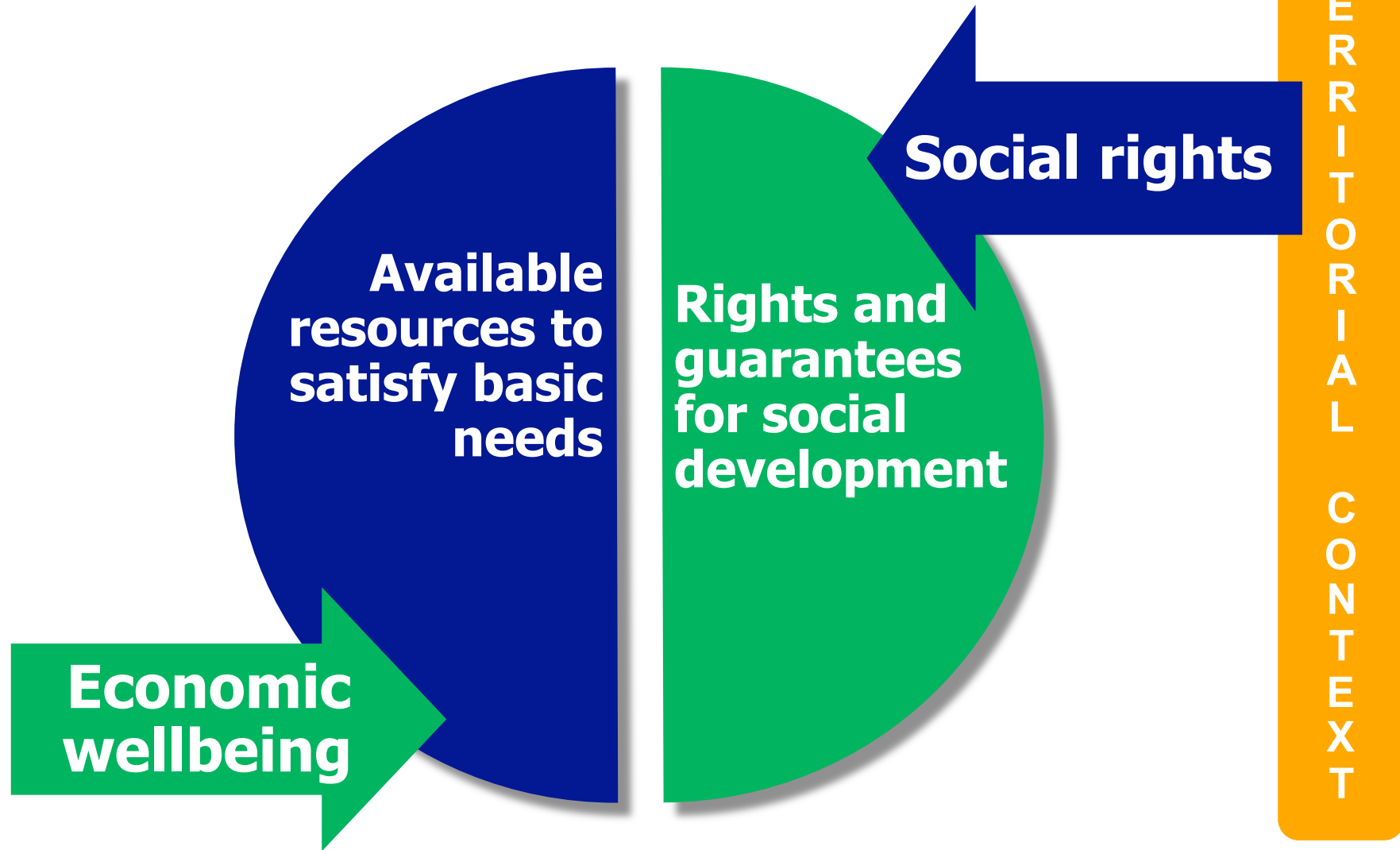
- **Second stage:**
 - Specific methodological proposals
 - Discussion workshops and an international seminar
 - First institutional proposal

- **Third stage:**
 - **Seminars of internal discussion**
 - **Elaboration of a discussion draft**

- **Fourth stage:**
 - **National seminar**
 - **International seminar**

- **Presentation of the official methodology
and 2008 measures**

Concept and definition of poverty



Indicators development

Wellbeing

- Wellbeing threshold
- Minimum wellbeing threshold

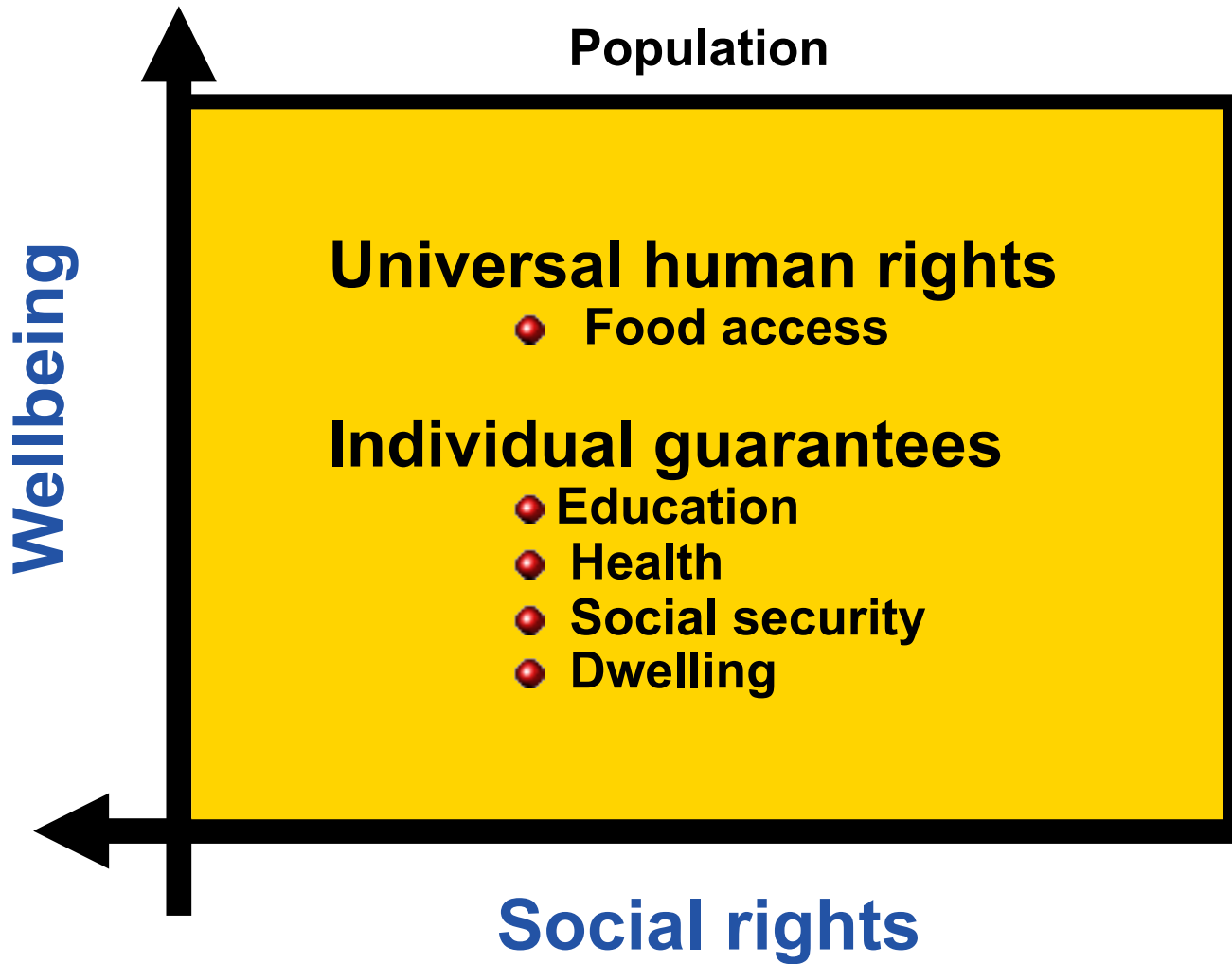
- Economies of scale
- Adult-equivalence
- Consumption patterns actualization

Social rights

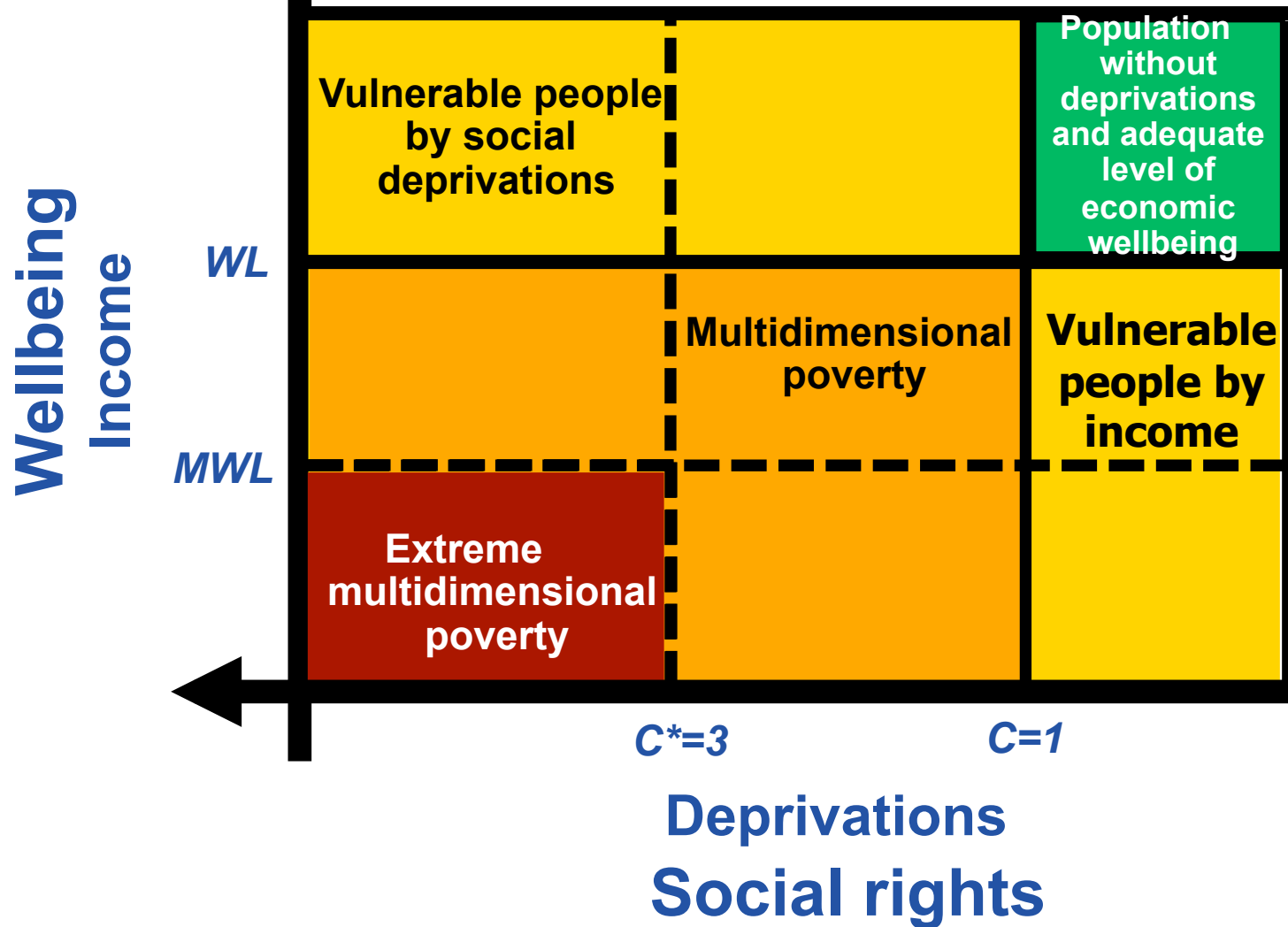
Social deprivation index

- Dwelling (2)
- Health access
- Social security access
- Education gap
- Food access

- Law-based
- Dichotomic indicators



Multidimensional poverty



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Methodological characteristics

- Interactions between social and economic policy
- Recognition of territorial aspects of poverty
- Based upon social justice and equality principles
- Measures of intensity and profundity
- Subpopulation analysis

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Socioeconomic Conditions Module, 2008

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Characteristics

**Colaboration
with oficial statistics office**

**Based on a well known
survey (ENIGH)**

State-level information

**Sample size of 70,000
households**

**Incorporation of all
the measured dimensions**

**Identification of indigenous
population**

**Comparability with
previous surveys**

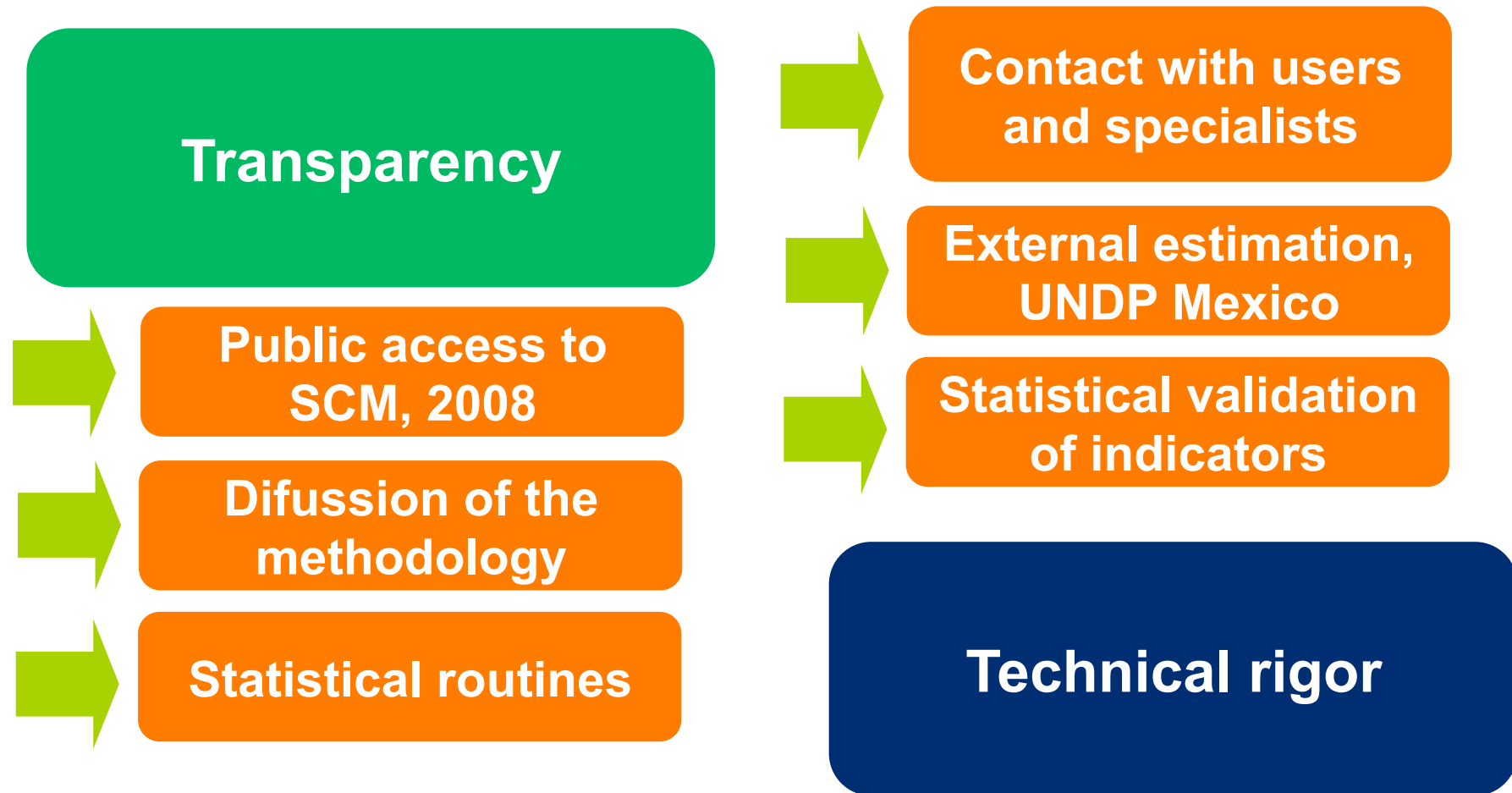
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Measurement 2008

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Statistical software

**SPSS
and
STATA**

- ✓ Wide usage among specialized public
- ✓ Undemanding data entry
- ✓ Straightforward data manipulation
- ✓ Simple data analysis
- ✓ High quality of results

Independent generation

Efficients and equivalents

Instructions followed to
comparability

Measurement

Social rights

Economic
wellbeing

Main indicators
generation

Final report

Routine structure

Statistical routines generation

- Easy and replicable programming
- Dimension-specific complexity
- Territorial context indicators treatment
- Statistical software differences

Statistical software differences

Memory
(RAM)

Globals

Data format
(.dbf)

User-based
commands

Missing values
treatment

Processing
time

Tables and
reports

Number of
instructions

VS

SPSS

STATA

- It is possible to make almost all the procedures in both softwares:
 - Example: reshape/casestovar
- Specific functionalities of Stata:
 - Access through internet to users-developed commands
 - Processing time

- Specific functionalities of SPSS:
 - Direct input of DBF files
 - Interface
 - Graphics edition
 - Report of results

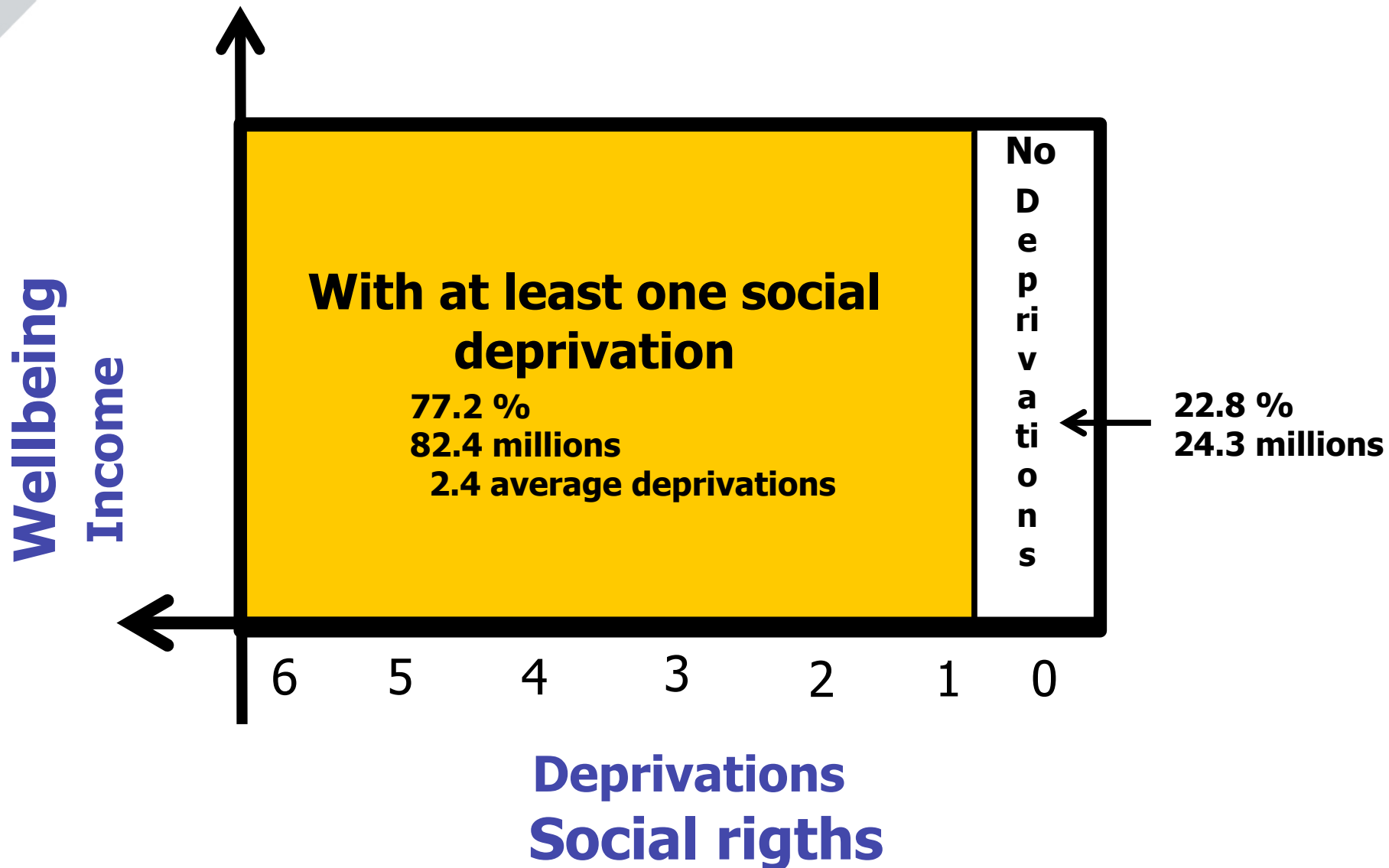


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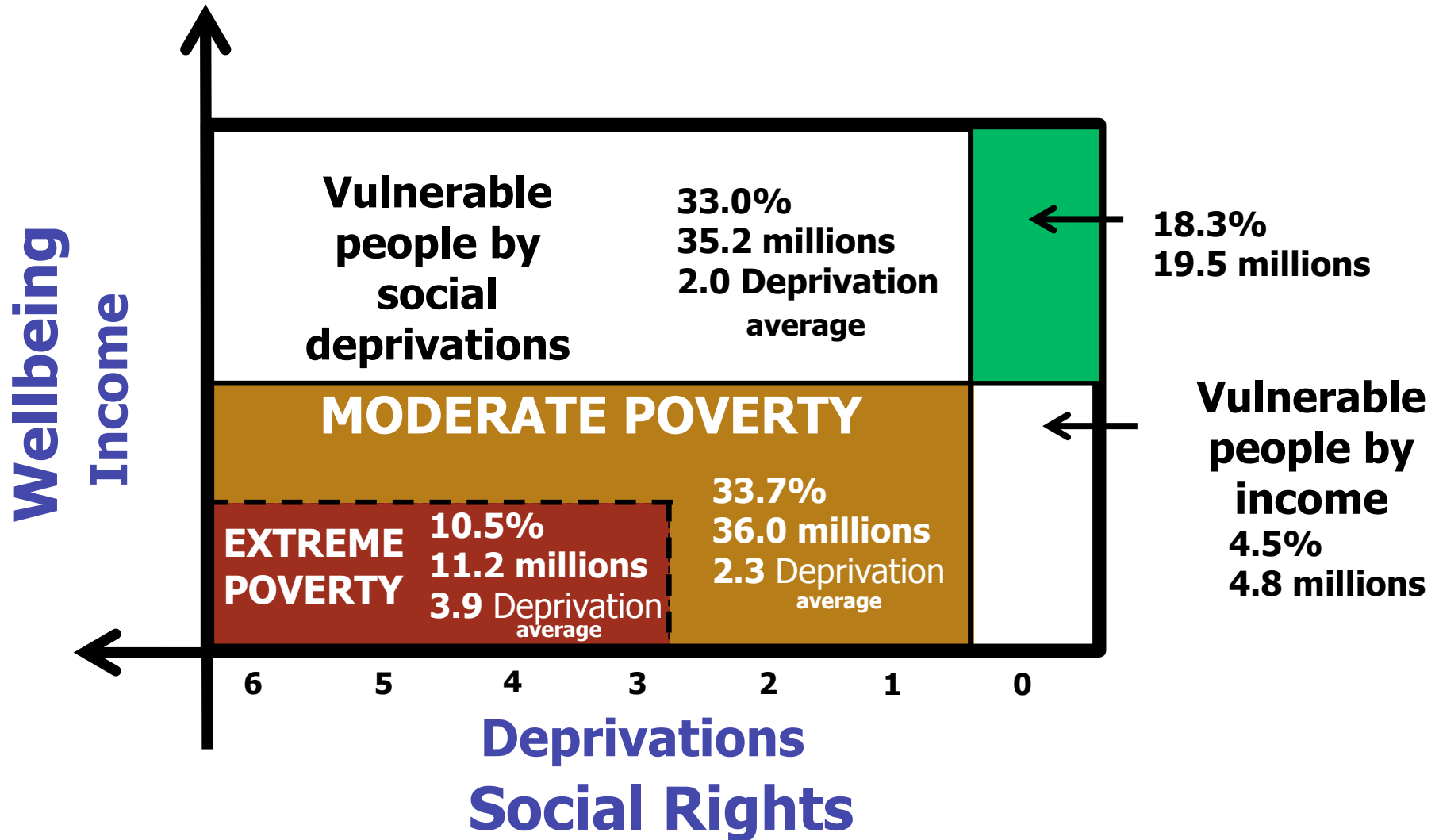
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Principal results



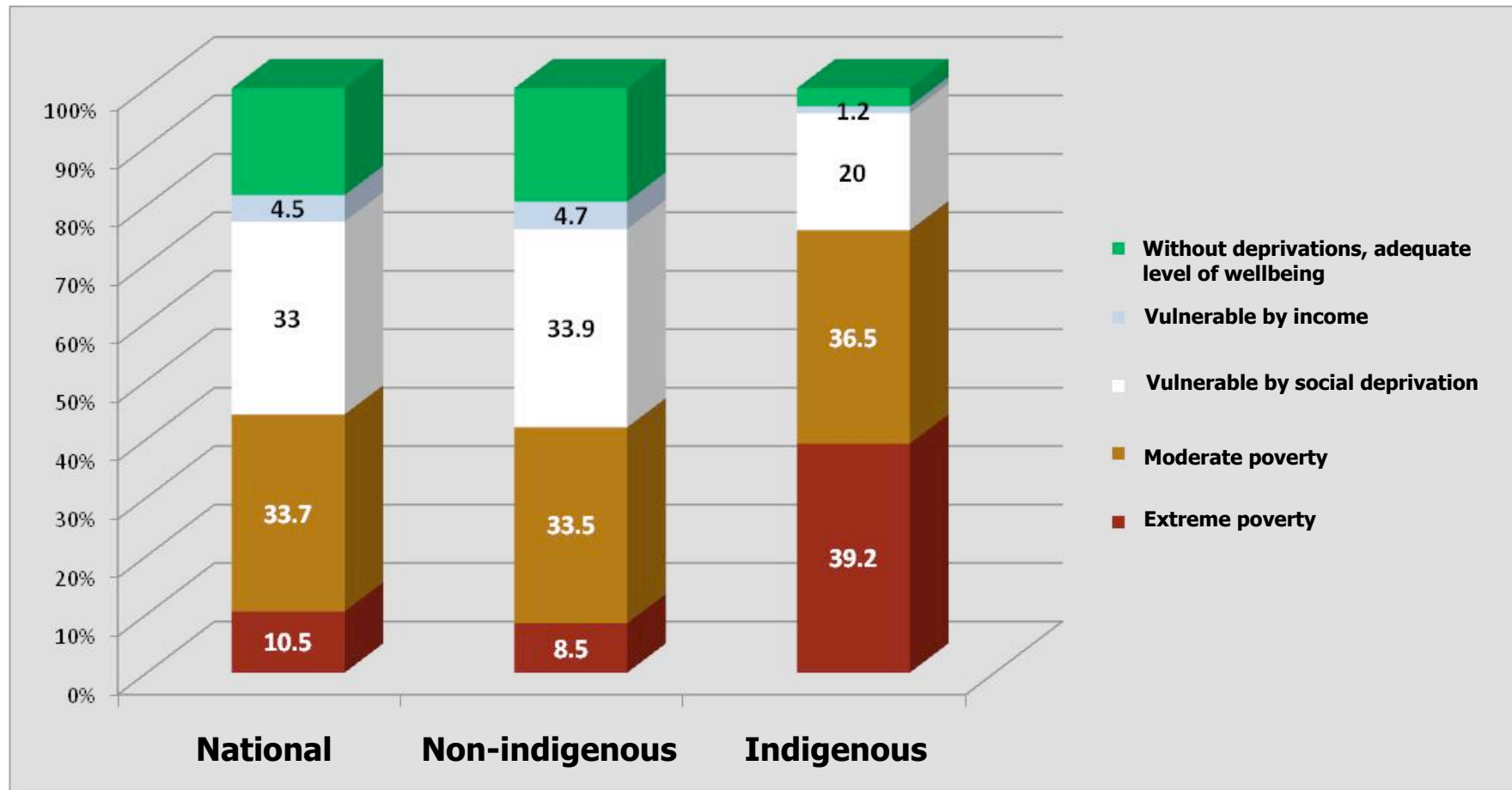


Total Population 2008 (106,680,526)

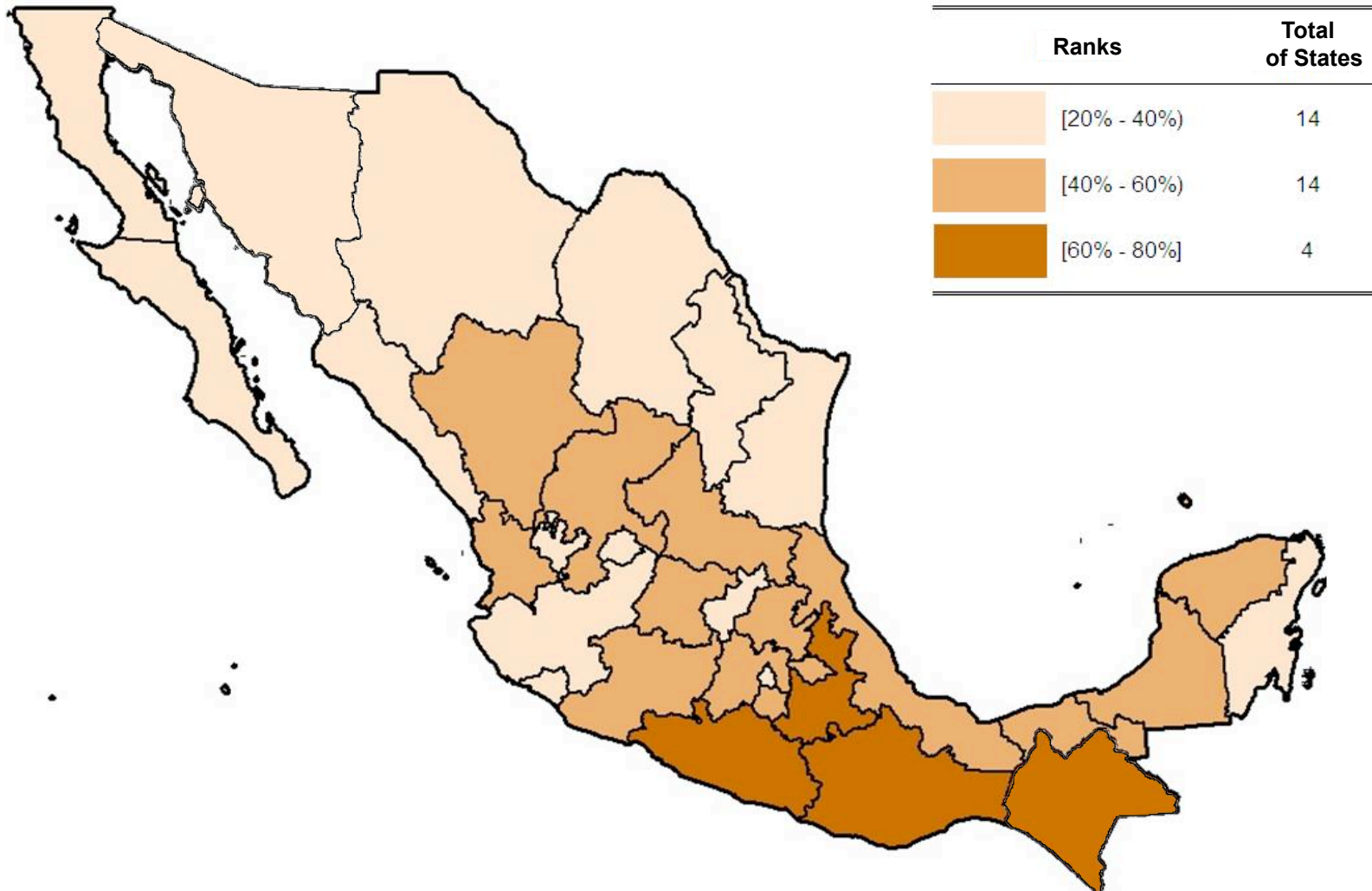


Indigenous and non-indigenous population

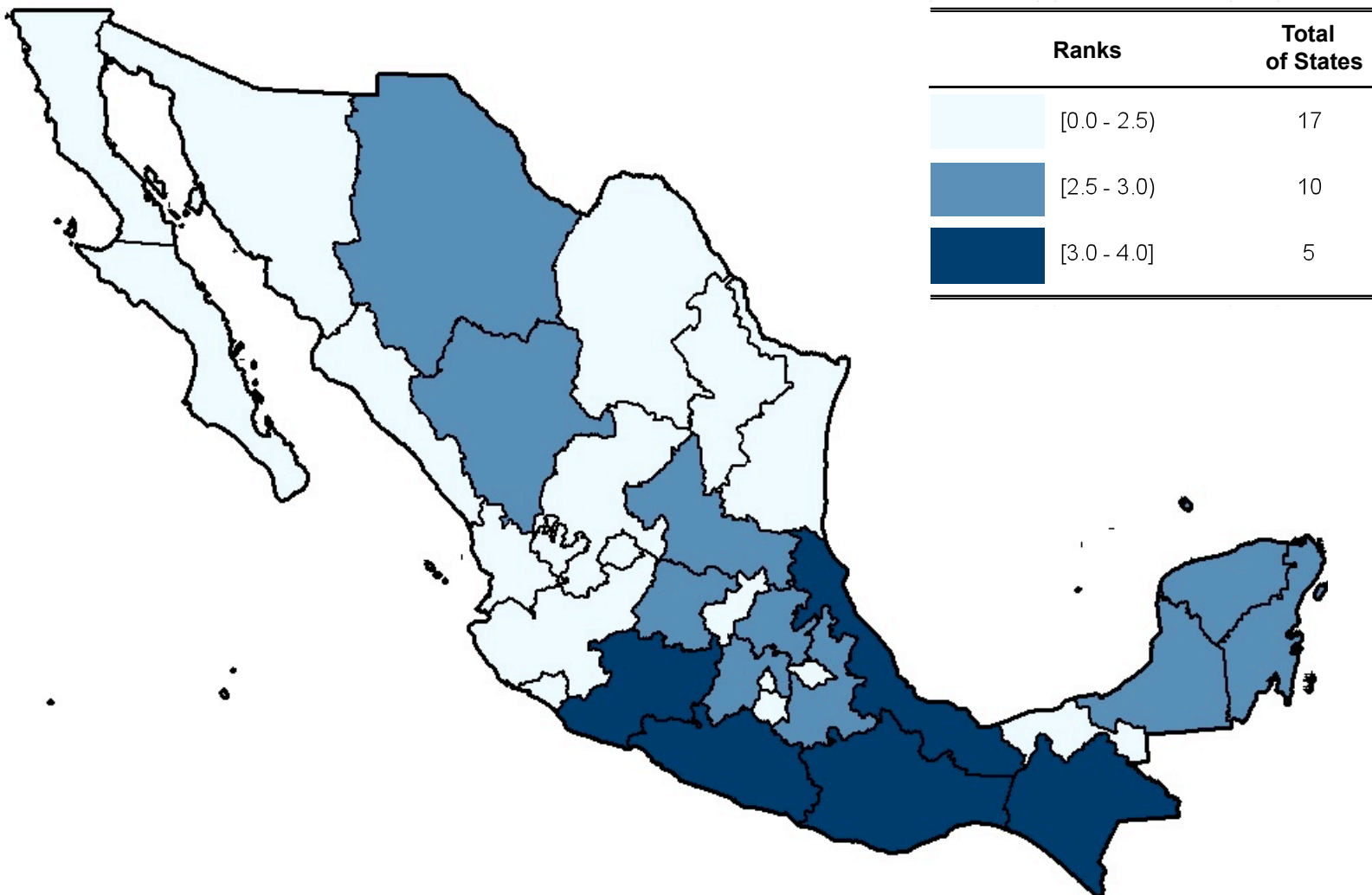
Percentage of population in multidimensional poverty depending on whether they speak or not an indigenous language



Multidimensional poverty incidence by State

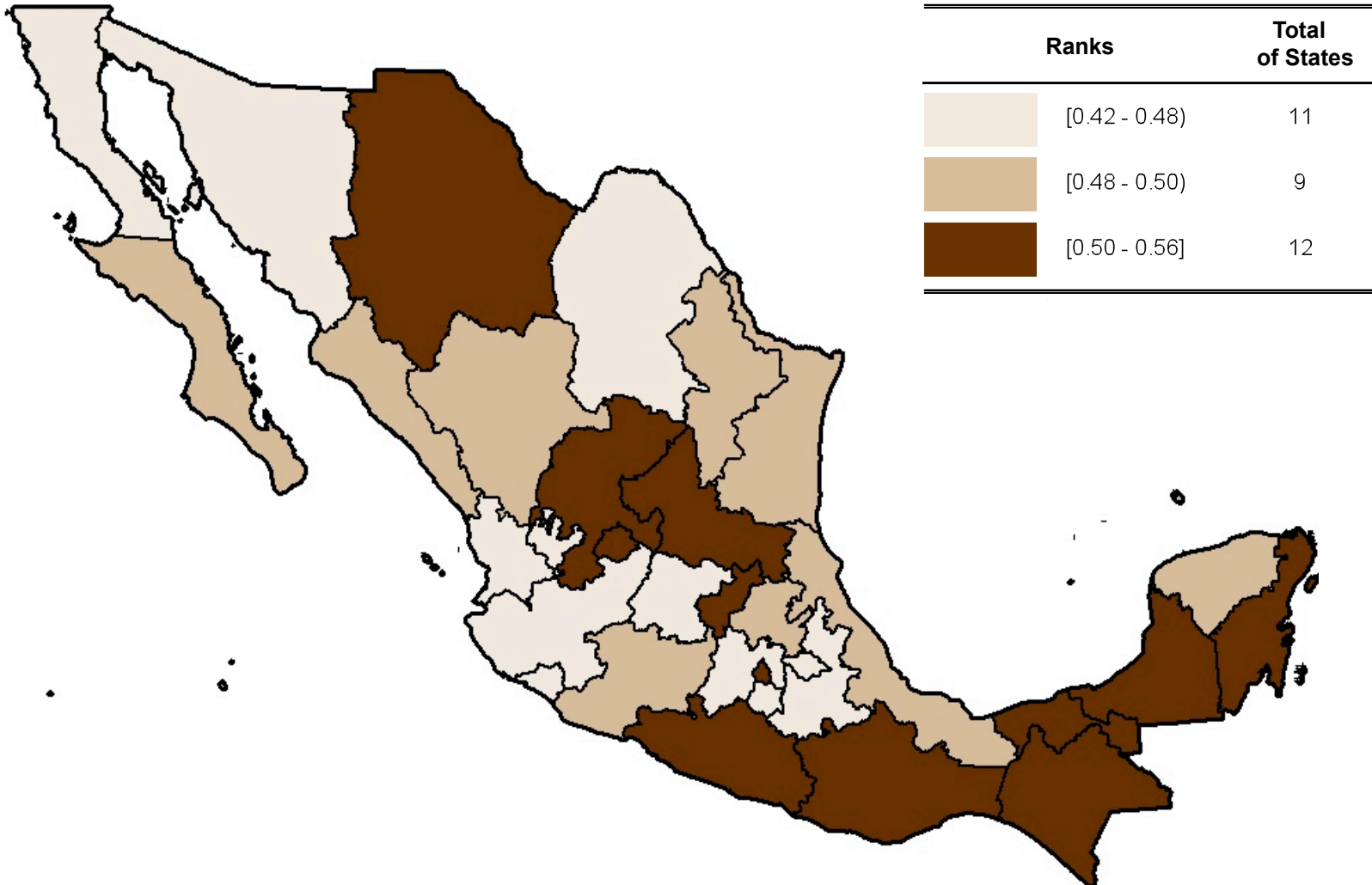


Average number of deprivations of the population in multidimensional poverty



Percentage of population with social deprivations Mexico, 2008

Social deprivation	Percentage
Access to social security	64.7
Access to health services	40.7
Educational backwardness	21.7
Access to food	21.6
Housing access to basic services	18.9
Quality of living spaces	17.5





Thanks!



Contact information

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