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The use of the Population Census for a gender and intersectional analysis for disaster risk reduction

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"15th meeting of the Inter-Agency and Expert Group on Gender Statistics"

December 6th, 2021.

► 01. Gender Data in Mexico: 25 years of partnerships

- The **National System of Statistical and Geographic Information (SNIEG in spanish)** offers more than **40 information programs with a gender perspective and/or disaggregations by sex as key inputs for:**



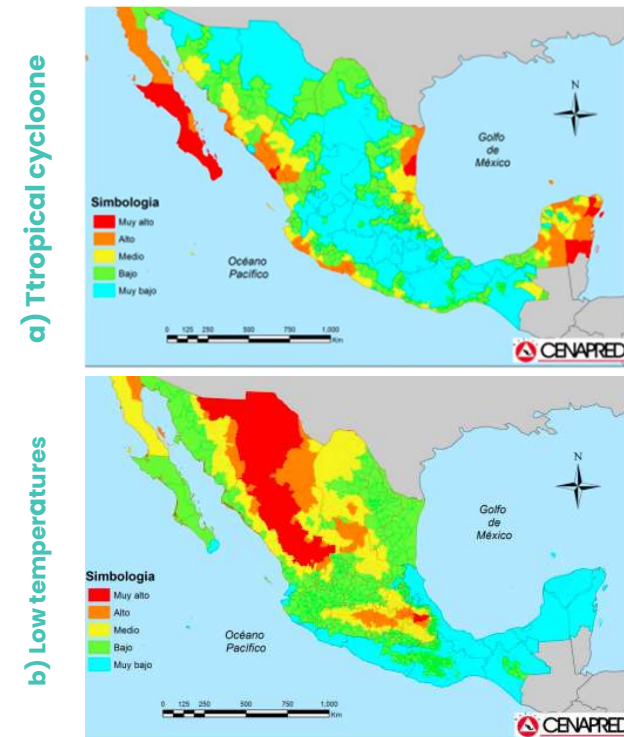
- National Risk Atlas
- National Atlas of Vulnerability to Climate Change. Indicators with gender gaps
- Monitoring System to the National Programme for Equality between Women and Men
- SDG Indicators System
- Multidimensional Poverty Indicators
- Analysis of the Regional Economy

01. Mexico is exposed to extreme weather events... but some areas are more exposed

There are many characteristics involved in determining hazard prone areas:

- **Physical conditions:** slope, precipitation, landslide hazard, soil moisture, land cover/degradation, temperature, hurricanes, fragile ecosystems.
- **Population in vulnerable conditions:** marginality, age, sex, indigenous groups, disability, economic sector.
- **Critical facilities and systems:** electric and power utilities, water and sanitation facilities, health centres, schools, transportation and communications network, oil production.
- **Critical economic sectors:** oil and gas, tourism, agriculture, water, international trading.

Gravity scale



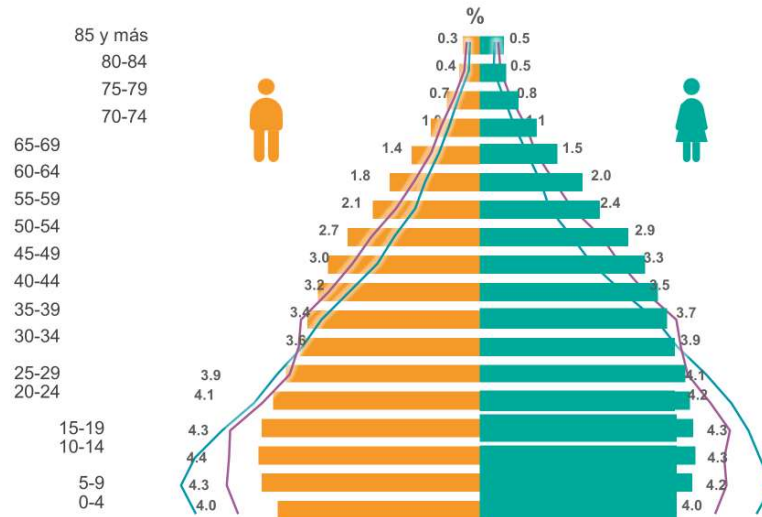
Fuente: Sistema Nacional de Protección Civil. Centro Nacional de Prevención de Desastres. Mapas de índices de riesgo a escala municipal por fenómenos meteorológicos. 2012.

02. Characterizing our different populations in different locations

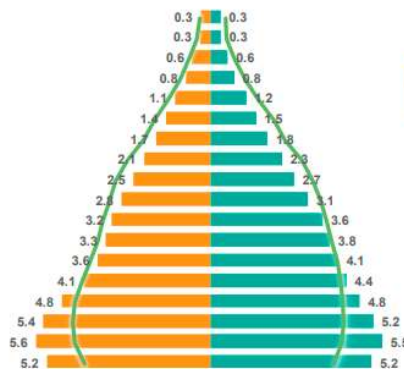


Population by age structure (2000 - 2010 - 2020)

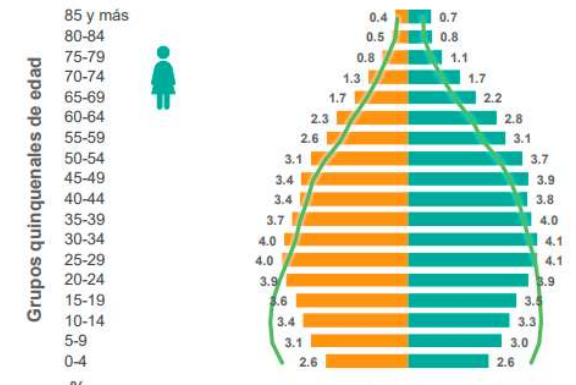
Mexico



Chiapas



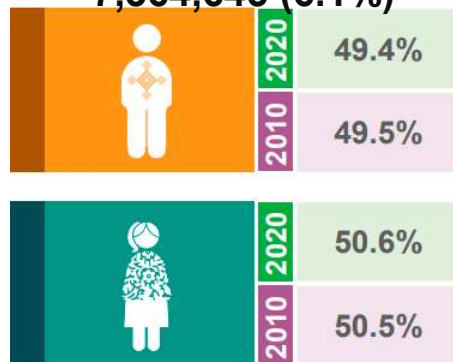
Mexico City



Conditions to define “vulnerable populations” 1/3

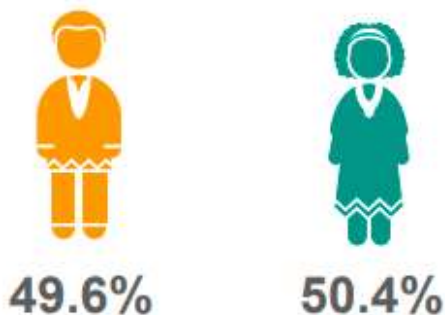
Ethnicity

Population aged 3+ who understand an indigenous language by sex
7,364,645 (6.1%)



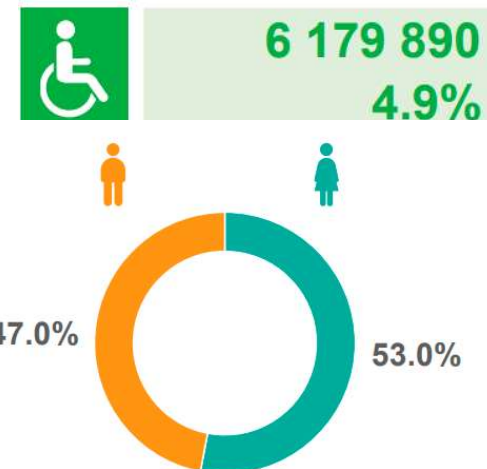
Self-recognizing afro-mexican or afro-descendent population

2, 576, 213 (2%)



Disability

Population with disability

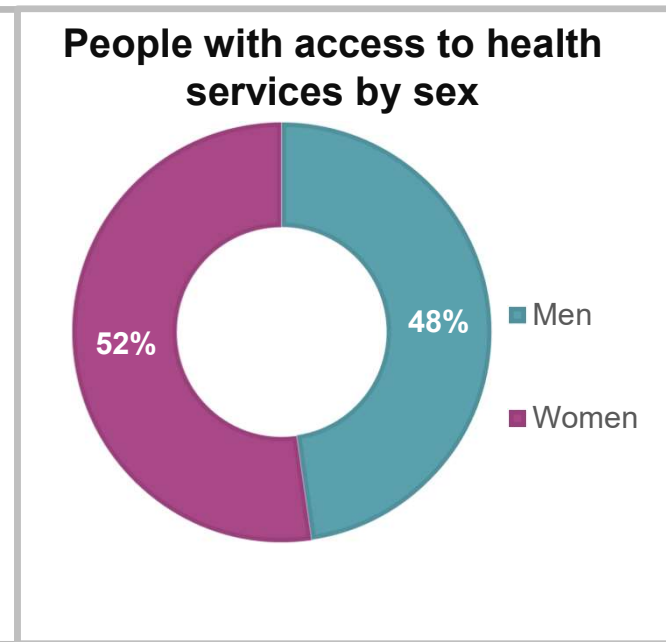
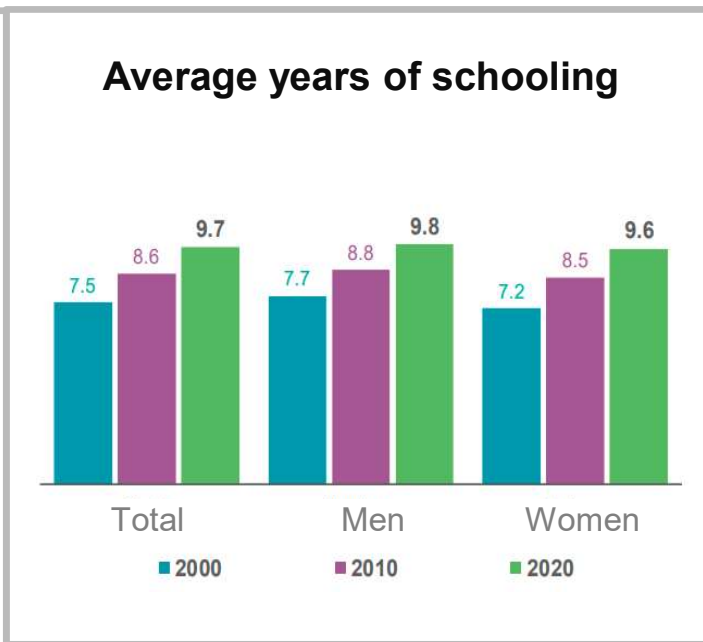
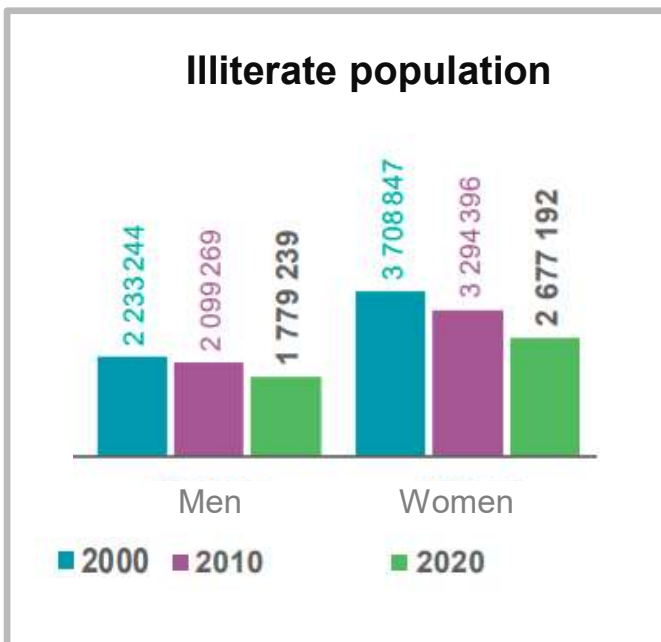


Source: INEGI. Population and Housing Census, 2020.

Conditions to define “vulnerable populations” 2/3

Education

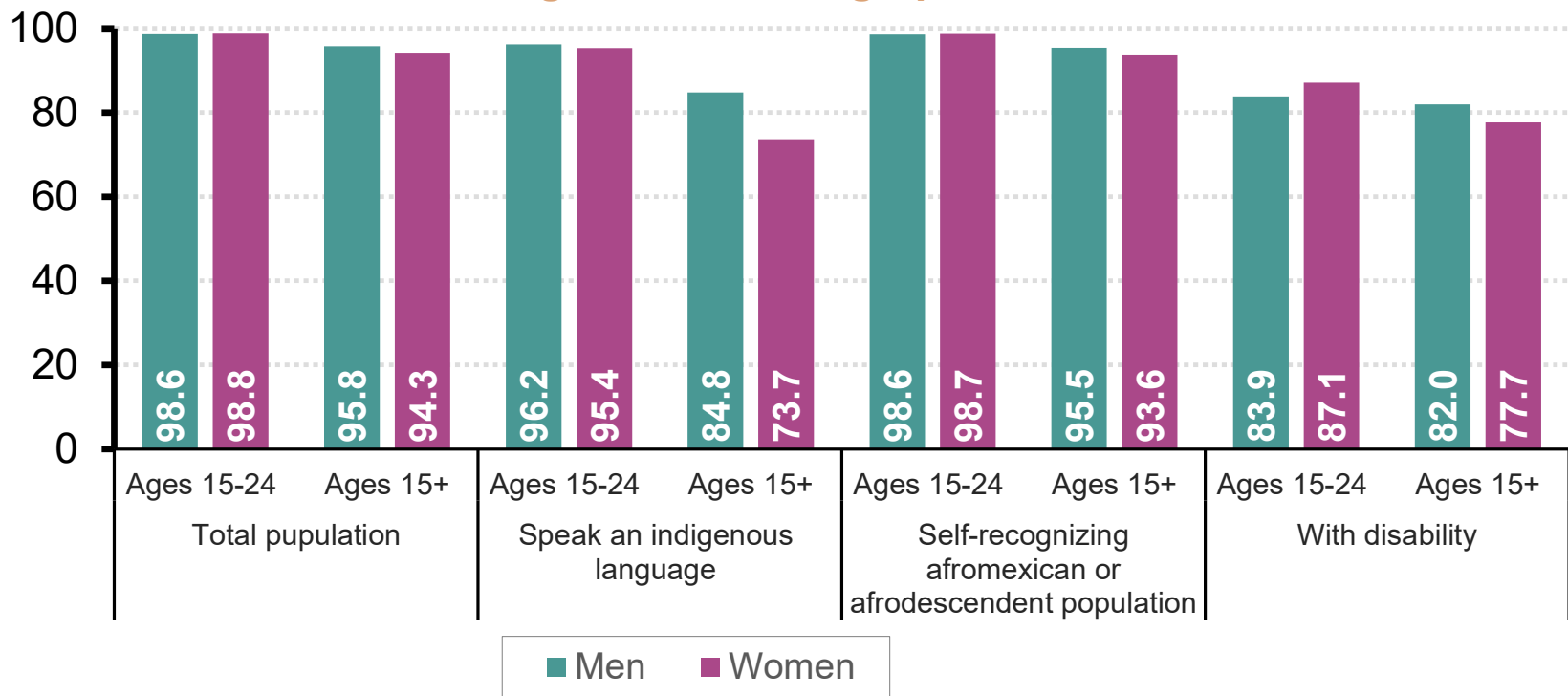
Health services access



Source: INEGI. Population and Housing Census, 2020.

Conditions to define “vulnerable populations” 1/3

Literacy rate of the population aged 15 to 24 and aged 15 and over by sex according to sociodemographic characteristics





03. Disasters and data as a tool for preventing the impacts (1/3)



Only 20% of municipalities have a Risk Atlas.

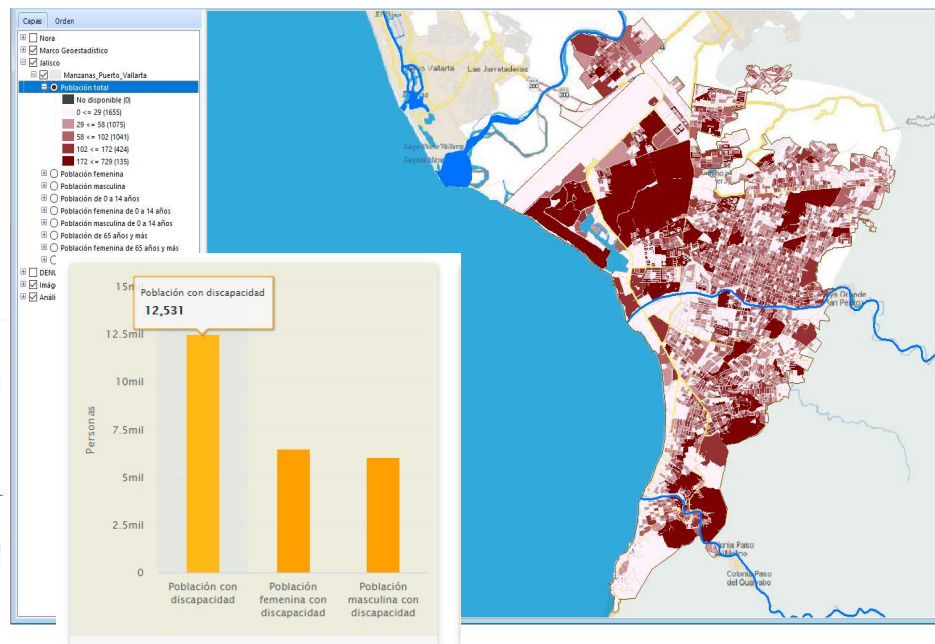
derrumbe parcial de un hotel en Puerto Vallarta, en el Estado de Jalisco. El cuerpo del menor, de nacionalidad española, fue hallado este domingo, según informaron las autoridades estatales. *Nora*, que tocó tierra el sábado como un huracán de categoría 1 y este lunes se degradó a baja presión remanente, ha dejado también una mujer desaparecida y un lesionado, según ha informado este lunes el Gobierno en la conferencia matutina.

El ciclón se formó el pasado 25 de agosto sobre las costas del Pacífico. En su trayectoria ha tocado seis Estados y ha afectado 44 municipios de acuerdo con las autoridades. Este sábado a las cuatro de la mañana se convirtió en huracán de categoría 1 y ese mismo día tocó tierra por la noche en Puerto Vallarta, una ciudad turística en la que ocasionó intensas lluvias, inundaciones y derrumbes. El colapso parcial del hotel que provocó la muerte del menor, en el centro de Puerto Vallarta, se produjo debido al desbordamiento del río Cuale, según informó el

MÁS INFORMACIÓN

Biden, sobre el potente huracán Ida: "La devastación será inmensa"

'Ida' deja un rastro de destrucción tras su primer golpe a Luisiana

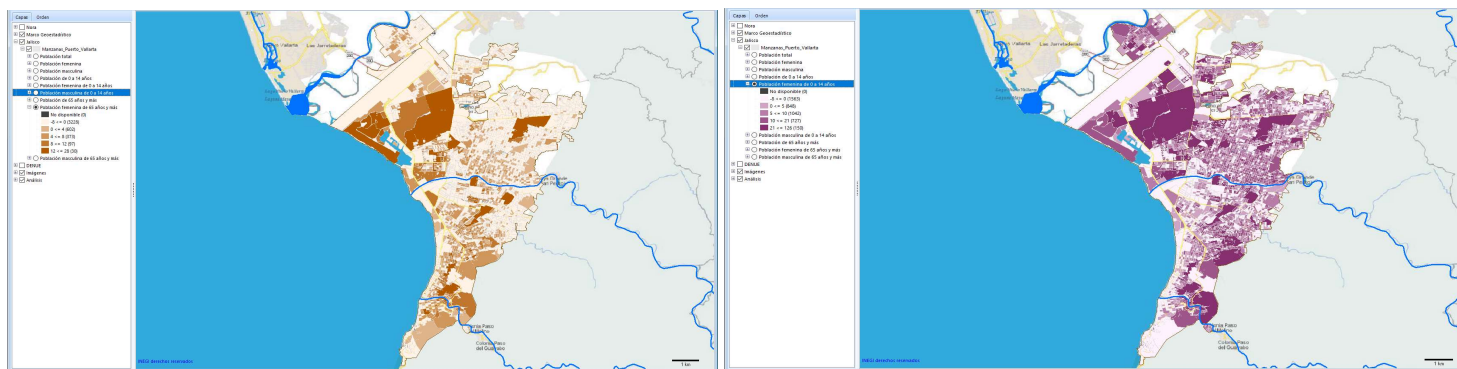


Puerto Vallarta: Total Population .2020. (234,408 people).

Disasters and data as a tool for preventing the impacts (2/3)

En **#PuertoVallarta**, los ríos Cuale y El Pitillal se desbordaron, teniendo como consecuencia la desaparición de un menor y una mujer que fue arrastrada con su vehículo, así como el despíome parcial de un edificio en la zona centro y varias inundaciones.

Puerto Vallarta. 2020. Populations in vulnerable conditions



Women (65 y más)

Girls (0 a 14)



Disasters and data as a tool for preventing the impacts (2/3)

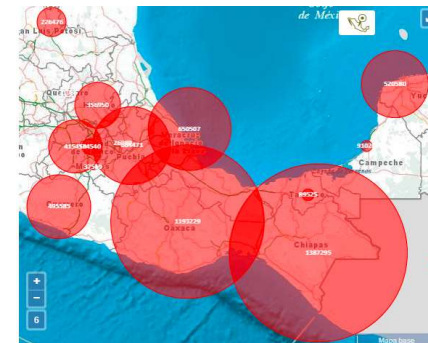


Source: INECC, SEMARNAT. National Atlas of Vulnerability to Climate Change.

Oaxaca	Men %	Women %	Gap
Total	100.0%	100.0%	-
Ages 65+	9.2%	9.8%	0.6%
Speak an indigenous language	29.1%	30.0%	0.8%
Afromexican / Afrodescendant	4.8%	4.6%	0.2%
Disability	19.8%	21.0%	1.2%
Illiterate*	8.9%	14.4%	5.5%

Population aged 15 years and over.
Source: Population and Housing Census, 2020.

Population aged 5 years and over speaking an indigenous language



Source: INEGI. Population and Housing Census, 2020.

Conclusions



- 1 The challenges of the National Statistical Systems are to provide information with sufficient granularity / disaggregation to visualize gender gaps.
- 2 There are tools to facilitate access to statistical and geographic information for disaster prevention with a gender perspective.
- 3 Develop data accessible for users and improve the data use for prevention public policies.
- 4 Integrate different data sets (sociodemographic, economic, environmental).



Annex. Population and Housing Census, 2020

Topics and variables



Disaggregation by sex and intersectionality analysis

Population

Topics	Core questionnaire	Expanded questionnaire
Habitual residents, sex and age	2	2
Census households	1	3
Fertility and mortality	2	7
Migration	4	18
Disability	4	5
Ethnicity	4	6
Marital status	1	1
Birth registration	0	1
Education	4	5
Health services	1	2
Economic characteristics	3	16
Mobility	0	6
Religion	1	1
Monetary Income	0	5
Feeding	0	6
Total	27	84

Housing

Topics	Core questionnaire	Expanded questionnaire
Listing of housing	1	1
Characteristics of construction	2	4
Size and space use	2	3
Cooking conditions	0	3
Basic services and sanitation facilities	10	13
Equipment	2	8
Solid wastes	0	5
Property and vehicles	6	6
Information and communication technologies	9	9
Tenure and access to housing	0	7
Communal housing	1	0
Total	33	59