



**United
Nations**

Department of
Economic and
Social Affairs

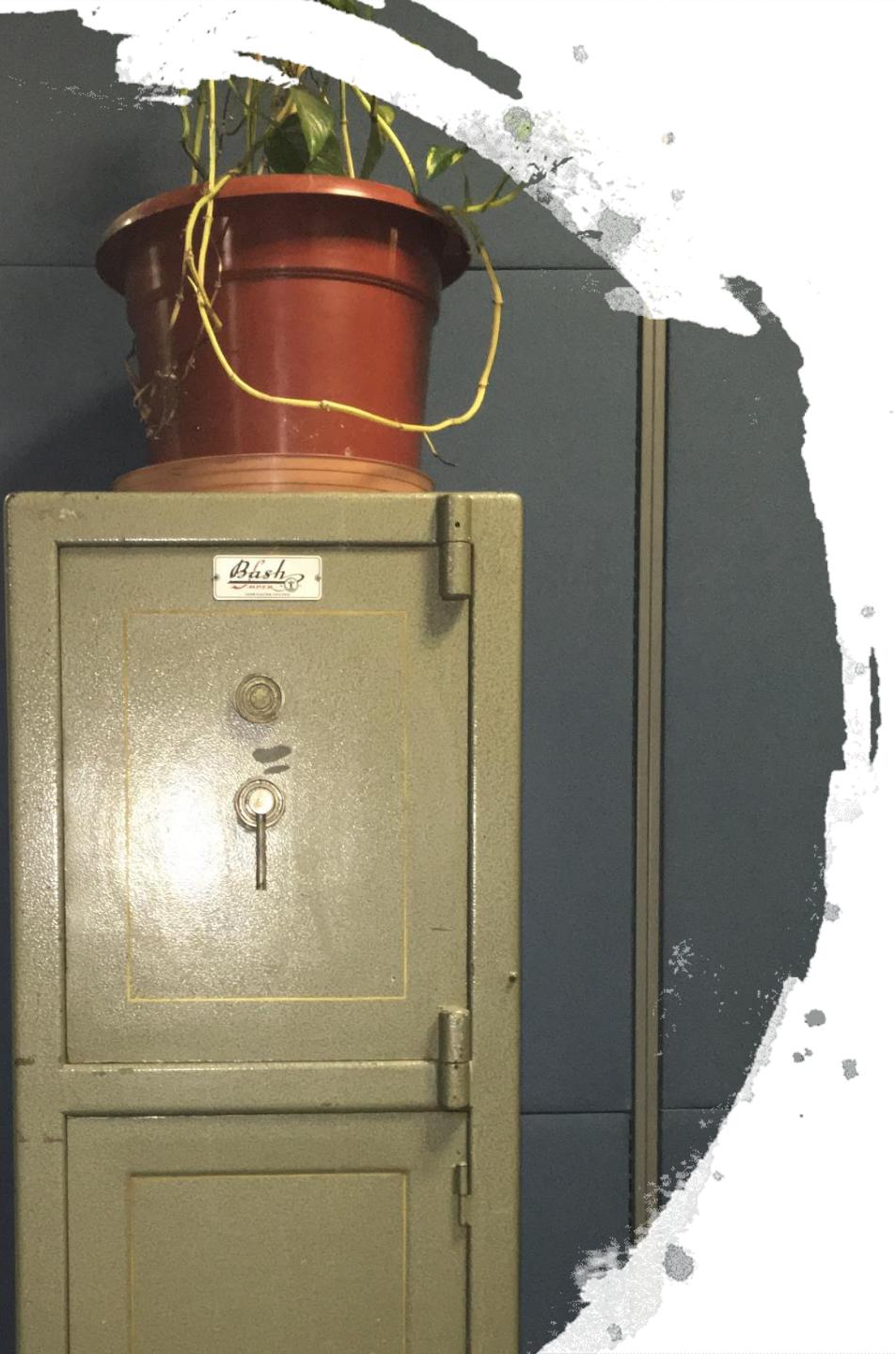
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Global Advisor on Population and Development

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Mars, Palma, and National Inequality Accounts



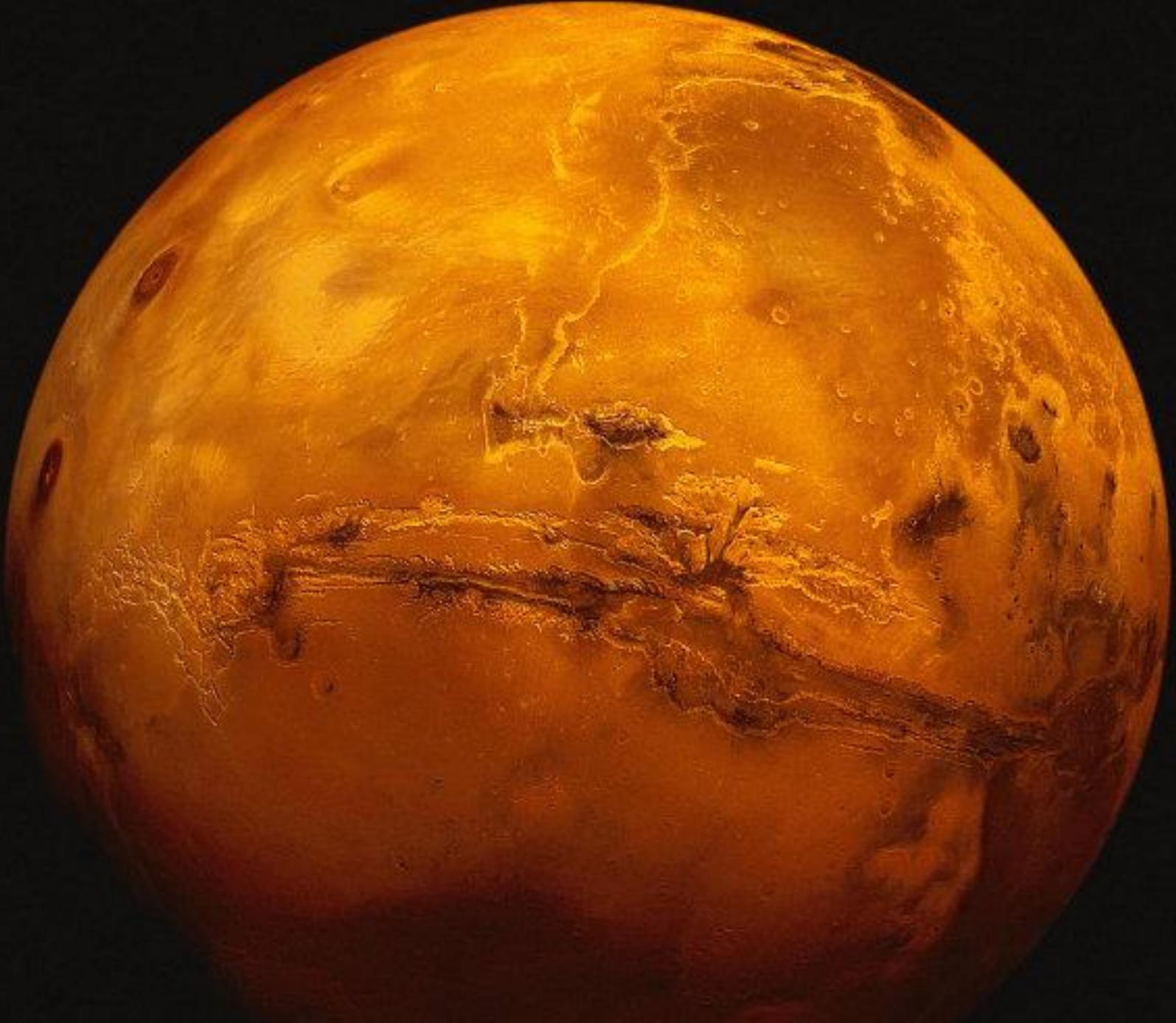


To be opened by the
Director of the
Population Division of
CEPALC

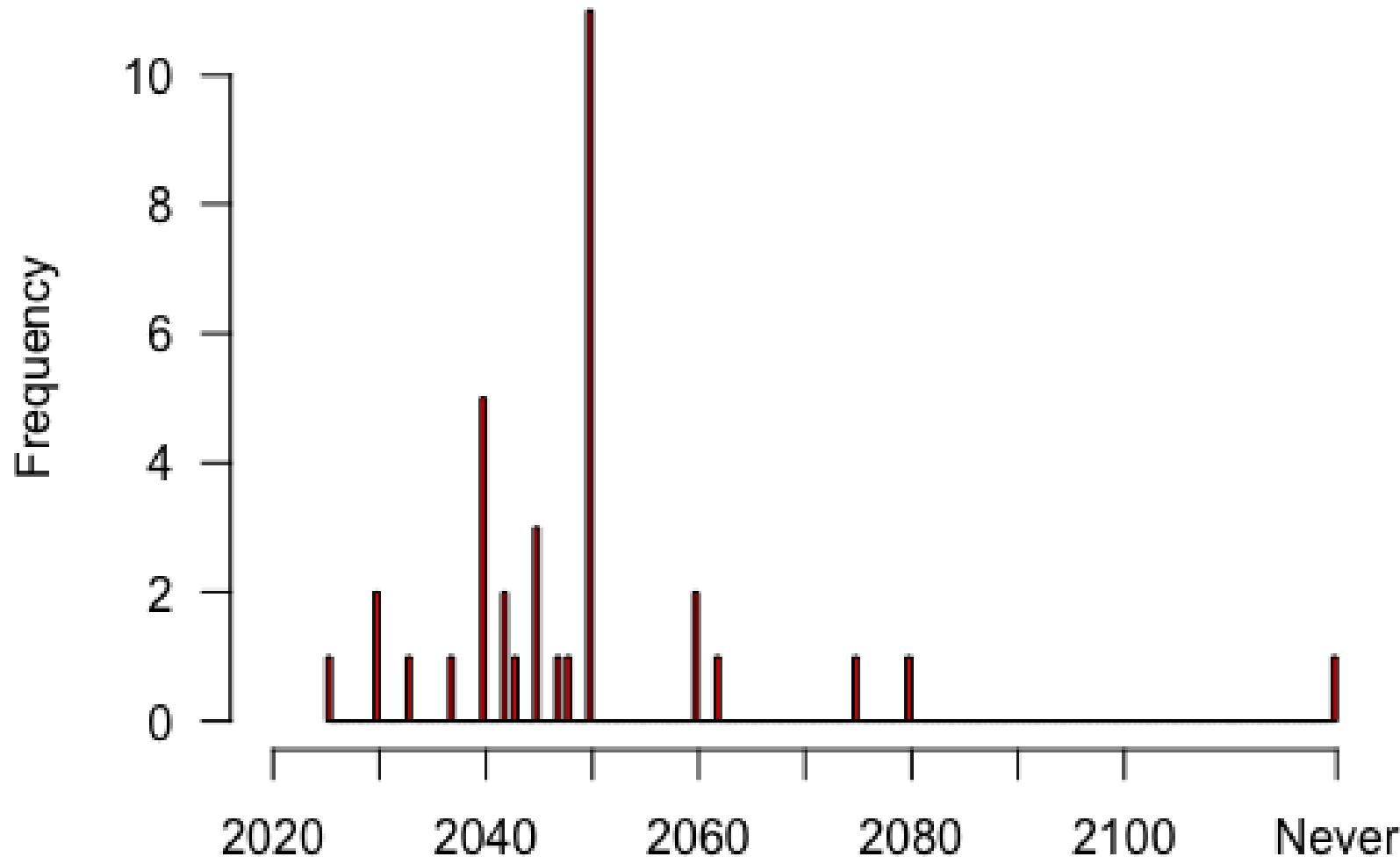
when humans first land
on Mars

or the Palma index for
the region reaches 1.0

whichever comes first.



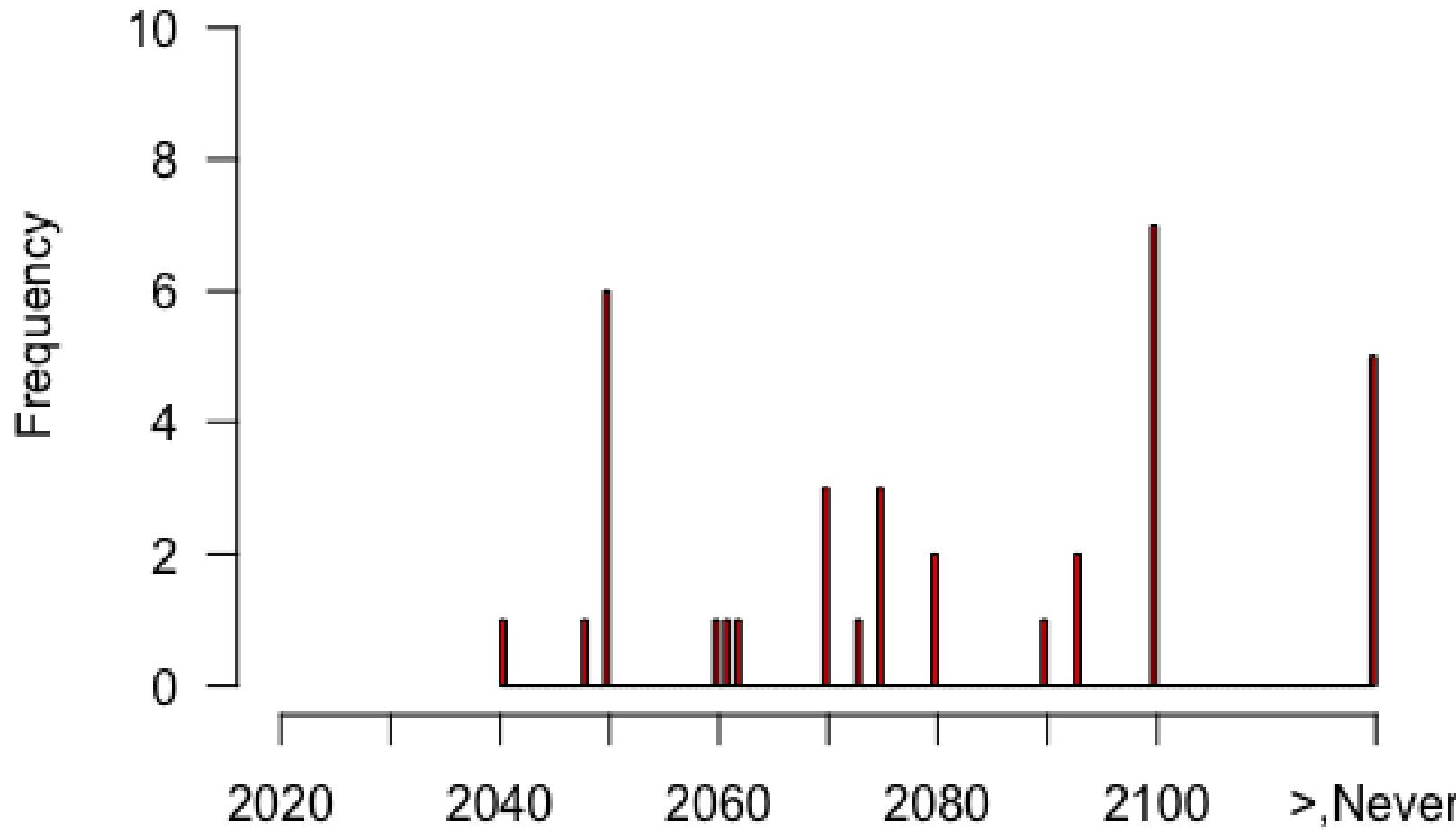
Date of Mars Landing: 2048



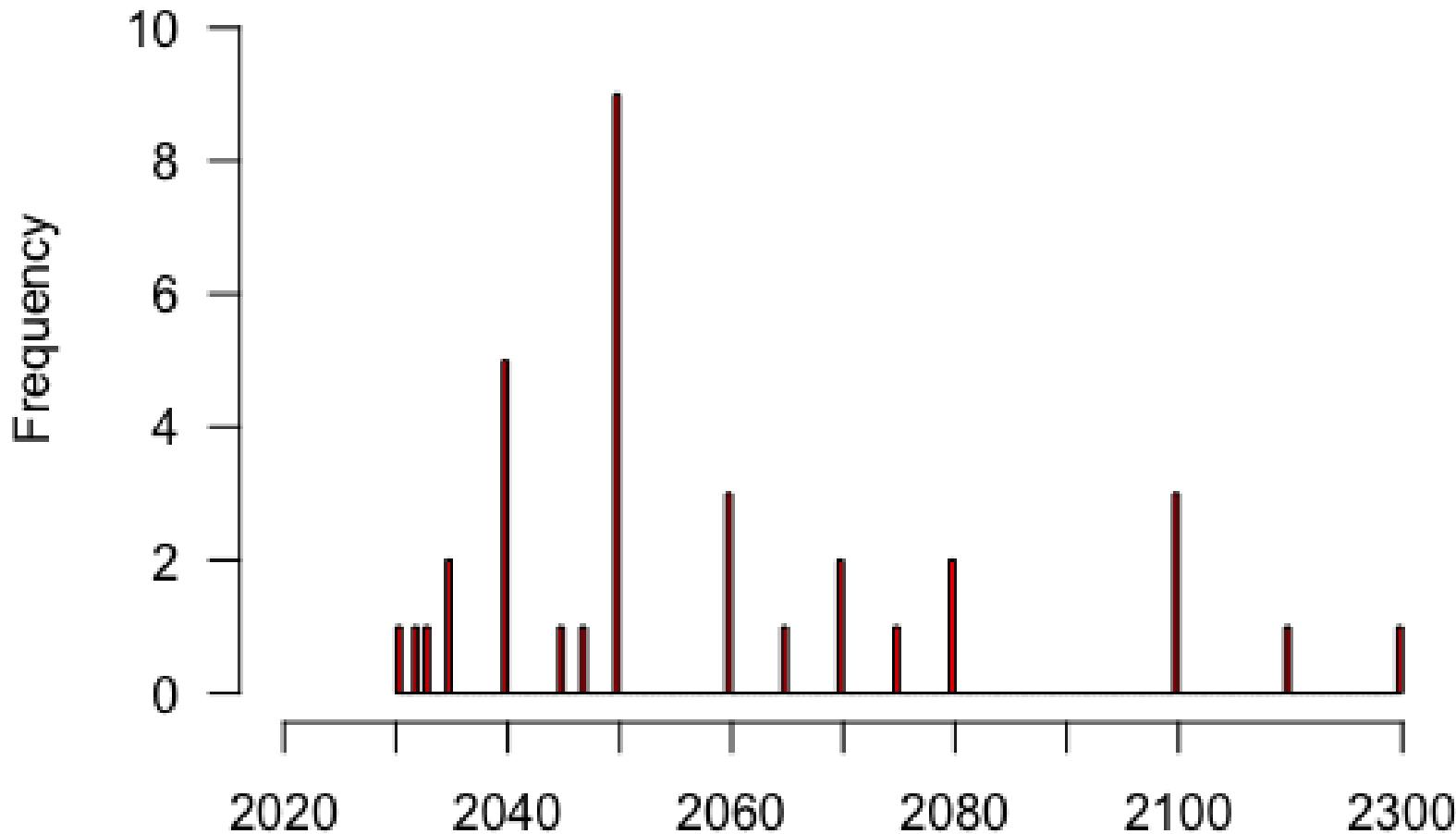
Palma Index:

the share of
national
income of the
richest 10%
compared to
the poorest 40

Date of OECD Palma Index: 2075



Date of OECD Palma Index with Social Pact: 2050



A plan

FOUNDATIONAL GATEWAY CAPABILITIES

2022	2023	2024+
50 kW-class Power & Propulsion Element	Habitation and Utilization	Logistics and Robotic Arm

These foundational gateway capabilities can support multiple U.S. and international partner objectives in cislunar space and beyond.

CAPABILITIES

- Supports exploration, science, and commercial activities in cislunar space and beyond
- Includes international and U.S. commercial development of elements and systems
- Provides options to transfer between cislunar orbits when uncrewed
- External robotic arm for berthing, science, exterior payloads, and inspections

OPPORTUNITIES

- Logistics flights and logistics providers
- Use of logistics modules for additional available volume
- Ability to support lunar surface missions

INITIAL ACCOMMODATIONS

- 4 Crew Members
- At least 55 m³ Habitable Volume
- 30 Day Crew Missions

Orbit of the Moon

Orion

Bus shown for scale

A plan for Palma = 1.0

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CAPABILITIES

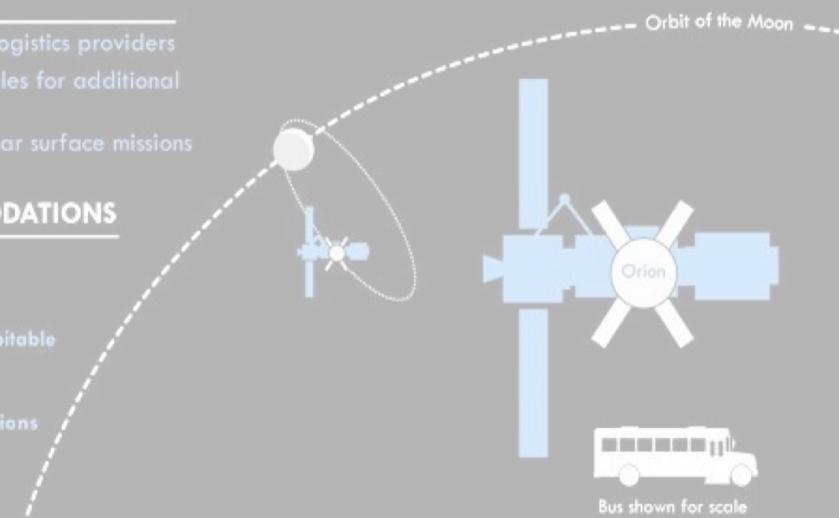
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Orbit of the Moon

Orion

Bus shown for scale

A plan for Palma = 1.0

The diagram illustrates the relationship between National Transfer Accounts and National Inequality Accounts, centered around a timeline of capabilities from 2022 to 2024+.

National Transfer Accounts

- Foundational Gateway Capabilities:** 2022, 2023, 2024+.
- Icon Legend:**
 - 50 kW-class Power & Propulsion Element
 - Habitation and Utilization
 - Orbit of the Moon
- CAPABILITIES:**
 - Supports exploration, science, and commercial activities in cislunar space and beyond
 - Includes international and U.S. commercial development of elements and systems
 - Provides logistics services, crew exchange, scientific exterior payloads, and inspections
- OPPORTUNITIES:**
 - Logistics flights and logistics providers
 - Use of logistics modules for additional available volume
 - Ability to support lunar surface activities
- INITIAL ACCOUNTING:**
 - 4 Crew Members
 - At least 55 m³ Habitable Volume
 - 30 Day Crew Missions
- Bus shown for scale.**

National Inequality Accounts

These foundational gateway capabilities can support multiple U.S. and international partner objectives in cislunar space and beyond.



Approaches that exclude
inequality (NTAs) can lead us to
wrong policy

- Raising retirement age
- Underinvestment in education

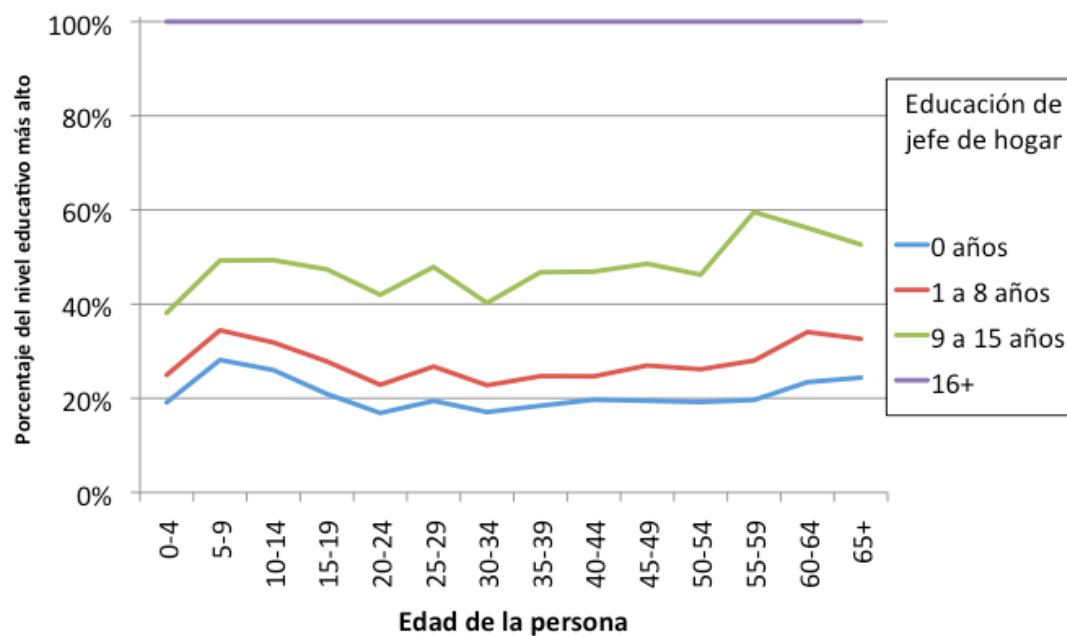


National Inequality Accounts

“By measuring economic relationships between groups within an economy, National Inequality Accounts provide a way of transforming National Accounts into a policy instrument that addresses inequality. We believe this is vitally important, not just for Chile and Latin America but also throughout the world.”

Brasil: Consumo per cápita por nivel educativo del Jefe de Hogar, 2003

Como porcentaje del consumo en el nivel educativo más alto



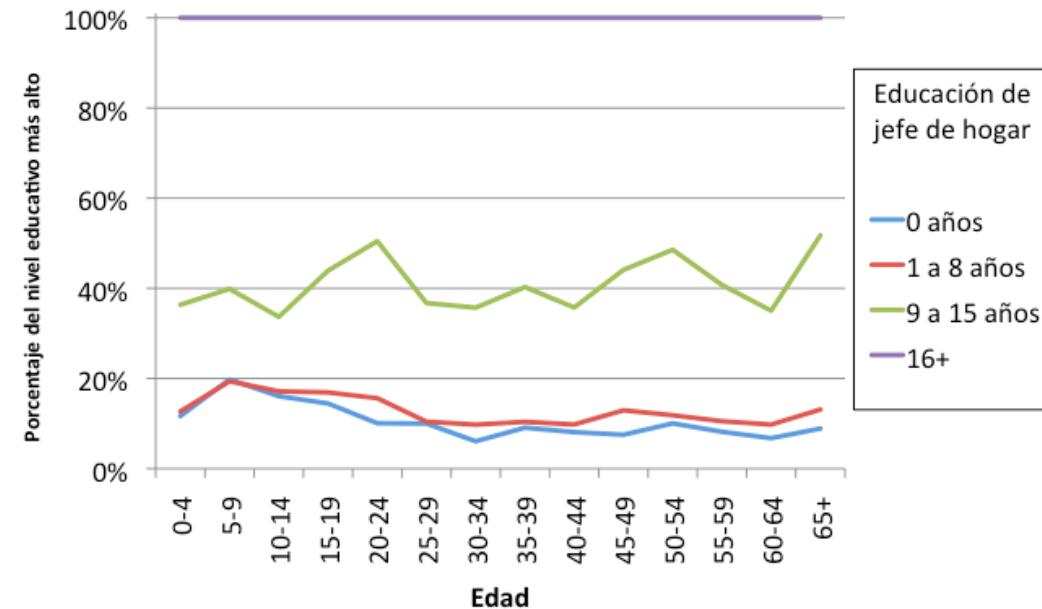
Grandes diferencias en el consumo per-capita entre distintos niveles

socioeconómicos, que comienzan en la niñez y continúan a lo largo del ciclo de vida

Los individuos en niveles socioeconómicos bajos, consumen entre 1/10 y 1/5 de lo que consumen en el nivel socioeconómico más alto

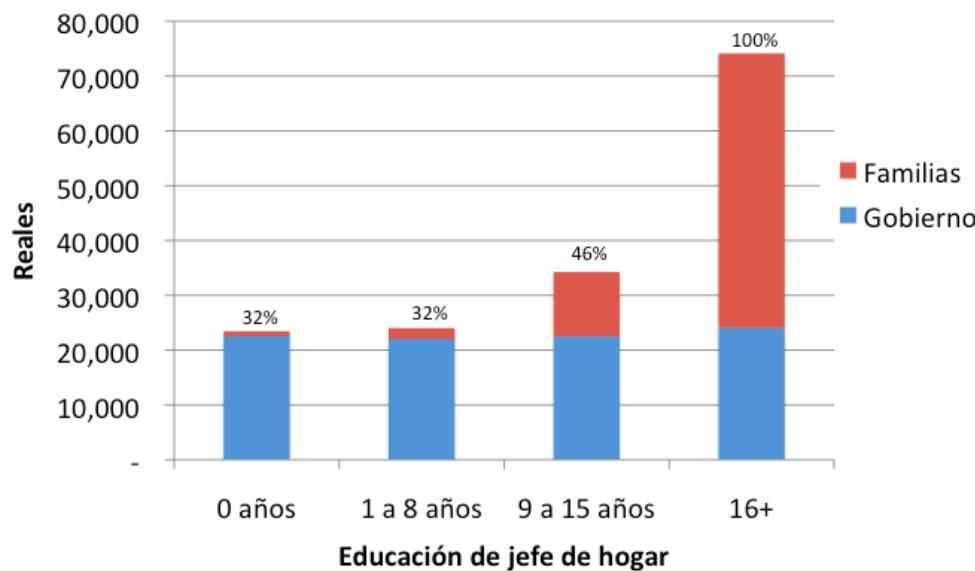
e: Consumo per cápita por nivel educativo del Jefe de Hogar, 2007

Como porcentaje del consumo en el nivel educativo más alto



Brasil: Inversión Educativa Total en un Niño, 2003

(Porcentajes reflejan la inversión total en relación al grupo con más educación)

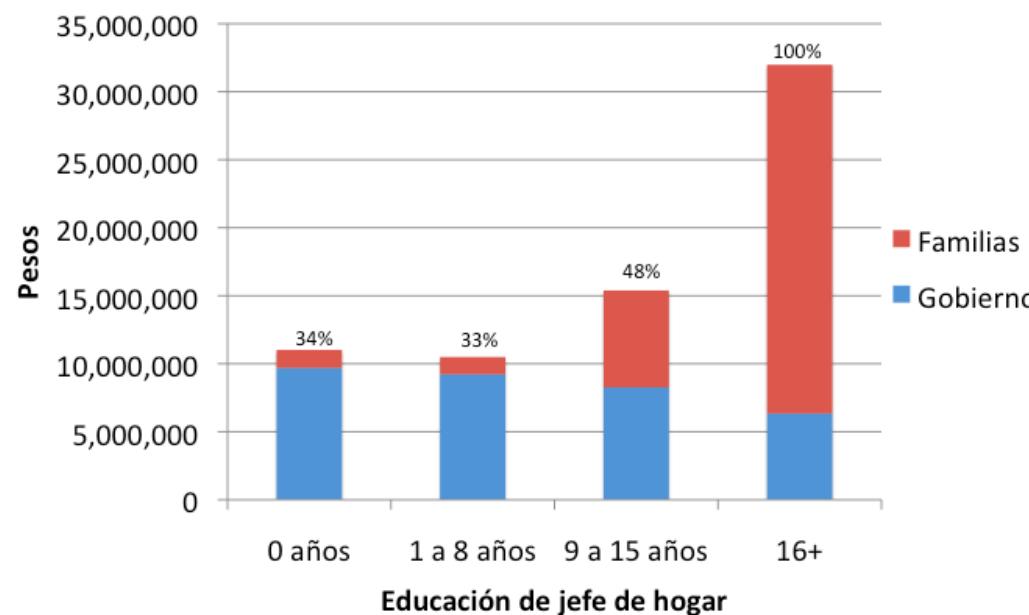


A pesar de la participación del sector público, la inversión total en educación es bastante desigual entre los diferentes grupos socioeconómicos

Niños de niveles socioeconómicos bajos reciben de 1/3 a 1/2 de la inversión en educación que recibe un niño del nivel socioeconómico más alto.

Chile: Inversión Educativa Total en un Niño, 2007

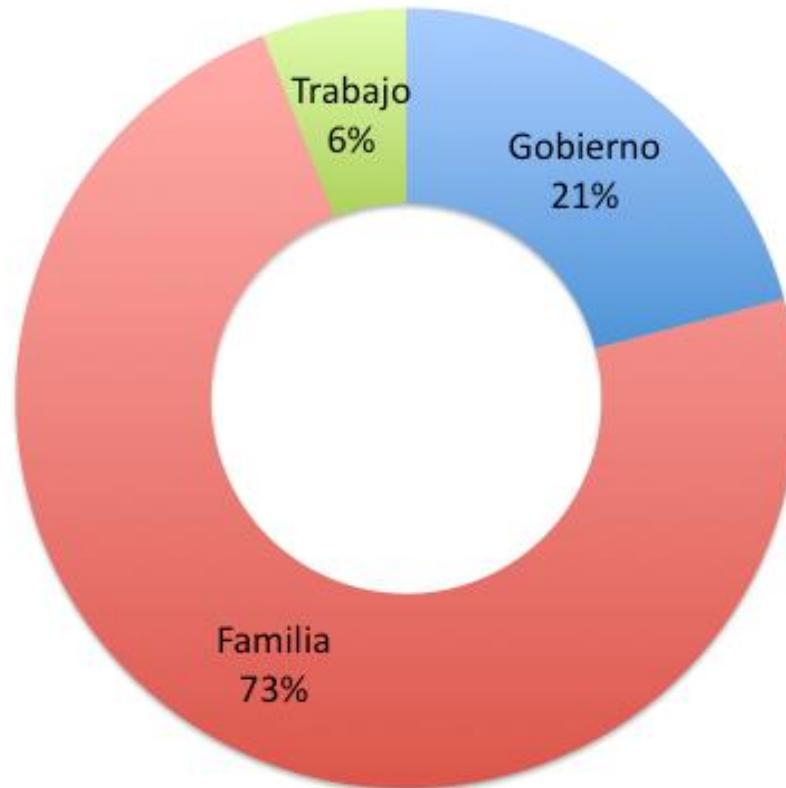
(Porcentajes reflejan la inversión total en relación al grupo con más educación)



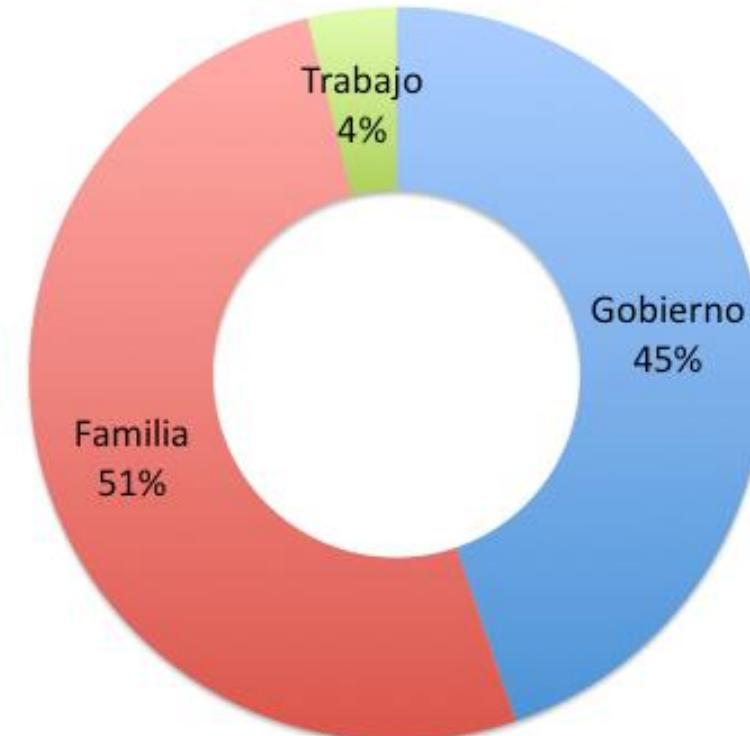
En América Latina, los gobiernos cumplen un rol limitado en el financiamiento del consumo de niños y jóvenes.

Fuentes de financiamiento del Consumo de Niños y Jóvenes, circa 2000
(como porcentaje del consumo total)

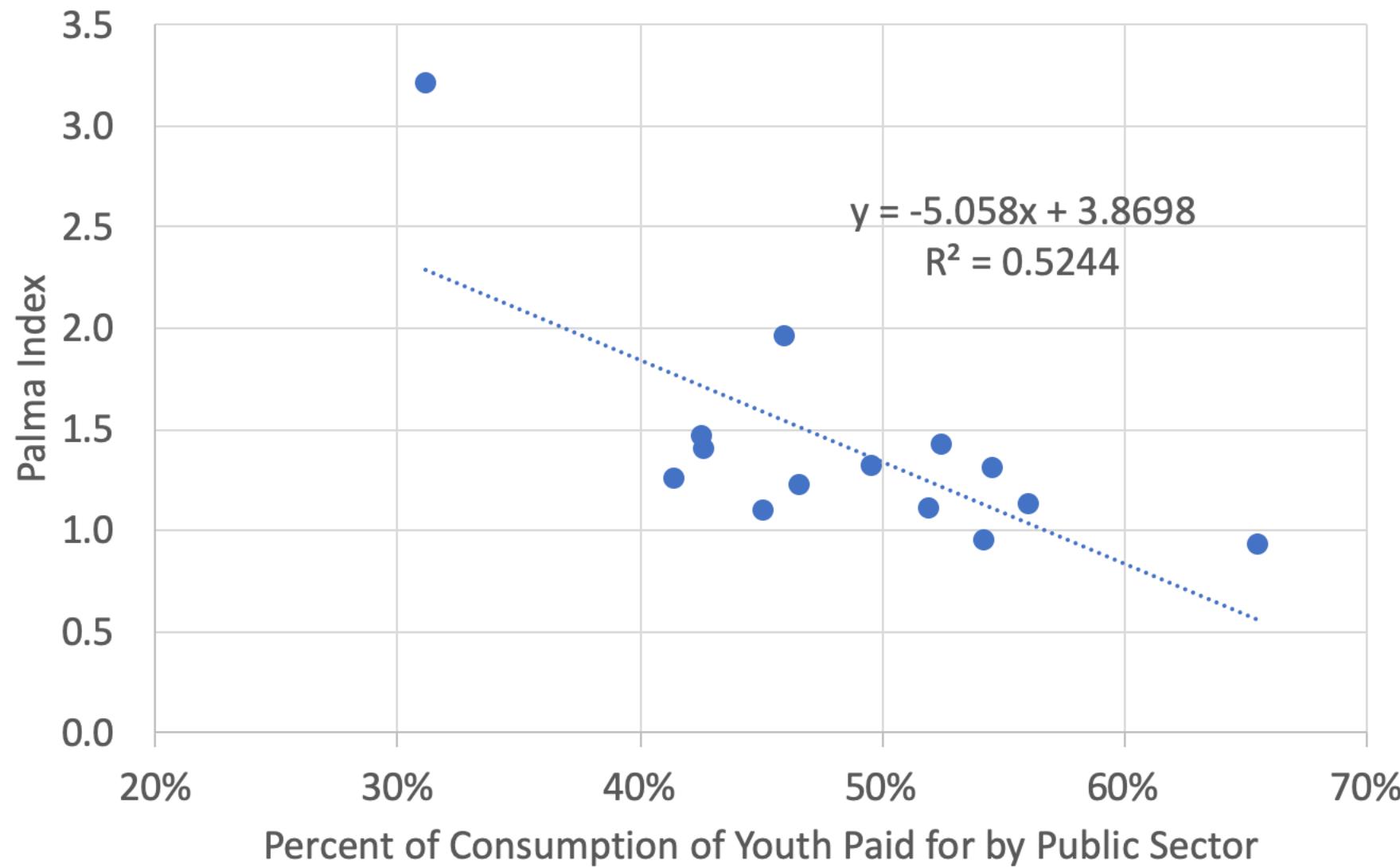
América Latina (5 países)

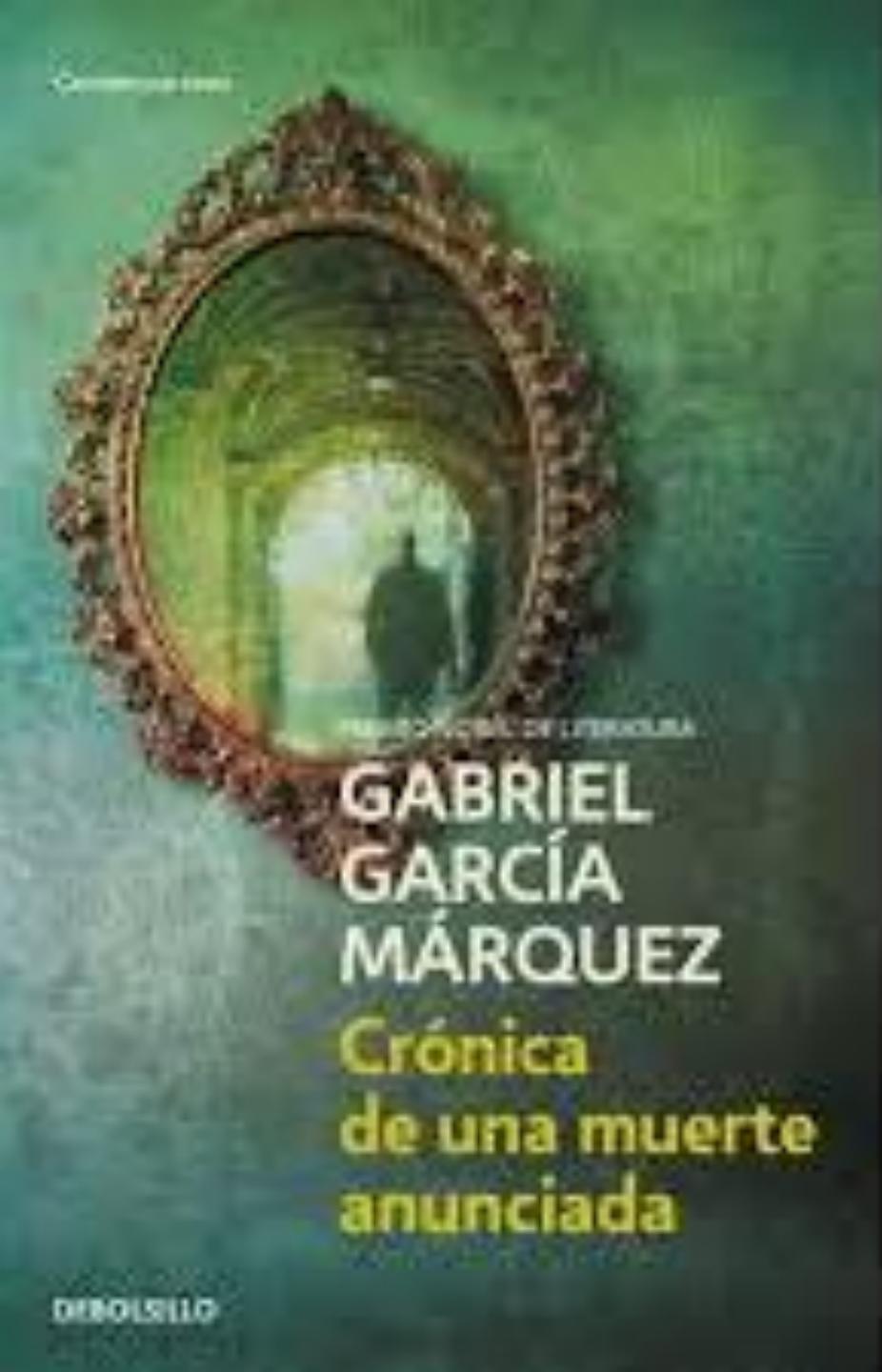


Europa, Japón, Estados Unidos (9 países)



OECD countries: Palma Index and Public Support for Youth





Sometime its easier to start with the end of the story and work backwards from there.

El día en que lo iban a matar, Santiago Nasar se levantó a las 5.30 de la mañana para esperar el buque en que llegaba el obispo.

A photograph of two people riding horses in a snowy forest. One person is wearing a blue jacket and a black beanie, while the other is wearing a black jacket and a black beanie. They are both riding brown horses. The forest is filled with snow-covered trees.

National Inequality Accounts for Finland

Micro-data, not averages

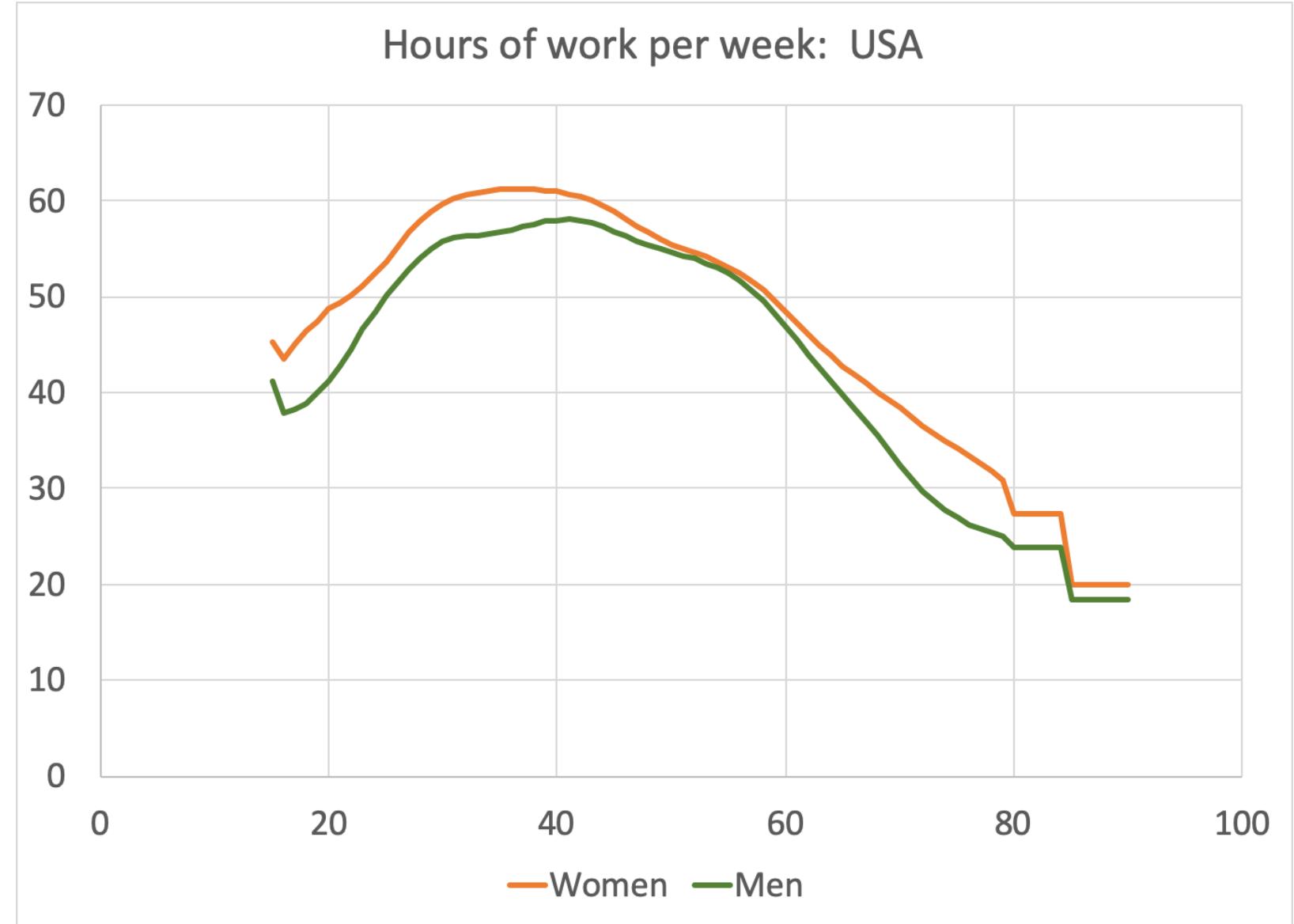


Preserve relationships
observed in micro-data

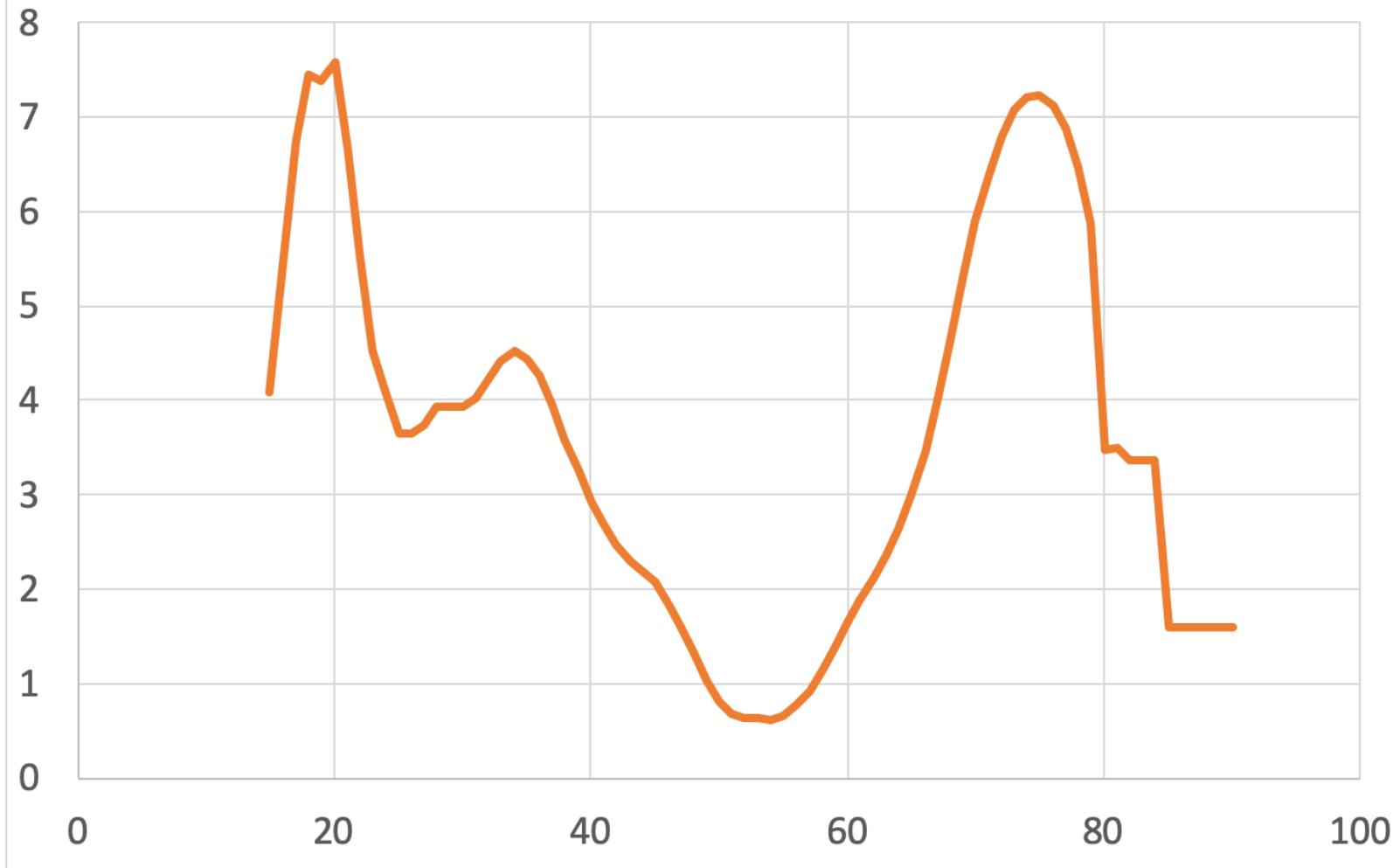


View multiple dimensions of
inequality: SES, Gender, etc.

Gender inequality



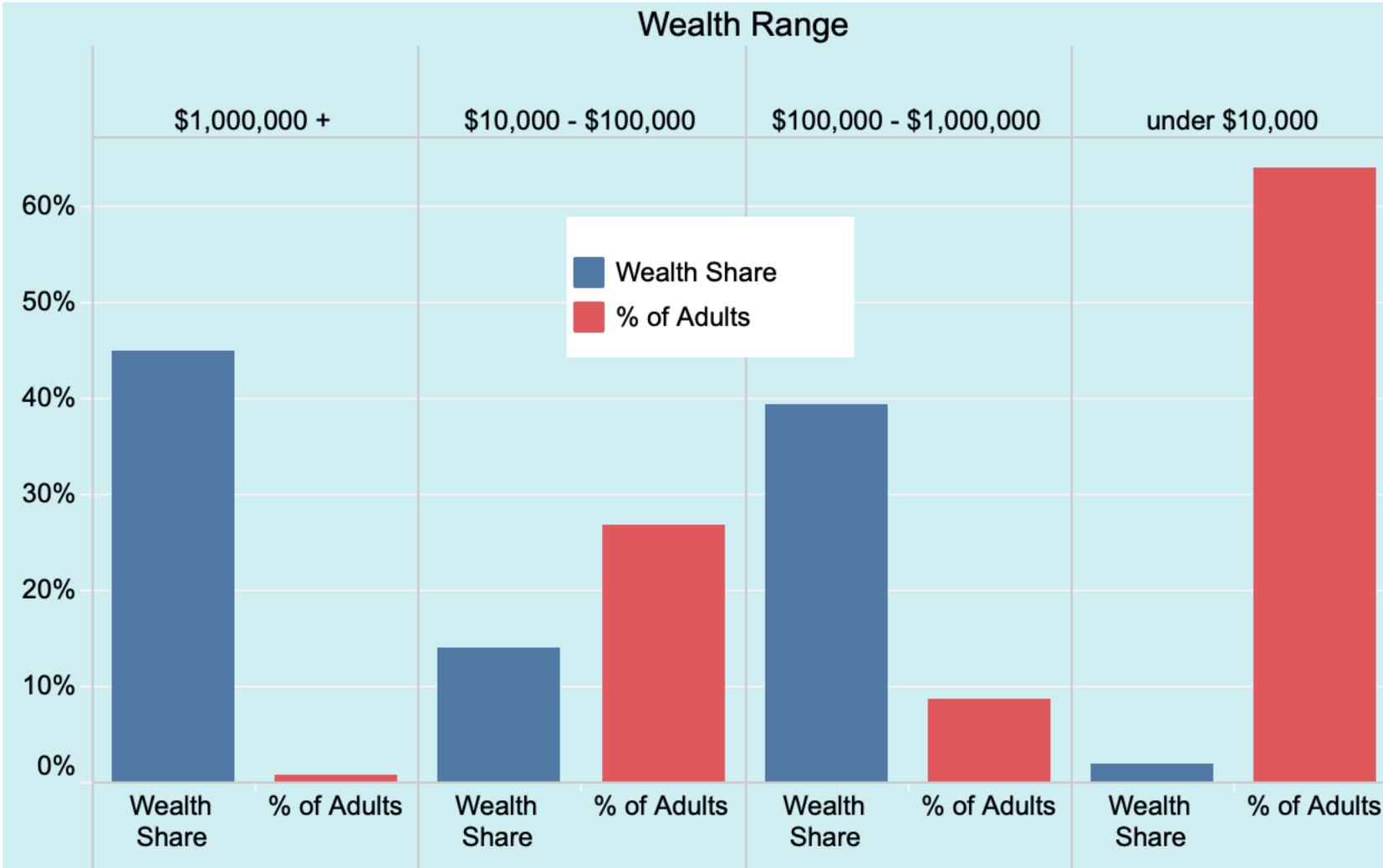
Difference in hours of work per week:
Women - Men, USA



1.6 years

The Richest 1% Own 45% of the World's Wealth

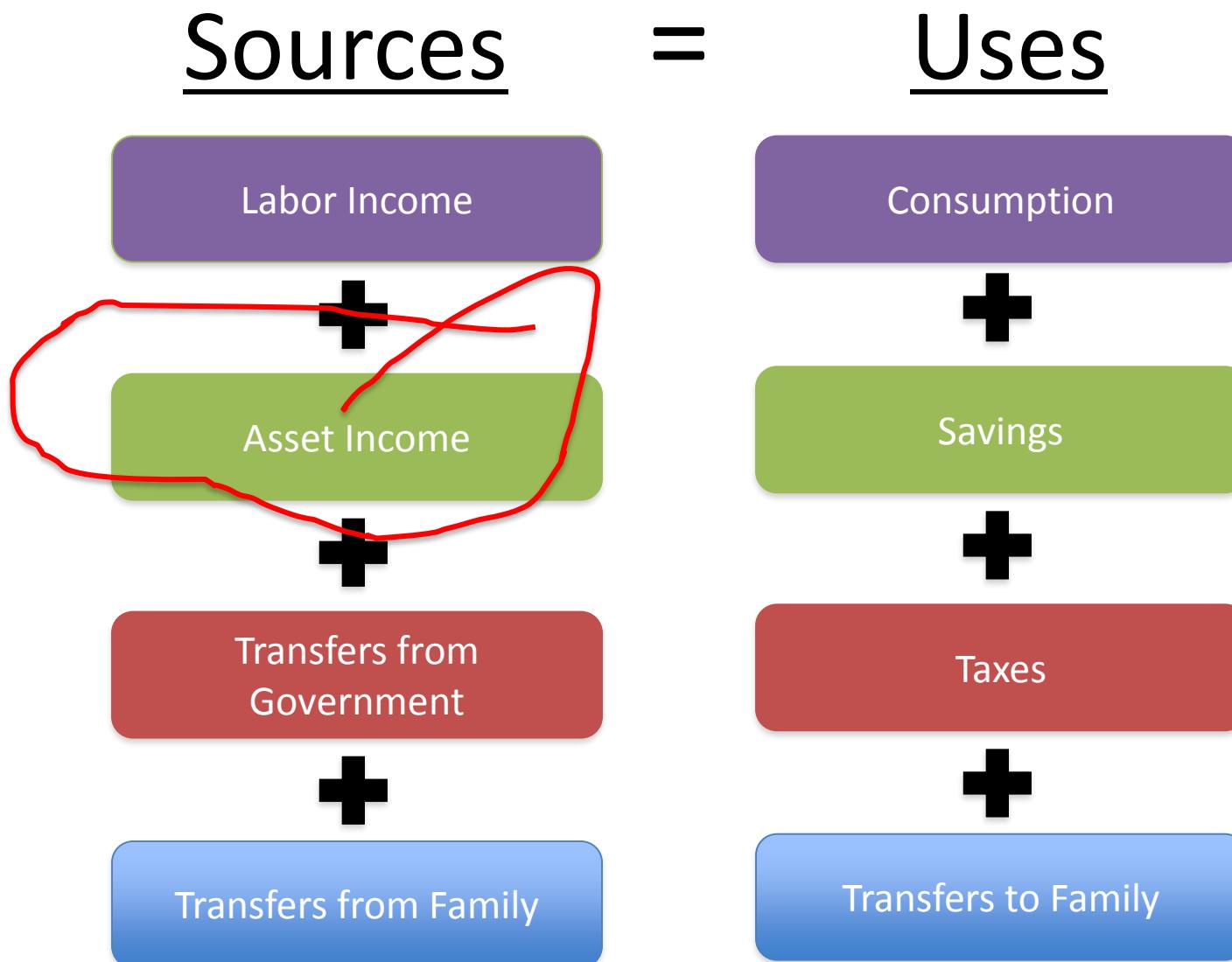
Global adult population and share of total wealth by wealth group, 2018



Source: Credit Suisse, Global Wealth Databook, 2018

The 1% Methodological problem:

NTA flow identity for each individual (among the 99%)



Uh-oh:

Asset
income is
twice as
big as it
should be.



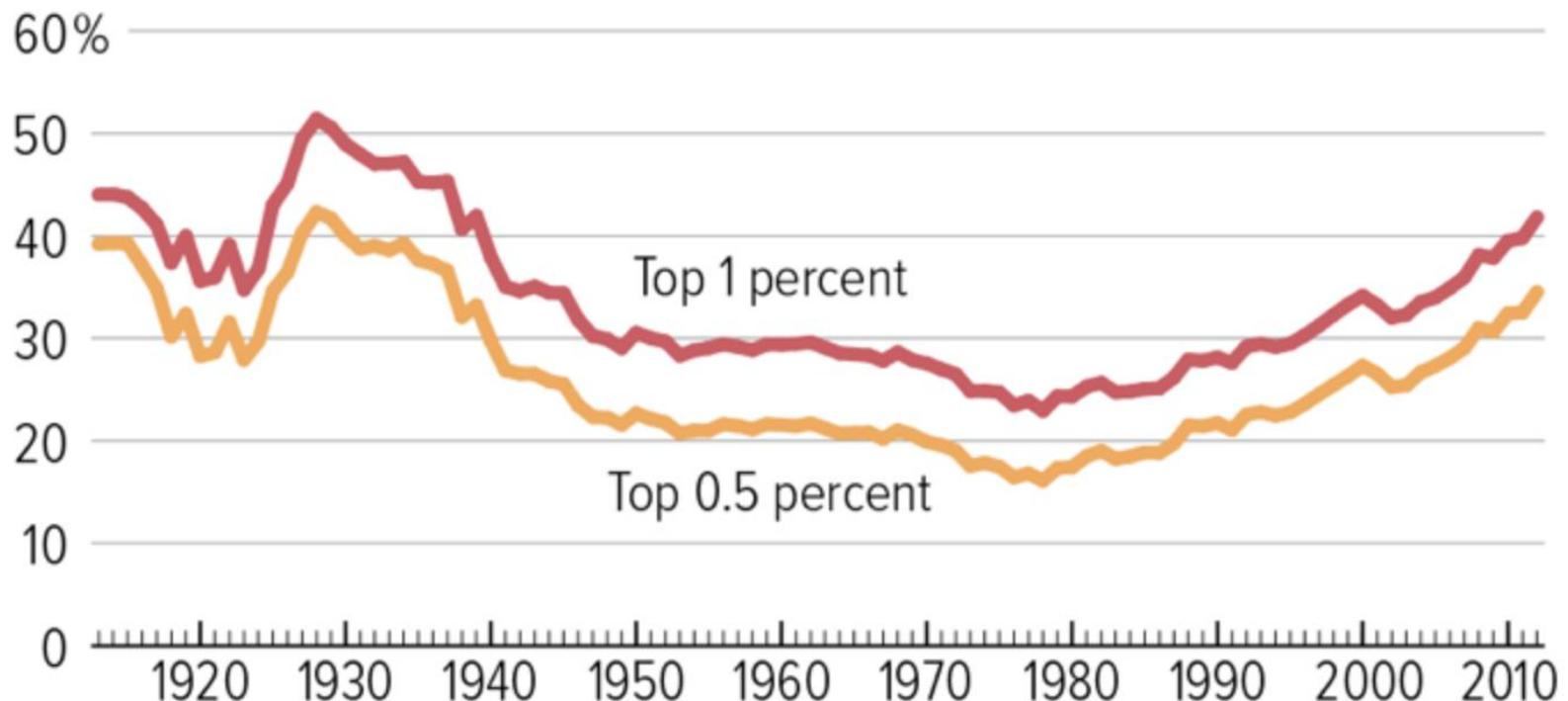
The 1%
solution



When life
gives you
lemons,
make
lemonade.

Wealth Concentration Has Been Rising Toward Early 20th Century Levels

Share of total wealth held by the wealthiest families, 1913-2012



Source: Saez and Zucman, May 2016

The Way Forward

- 1) A “white paper” for the way forward. A list of unresolved issues: methods, empirical data, theory.
- 2) Network
- 3) Finland
- 4) Micro-data
- 5) Gender inequality
- 6) The 1%
- 7) Nothing about me, without me.



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A photograph of the United Nations Headquarters building in New York City. The building's distinctive blue-tinted glass facade is visible against a bright blue sky filled with scattered white clouds. The perspective is from a low angle, looking up at the building's corner. A large, semi-transparent white rectangular box is overlaid on the right side of the image, containing the contact information.

Questions or comments?
You can contact me at
tim.miller@un.org