

International Actuarial Association Association Actuarielle Internationale



Implicit Pension Debt versus Government Debt

IACA WEBINAR

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Pensions, the 'unfixable' problem?

•"Some problems just seem too hard for politics to fix."

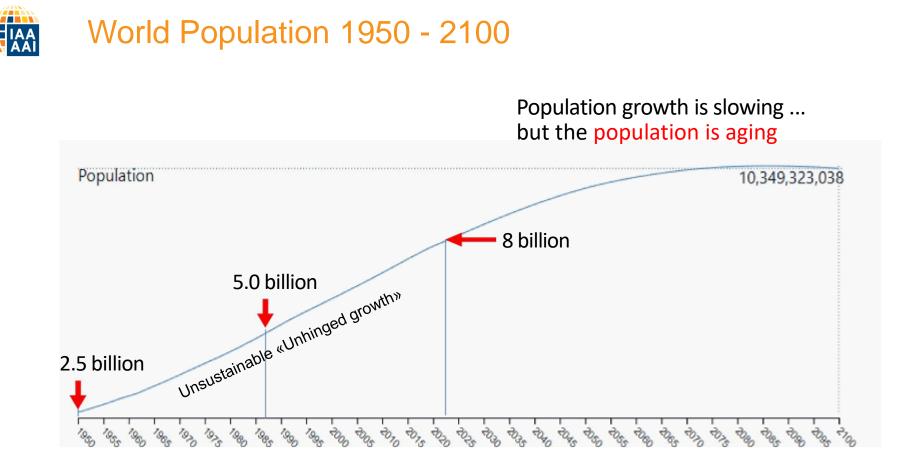
• "It's the same issue everywhere: an aging population, fewer young workers to support the elderly, soaring health costs and rising life expectancies. And no political leader has really work out how to sell a fix to their people."

* Source: quotes from CNN's "Meanwhile in America", highlights added
written by Stephen Collinson, Caitlin Hu and Shelby Rose
Published on March 10, 2023

THE PATIENT



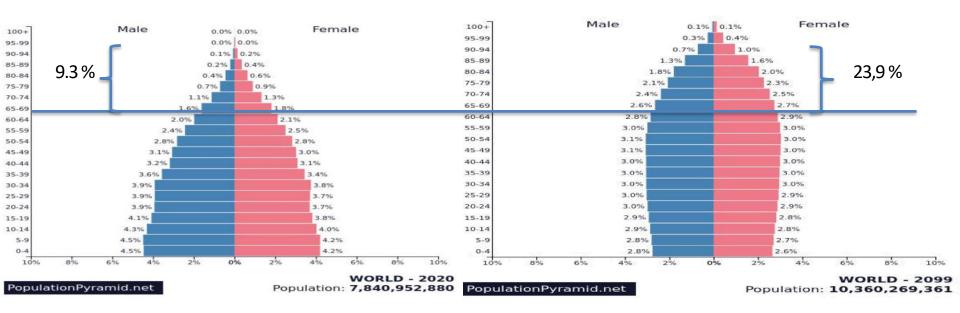
- The «patient»
- On 15 November 2022, the world's population reached 8 billion **people**, a milestone in human development. This unprecedented growth is due to the gradual increase in human lifespan owing to improvements in public health, nutrition, personal hygiene and **medicine**. It is also the result of high and persistent levels of fertility in some countries.
- While it took the global population 12 years to grow from 7 to 8 billion, it will take approximately 15 years—until 2037— for it to reach 9 billion, a sign that the **overall growth rate** of the global population is slowing."



•Source: https://www.populationpyramid.net/world/2100/

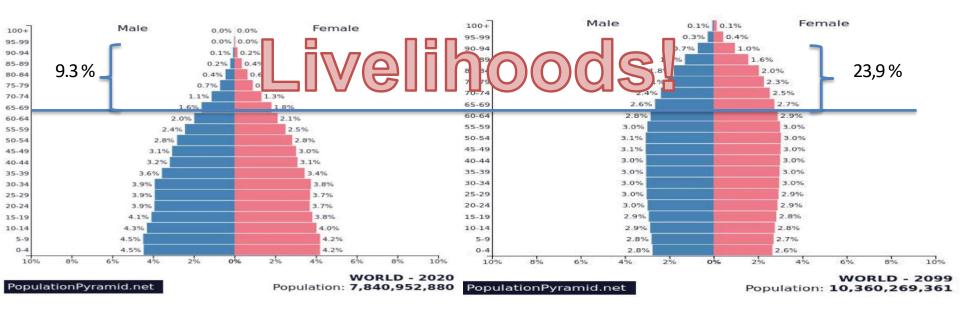


World Population Pyramids 2020 - 2100



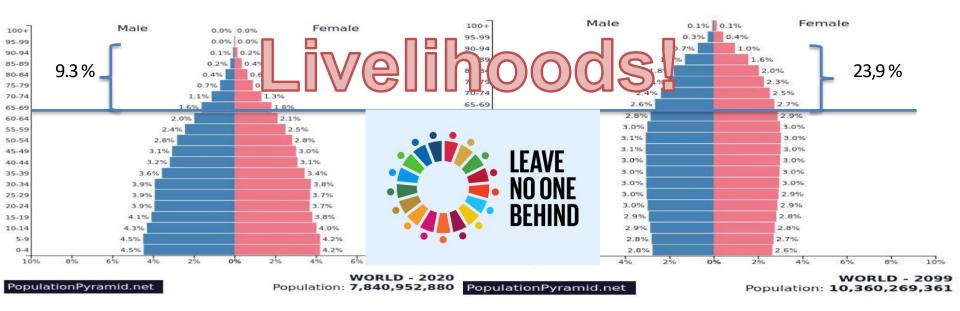


World Population Pyramids 2020 - 2100





World Population Pyramids 2020 - 2100



THE FRAMEWORK

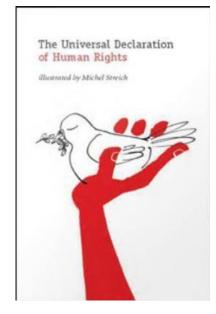




The Universal Declaration of Human Rights

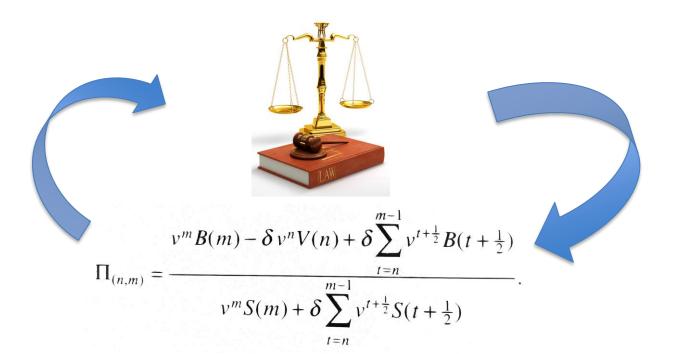
Art. 22 "Everyone, as member of society, has the right to social security"

$$\Pi_{(n,m)} = \frac{v^m B(m) - \delta v^n V(n) + \delta \sum_{t=n}^{m-1} v^{t+\frac{1}{2}} B(t+\frac{1}{2})}{v^m S(m) + \delta \sum_{t=n}^{m-1} v^{t+\frac{1}{2}} S(t+\frac{1}{2})}.$$





NATIONAL COMPULSORY SOCIAL SECURITY PENSION SCHEMES

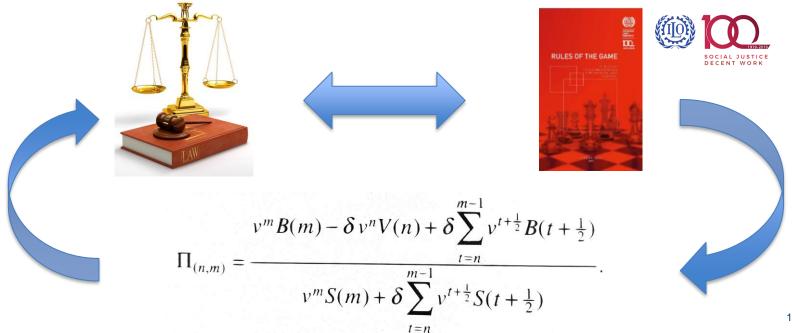


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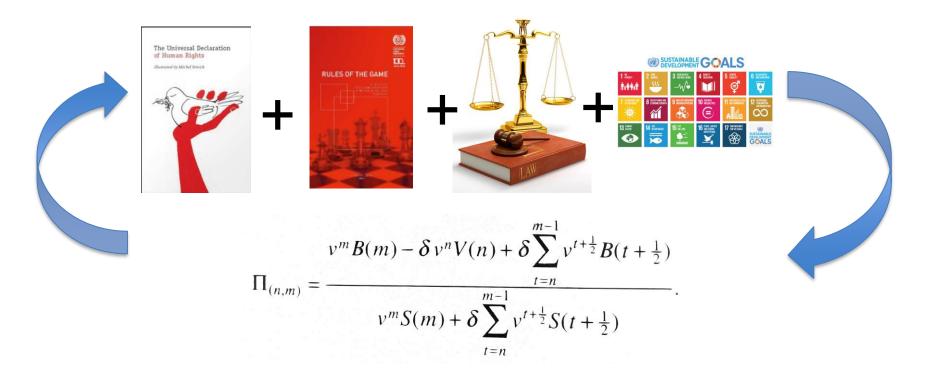
FOCUS OF THE PRESENTATION

NATIONAL COMPULSORY SOCIAL SECURITY PENSION SCHEMES





RESPONSIBILITY OF THE STATE

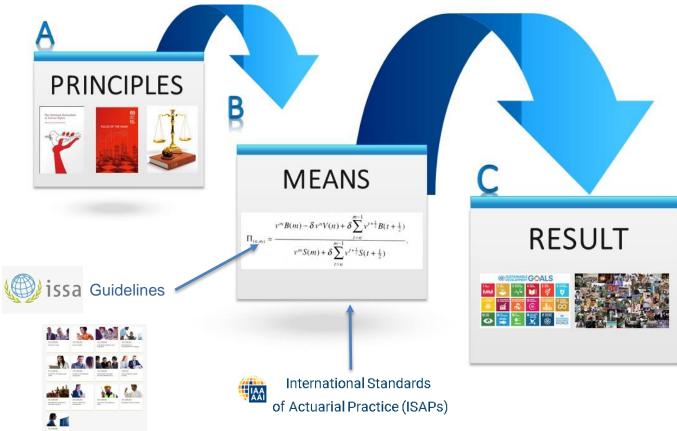


https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12100:0::NO::p12100_instrument_id:312247

PRINCIPLES, MEANS AND ENDS



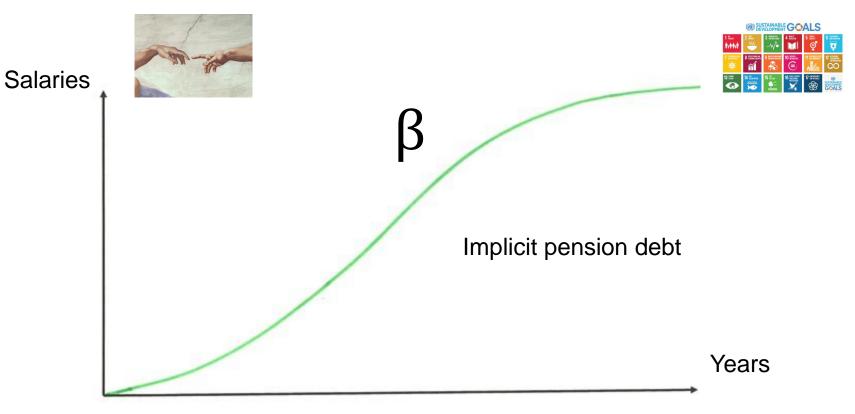
360° APROACH



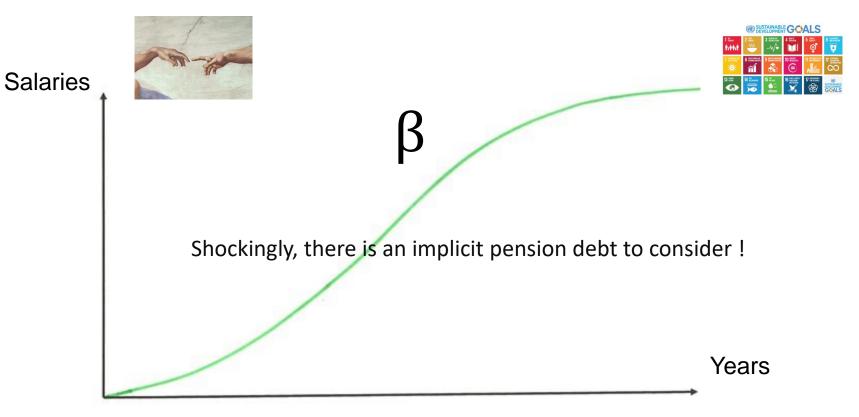






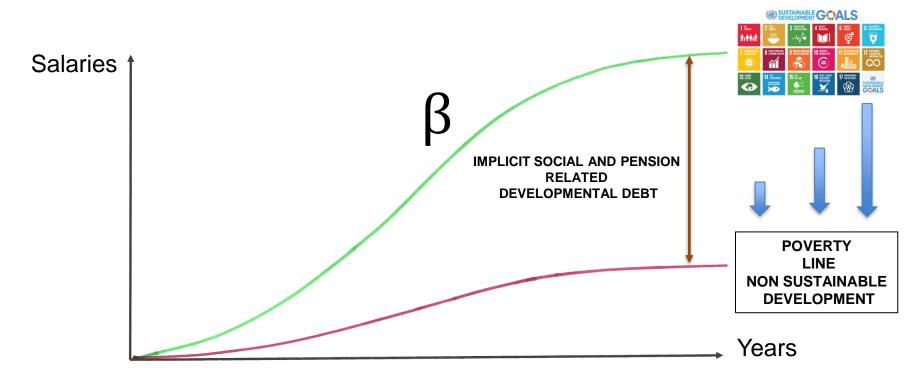






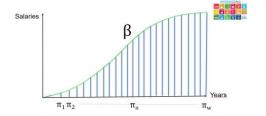


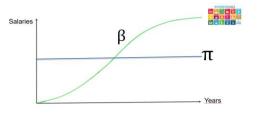
Shockingly, there's also social and developmental pension related debt to consider !

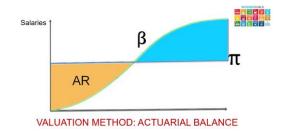


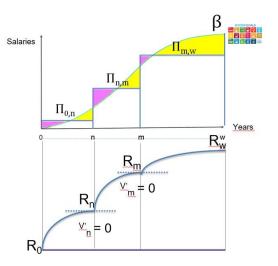


FINANCIAL METHOD – VALUATION METHOD







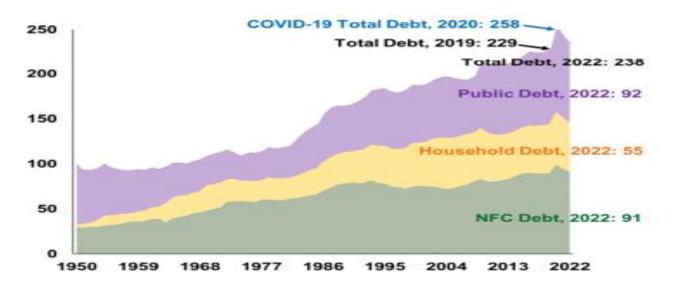


PENSIONS IMPLICIT DEBT VS OTHER DEBTS



2023 Global Debt Monitor

Figure 1. Global Public and Private debt, 1950–2022 (Percent of GDP)

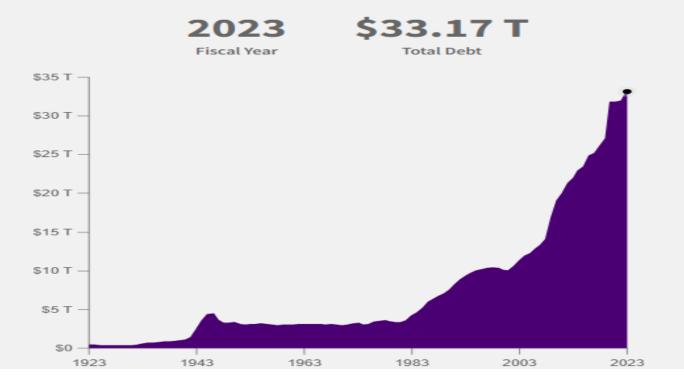




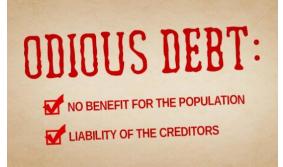
US NATIONAL DEBT 1923 - 2023

U.S. National Debt Over the Last 100 Years

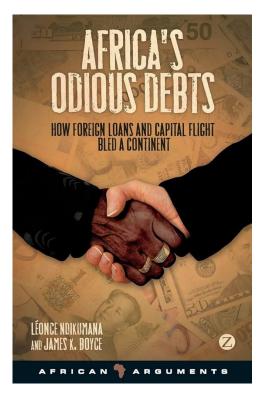
Inflation Adjusted - 2023 Dollars













Other Developmental LATENT Debts





HOUSING LATENT DEBT



WATER SUPPLY LATENT DEBT



RAILROADS LATENT DEBT

EDUCATIONAL LATENT DEBT



HIGHWAYS LATENT DEBT

PORTS LATENT DEBT



HEALTH SERV. LATENT DEBT



PUBLIC SPACES LATENT DEBT



COMMUNICATION LATENT DEBT



We should look at these investments through a positive lens, through what they will bring to society rather than how they will make our debt percentages look.

MEP Philippe Lamberts

77

EU economic rules must be changed to give the EU the means to invest in its green and social transition, in people and planet.

MEP Philippe Lamberts





Home / News / Economy / Fiscal Policy / EUs new fiscal rules impede fight against climate change: report

EU's new fiscal rules impede fight against climate change: report

By Thomas Moller-Nielsen | Euractiv ③ Est. 5min

🗰 Jan 31, 2024 (updated: 🇰 Feb 7, 2024)

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t Nov 16, 2023



An Agreement on EU fiscal rules will make it impossible for Member States to invest in the Just Transition

IAA Webinar Brian Ridsdal July 2018 27



OTHER LATENT DEBTS TO ADDRESS OBSTACLES TO DEVELOPMENT







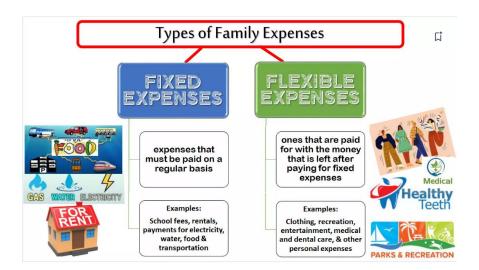
DEFENSE LATENT DEBT?

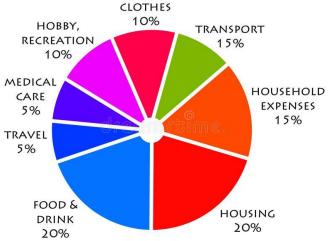
RESSOURCES TO STOP ILLEGAL ARM TRAFFIQUING LATENT DEBT? RESSOURCES TO STOP ILLEGAL TRAFFIQUING LATENT DEBT?



IMPLICIT FAMILY DEBT









ODIOUS FAMILY DEBT







The European Court of Human Rights condemns Switzerland for climate inaction



The European Court of Human Rights (ECHR) on Tuesday condemned Switzerland for violating the Convention on Human Rights, ruling in favor of the association "Seniors for the Climate" which attacked Switzerland's inaction in the face of to climate change.

This is the first time that the Court, which enforces the European Convention for the Protection of Human Rights, has condemned a State for its lack of initiatives to combat climate change.

In May 2020, the Federal Court rejected the appeal of the association of Elders for climate protection. In particular, he estimated that older women were not more concerned by the consequences of climate change than other groups of the population.

Pensions: An intergenerational developmental challenge

•"Some problems just seem too hard for politics alone to fix.; actuarial innovation, audacity and voice are needed "



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MANY THANKS FOR YOUR ATTENTION!

ALEJANDRO BONILLA GARCIA Actuary. M.Sc. PhD bonilla@actuarial-i.com 10th April 2024