



SESSION 5. ANNUITIES "CHALLENGES AND DEVELOPMENT OF THE MEXICAN ANNUITIES MARKET"



Introduction: Mexican Annuities Market

Background



- The current Mexican pension system for private sector employees started operations on <u>July 1, 1997</u>, according to the Social Security Law (LSS).
 - It is based on the <u>capitalization of pension savings</u> in personal accounts.
- The new Law of the Institute for Social Security and Services for State Workers (LISSSTE), issued on March 31, 2007, established the participation of the insurance sector in the payment of the pensions of Mexican state workers.

Background



For the <u>payout phase</u> of the pension system, the LSS and LISSSTE <u>allow pensioners</u> to choose one out of two options*:

1 <u>Annuities</u>

- The worker must buy an annuity from a specialized insurance carrier.
- The pensioner hands over his savings to the insurer, who will bear the investment and longevity risks.

2 Programmed withdrawals

- The worker chooses a programmed withdrawals offered by a pension fund.
- The savings belong to the pensioner and therefore he bears the longevity risk.

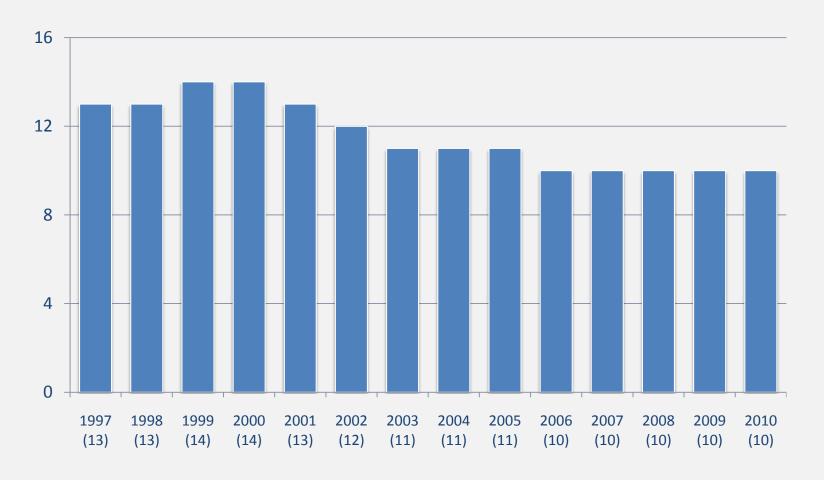
^{*} If the accumulated balance at retirement is less than the amount needed to obtain an annuity (at least the Minimum Pension Guarantee (MPG)), the worker has to opt for a programmed withdrawal. When resources are used up the Government is responsible for paying the MPG to the worker.

Annuities market structure

CNSF

authorized annuities insurers

Authorized annuities insurers



Annuities market structure

CNSF

insurers by operative status

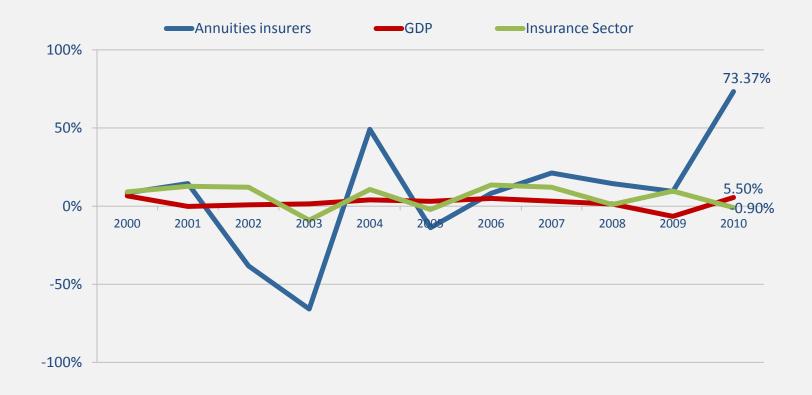


Growth dynamics

CNSE

written premiums real growth vs. GDP

■ Throughout 2007-09, the design and the prudential regulation of the annuities market were enhanced. As a result, it became more dynamic. Premiums showed a strong recovery in 2010 (+73.4%).

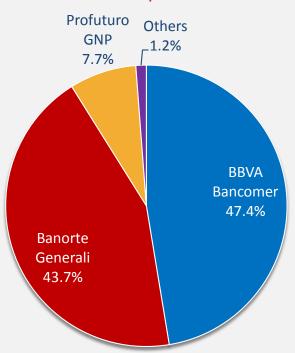


Growth dynamics

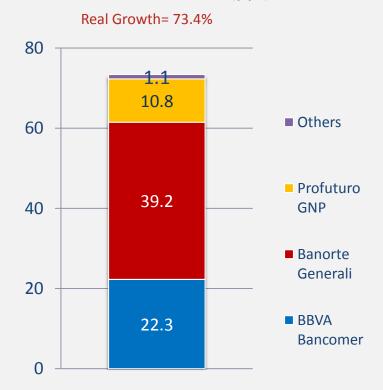
portfolio & share in real growth



Line of business portfolio



Growth Contribution (pp.)

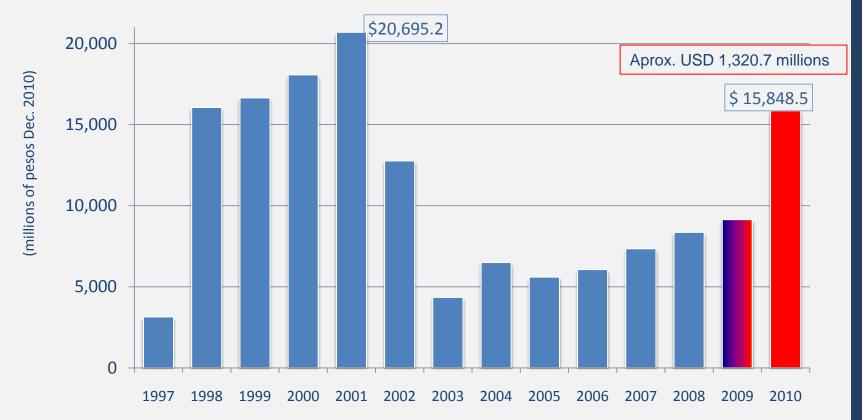


Size of the pensions market

real direct premium



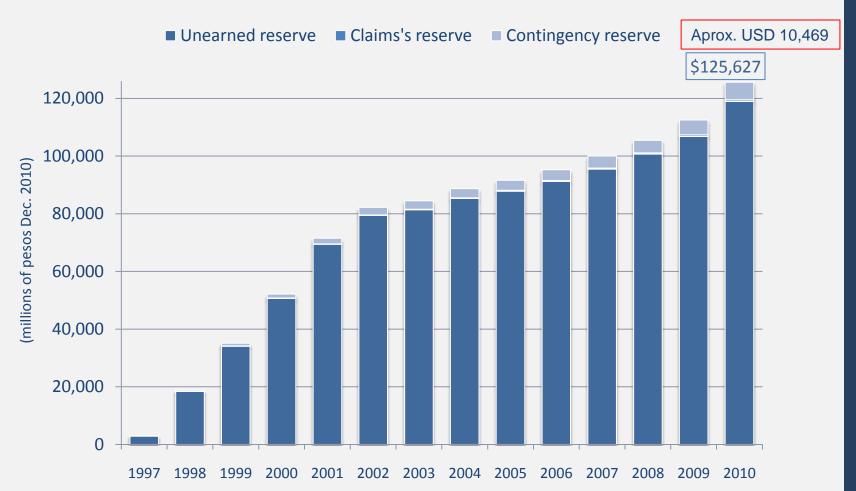
■ A more dynamic annuities market will strengthen the *pay-out phase* of the Mexican retirement savings system.



Annuities technical provisions

CNSF

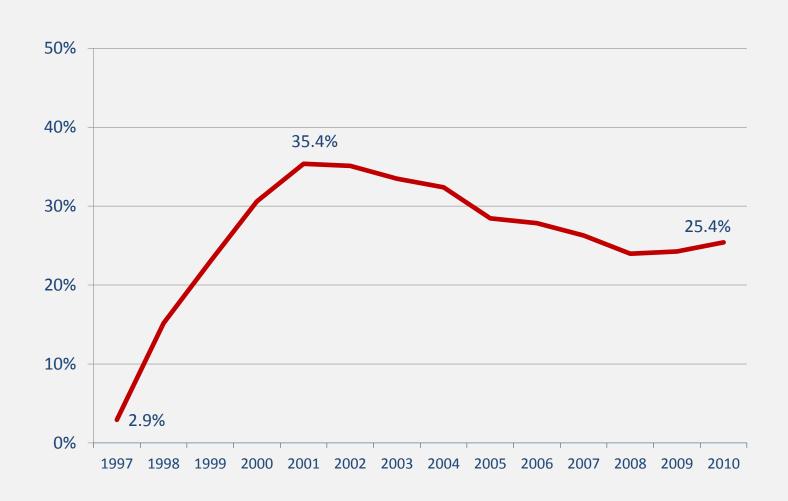
portfolio & dynamics



Annuities technical provisions

CNSF

portfolio & dynamics





New operative scheme for annuities market

Annuities market

CNSF

strengthening of prudential regulation

- In 2009 prudential regulation applicable to annuities was enhanced by:
- 1. Implementing an <u>electronic auction</u>, <u>information and pricing system</u> (SOAR- Offers and Resolutions Management System):
 - To <u>improve the critical interface</u> between the *accumulation phase* and the *payout phase* of the pension system, <u>increasing the efficiency</u> and <u>enhancing the transparency</u> in the commercialization process.
 - With the SAOR, workers receive <u>all the information required</u> to select, appropriately, between the old and the new security system's benefits.
 - As the SAOR provides comparable information on the different offers of annuities, workers can <u>select the insurer</u>, <u>AFORE or Social Security Institute</u> that suits their financial needs, and get a pension.

Annuities market

CNSF

strengthening of prudential regulation

- In 2009 prudential regulation applicable to annuities was enhanced by:
- 2. Updating mortality tables that insurers are required to use for reserving and capitalization purposes.
 - Introducing dynamic mortality tables, to consider future improvements in life expectancies (<u>longevity risk</u>).
- 3. Liberalizing <u>mortality tables and discount rates</u> to be used by insurers <u>for pricing purposes</u>.
 - Introducing a unique additional benefit that makes the competition more transparent.
- 4. Allowing the <u>use of derivatives, exclusively for hedge purposes</u>, in order to enhance asset-liability matching.

internet system



www.cnsf.gob.mx

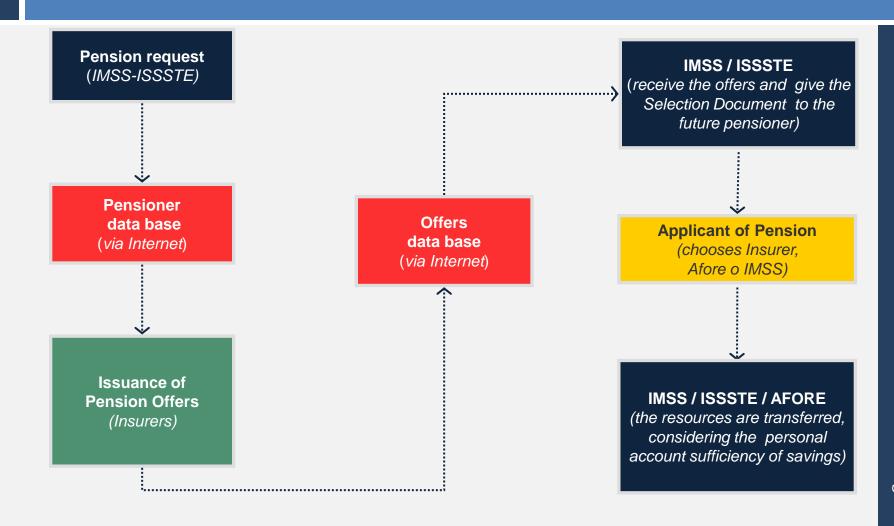
The SAOR operates from an Inter-institutional platform:

- IMSS
- ISSSTE
- SHCP
- CNSF
- CONSAR



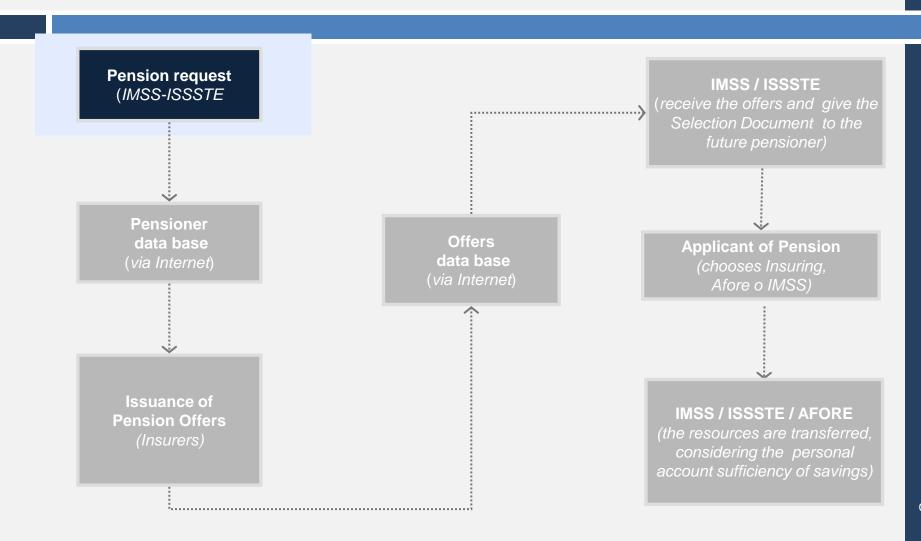












New operative scheme

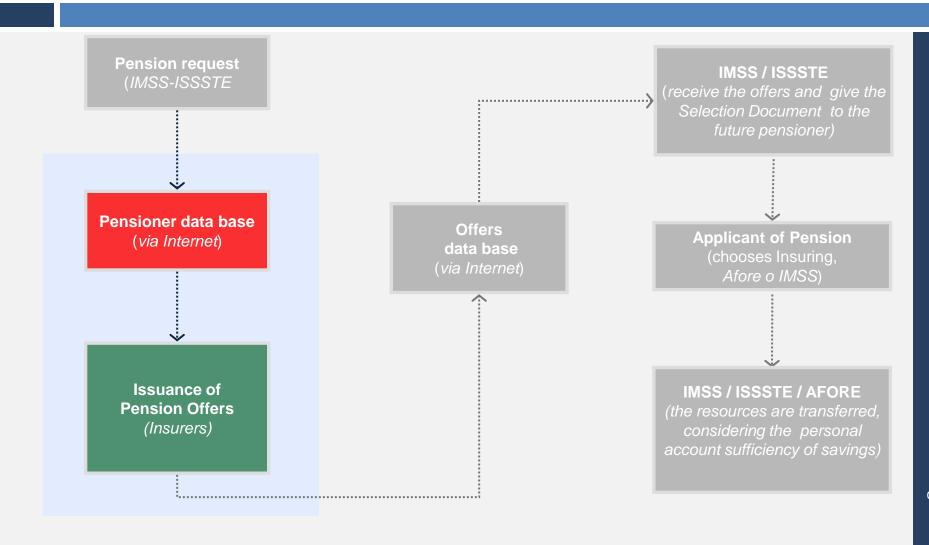
beginning of the process



- Those workers eligible for a pension approach their respective Social Security Institute to begin the process to get their pension.
- Through this system the <u>information</u> about eligible workers and their beneficiaries <u>is posted into the web-page</u>, and it is available to the insurers, without the applicants personal identification data.

SUC-IMSS y SUC-ISSSTE



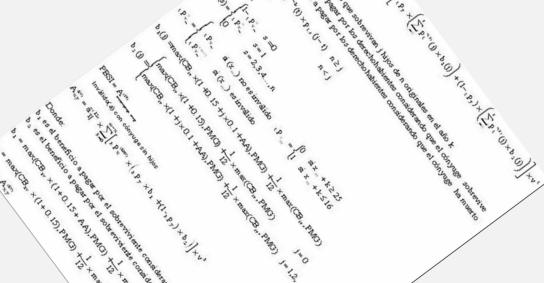


New operative scheme SUC-IMSS y SUC-ISSSTE



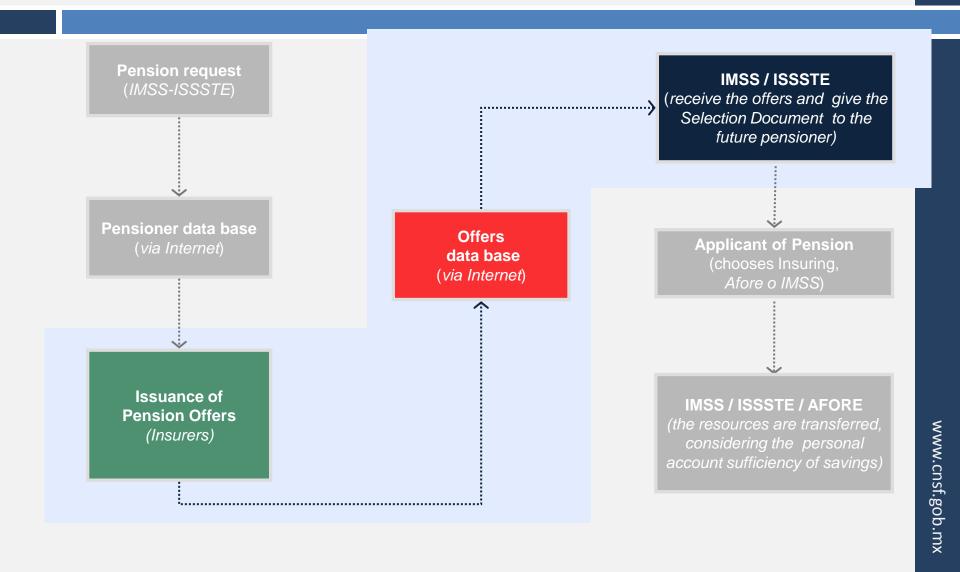
- The <u>Unique Quotation Systems</u> (SUC) allows the insurance carriers to calculate, on homogeneous bases, the "pension payments," considering the <u>discount interest rate</u> that they are able to offer and the <u>biometric bases</u> that reflect their estimation of survival.
 - According to the LSS and LISSSTE, the procedures to estimate the single premium (Monto Constitutivo) for the annuity are responsibility of a particular Committee that establishes a predefined methodologies of calculation.





Inter-institutional Website

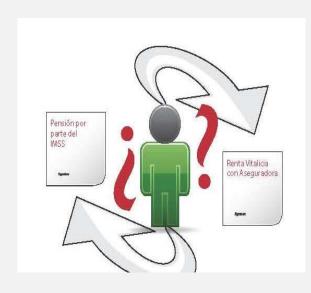




New operative scheme

Inter-institutional Website





Through the SAOR, the insurers send their offers to the social security institutes, eliminating the intermediation of insurance agents.

The new electronic quotation system has been designed to <u>improve market transparency</u> and ensure that retirees effectively get the best quotes

Ley 73 (IMSS)		Ley 97 Renta Vitalicia (Aseguradora)							
Pensión mensual LSS)*	Aguinaldo Anual**	Institución de Seguros	Pensión mensual (LSS)	Beneficio adicional mensual	PENSIÓN MENSUAL TOTAL*	Aguinaldo Anual**	Pensión "máxima" mensual***		
\$	\$	Aseguradora 5	\$	\$	\$	\$	\$		
		Aseguradora 4	\$	\$	\$	\$	\$		
		Aseguradora 3	\$	\$	\$	\$	\$		
		Aseguradora 2	\$	\$	\$	\$	\$		
		Aseguradora 1	\$	\$	\$	\$	\$		
			Renta Vitalicia, stadas en esta t		r entre las Asegurador	as que ofrecen	este servicio		

Este aguinaldo se te pagará en una sola exhibición a más tardar en el mes de diciembre

^{***} Cantidad calculada suponiendo que tus aportaciones voluntarias las destinaste a incrementar tu pensión. Esta opción debe ser contratada directamente con la aseguradora después de que se te notifique la resolución de tu pensión.



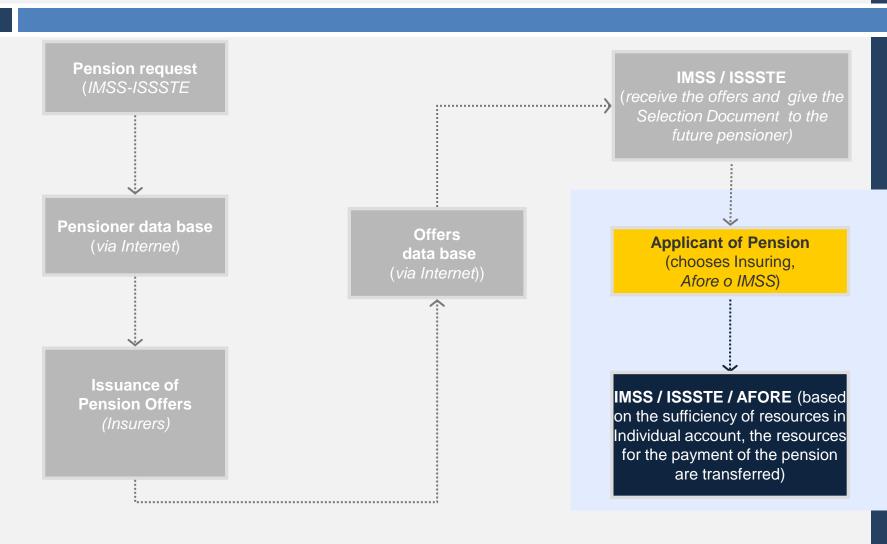
Si tienes dudas o aclaraciones puedes comunicarte al IMSS al:

01 800 623 23 23

Nuevo scheme



selection and transference of funds





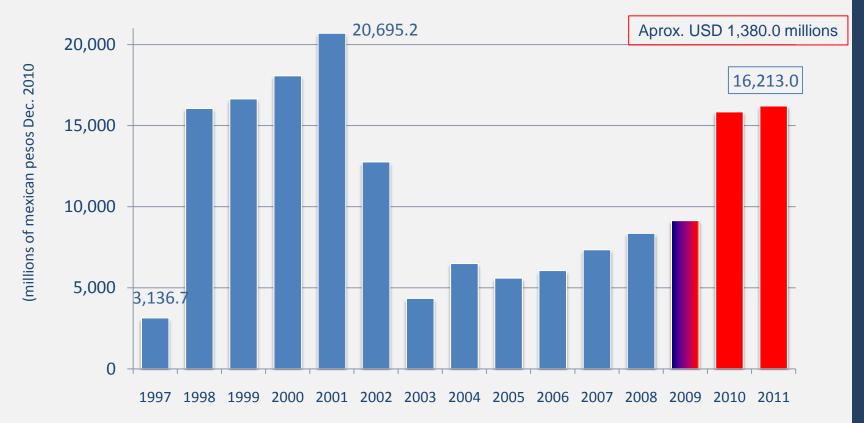
New operative scheme of pensions insurance: some figures

Size of the pensions market

CNSF

direct real premium 2011

A more dynamic annuities market will strengthen the pay-out phase of the Mexican retirement savings system.



^{*} CNSF Estimation.

Asset-liability matching

market size and liabilities in 2010



- The size of the market was \$15,849 million Mexican pesos in 2010 (aprox. USD 1,320.75 million):
 - IMSS = \$12,840 million Mexican pesos (aprox. USD 1,070.0 million)
 - ISSSTE = \$3,009 million Mexican pesos (aprox. USD 250.75 million)

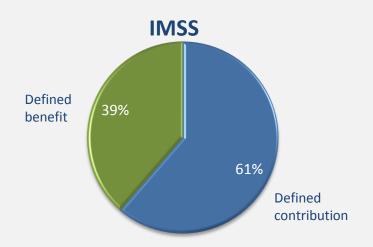
<u>Regime</u>	Non-disabled person		<u>Disabled</u>	d person	Total	
	Actuarial age	Life expectancy	Actuarial age	Life expectancy	Actuarial age	Life expectancy
IMSS	38.6	41.2	41.4	21.1	40.0	22.4
ISSSTE	53.3	29.7	39.1	15.0	40.8	32.4

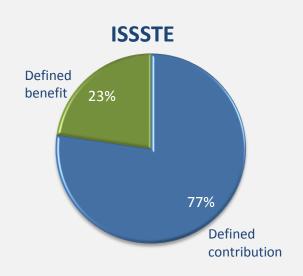
New Scheme



Pensions

■ By March 31, 2011, the <u>IMSS had granted 162,420 pension resolutions</u> (25,790 to an insurance carrier, the rest to the LSS-73), and the <u>ISSSTE had granted 3,437 pensions</u>.





^{*} Accummulated data from August 2009 to March 2011.



Challenges of the Mexican Annuities Market

Challenges



- There are still <u>some challenges</u> in the Mexican annuities market that need to be addressed in the future :
- 1. Management (measurement and mitigation) of <u>longevity risk</u> by annuity providers remains a challenge.
- 2. In addition, although annuity providers have access to a wider range of financial instruments than in the past, they still face a <u>duration</u> <u>mismatch problem</u> that needs to be continuously addressed.
- 3. The <u>separation of the accumulation and retirement phases</u> implies that neither pension funds nor annuity providers are effectively maximizing the individuals' pension wealth over the entire lifecycle.
 - During the transition from the <u>accumulation phase to the pay out phase</u>, a problem has been evident:
 - Two persons with identical characteristics (i.e. age, sex, professional career and savings) can get significantly different pension amounts at retirement, due to the fact that they obtained their pension in two different periods in the time.

Challenges



- There are still <u>some challenges</u> in the Mexican annuities market that need to be addressed in the future :
- 4. It would be interesting to <u>evaluate if it is possible to cross the</u> <u>horizons</u> of Pension funds- and Life annuity:
 - That AFORES "watch" their <u>investments beyond the date of retirement</u>, investing in very long term bonds and
 - On the other side, <u>allowing workers to invest their pension resources</u> before their time to retirement.
 - To smooth the transition from the phase of accumulation to the pay out phase, various annuity schemes have been analyzed internationally. Their purpose is to allow for more flexibility in the use of accumulated resources by workers, and to cope better with specific needs and market opportunities for the pensioners.





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