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ension Reform in Europe in the 90's and Lessons for Latin America

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Abstract

Reviewing and comparing the economic histories of Europe and Latin America we can observe that the universality of social security systems and the concurrent development of labor market institutions allowed Europe to reduce social inequality, while this has not been possible in Latin America. Pension systems in Latin America face some of the same problems that Europe's social security systems have faced before but with more difficult financing conditions.

This document focuses on the lessons that Latin American countries may draw from the experience of Europe as well as on how reforms undertaken by the majority of countries of the region show different paths (to be taken) on how to place social security on an economic sustainable path.

The paper is organized as follows: chapter two provides the idea that even though the OECD countries succeeded in transferring growing prosperity to the elderly, but at the same time design and taxes rules were working in the wrong direction to financial sustainability, OECD countries needed to reengineer their pay-as-you-go systems.

Chapter three focuses on the fact that Latin American countries have the prerequisites for productivity growth in the coming quarter century, trough growth of human capital and labor force growth. The challenge for the Latin American countries will be to bring the entire population into this growth process, and include them within the institutions of the formal economy, and pension systems that transfer individual resources over the life cycle.

In chapter four we discuss about the measures taken by countries in Europe to deal with concerns about financial sustainability and fairness, we suggest some important insights for Latin America, and how adverse demographic change and cost-push effects of generous systems have been the driving forces behind OECD reforms during the 1990's.

Chapter five gives a brief description about the National Defined Contribution PAYGO system.

Chapter six shows the explanation of what lies behind the path taken in Europe to introduce financial account systems. Financing the transition to financial account systems, the chapter says that in countries where coverage is low the future cost of the guarantee could be substantial, implying an increase in the tax rate on future workers. Where financial account systems have been introduced, younger generations have traded rights in the PAYGO scheme for rights in the financial account scheme. What European countries that have introduced financial account schemes have done is to mix these with PAYGO, diversifying participant risk between economic and financial rates of return.

Chapter seven is emphatic to show that one of the strengths of post-war OECD systems has been the poverty reduction impact, and can be attributed to the high coverage level, a special provision for women and added safety net factors.

Chapter eight enumerates the differences between the Latin America and European reforms. With goals often been the same, they have been moving away from redistributive Defined Benefit systems toward contribution-related-systems, and the chapter also provides the lessons the region has taken from the European process.

Chapter nine summarizes our findings and concludes the paper.

1. Introduction

Public pension systems in Latin America date back to the 1930s. System design was based on what was then the dominant model – "Europe". In the initial stages, systems in Latin America covered primarily employees in the public sector and in multi-national companies. In Europe in the 1930s, with the possible exception of the Mediterranean countries, systems tended to be more universal although benefits were low. As in Europe, Latin American systems expanded in the 1950s and 1960s. For the most part, however, they remained fairly elite systems, reflecting the small formal sector labor force and high income inequality. The strong role of the state in postwar Latin American industrialization also meant that the covered labor force was predominantly within the public sector. As the workforce was young and growing, these systems were affordable.

This changed in the late 1970s. The oil crisis and the ensuing inflation, the public borrowing to keep economies afloat and then the subsequent debt crisis of the 1980s and the ensuing decade of stabilization and slow growth left public finances devastated. Stabilization laid bare the sustainability problems of the public systems, as benefit promises could no longer be inflated away. The inequities became clear as well. In many countries, the same contribution record brought vastly different benefits depending on occupation. Pension reforms were adopted to reduce government debt, and improve the equity of the system. Latin American reforms, starting with Chile and spreading through Latin America, brought forth a new model of public pension system: the DC individual account, fully advance funded and privately managed. (World Bank 1994).

Latin American reforms have been influential around the world. As Europe began to focus on the need to reform their systems, the ideas of Latin America were often discussed. In the end, Europe is forging its own way in pension reform, but traces of Latin American thinking can be found in the reforms of 1990s. Individual accounts are now seen as key to reform in Europe as well.

Although the Latin American model has held up well, some problems are emerging. One of the biggest issues is coverage (Holzmann, Packard and Cuesta 2000.). It was widely expected that this would improve with reform, but the experience of Chile is that it has not. As a result, Latin American systems are not expected to prevent continued old age poverty over the next few decades. In the face of this growing poverty challenge, some are looking back to Europe to see what the Old World has done with the quintessentially New World idea of individual accounts.

Although the Latin American model has held up well, some problems are emerging. One of the biggest issues is coverage (Holzmann, Packard and Cuesta 2000). It was widely expected that this would improve with reform, but it has not. As a result, Latin American systems are not expected to prevent continued old age poverty over the next few decades. In the face of this growing poverty challenge, some are looking back to Europe to see what the Old World has done with the quintessentially New World idea of individual accounts.

2. The OECD in the 1990s

Public old-age pensions were originally introduced in Europe and elsewhere to reduce poverty in old age by providing coverage for the entire working population and their survivors. Although as a rule high-income industrial countries had some form of public pension scheme by the 1930s, the standard of living of the elderly was still a major political concern in the reconstruction period of the 1950s. A priority of many governments was to create schemes that could benefit persons whose human capital and savings had been ravaged by two wars and a depression.

In a number of countries, public defined-benefit systems with generous rules emerged in the 1950s and 1960s. Some systems combined the same benefit for all with a benefit based on the number of covered years, where in some cases the number of covered years needed for a full benefit was set much lower (e.g. 30 years) than normal male working careers at the time, which were 40-45 years as late as in the mid-1970s (Palmer 1999). In addition, the benefit itself may have been based on the participant's best "x" years of earnings, or the final "y" years. So, all years did not have the same weight. This type of benefit formula helped to bring higher benefits to workers retiring in the 1960s and 1970s, which was the goal in many countries. In the longer run, however, it has turned out to be a problem. It involves an unfair redistribution from those with longer and relative flat earnings careers (typically blue-collar industrial and white-collar service jobs) to persons with shorter working careers and steep

The Beveridge Report, published in 1942, was commissioned by Churchill with the aim of improving the situation in the United Kingdom after the war.

increases in their earnings profiles (typically professional and white-collar management careers). In addition, these systems typically offer a full-benefit at a specific age, and sometimes also seniority rights that allow persons with a specified number of years to retire before this full-benefit age.

As generous rules² matured the workforce participation of males declined in all original OECD countries but Japan, and by as much as six years in Spain, five in France, but also four years in Sweden where the full benefit age was decreased by 2 years in 1976. Unisexual life expectancy from age 60 increased by around 2.5 years over the period 1975-2000. So regardless of whether the benefit was be to paid to a male worker or his surviving spouse (who is usually younger by 1 or 2 years and is expected to live 5-6 years longer), the benefit period had increased by around 5-8 years over the 25-year period from the mid-1970s (Palmer 1999).

Another development in the 1960s and 1970s would also affect Europe for a long time to come. Bolstered by strong post-war economic growth, there emerged an alliance of "solidarity" between unions interested in good benefits for their members - from a low age - and employers who were interested in setting a contractual age limit for older workers in order to get around last-in/first-out agreements with labor. This alliance helped foster the idea of the life course with the three phases of education, work and retirement that emerged in the 1960s and 1970s. Full retirement became a "life phase", specified by law and/or contract, not infrequently with contractual benefits supplementing statutory systems, making exit even more attractive.

Where there is at least a theoretical choice between work and retirement, in some countries the implicit tax on working longer (loss of lifetime resources, i.e. after tax benefits, from working one year longer compared to extra earnings from continued work) can be high. The evidence from eleven OECD countries suggests that workers react rationally and exit the labor force at a younger age if it is to their advantage economically (Gruber and Wise 1998). It is now generally recognized that the de facto retirement age has to increase in the coming decades and that this can only be accomplished by changing benefit systems in the direction of actuarial neutrality with regard to the timing of retirement and life expectancy at retirement. This has led countries to move in the direction of lifetime accounts, and some (in Europe Italy, Latvia, Poland and Sweden) to introduce life expectancy as an explicit determinant of annuities.

What has happened with the goal of alleviating poverty among the aged? As income grew rapidly, especially during the first 25 years beginning with the period of reconstruction, it was possible to transfer increasing percentages of GDP from workers to pensioners. Financing improved benefits was not so difficult because people spent more of their adult lives working, and less in retirement. As schemes matured the relative income status of pensioners became increasingly better.

By the mid-1990s poverty among pensioners was low in the OECD. Measured as 50 per cent of median disposable income adjusted for household size, a little under 14 per cent of persons 65 and older were in poverty (Förster 2000). At one extreme, represented by Canada, the Netherlands and Sweden, the poverty rate among persons 65 and older was only 3 per cent using the 50-per-cent of median-income measure. Interestingly, countries achieved similar results with rather different mixes of private and public (OECD 2000).

There is variation in the poverty results within the OECD. For example, in the US, with a less generous safety net, considerable immigration and a larger spread in the distribution of income around 20% of persons 65 and older were in poverty in 1993 according to the Förster study. However, poverty in the US defined as 50% of median income provides a standard of living that is high compared to poorer countries both within and outside the OECD. Keeping this in mind, we note that the poverty rate was also around 20% in Turkey and 30% in Greece.

Systems in some countries required only 20 –30 years of coverage for a full DB benefit.

In sum, in the OECD, systems that were originally designed to provide better benefits to persons retiring in the initial decades after the war, because of transition rules, work patterns and lower life expectancy, were affordable up until the 1990s. The life-course model - with its three phases of education, work and retirement - produced lower de facto retirement ages, which combined with increasing longevity increased the retirement phase. As a result pension costs rose dramatically, with prospects of even more significant changes to come as population aging continued. In conclusion, countries succeeded in transferring growing prosperity to the elderly, but at the same time system design and tax rules were working in the wrong direction for financial sustainability. By the late 1980s it was clear that many OECD countries needed to reengineer their pay-as-you-go systems.

3. Latin America Compared to the High-income Countries in the 1990s

In the half century after the second world war, the high-income countries of the OECD³ moved from industrial to post-industrial economies, characterized by a high degree of urbanization with formal market economies, decreasing reliance on extended family structures and increasing female labor-market participation. These economic and cultural trends were bolstered by well-functioning legal institutions and efficient government administration of taxes, contributions and transfers. There are some similarities, but also some important differences between the high-income OECD countries and Latin America in these respects. We consider some of these here.

As a rule, universality is a key feature of pension schemes in just about all the OECD, although the term "universality" has admittedly different meanings in different countries. Some OECD countries have special regimes for various occupations, including the self-employed. An example is Italy, which, in addition to special treatment of the self-employed, had pay-as-you-go occupational schemes that ceased to be self-supportive financially. In the 1990s, Italy has moved increasingly towards true universality – including encompassing the self-employed. Others make no exceptions (e.g. Scandinavian countries, the UK and the US). Also, Australia and Ireland differ in that they have employer-based schemes. In Australia these became mandatory in 1992, but still backed up by a public safety net.

Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Ireland, Italy, Japan, the Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, the United Kingdom and the US.

Compliance in high-income OECD countries has been facilitated by the growth of large and medium size business and government employers, and the decline in self-employment. As the labor market moves towards looser contractual arrangements and with a movement away from contracts in the new century, the OECD may also be facing an environment in the future that will make evasion easier. Legitimacy of the public pension system depends on a public opinion that people are paying their fair share. The implication of the informal economy (non-compliance) is that some pay, usually through their employers, while others – in the informal economy – do not and that in the long-run those who do pay also bear the cost for those who do not pay. Systems that strongly link benefits to contributions are attractive because they underpin legitimacy for those who pay.

Pension systems in many of the countries of Latin America are in principle universal, as in Europe and North America, but low compliance and the informal economy have meant that coverage is low in practice. The average rate of informality in Latin America is 27%, but it varies greatly between countries within a span of 10 to 60% (IDB 1998). Increased formalization can both increase and decrease inequality, depending on the point of departure. Formalization may increase inequality up to a threshold, from which continued improvement contributes towards reducing inequality. The IDB estimates this threshold at about 25-30% informality. According to the IDB study, roughly half of the Latin American countries are now in the region where increasing formality can be expected to reduce inequality. In other words taxes, contributions and transfers are either neutral or progressive – with redistribution to the poorer rather than the richer.

The financial account systems that have become so popular in Latin America during the 1990s, but also the notional defined contribution (NDC) account schemes that have entered the European scene during the same period redistribute the participant's individual resources over his/her lifetime. In principle the tax wedge of traditional public DB schemes has been eliminated, i.e. benefits are directly linked to contributions. The corollary to this is that redistributional policy is moved to the general tax-transfer system.

The financial account schemes introduced in many Latin American countries in the 1990s constitute a vehicle for transferring individual resources over the life cycle, but are also a means for developing financial markets (Holzmann 1997). What Latin America may still have to learn from Europe is that the pay-as-you-go schemes can also be designed to emulate financial account systems, when designed as NDC account systems.

The structure of production and degree of urbanization in Latin America is surprisingly close to that in the high-income countries (Table 1)⁵ and from this point of view alone, and where the two groups of countries differ is mainly on points important for pension financing: The growth of the labor forces is much higher in Latin America, coupled to the fact that the fertility rate is still well above two children per woman. The latter means that Latin America will continue to generate an expanding labor force for some time to come. The former means that there is still considerable latitude for increased female participation in the work force. On the other hand, as women focus more on careers and their own earnings, the evidence from the OECD shows it is likely that they will give birth to even fewer children. In sum, compared to the OECD, the demographics say that Latin America is much better situated for the first quarter of the 21st century, but with declining fertility even Latin America will inevitably have to be face the picture now confronting the countries of the OECD, although much later.

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Note that inequality as measured by the Gini coefficient is typically under 0.3 in the high income countries, where markets are formalized, but is typically around 0.5 or higher in Latin American countries.

Table 1
SOME FACTS ON THE HIGH-INCOME AND LATIN AMERICAN COUNTRIES IN 1970^a

	Indicator		income ntries		erica and bean
2.	Structure of production Agriculture Industry Services Labor force Average annual growth ,% Employment Female share of labor force Urbanization As % of total population	1970 12% 35% 53% 1980-93 0.7 1970 36% 1970 74%	1993-2000 0.3 1993 38% 1993 78%	1970 4% 38% 58% 1980-93 2.5 1970 22% 1970 57%	1993-2000 2.3 1993 27% 1993 71%
5.	Fertility rate	1970	1993	1970	1993
		2.3	1.7	5.2	3.1

Source: ^a World Development Report 1995. Workers in an Integrating World. World Bank. Oxford University Press, 1995.

Another feature distinguishing Latin America from the OECD is the relative prevalence of extended households. In the US, for example, only about 15% of the population live in extended households, whereas around 30% live in single person households. In Latin America the picture is very different. From 40% (Brazil) to 55% (Argentina, Peru and Venezuela) of the population lives in extended households, and only around 5% live in single person households (IDB 1998). This suggests that transfers within the extended family are important in Latin America, and that they play a major role in alleviating poverty, and especially poverty in old age. With continued economic growth and increased formalization, the situation in Latin America may come to resemble more closely the present situation in the high income countries of the OECD, although whether people choose to live in extended families even if they are affluent enough to live on their own is a separate, cultural question, with considerable variance even within the OECD.

In sum, Latin America has the prerequisites for productivity growth in the coming quarter century, through growth of human capital. Labor force growth will augment this. The challenge will be to bring the entire population into this growth process, and include them within the institutions of the formal economy, and pension systems that transfer individual resources over the life cycle. The process of formalization implies inclusion of most of the population in systems that transfer individual resources over the individual's own life cycle. In the high income countries of the OECD, economic growth has been a prerequisite for successful reduction of poverty in old age, but highly formalized labor markets with high tax compliance and legal structures to facilitate this have also played a major role.

In this context high income countries are: New Zealand, Ireland, Spain, Israel, Australia, Hong Kong, the UK, Finland, Kuwait, Italy, Singapore, Canada, the Netherlands, the United Arab Emirates, Belgium, France, Austria, Germany, Sweden, the US, Norway, Denmark, Japan and Switzerland. The data is rather old, from 1970, and it is likely that the regions have become closer since then.

4. OECD Storm Clouds: Lessons for Latin America?

The focus of the discussion on public pension schemes in the OECD shifted gradually from adequacy to financial sustainability and intergenerational fairness. By 1990, much of the OECD was discussing pension reform, focusing on these two issues. The discussion and the measures taken by countries to deal with concerns about financial sustainability and fairness may provide some important insights for Latin America.

The logic of PAYGO systems is straightforward: Increases in outlays must be accompanied by additional financing in order to maintain financial balance. In a stable setting with no changes in fertility, age-specific mortality and net immigration, the population size and composition would remain static. If, in addition, the work patterns and the age-structure of labor participation were to remain unchanged, old-age PAYGO systems would not encounter serious long-run financial strain. The financial future of OECD's DB PAYGO systems began to be called into question because these parameters were all changing, and projected to continue to change in the direction of increasing financial strain on schemes. Fertility has fallen well below the level needed to reproduce the population, mortality is improving and the labor force participation of older workers, especially men, has been declining.

Because of low fertility rates labor-force growth will turn negative within the coming decade and remain so in most of highincome OECD. In fact, even if fertility rates were to increase to the over 2 children per woman needed to reproduce the population within the next decade, this incremental growth would not reach productive age until 2025-2035. It is estimated that Europe may need to encourage net immigration of around 30 million persons in the next three decades to retain a labor force of close to its present size. The problem will not be resolved in the long run, however, even by a once and for all increase in the number of people of working wage. As long as the overall fertility rate remains below the level needed to reproduce the population, permanent net immigration will be necessary in order to maintain a labor force of a given size.

Although real GDP grew at around 3% from 1970 through the mid-1990s (World Bank 1995), the growth in the contribution base was not high enough to keep contribution rates PAYGO systems from creeping up to cover cash flow deficits. By the 1990s, high and increasing contribution rates created concern not only about the future cost of pensions and the long-term sustainability of commitments based on current rules, but also about the long-term effects of high contribution rates on employment and compliance. The former due to the tax wedge built into traditional DB systems and the latter because where opportunities exist to avoid paying contributions, individuals and employers will be more inclined to seek out these avenues when contribution rates are high.

The greatest pressures on OECD PAYGO old age pension schemes comes from the trend of increasing longevity and the tendency for older workers to leave the labor force earlier – frequently using the public disability system. In the OECD, people over 60 are projected to increase from around 20% of the population at the close of the century to 27% in 2020 and 30% in 2030 (Table 1). Longevity has increased at different paces in OECD countries, and, has increased faster for women than for men. However, men have recently made rapid gains with major breakthroughs in cardiovascular treatment, and these gains have yielded quality life years.

For example, in Germany, Sweden and the United States, the average gain in unisexual life expectancy at age 60 has been about one year for every ten years that have passed since 1960. In Germany this means that life expectancy increased from about 17 to 21 years from age 60, in Sweden from 18 to 22 years and in the US from about from about 17.5 to 21.5 from age 60. In Japan the increase has been from a little over 16 to over 23 years! Demographers expect longevity to continue to increase at about the same rate, although this may be conservative, since this sort of estimate is based largely on historical developments rather than an assessment of the net impact of new medical technology and changes in living habits.

Table 2 SHARE OF THE POPULATION OVER 60

	2000	2010	2020	2030	2050
OECD	19.9	23.1	27.0	30.7	31.2
Transition Countries	17.0	18.2	21.5	22.7	26.6
Latin America	7.7	9.3	12.2	16.0	23.5
Asia	7.3	8.6	11.6	15.0	20.7
Middle East and North Africa	7.3	8.1	10.0	12.4	18.1
Sub-Saharan Africa	4.4	4.5	4.9	5.9	9.9

Source: World Bank 1998.

The following formula is helpful in illustrating the PAYGO predicament:

Contribution
$$rate = \frac{\frac{-}{p}}{w} * \frac{pensioners}{contributors}$$

If we want to maintain a target ratio between an average benefit (p) and an average wage (w), in order for the contribution rate to remain constant, the number of contributors must increase at the same rate as the number of pensioners. If longevity is going to increase at the rate of one year for every ten years that pass in the future, then this is an increase of 20 - 25% in the next 40 years. With a constant number of contributors this means the contribution rate will have to increase by the same percentage. The problem is that the growth of the native-born labor force will be negative, and if the trend in increasing disability take-up continues, this will become even worse. In sum, OECD cannot afford a shrinking workforce if average pensions are to maintain their present status with respect to an average wage – if contribution rates are to remain close to present levels.

There is considerable downward pressure on the age of exit, too. In many countries, workers and employers have taken advantage of the generous seniority rules within old age systems and seemingly open-ended disability systems for older workers. The result is that the average age at which people leave the labor force has fallen in the past three decades, as we have already noted. Although the retirement age for a full old age benefit in many OECD countries is typically 65, the average age at which people left the labor force in the mid1990s was as low as 56-57 for women and 59 for men.

There is considerable evidence that indicates the trend towards earlier exit is not justifiable in the high-income OECD countries on health grounds. As a rule, industrial work environments have improved greatly in the past half-decade, and on top of this, only around a third of the work force has been employed in industry. Disability grants have increased dramatically over the past three decades (e.g. Aarts, Burkhauser and de Jong 1996), while the percentage of persons with physically demanding jobs has been relatively constant or decreased (see for example Steuerle, Sprio and Johnson 1999 for the US and NSIB 2001 for Sweden).

In part, the early exit of older workers is determined by economic incentives. This is the theme of the study edited by Gruber and Wise and already referred to above. There is another force behind the increase in disability grants to older workers when employers need to slim down their workforce. Especially in Europe, there seems to be a general consensus between the social partners (management, unions and government) that disability is a legitimate exit path for older workers. As a result of this implicit consensus employers, with the support of unions, are not especially interested in paying attention to the work environment and on-the-job training of older workers. This, even though on average the special requirements of older workers are few and inexpensive to provide (Ilmarinen 1999). The gain to employers of laying off older workers is a social welfare loss for the nation. There are fewer people employed and those who have employment have to pay higher taxes to support the early exit of the others. The gain to employers is myopic, too. With scarcity of labor this behavior depletes the supply and increases the cost of labor.

In sum, longevity increases, declining fertility and the current practice of pushing older workers out of the workplace are all working in the wrong direction for pension finances. The latter tendency may undermine the true purpose of disability, which is to provide satisfactory income maintenance for persons with severe illnesses and injuries. In sum, adverse demographic change and cost-push effects of generous systems overly utilized have been the driving forces behind OECD reforms during the 1990s.

5. The Emergence of Pay-as-you-go NDC

The goal of reforms in the 1990s in the OECD has been to create better *inter*generational fairness. This has been accomplished by shifting more of the risk to workers while they are working, by moving towards lifetime earnings as a basis for benefit calculation. The result is lower benefits for less work, but also usually actuarial gains for remaining in the labor force.

A second goal has been to create greater *intragenerational* fairness. Schemes based on career earnings fulfil this goal, too. The PAYGO NDC scheme adopted in Italy (1995) and Sweden (1994) goes all the way and implements a full DC career earnings model that also accounts for changing life expectancy in the computation of the annuity.

What is NDC PAYGO? In the NDC PAYGO system wage earners pay contributions based on a fixed contribution rate and the value of these are accredited their notional accounts – this is the defined–contribution feature of the system. Contributions are paid on earnings as long as people work. The previous year's account values are indexed annually with a nominal per capita wage index in Sweden⁶ and GDP in Italy. Information about changing life expectancy and, given an individual's account record, its effect on an annuity claimed at a specific age, is available at any time in the Swedish administrative set-up. In other words, changing life expectancy is a parameter that

This will be supplemented, however, with a downside brake based on the contribution wage sum, and which will affect both the indexation of notional capital and benefit payments. (See Palmer 2000, Settergren 2001).

can be taken into account in individual decisions about when and how to exit from the labor force. In principle, the NDC structure makes it possible to claim any per cent of a benefit at any time after a legal minimum age for eligibility. People can combine a full or partial NDC benefit with work (and continuing to contribute and acquire new rights), and then get a recalculated benefit at some later date.

Finally, it should be pointed out that redistributional issues have not fallen out of the picture. All countries have of some form of guarantee and/or means-tested social assistance to provide in come support for the lifetime poor in old age.

6. Financial Account Systems

In the OECD of the 1980s, the UK was the only country to move part of the mandatory scheme from PAYGO to financial accounts. In 1992, Australia mandated existing employer-based private pension schemes, and in 1994 Sweden passed legislation mandating a financial account system on top of its new NDC system. The UK and Sweden kept the PAYGO foundations in their schemes. Australia kept its general revenue-financed support program for the elderly.

Other countries introducing financial account systems in the 1990s within the framework of the mandatory public scheme have kept large PAYGO first pillars, for example Argentina, Hungary, and Poland. Europe has not followed Chile in eliminating the PAYGO pillar, although both Hungary and Poland have adopted the Chilean administrative model in financial account system design. Sweden has not followed Chile in this respect either, however, and more recent countries legislating financial account systems have tended to follow Sweden (e.g. Croatia and Latvia) for design. In this section we explain what lies behind the path taken in Europe.

Sweden kept a large PAYGO component – with the distribution of the overall contribution rate between NDC PAYGO and individual financial accounts of 16% and 2.5% -, but topped up for a large part of the workforce with newly established occupation-based financial account systems with additional contribution rates of 2-4.0% (e.g. 3.0% for blue collar workers). Thus, for example, a young blue-collar worker now has a total contribution rate of 65 in individual financial accounts.

Since 1992, employers in Australia have been required to arrange a pension account and contribute a minimum percentage (rising from 3% in 1992 to 9% in 2002) into it for employees. People can supplement on a voluntary basis. About 35% of the self-employed and 95% of full time employees are covered. Coverage of all employed was about 80% in 1995.

A. Financing the transition to financial account systems

Why haven't more countries followed Chile and eliminated the PAYGO pillar altogether? There are at least two reasons. First, in the years prior to the reform Chile cut public expenditures creating a surplus of 5.5% of GDP, which was used to cover most of the transitional debt. Only about 1.5% of GDP per annum represented a double burden. Neither Australia nor Kazakhstan had large PAYGO commitments to replace to begin with, and thus were not confronted with the conversion problem. In the case of Australia, the reform of 1992 simply *mandated* employer-based schemes that were already relatively widespread. The mandate meant that all employers were obligated to set aside funds for their employees and that the contribution rate for these had to follow (at least) the mandate.

The OECD and transition countries, but also some Latin American countries, are demographically older than Chile at the time of its reform. In the OECD acquired rights are considerably greater. The acquired rights that would have to be monetized with a large or complete shift to financial account systems would be substantial, as would be the tax required to do this.

There is a second, more fundamental reason why countries reforming after Chile have chosen not to leave their PAYGO system entirely. Both the PAYGO and financial account systems are associated with downside risks, and combining the two pillars in the social security portfolio provides better security. In Europe Sweden and Poland¹⁰ argued along these lines.

How have countries found the means to introduce advance-funded systems? Various mechanisms have been employed to phase in second pillar financial account systems. These include reducing PAYGO commitments to pensioners – usually through changing indexation formulas; reducing PAYGO commitments to present workers – by tightening benefit rules; taking advantage of demographic cycles; moving other assets into the pension system to help finance the transition; collecting more contributions are credited to individual accounts, i.e. taxation; and reducing other forms of government consumption spending (creating a budget surplus to help finance old PAYGO commitments) (Fox and Palmer 2001).

Many reforms introducing financial accounts have taken advantage of more than one of these at the same time. A typical combination consists of reducing commitments to present workers, taking advantage of demographics and partially financing through taxation. The first has been accomplished by moving in the direction of career earnings in the PAYGO benefit formula, increasing the pension age for a minimum and/or full benefit and in the case of countries introducing NDC schemes, taking life expectancy at retirement into account in computing the lifetime benefit. Examples are Hungary, Latvia, Poland and Sweden, but only the latter three have implemented NDC schemes. Countries take advantage of demographics by reforming in good time before a large birth cohort becomes pensioners. This is a typical advantage in Eastern Europe where the babyboom came around a decade later than in the OECD. Finally, some countries in Europe, like Chile, have accepted that the introduction of a mandatory financial account system may need to be tax financed, at least to some extent.

Bolivia and Poland are examples of countries that have moved other assets into the system. In Sweden large PAYGO reserves will help pay for the baby-boomers of the 1940s, thereby keeping transition costs within a fixed contribution rate for the NDC PAYGO and funded pillar together. The introduction of NDC reduced future commitments in Sweden by about the amount needed to phase in the financial account system, reducing benefits in the PAYGO scheme for younger cohorts but giving them a larger share in the new financial account system.

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⁹ Valdés-Prieto 1997, p. 205. Note that his is 3.75 per cent of the covered wage bill, assuming covered wages are 40% of GDP.

The slogan for the Polish reform was Security through diversity.

In Chile, Australia, and Kazakhstan financial account systems are combined with various guarantees. In Australia, there is a universal means and asset tested income floor. Chile has a minimum pension guarantee for covered workers plus social assistance for the poor who are not covered. Kazakhstan, also has a minimum pension guarantee for covered workers.

Finally, we note that there are some implicit costs of reform that countries may have underestimated. In countries where coverage is low, the future cost of the guarantee could be substantial, implying an increase in the tax rate on future workers. Even in countries with guarantees, costs may be underestimated too. For example, the minimum guarantees in the UK and Sweden are price indexed. In the UK there is already pressure to increase the floor. On the other hand, the argument for separating out redistribution from social insurance is that proposals to change guarantees can be weighed against alternative uses of taxes within the normal political process.

B. The construction of financial account systems

Chile (1981), the UK (1986), Australia (1992) and Sweden (1995) represent four models of how to set up financial account systems that have evolved in the past couple of decades. Countries introducing advance funding in the 1990s have tended to follow one of these. There are several issues that come up in designing financial account models. Some of these are categorized in the following table taken from and discussed in Palmer (2000). These are summarized here.

An issue often raised is whether a social insurance system should allow people a free choice of funds, or restrict choice, for example to a small number of index funds. This is a point of view put forward by a number of economists in the US who believe that the US old age social security system should be totally or partially redesigned in the direction of advance funding. The logic of this point of view is first that this minimizes the risks if individuals are allowed to make their own fund choices, while yielding a market index return. In order to minimize administration costs, fund(s) managing the assets of the scheme would be procured through a bidding process. In one version of this model workers would be allowed to mix bond with stock portfolios. In the most extreme version of this model they would be mandated to participate in a single portfolio, with no possibility for individual choice.

The argument in favor of free choice of funds, as in Sweden, is that the state does not need to be paternalistic, other than to guarantee through supervision of funds that they operate within the limits of good practice. No fund can consistently lose money while the majority are making positive earnings and hold participants. They will be well informed through mass media and will choose funds offering positive returns. In other words, people can make informed decisions. The bottom line is nevertheless that the returns of neighbors can diverge, and considerably. Those who argue for the limited or single fund model argue that people find it difficult that the returns of separate funds can differ. What they seem to forget is, however, that this must always arise across age cohorts even if everyone is in the same fund, simply because not everyone has the same investment period in the unified fund (Palmer 2001).

At the end of the investment period, individuals would be allowed to purchase an annuity with their accumulated pension capital. Here arise also a number of alternative models. Annuity products could be offered through a monopoly provider or private companies providing annuity products mandated in law.

How have models been designed (see e.g. Palmer 2000 and Fox and Palmer 2001)? The first issue is *who chooses the fund manager*, the worker or the employer? In Chile, the UK and Sweden, the choice has been given to the worker. In Chile, each participant has one fund. In Australia and

the UK, the employer chooses the fund manager, however, the employer can contract a fund manager with several funds among which individuals can choose. In the UK, the fund manager that the individual contracts with may have more than one fund to choose among. In Sweden, people are presently limited to 5 fund choices among several hundred registered funds.

A related issue is *who chooses the annuity provider*? In Chile, Australia and the UK the individual him/herself chooses among a number of possible providers. In Sweden, the government provides the annuity products. The Chilean, Australian and UK models follow more closely the traditional insurance approach, whereas Sweden has chosen to privatize savings during the accumulation period, allowing people to choose just about any sort of fund, while the annuity products are standardized for all.

Annuity products differ also. In Chile, Australia and the UK, annuities are gender specific, whereas in Sweden they are based on unisexual life expectancy. The Swedish model involves redistribution from men to women, which is consistent with the European court ruling on gender with regard to social insurance benefits. All but Sweden allow lump sum benefits to be taken. The question is whether a lump-sum benefit is consistent with the principle of social security, that is, to provide income protection throughout a pensioner's life.

Countries introducing individual financial account systems after Chile have been aware of the high costs of administration incurred by the Chilean system and have attempted to hold back costs with alternative forms of administration. A first step in this direction is to centralize *collection of contributions*. This was an obvious choice in Sweden. Contributions for social insurance were already collected by the tax authority. Collection of contributions creates essentially no marginal cost.

The remaining marginal cost is that of transferring information and money into to the fund managers. Sweden created a clearinghouse to direct the contributions to the participating funds and perform net transactions on behalf of all fund participants vis á vis a specific fund. In all the other three models either individuals or their employers – or both – deal directly with the fund managers.

Another question is who should *keep the accounts and send out statements*? In Chile, Australia and the UK the private manager does this. In the Swedish clearinghouse model a public agency (the same agency that provides annuities) does this. The clearinghouse model provides an efficient method for executing transactions with individual fund managers, since the agency can aggregate all sales and purchases in a transaction day in a single transaction.

Table 3
MANDATORY FINANCIAL ACCOUNT MODELS AT THE TIME OF THE SWEDISH REFORM
AND THE SWEDISH MODEL

	Who chooses fund manager?	Who collects contributions?	Who keeps accounts/sends statements?	Number of Who chooses the funds?	Who chooses annuity provider?	Insurance provider(s)	Benefit forms
Chile 1981	Worker	Private manager	Private manager	Each manager has one fund. becomes the worker's fund.	Retiree	Choice of leaving the account with the same manager or purchasing an annuity from an insurance company.	Gender annuity programmed withdrawal pensionable age. A withdrawal can exchanged for an annuity.
Australia 1992	Employer	Private manager	Private manager	If the manager chosen by the employer has more than one fund, the worker chooses the fund.	Retiree	Choice of leaving the account with the same manager or purchasing an annuity from an insurance company.	Lump sum or gender specific annuity from age 55. Survivor bene if the institution allows it.
UK 1986	Worker	Tax authority	Private manager	Managers provide more than one fund choice. The worker chooses the fund.	Retiree	Choice of leaving the account with the same manager or purchasing an annuity from an insurance company.	Up to 25 % lump sum and/or gende specific annuity from pensionable age to age 75. Possible survivor benefit.
Sweden 1995-2000	Worker	Tax authority	A public agency, which is a part of the social insurance organization, operates as a "clearing house" between individuals and funds.	among (several hundred) registered	Government	State monopoly/part of social insurance organization	Unisexual annuity partial or full from pensionable age. Possible survivor benefit.

Source: Palmer 2000.

In sum, OECD has not followed Chile in attempting to rid itself of PAYGO schemes and introduce financial account schemes. The one exception, Australia, did not have a PAYGO system to begin with, but had an extensive general-revenue financed safety net that should be expected to become smaller as the newly mandated employer-based financial account schemes mature. The traditional OECD countries have large acquired PAYGO rights, compared with Chile at the time of the Chilean reform. To date, this has cooled the interest in mandating financial account systems. Where financial account systems have been introduced, younger generations have traded rights in the PAYGO scheme for rights in the financial account scheme. What European countries that have introduced financial account schemes have done is to mix these with PAYGO, diversifying participant risk between economic and financial rates of return.

7. Poverty and Women

One of the strengths of post-war OECD systems has been the poverty reduction impact. Most of this can be attributed to the high coverage level. Two other factors are also important; (a) the special provision for women, and (b) the added safety net factors. The expansion in coverage of OECD systems took as <u>a</u> starting point the need to provide income security for families, especially widows. System designs usually included the following additional benefits, which almost exclusively benefited women:

- Survivor's benefits, for a spouse with no pension or a lower pension, and for minor children until they reached maturity or graduated from school (to replace the loss of a the main breadwinner's income or pension);
- Pension credit for time out of the labor force having children (to boost the pension of women who are in the workforce except during the time of raising children); and
- For funded systems, unisex annuities in a DB or DC scheme (compensating women for a longer life expectancy than men).

These factors have been important in reducing the poverty rate among the aging population. Many systems originally included a lower retirement age for women as well. These were put in place because women tended to be a younger than their husbands, and it was considered desirable to have both partners retiring at the same time. For women, this provision was a mixed blessing. In DB systems with low eligibility thresholds, it was redistribution to women. In systems

where benefits are tied tightly to contributions, this provision can result in lower pension for women owing to a shorter time of contribution.

Poverty reduction is also achieved through targeted redistribution in old age systems. All OECD systems include some type of minimum pension.

In some cases, this is a demogrant, providing a minimum income floor for all those above retirement age, regardless of contributions (Sweden pre-reform system, Denmark, Australia, New Zealand, US). In other cases, it is a minimum pension with a years-of-contribution eligibility requirement. The purpose of minimums with an eligibility requirement was twofold: (a) they increased incentives to participate for lower income workers, increasing coverage and thus public support for the system, and (b) they reduced poverty.

The European reform trend toward a stronger link between contributions and benefits has changed, but not eroded many of these benefits. Most systems have retained a minimum benefit. For women, non-discrimination statutes are causing most countries to equalize retirement ages. However, the same statues are requiring unisex annuities, which is a transfer especially to single women (for married couples, it is effectively an intra-household transfer if survivor benefits are in place). Many countries are keeping the child care pension credit in public systems (although not in occupational systems). In Sweden the childcare credit is paid for by a transfer from the general budget to the social insurance budget so that the funds are even available for investment into the mandatory funded DC system. In Sweden, the high labor force participation of women, as well as more equal wages between men and women and the child care credit to compensate women for time out of the labor force is expected to lead to a fairly equal distribution of pensions and adequate protection for women. As a result, Sweden is gradually eliminating the survivor benefit for spouses in the PAYGO system, but has given participants in the financial account system a choice of a joint annuity.

Finally, most OECD countries have social assistance systems providing benefits in cash and in kind which offer the ultimate social safety net. These are being eliminated. On the contrary, the move toward contribution-related pensions is expected to make these systems more important, not less important, over time.

8. Lessons for Latin America

For reasons quite similar to those of European countries, Latin American countries have been moving away from redistributive DB systems toward contribution-related systems. The goals has often been the same:

- reducing future expenditures through raising retirement ages.
- reducing moral hazard.
- increasing public savings.

A number of important differences have emerged, however, between Latin America and European reforms. First, European countries have retained a stronger PAYG component than, for example, Chile and those countries in Latin America which followed the Chilean model. Second, the antipoverty component has been maintained, but the redistributions are more targeted, and are low cost, owing to the high overall coverage rate. Third, European countries have maintained or encouraged supplementary occupational systems. Fourth, they have continued to include special protections for women. Fifth, they have been looking for a way to wholesale fund management, realizing economies of scale in this key area.

The dream elaborated by Jose Piñera, to close down the public PAYGO system, is not one shared by the majority of voters in Europe today. European voters continue to value the public pension system for several reasons. Unlike in Latin America, it has provided adequate pensions for most households, thus preventing deprivation among older households. Younger as well as older voters value this. The movement to individual accounts is a politically acceptable reform of

PAYGO because in Europe, with near universal coverage, and more equal lifetime wage distributions, an individual account system will still provide adequate old-age security. Maintaining partial PAYGO allows European systems some flexibility in the case of further shocks, and allows some redistribution (toward women and the lifetime poor) to continue at a fairly low cost. A system which mimics in the distribution of pensions, the distribution of wage and salary income, is broadly acceptable, because the underlying distributions of income are more equal.

In most Latin American countries, the distribution of income is much more unequal. Macroeconomic shocks are greater and spells of unemployment tend to be more frequent. As a result, pensions based on contributions alone may not be adequate for old-age security. The contribution-based pension model, with a retirement age life expectancy of about 12-15 years, is affordable on a fully or partially advanced funded basis for most countries. It should provide adequate protection against poverty for those who contribute for about 40 years. The problem is the uncovered population, or the partially covered population -- those with long spells out of coverage due to timeout of the labor force to raise children, unemployment or time in the informal sector, between formal sector jobs. The main issue is how to increase the coverage and thus the old-age security for the rest of the current workforce. This most likely requires some redistribution, which a pure individual accounts system can not provide.

European systems expanded coverage during a time of low public debt, low salary and income inequality, rapid wage and labor market growth. They did this through low eligibility requirements and minimum pensions. These policies were intragenerational and intergenerational redistributory, the latter because of the PAYGO financing. As coverage expanded and the population matured, these policies became too expensive. As we have seen above, the story of the 1990s is the scaling back of this redistribution (now that coverage is near universal). Minimum pension policies now tend to be more targeted at the lifetime poor.

Latin American economies do not currently have this fortuitous configuration. Although the labor force is growing rapidly, real wages have not been rising rapidly in most countries except Chile, and income inequality is high. Public debt is also high, in part because of the need to pay down generous pensions granted under the old system. As a result, significant redistributions would be quite expensive if adopted now with PAYGO financing (as some countries have already experienced).

There may, however, be some scope for increasing coverage and poverty alleviation through limited redistribution. Chile, for example, provides a guaranteed minimum pension given 20 years of coverage. Bolivia provides the 'Bonosol' a demogrant given at age 65. Other countries could consider using privatization revenues to provide a guaranteed minimum, perhaps requiring only 10 years of contributions but a high retirement age. The key in enacting such a policy is (a) to keep the guarantee low; and (b) to keep the retirement age high. If not, the incentive to contribute is eroded and the cost becomes unaffordable.

Another way to keep the public system affordable is to develop a complementary occupational pension system, outside the public system. Schemes inside the public system are a bad idea, as they in general tend to transfer tax revenues from the poorer households to the richer ones. However, privately organized schemes (including those organized by unions) can release pressure from the public schemes. They can (a) be a bridge to the public scheme in the case of early retirement, and (b) can be a solution to the problem of special groups (such as teachers or civil servants). Two lessons from Europe emerge, however. First, in the case of either DB or DC, these need to be regulated carefully. Second, DC pensions are more affordable, easier to regulate, and facilitate labor mobility and economic restructuring.

Pensions have been an important factor in keeping many widows and single elderly women out of poverty. Individual account systems, which provide less redistribution, may reverse this. Adopting the European approach to gender issues in pension would help Latin American systems reduce poverty. Most countries which now have individual account systems, also provide a lower retirement age for women. As noted above, in a contribution-based system, this will lead to lower pensions for women, especially when combined with gender-specific annuities. As a result, many women will find themselves collecting the minimum pension if they collect any pension at all. Survivors pensions and joint annuities will help to counteract this trend.

9. Summary and Conclusions

There are important differences in the economic histories of the Latin American and European countries, and these have shaped the pension systems and the reform options as we move into the first half of the 20th century. In Europe, expansion of systems was closely tied to expansion of formal labor market participation. Universality of pension systems and other labor market institutions developed simultaneously, and as a result, inequality decreased. In Latin America, this did not occur. As a result, attempts to provide universal coverage through contributory systems did not work. Expansion required large, and unsustainable public transfers. In addition, Latin American systems developed some of the same early exit problems of European systems, but financed through a much narrower contribution base. Financial problems occurred much earlier, and were much stronger.

Latin America has learned that public pension system objectives and means need to be consistent with economic fundamentals in order to be sustainable. Latin American reforms have shown European countries new ways of reconciling pension systems to these fundamentals - financial DC individual account schemes. This approach has brought financial stability to Latin American pension systems. However, these systems effectively replicate the inequality of labor income into inequality of retirement income, and reflect the degree of formality of the economy. Increased poverty reduction may require increased attention to the causes of old-age poverty (low lifetime income, especially among women), and structured, low cost approaches to managing this risk, financed on a PAYG basis. These may include:

- increased transfers to formal sector women from men during the working years, so that retirement income will be adequate. This might include child care pension credits or unisex annuities;
- affordable minimum pensions (many Latin American systems now include these).
- affordable means-tested transfers to aging households.

However, all of these mechanisms need to be developed slowly and expanded gradually to avoid the unsustainability problems of previous attempts.

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