# Rebuilding Retirement Systems Post-COVID-19



© Olivia S. Mitchell mitchelo@wharton.upenn.edu



# Proverbial "3-legged Stool" of Retirement Security

- · Public Social Security:
  - Often PAYGO (tax financed)
  - Insurance element: get more if pay in more
  - Welfare element: redistributive
- Employer-sponsored Pensions
  - Defined Benefit (DB)
  - Defined Contribution (DC)
  - Hybrid
- Private Savings
  - Home
  - Financial assets



### Two Main Pension Types:

#### **≻Defined Benefit (DB):**

Benefit formula promised

e.g. B<sub>t</sub> =2%\*(Final Pay)\*(Years Service)

Ex: Brazil, US, most European national systems

#### **➤ Defined Contribution (DC):**

Contribution amount specified:

e.g. C<sub>t</sub>=6%\*current pay

Ex: Chile, Mexico, US 401(k) plans



→ Hybrid (Cash Balance) combine both...

3

## Why fund a pension promise?

### **Pros**

- May reduce uncertainty re future contributions
- Portfolio diversification
- Permits portability
- May deepen K mkt & enhance growth

### Cons

- Requires start-up group to 'pay twice' – support retirees and save for themselves
- Admin costs may be higher (maybe not)
- Governance of funds



Individual Accounts						
	NO	YES				
Funded	Govt PAYGO: US, most Europe	Notional accounts: Latvia, Sweden				
NO	Corp. DB: Germany	Lattia, Swaaii				
YES	Provident Funds: Singapore, Malaysia	Individual Accounts: US 401(k), Chile,				
	US corp./public DB (+/-)	Peru, Mexico, Australia, Sweden				

## FULL Funding for DB and DC...

Assets = Liabilities

DC full funding requires:

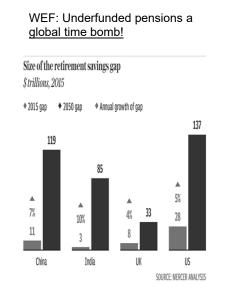
Assets = Current Account Balance DB full funding requires:

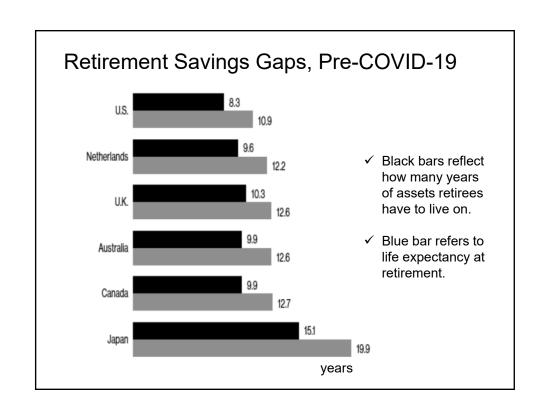
 Assets = EPV of Promised Benefits

→ Reporting and accounting rules play key role

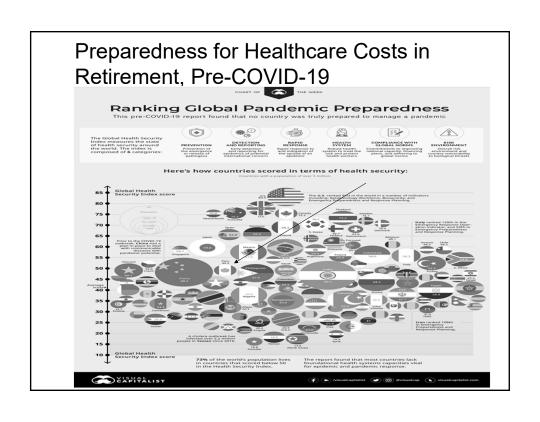
# Pre-COVID-19: Retirement Systems Not Healthy

- Social Security systems facing insolvency
- Private & public DB plans underfunded
- Low returns hurting DC plans
- Rising debt, falling saving

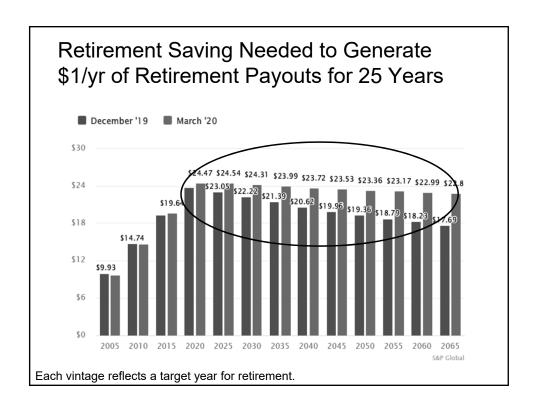


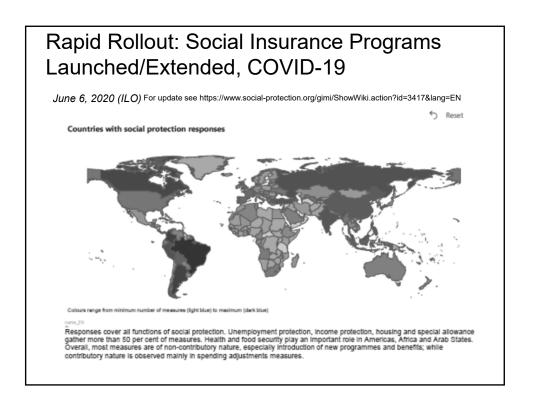


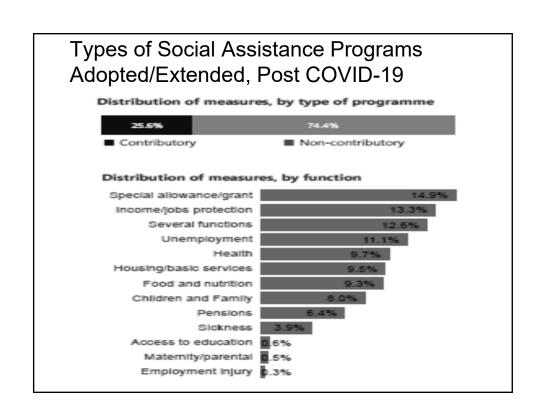
Grade	Countries	Descriptors
Α	Netherlands, Denmark	Robust, good benefits, sustainable, good integrity
B+	Australia	Sound but some areas for improvement
В	Finland, Sweden, Norway, Singapore, NZ, Canada, Chile, Ireland, Switz., Germany	
C+	USA, UK, HK, Malaysia, France	Some good features but also major risks, maybe not sustainable
С	Peru, Colombia, Poland, Saudi, Brazil, Spain, Austria, S. Africa, Italy, Indonesia	
D	Korea, China, Japan, India, Mexico, Philippines, Turkey, Argentina, Thailand	Major weaknesses, sustainability in doubt

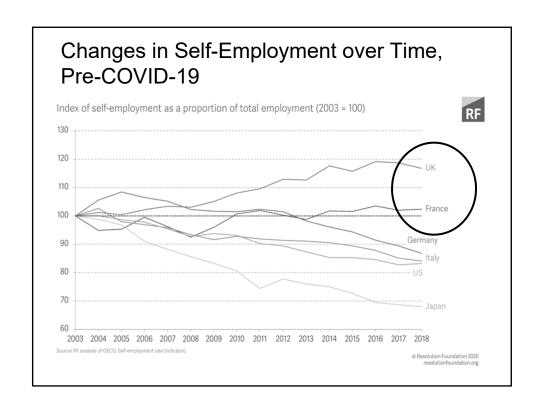


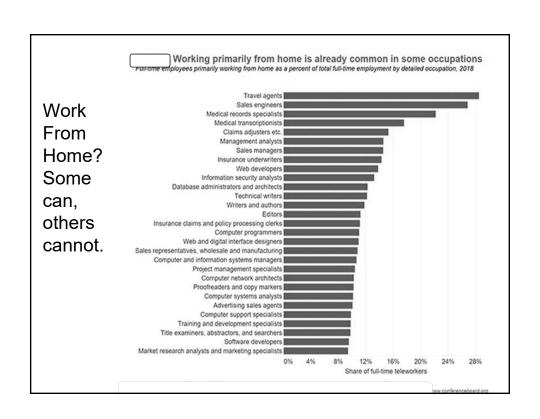
2019 2.9 1.7	2020	2021	impacts of
1.7	-4.9		
		5.4	impacts of
	-8.0	4.8	
2.3	-8.0	4.5	COVID-19:
1.3	-10.2	6.0	COVID-19.
0.6	-7.8	5.4	
1.5	-12.5	7.3	IMF
0.3	-12.8	6.3	IIVII
2.0	-12.8	6.3	
0.7	<u></u>	2.4	
			GDP in 2020
			<ul> <li>World -5%</li> </ul>
			110 00/
			• US -8%
			<ul> <li>UK -10 2%</li> </ul>
			• UK -10.2%
			• EU -8%
1.1	-9.1	3.6	<ul> <li>Russia -6.6%</li> </ul>
	-10.5	3.3	
-0.3			
-0.3 1.0	-4.7	3.3	<ul> <li>Dev'ping nations -3%</li> </ul>
			<ul> <li>Dev'ping nations -3%</li> </ul>
1.0	-4.7	3.3	<ul> <li>Dev'ping nations -3%</li> </ul>
1.0	-4.7 -6.8	3.3	<ul> <li>Dev'ping nations -3%</li> </ul>
1.0 0.3 3.1	-4.7 -6.8 -3.2	3.3 3.1 3.4	Dev'ping nations -3%
	0.6 1.5 0.3 2.0 0.7 1.4 1.7 1.7 5.5 6.1 4.2 4.9 2.1 1.3 0.1	0.6 -7.8 -12.5 0.3 -12.8 2.0 -12.8 0.7 -12.8 0.7 1.4 -10.2 1.7 -8.4 1.7 -4.8 6.1 1.0 4.2 -4.5 4.9 -2.0 2.1 -5.8 1.3 -6.6 0.1 -9.4	0.6

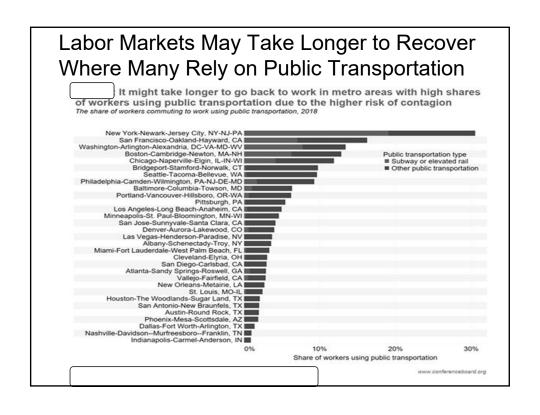






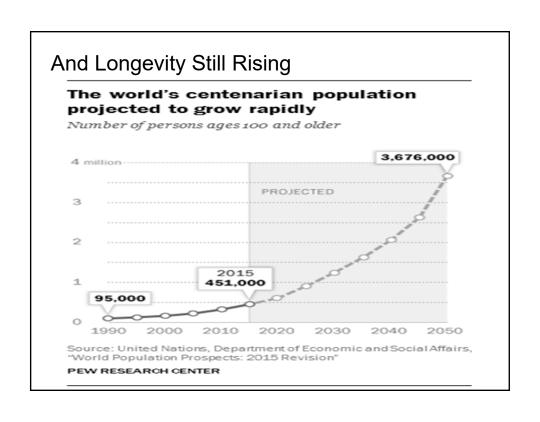


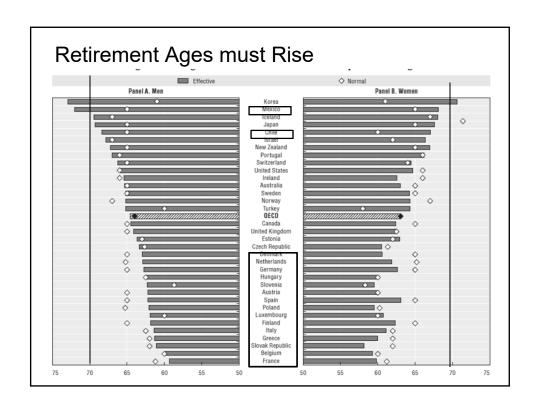


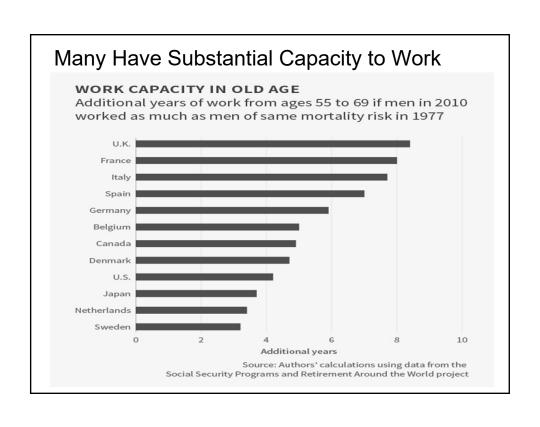


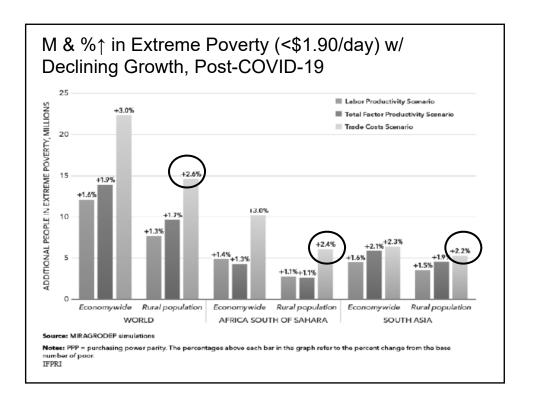


ŀ	How Much to Sa	ve for 50% RR?	
	Save for:	r=0.03	
	20 years	27.5%	
	30 years	16.5	
Pote <sub>1</sub>	40 years	11.11	









## To better manage retirement risk:



#### ❖Reinvent retirement!

- Build human capital and work longer;
- Invest in financial literacy;
- Save more, invest smarter, diversify better;
- Insure against longevity;
- Make home equity accessible;
- Restructure public/private pensions.

#### → New infrastructure needed to:

prepare/mitigate; better educate; & build better financial products and markets for an aging world.

### The Way Ahead:



- Who should manage the risks facing the elderly?
  - Individuals, families, employers, govt?
  - Funded vs pay as you go?
  - Pension vs health care?
- How much of GDP should go to the elderly and who should pay for it?
- How do we get to <u>political</u> consensus?

# International Pension Research Association (IPRA) <u>www.iprassn.org</u>

- IPRA is a new international organization seeking to improve the quality and impact of research on pensions and related aging issues, to optimize social and economic outcomes for an aging world.
- IPRA's vision is to be the global voice of research in the fields of pensions, aging, and retirement.
- IPRA's values are to promote breadth, originality, and challenging thinking, so as to foster respectful collaboration and engage stakeholders, and, by example, to support integrity and good governance.
- Join now online!

## Thank you!

For more information:

Wharton's Pension Research Council:

http://www.pensionresearchcouncil.org/

Books and working papers:
<a href="http://www.pensionresearchcouncil.org/publications/books.php">http://www.pensionresearchcouncil.org/publications/books.php</a>

