Bracing for the Silver Tsunami: Golden Dividends and Strategic Business Opportunities James H. Johnson, Jr. Frank Hawkins Kenan Institute of Private Enterprise Kenan-Flagler Business School University of North Carolina at Chapel Hill October 2016

OVERVIEW

- Global Aging & The Greying of America
- Key Drivers
- BIG Opportunities
- The Carolinas: An Ideal Innovations Lab
- Discussion

Signs of Global Aging

- In 2005, the ratio of children to seniors was 3:1; by 2050, the ratio will be 1:1.
- In 2000, close to one quarter of the population in Japan, Spain, and Italy was elderly.
- Close to one-half of their populations will be 65 or older in 2040.

Signs of Global Aging Cont'd

- Japan sells more adult diapers than baby diapers
- China has the 4:2:1 problem
- Today, 9% of the Chinese population is elderly (129 million)
- By 2050, the Chinese elderly population will total 330 million (25% of the total)—larger than the entire U.S. population today

Signs of Global Aging, Cont'd

- For the first time in 100 years, deaths exceeded births among U.S. non-Hispanic whites in 2011
- Today, 16% of the U.S. population is 65+; 26% will be elderly by 2040.
- Close to 40 million people in the U.S. provided unpaid eldercare in 2011 and 2012at an estimated cost of \$30 billion in loss work productivity.

Signs of Global Aging Cont'd

- 10 million millennials are caring for adult family members.
- 25 percent of U.S. caregivers are between 18 and 34 years of age.
- Google launches a medical company— Calico—to defeat death by prolonging life.

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Key Drivers

- Changes in Longevity
- Declining Fertility
- Population control policy
- Aging of Boomer Cohort

Average Life Expectancy through History Period Life Expectancy Cro-Magnon Era 18 The Renaissance 30 America in 1850 43 America Today 78 Developed World in 101 2030 Source: Arrison (2011)

Longevity Hot Spots

- Ikaria, Greece
- Okinawa, Japan
- Loma Linda, CA
- Nicoya, Costa Rica
- Sardinia, Italy

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China's	Total Fertility Rate
1975-80	2005-2010
3.0	1.6

TOTAL FERTILITY RATES FOR U.S. WOMEN BY RACE/ETHNICITY, 2012				
Ā	Race/Ethnicity Total	Fertility Rate		
	All Races	1.88		
	Hispanic	2.18		
U	Non-Hispanic White	1.76		
	Blacks	1.90		
5	Asian	1.77		
	Native American	1.35		

Industrialized Regions, 2050								
	1100	Total	3720	M199	Old Ag			
	Median	Fertility	Population	Population	Dependence			
Region	Age	Rate	> 60 (%)	> 80 (%)	Ratio			
World	38.8	2.0	22.0	4.0	42.0			
		Industria	lized Regions					
North America	43.6	1.9	30.0	9.0	61.0			
Western Europe	48.4	1.6	32.0	11.0	82.			
Eastern Europe	50.3	1.6	42.0	9.0	95.			
European FSU	49.1	1.6	40.0	8.0	90.			
Pacific OFCD	51.3	1.5	42.0	14.0	100.0			

Regions, 2050								
Total Old Age								
	Median	Fertility	Population	Population	Dependency			
Region	Age	Rate	> 60 (%)	> 80 (%)	Ratio			
World	38.8	2.0	22.0	4.0	42.0			
		Develop	ing Regions					
Latin America	38.9	2.1	22.0	4.0	43.0			
Central Asia	37.9	2.0	20.0	3.0	38.0			
Middle East	37.1	2.0	19.0	2.0	34.0			
North Africa	37.5	2.0	19.0	2.0	36.0			
Sub Saharan Africa	27.3	2.6	7.0	0.0	13.0			
China & CPA	47.7	1.5	35.0	7.0	73.0			
South Asia	37.0	1.9	17.0	2.0	31.0			
Pacific Asia	39.5	1.9	23.0	4.0	44.0			

Responses to Declining Demographics of Rich Counties

- "How to get people to have more unprotected sex," that is, "how to get them to have more babies"
- Fareed Zakaria GPS, June 14, 2015

Responses to Declining Demographics Cont'd

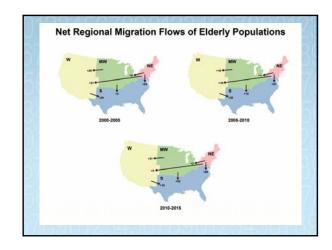
- France—paid family leave for parents & preschool for three years
- Denmark -- "Do it for Denmark" 10% of Danish children are conceived on vacations
- Japan—funding matchmaking events
- South Korea—trying to reduce price of weddings to encourage marriage

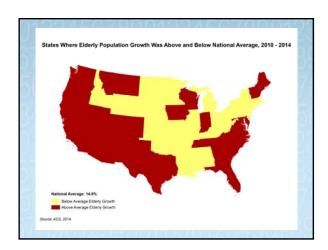
Responses to Declining Demographics, Cont'd

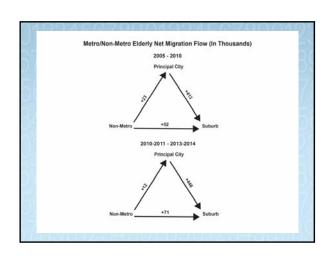
- A region in Russia encouraged citizens to "bear a patriot" in June 2012, on Russia Day, offering money, refrigerators, and even cars.
- Singapore encouraged baby making on its national holiday.
- China abandons its one child policy

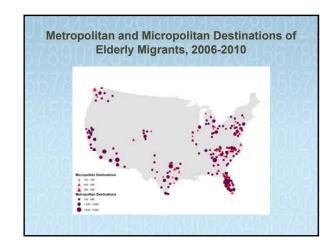
U.S. POPULATION CHANGE BY AGE, 2000-2010 Absolute Percentage Change 2000 - 2010 Change 2000 - 2010 2010 Age <25 104,853,555 5,416,289 5.4% 25-44 82,134,554 -2,905,697 -3.4% 45-64 81,489,445 19,536,809 31.5% 65+ 40,267,984 5,276,231 15.1% TOTAL 308,745,538 27,323,632 9.7%

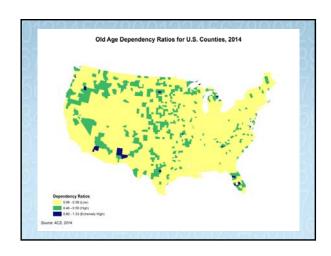
U.S. POPULATION TURNING 50, 55, 62, AND 65 YEARS OF AGE, (2007-2015)								
5678901234	Age 50	Age 55	Age 62	Age 65				
Average Number/Day	12,344	11,541	9,221	8,032				
Average Number/Minute	8.6	8.0	6.4	5.6				
November 2015	3789	012	345	18				











The Multigenerational Workforce

Generation	Birth Years	Current Ages	Est. Workforce Participation in 2013*
Veterans Traditionalists WWII Generation Silent Generation	1922-1945	70-93	5% (7M)
Baby Boomers "Boomers"	1946-1964	51-69	38% (60M)
Generation X Baby Busters	1965-1980	35-50	32% (51M)
Generation Y Millennials	1981-2000	15-34	25% (40M)

Succession	Plani	ning 8	
Accommodations	for	Elder	Care

Organizational Game Changers!

The BIG Opportunity I

The Aging Boomer Market

A \$15 Trillion Prize Globally

Bloomberg BusinessWeek

The Silver Shopper

"You'd have to be an idiot to turn your back on this humongous growth market"

Jody Holtzman AARP

Boomers will redefine what it means to be old

Remember

 "The majority of Baby Boomers work and play little different from those in their 40s. They're not obsessing over arthritis, incontinence, and dementia."

Boomers Defined

- More are working past 65
- More likely to purchase a car today than other generations.
- Watch significantly more TV than Millennials.
- More than half are on Facebook
- Major consumers of Apple's products

Boomers Defined Cont'd.

- AARP has started an over 50 model search.
- Amazon.com has launched a website dedicated to customers over 50.
- 63% of Americans plan to work during retirement.

The Aging Consumer Paradox

- Seniors don't like to be singled out and reminded that they are old.
- The company that does a great job of making products for seniors takes great pains not to make products for seniors.

The Big Opportunity II

Encore Entrepreneurship

Fifty is the New 20

- One quarter of 44-70+ population interested in becoming entrepreneurs.
- Americans 55-64 start new business ventures at a higher rate than any other group, including 20 somethings.
- 23% of new entrepreneurs were age 55-64 in 2010, up from 14% in 1996.

Fifty is the New 20 Cont'd

- 50% of businesses started by 50+ entrepreneurs still operating 5 years later.
- Encore Entrepreneurs alleged to have:
 Double E-SP: Experience, Expertise,
 Seasoned Judgement & Proven
 Performance.

Pathways to Encore Entrepreneurship

- Great Recession
- Economic Globalization & Emergence of "GiG" Economy
- Unfulfilled Dreams
- Unanticipated Crises
- Caregiver & Childcare Responsibilities
- Affordable Care Act
- Boredom

Desire to Have Social Impact

Social Services	37%
Poverty Alleviation	28%
At Risk Youth	24%
Economic Development	24%
Health Care	24%
The Environment	19%
• Human Rights/Social Justice	18%

The BIG Opportunity III

- How do we help seniors age gracefully in their homes and their communities?
- That is, how to help them age in place and keep them out of hospital emergency rooms, expensive nursing homes, and long term care facilities?
- What role can digital technologies play in healthy aging?

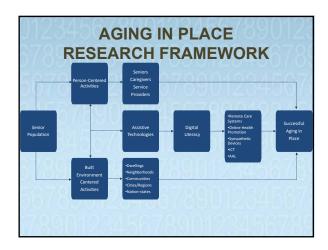
Age-Related Challenges

- Mobility Limitations
- Hearing Loss
- Vision Impairments
- Mental Disorders
- Substance Abuse Issues
- Chronic Disabilities
- Economic Constraints

The Triple Whammy

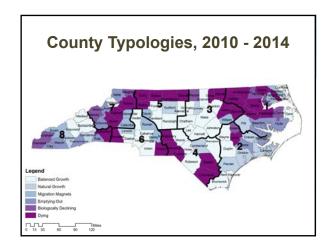
- Aging Boomers Face Mortality
- Elder Care Responsibilities
- Raising Grandchildren

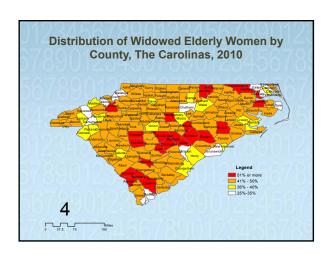
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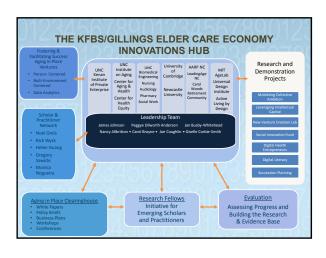


The Carolinas An Ideal Elder Care Innovations Lab

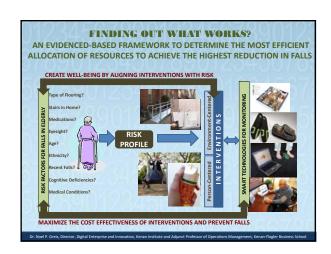
Elderly Share of Net Population Change, 2000-2010			
Area	Total Population Change	Elderly Population Change	Elderly Share of Net Change
United States	26,884,972	3,737,660	13.9%
South Region	14,318,924	2,455,718	17.2%
The Carolinas	2,099,702	411,572	19.6%
North Carolina	1,486,170	265,031	17.8%
South Carolina	613,532	146,541	23.9%













Urban Design Principles

- Visitability of institutional settings
- Senior playgrounds & fitness parks
- Universally accessible transport systems
- Complete street ordinances
- Extended walk times at pedestrian crosswalks
- Senior friendly street signage

OPPORTUNITIES

- Cater products & labeling to emerging groups
- Design & package products with equality in mind

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LABELING & PACKAGING

- Easy to Read
- Easy to Understand
- Easy to Carry
- Easy to Enjoy
- Safer to Use

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