Creating the Age Friendly Workplace!

Presented by

Deborah Read, MOTR/L

President, Ergonomics Consultant, Occupational Therapist

<u>ErgoGirl@ErgoFitConsulting.com</u> 206-938-3294





our certified woman-owned business

We're an ergonomics consulting firm with a wellness edge that makes businesses healthier by simultaneously reducing injury risks and improving productivity at work!

We are a group of amazing humans passionate about improving the lives of people and helping businesses thrive!

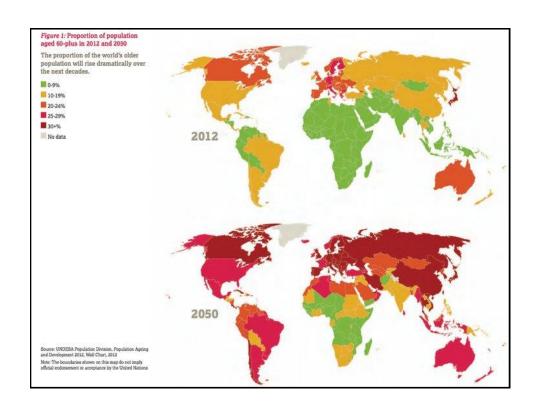
Assess. Educate.

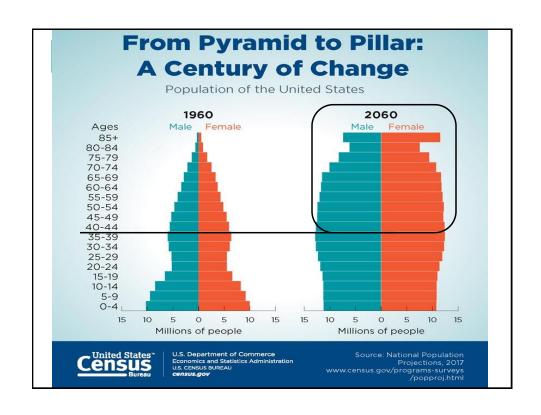
Who Is Older & Why Does It Matter?

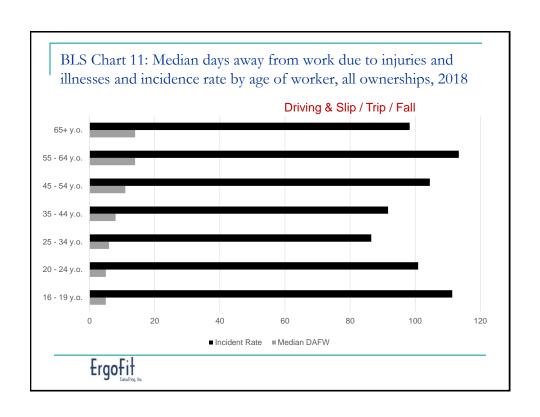
Who is "Older" @ Work?

- Aging effects on physical work > 40
- Age Discrimination in Employment Act > 40
- AARP > 50
- Older workers and Chronic illness age groups: 55 – 64 & 65+
- "Seniors" > 65

© 2009 ErgoFit







Are U.S. Employers Ready? 2016 SHRM - AARP survey

- 35% short-term impacts
- 17% long-term impacts
- Most no process to assess >1-2 yrs
- Majority no active recruitment



ErgoFit Consulting, Inc.

Insurance Journal: Why Businesses Need to Plan for Aging Workforce Mark Miller | June 21, 2018

Consequences of Ignoring Aging Planning

- Flight
- Lost knowledge
- Qualified candidates
- Increased claims severity and costs
- Legal trouble age discrimination (AARP)

Er ©2015

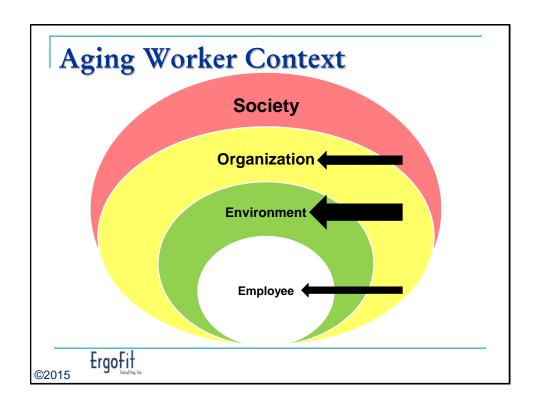
Benefits of Older Workers (50+)

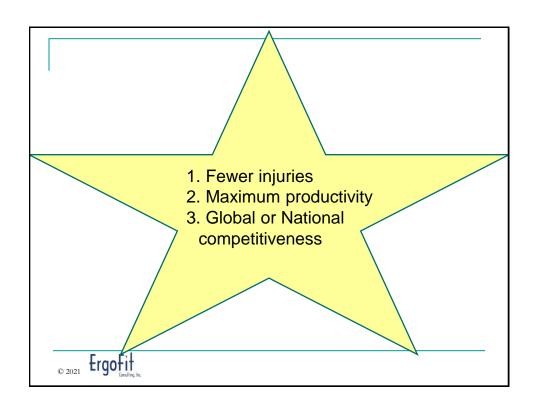
- More engaged: 65% vs. 58-60%
- Reduced turnover: 29% compared to 49%
- Solid experience in job/ industry
- Professionalism
- Work ethic
- Commitment to quality
- Dependable in a crisis
- Rarely tardy; low absenteeism

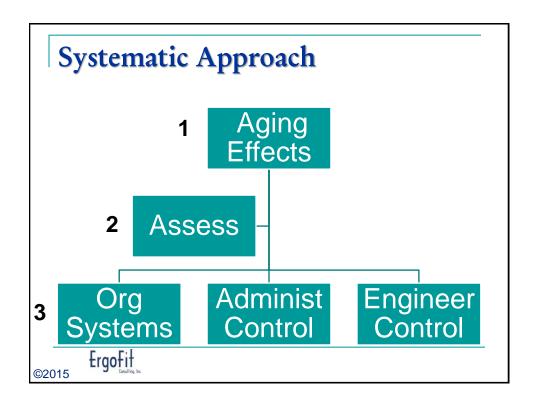
"The incremental costs of 50+ workers may be far outweighed by the value that they add."

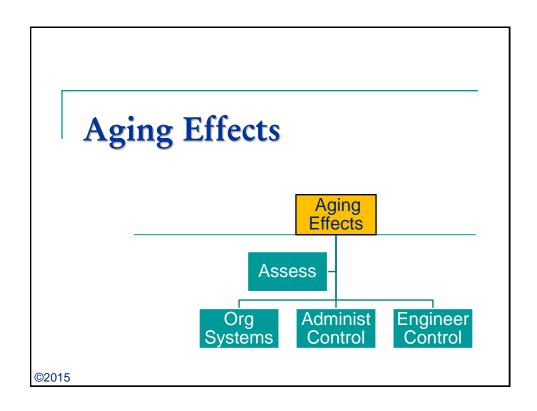
ErgoFit

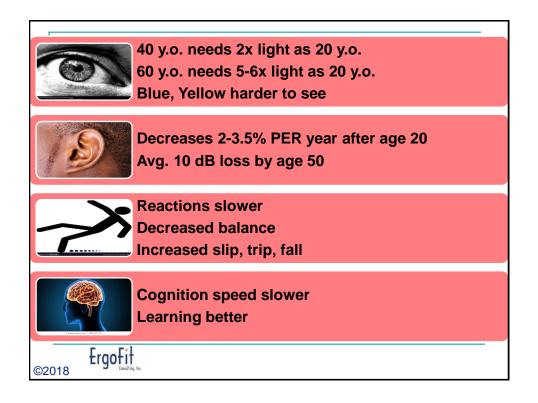
Aon Hewitt's 2015 study for AARP: Business Case for Workers 50+

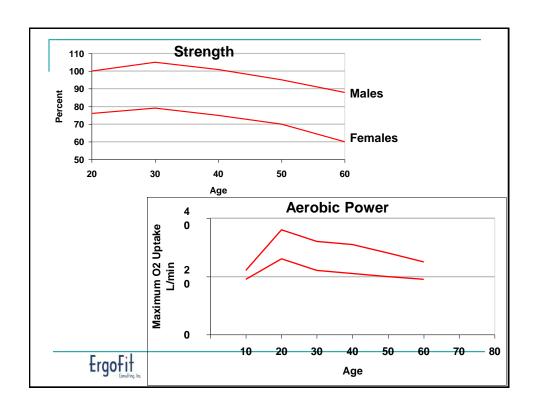


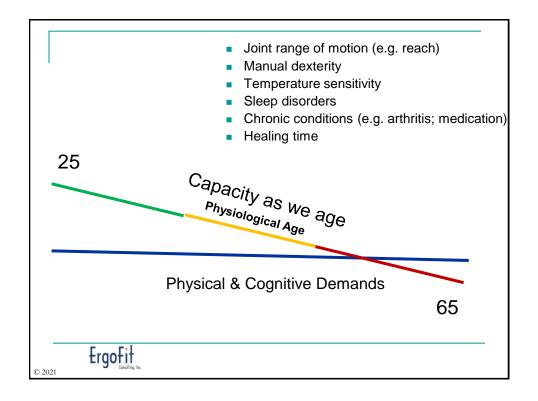


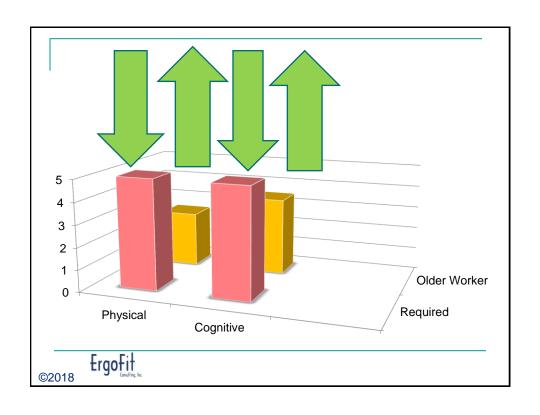


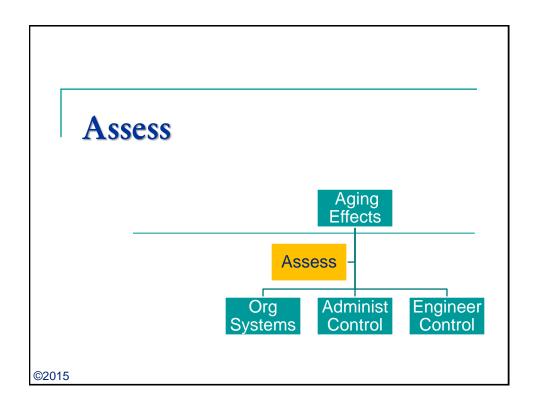












Assess

- Policies
- Demographics
- Injury trend data
- Work Ability Index is there a mis-match?

2-27 = poor = reinstate work ability 28-36 = medium = improve work ability 37-43 = good = support work ability 44-49 = very good = maintain work ability

- Additional Resources:
- http://virgo.bc.edu/employerbenchmarking/survey#review
- http://www.wisconsinjobcenter.org/ow/ow_er_assessment.pdf

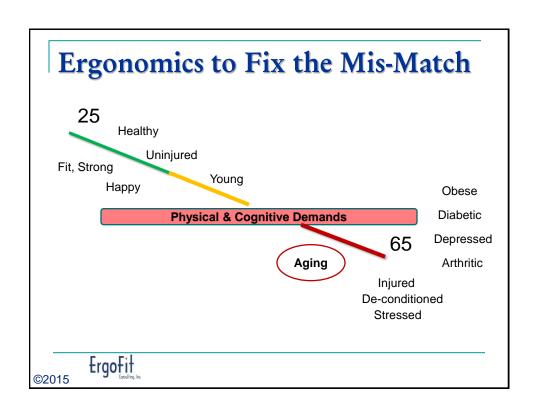
ErgoFit

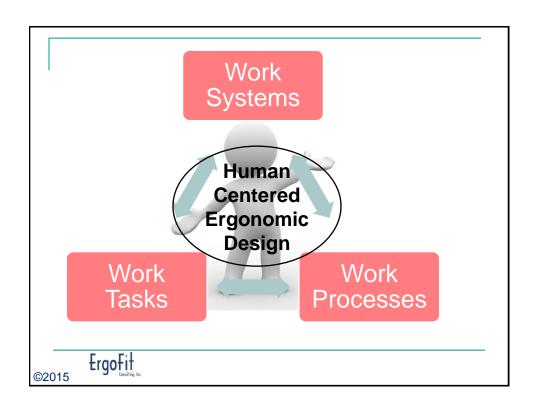
©2021

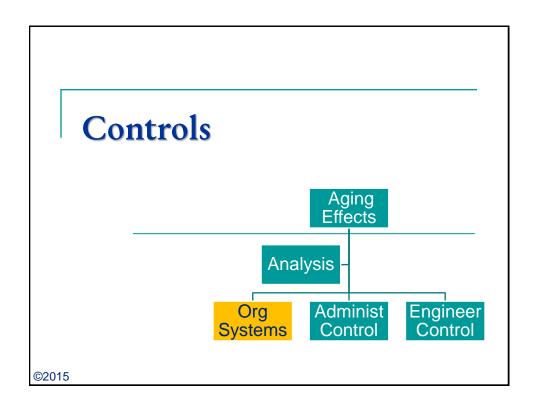
Other Assessments

- Job Demands Analysis Positions, Maneuvers, Forces, Cognition
 - Frequency
 - Dimensions
 - Distances
- Hazard Mapping & Improvements
 - Ergonomic Assessment
 – informal or formal
 - OSHA Hazard Assessment

©2015







Organizational Controls

- Age discrimination protection policies
- Commitment to accommodating older worker
- Respectful Corporate Culture
- Hiring practices
- Health insurance plans
- Phased retirement



©2015 Ergofit

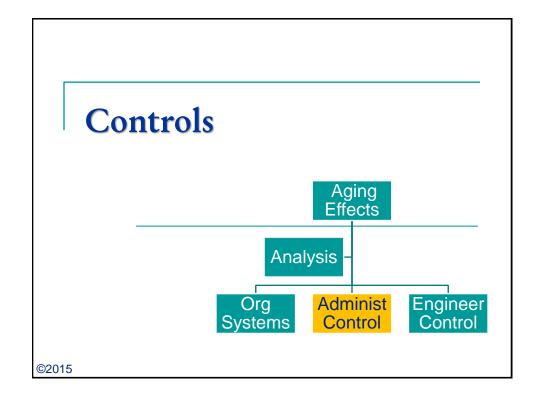
Ilmarinen 2003 re: the Work Ability Index; Liberty Mutual

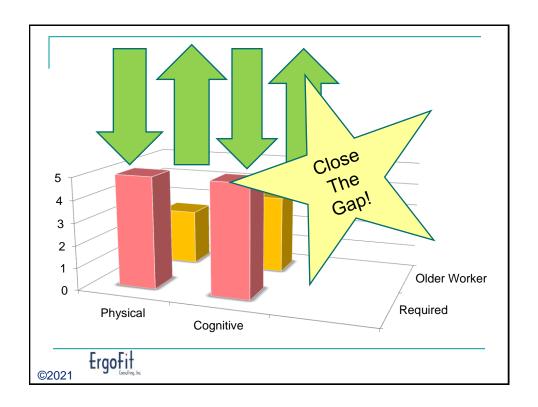
Organizational Controls

- Work Ability Index (or similar)
- Mentoring program
- Flexible work options & RTW policies
- Corporate wellness



©2015 Ergofit





Administrative Controls

- New hire and 50+ conditioning
- Task Matching to Job Analysis
- Job design
 - □ NO DRIVING for 75+ y.o
 - □ Self-paced jobs vs. not
 - Work / Rest cycles
- Modify Training methods and times



Corporate Wellness

- Biometric measures as incentives
- General Conditioning Program
- Dynamic Warm Up program
- Back Health program
- Health / Wellness education
- Healthy snacks at meetings



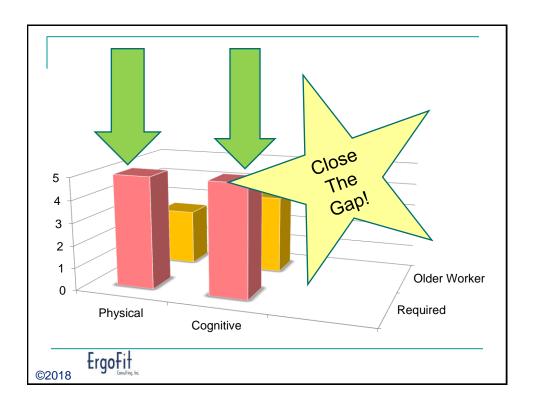
©2015 Ergofit

Controls

Aging
Effects

Analysis

Org
Systems
Administ
Control
Engineer
Control



Ergonomic Engineering Controls

- Ergonomic Engineering Controls
 - Physical demands
 - Cognitive demands
 - Sensory demands

PPE not considered engineering control, but role to play

©2015 ErgoFit

BMW Case Study (2010)

- Participatory approach
- 1 assembly line avg age 47
 - □ 70 small ergo changes
 - □ ~\$50K (incl lost time)
- Productivity ↑ 7%
- Non-attendance ↓ below factory's average
- Defect rate ↓ to zero

ErgoFit

Sept. 2010 article in carscoop.blogspot

Particularly Problematic

Driving (> 75 y.o.)

Slick, uneven, or cluttered walking surfaces

Ladder work

High speed work or reaction times

Frequent, heavy, or awkward lift, carry, push, pull





©2021

Also Problematic

- Above shoulder work
- Below knee work
- Twisting
- Non-ambient temperatures
- Background noise
- Light: insufficient, variable, glare



©2021

ErgoFit

Eradicate Slip & Fall Risk

- Friction surfaces (hand, feet)
- Handrails / hand holds
- Slipping Rates ↑*:
 - □ By 14.6x on a contaminated floor
 - ☐ By 2.9x when rushing
 - ☐ By 1.7x when distracted
 - ☐ Worker Perception of slipperiness valid 4-pt scale





*UCLA webinar

Eradicate Slip & Fall Risk

- Eliminate Spills
- Clear Paths (housekeeping)
- Perfect Stairs
- Slip resistant shoes ↓ slip rate 54%
- Smooth surfaces & transitions for footing

© 2009 ErgoFit

Ergonomic Engineering Controls

- 50% more lighting for 40-55 y.o.'s
- 100% more lighting for > 55 y.o.'s
- Eliminate harsh light transitions & glare
- Individual adjustment



©2021

Ergonomic Engineering Controls

- Avoid lifting / carrying > 25 lb.
- Mechanical devices
- Reduce reach distance!
- Equipment maintenance



©2021

ErgoFit

Problem Solving & Aging Hazard Mapping

Get out a piece of paper

Safety Solution Age Effect **Implication** Create way to slide Reduced object instead of lift Back injury Strength & ability to lift Vvv Dropped, damaged Www goods \Box Xxx Yyy Zzz ErgoFit ©2015

Age Effects List

- Strength
- Endurance
- Range of motion
- Balance
- Reaction Time
- Vision

- Hearing Loss
- Temperature Sensitivity
- Fatigue
- Memory & thinking speed
- Poor health

©2015 Ergofit

Wrap-Up



What's Next?

- Does your organization care?
- How can you integrate this?
- Who are the stakeholders and allies?
 - How will you engage them?
- How will you create long term and short term goals?
- What will you start with? What's your plan?
- How will you communicate along the way?

ErgoFit

