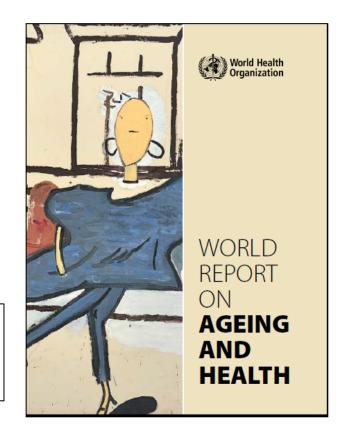




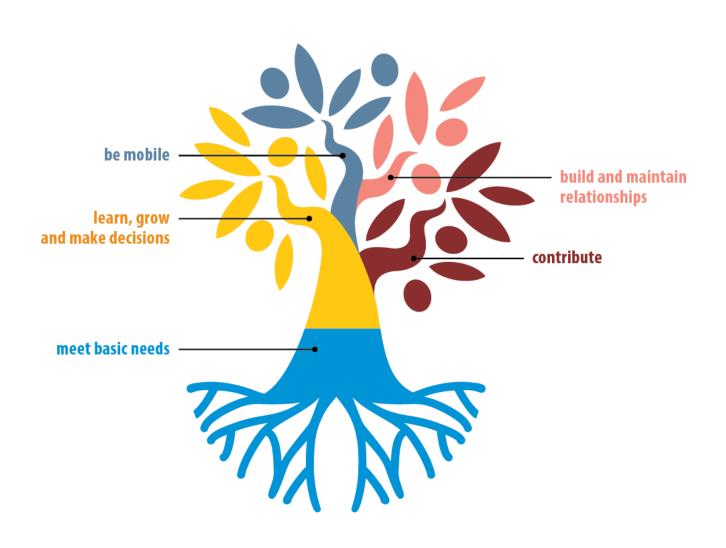
# World Report on Ageing and Health

"Healthy Ageing - the process of developing and maintaining the functional ability that enables wellbeing in older age."

Link: http://www.who.int/ageing/events/world-report-2015-launch/en/



#### The things older people want



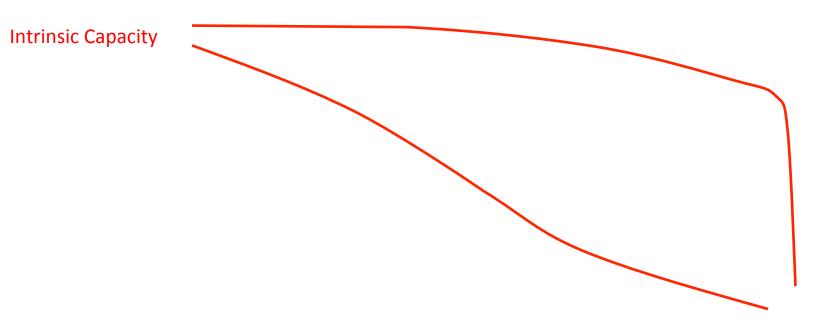
# **Intrinsic Capacity**

All the individual level attributes that contribute to someone's ability to be and do the things they have reason to value.

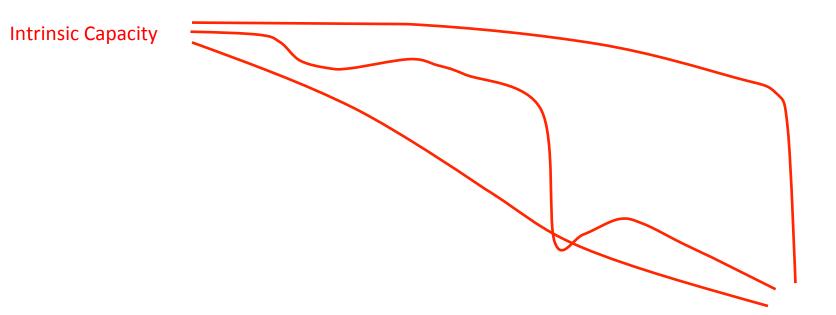
#### Individual life course

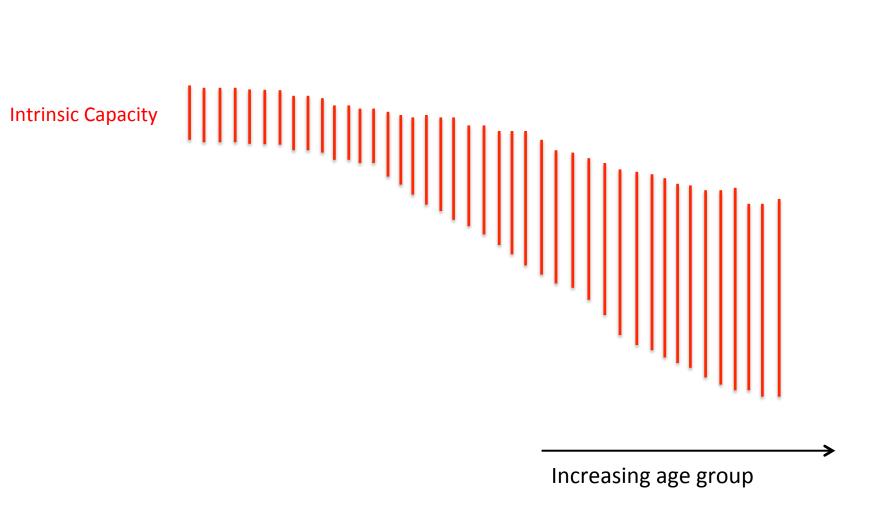


#### Individual life course

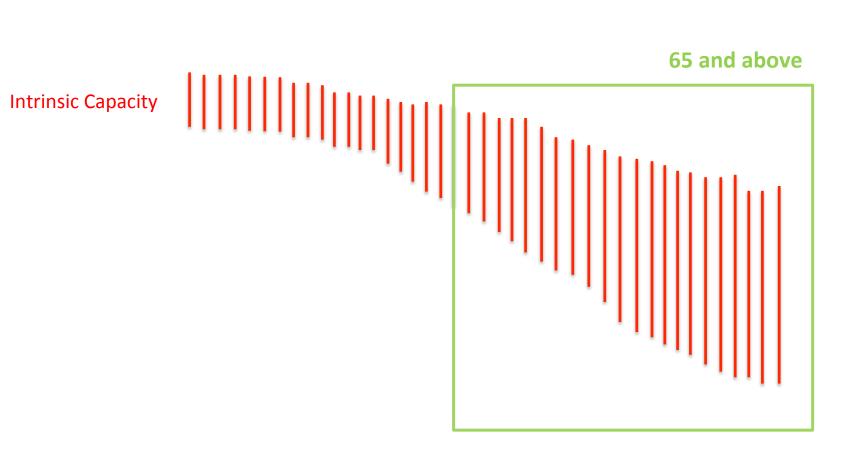


#### Individual life course

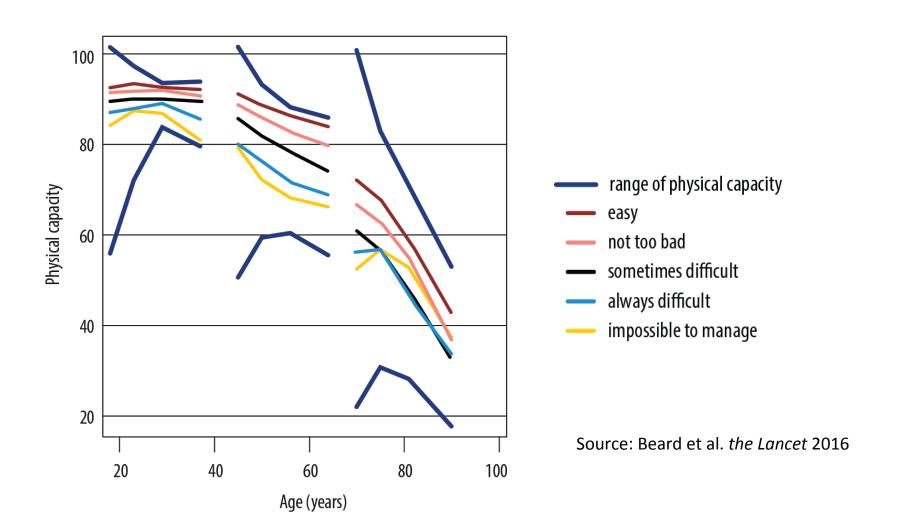


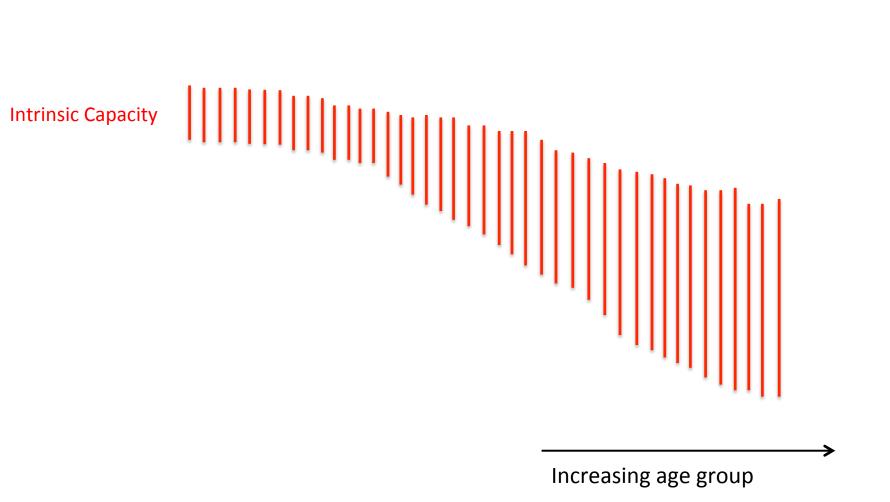


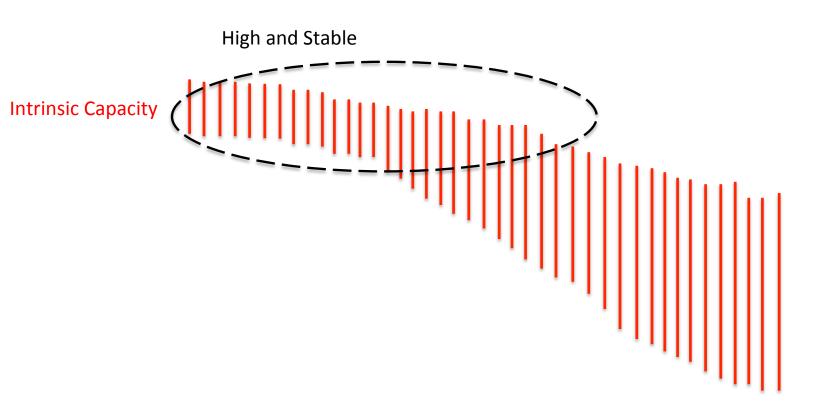
# There is no "typical" older person

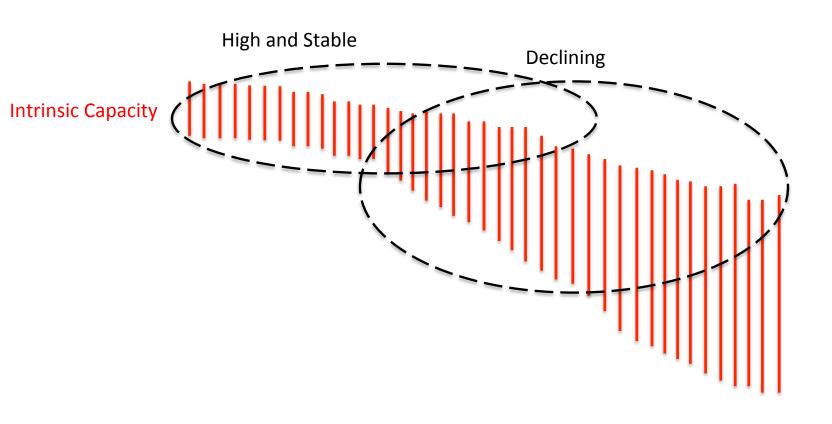


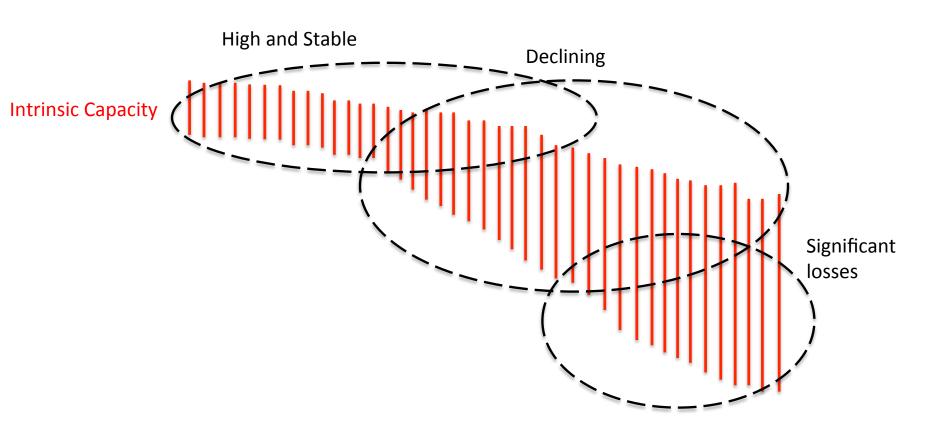
# Physical capacity across the life course









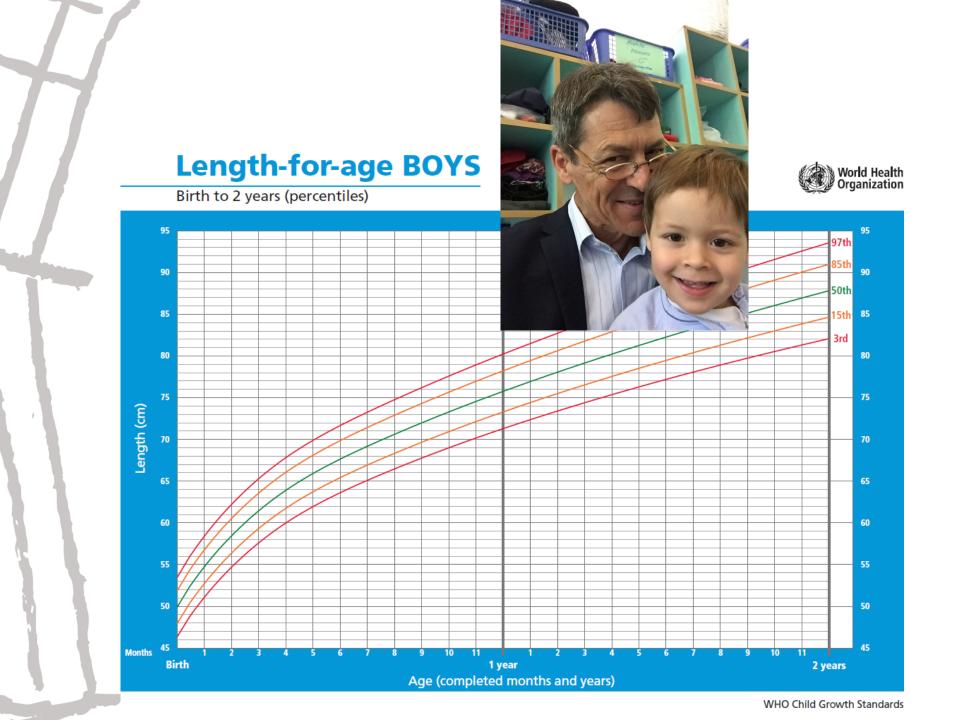


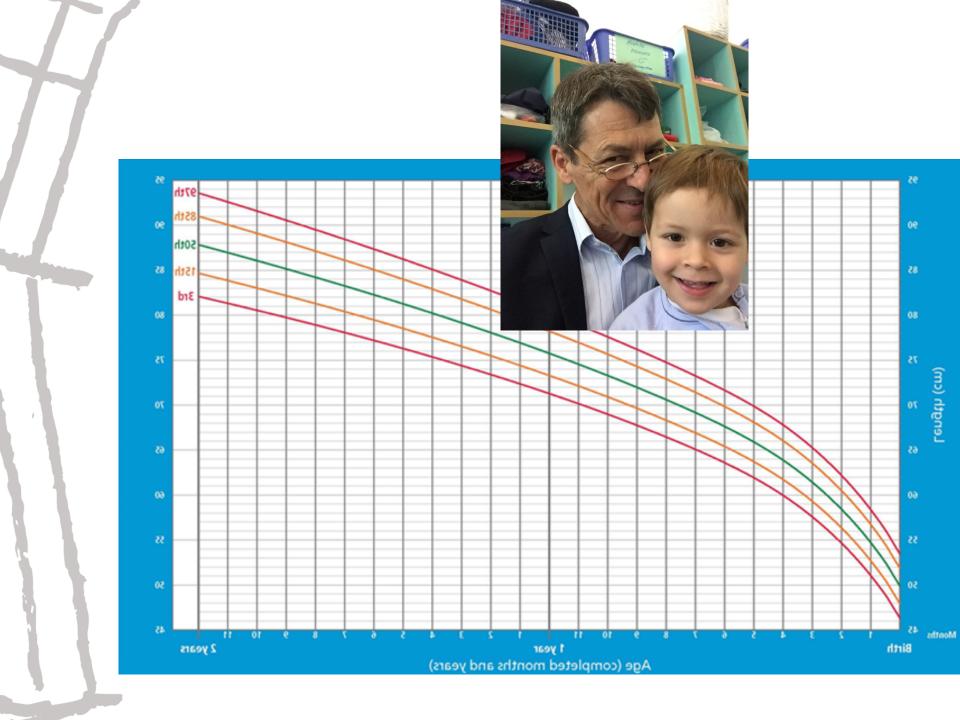
# Global Strategy on Ageing and Health

- Commitment to action on Healthy Ageing
- Age-friendly environments
- Health systems aligned to the needs of older populations
- Systems for long-term care
- Better measurement, monitoring and research

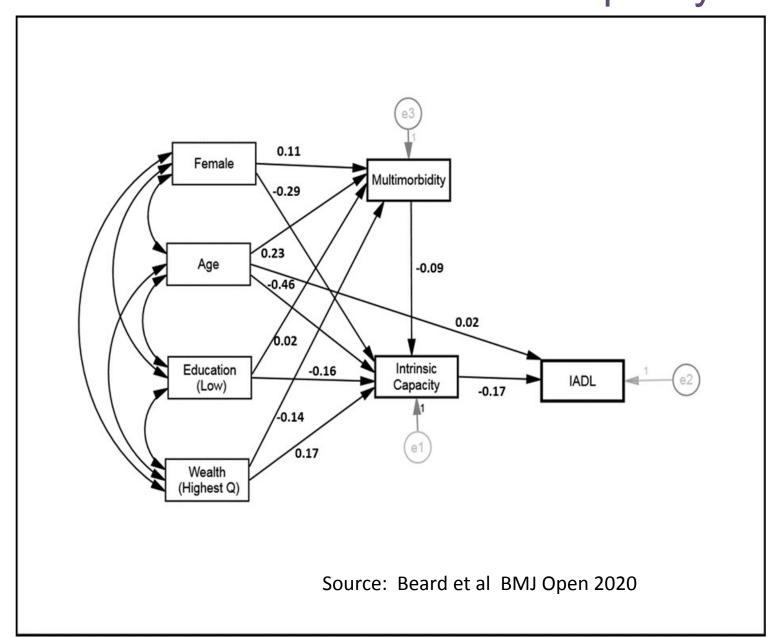
# Implications for Measurement

- Heterogeneity means age-based aggregation (e.g. over 65) is highly problematic both for policy and research
- Critical to distinguish between individual and their context but how?
- Wearables and other IT changes mean individual level data is becoming increasingly available. New analytical approaches such as machine learning will amplify this change





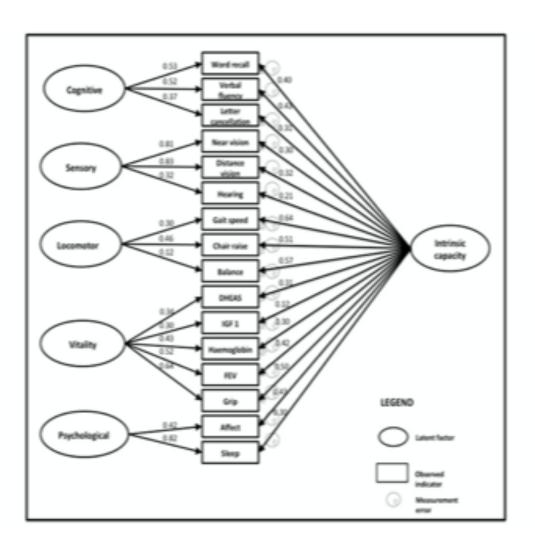
# Predictive value of Intrinsic Capacity



# Measuring Intrinsic Capacity

All the individual level attributes that contribute to someone's ability to be and do the things they have reason to value – but how do you measure it?

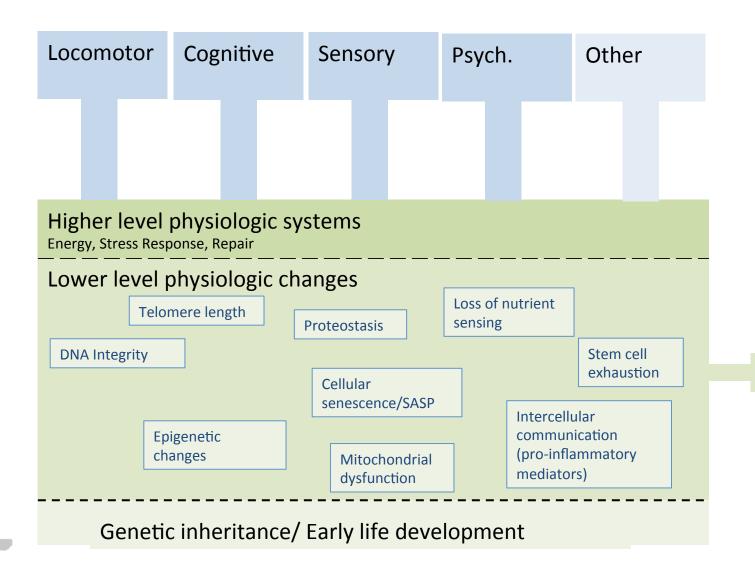
# Factor Analysis of Intrinsic Capacity in ELSA



Source: Beard et al BMJ Open 2020

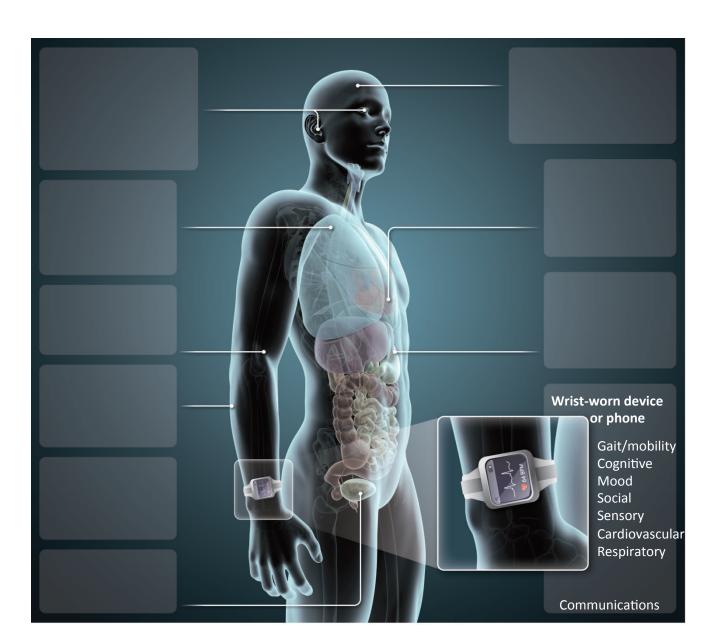
# Measuring Intrinsic Capacity

Source: Beard et al BMJ Open 2020



Vitality

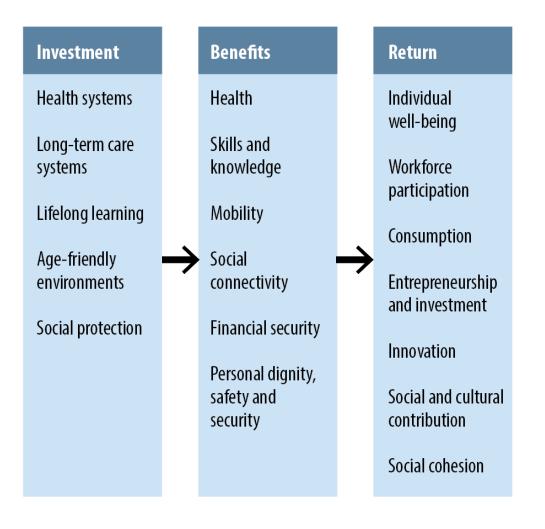
# New ways to measure what we are doing



# Measuring Intrinsic Capacity – so what?

- Better clinical care
- Earlier identification of change
- Identify early determinants of trajectory
- Clinical and research outcome
- Comparing impact of interventions
- Stratifying clinical trials
- Better understanding of population trends

# Rethinking economic analysis 1: cost to investment

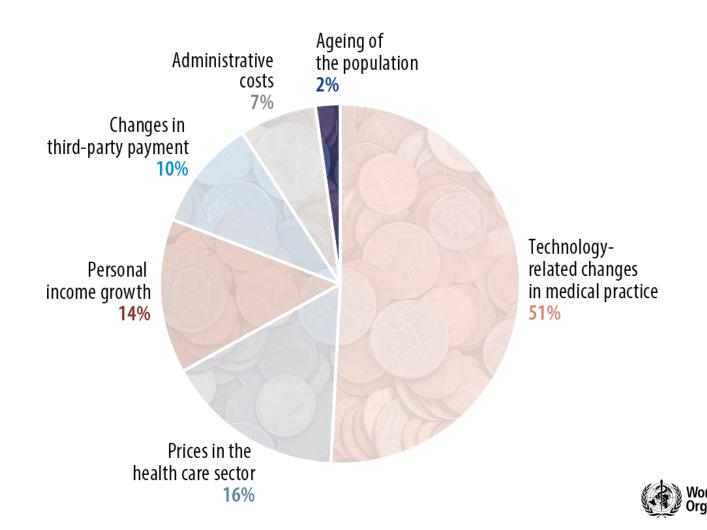




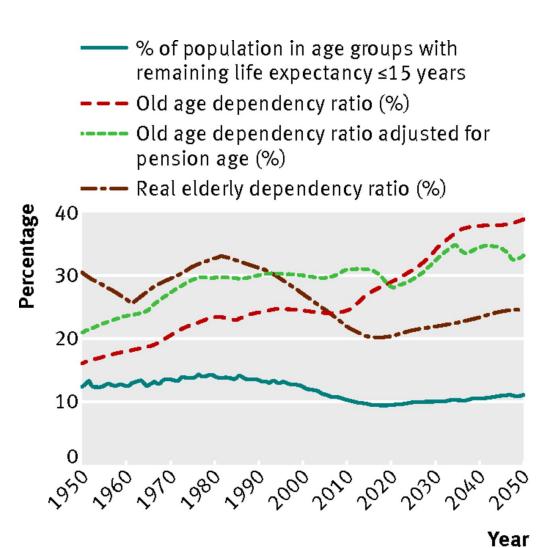
Time to move on from the "old age dependency ratio"



# Factors influencing growth in health care expenditure in the United States 1940 to 1990

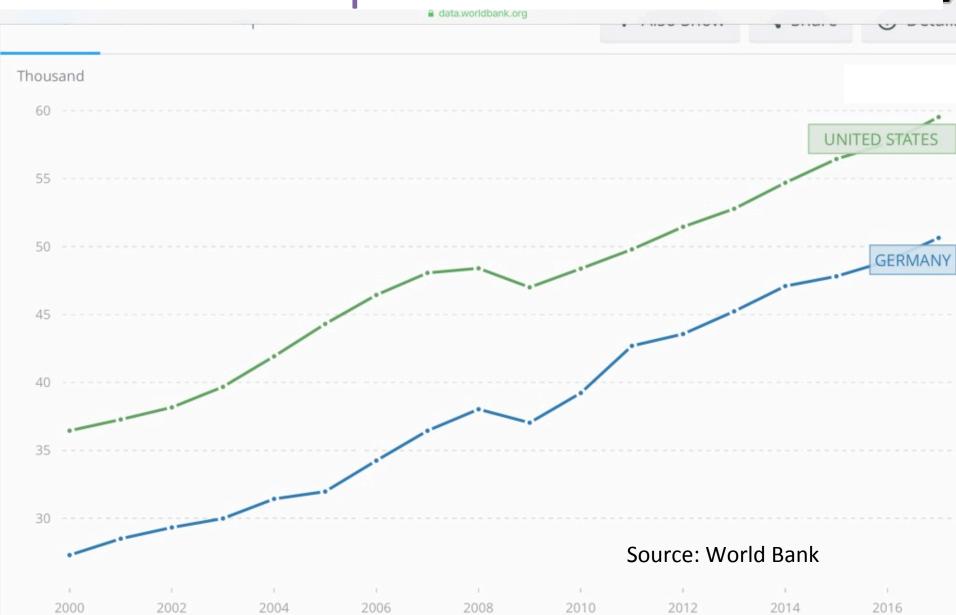


# **UK** "Dependency" Projections





# GDP Per Capita PPP 2000-Present



http://www.who.int/ageing/events/world-report-2015-launch/en/

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Mortality at different ages for low, middle and high income countries

Source: Beard et al. the Lancet 2015

