

# REAL Centre

## Beyond COVID-19: underlying pressures on health care funding in England

**Festival of Science, November 2021**

Stephen Rocks



The  
Health  
Foundation

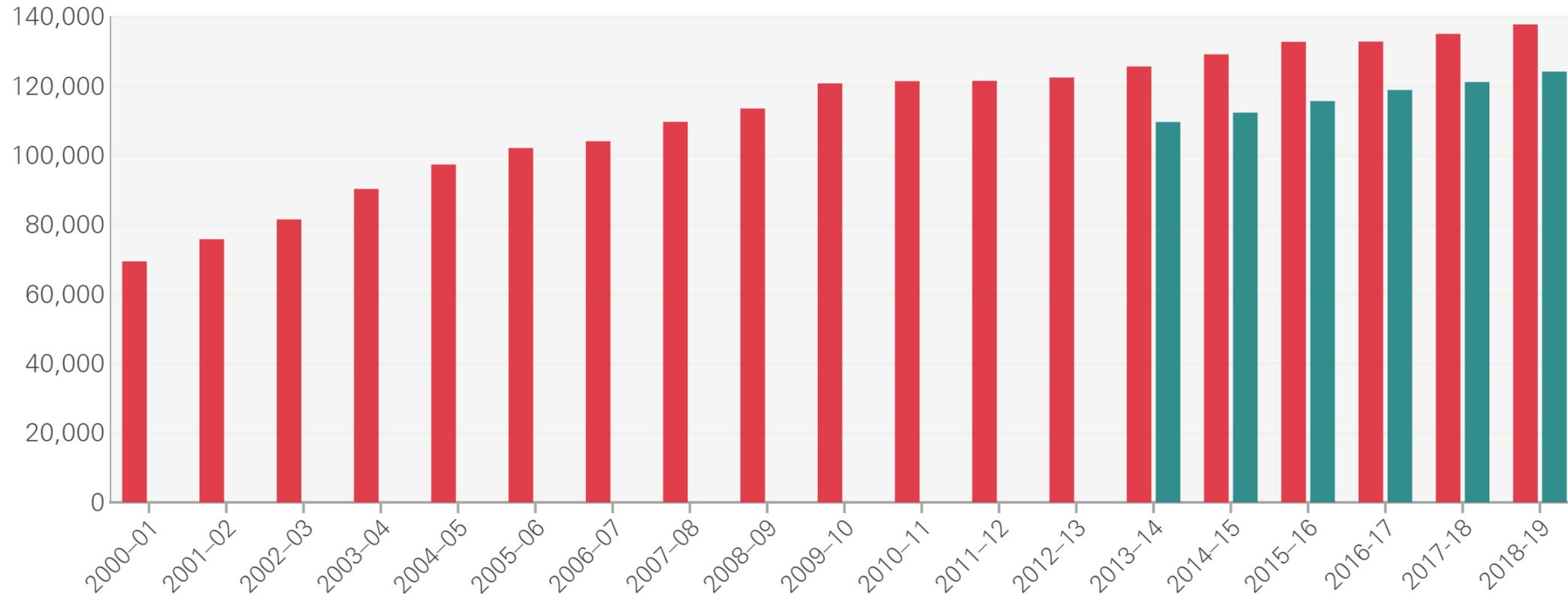
# Underlying pressures on health care funding

## The rise and rise of health care spending

Health spending more than doubled (+103%) between 2000/01 and 2018/19, rising by 4% a year.

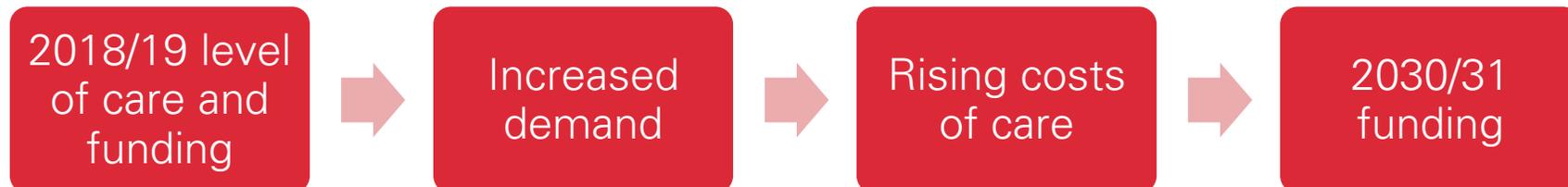
Health spending (current and capital) in England and NHS England revenue budget (£bn, 2021/22 prices)

■ Health care ■ NHS England



# Health care spending in 2030/31 – higher still

- Health care spending typically rises over time - about 3.7% a year since 1950s
- REAL Centre projections suggest more funding would be needed just to deliver the same **rate of care** in 2030/31 as in 2018/19. Why?
- Reasons include:
  - **Increased demand:** Growing and ageing population, with greater morbidity and number of deaths
  - **Rising costs:** Costs of care (wages & drugs) rising faster than productivity

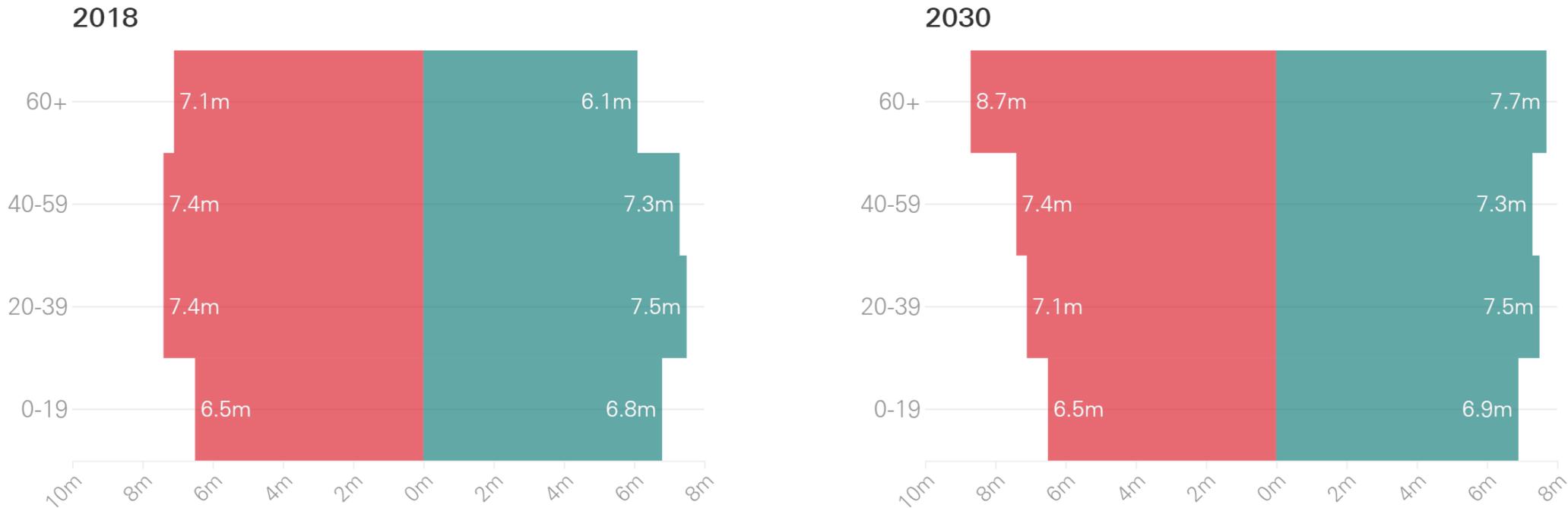


# Increasing demand

## A growing and ageing population

By 2030 there is projected to be 3.2 million more people in England (0.5% growth per year). Almost 90% of this increase is among those aged 60+ (+2.9 million, 1.8% growth per year).

Female Male



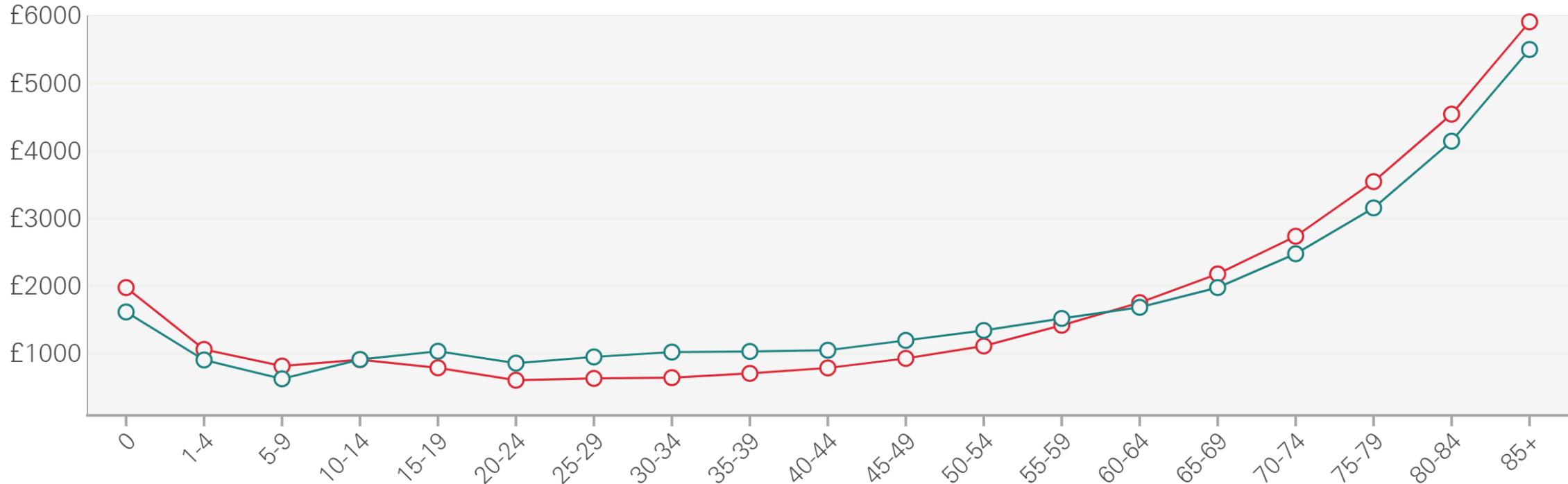
# Increasing demand

## Health care spend increases with age (or does it?)

Health care spend per person generally rises with age. Age may be a red herring, though, with spend depending more on morbidity and proximity to death.

Average cost (£), 2018/19

■ Male ■ Female

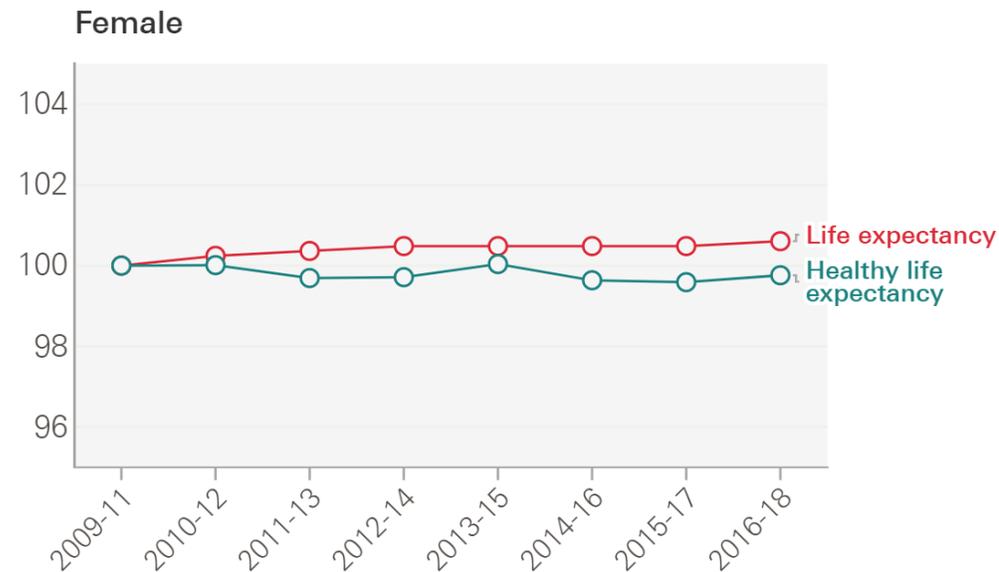


# Increasing demand

## Living longer, but in worse health?

Gains in life expectancy are not being matched by gains in healthy life expectancy.

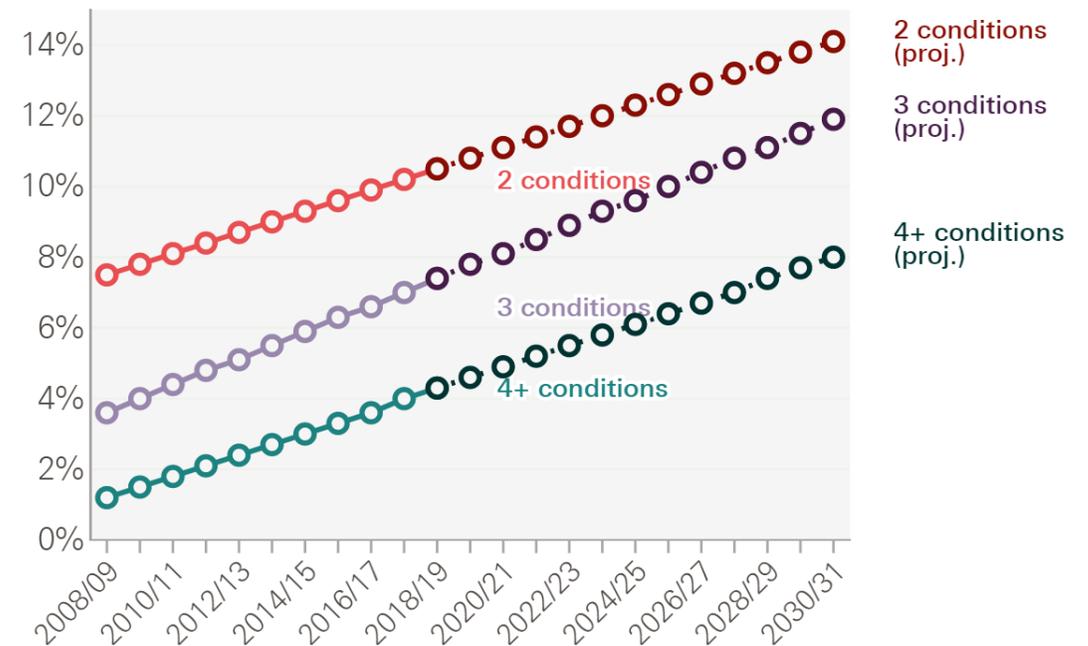
Index, 2009-11=100



## Rising morbidity

Morbidity and especially multi-morbidity has been increasing over time. We project this to continue.

Females 85+ with a hospital admission w/ multiple conditions (%)



# Increasing demand

## Activity will need to increase to meet demand

Annual average growth (%) by service area, projected and historical average

Area	Actual historical (2009/10–2018/19)	Projected growth (2018/19–2030/31)	Difference (percentage points)	Projected growth
Non-elective	1.8%	2.6%	0.7	
Elective	2.4%	2.3%	-0.1	
Community care	-0.9%	2.2%	3.1	
Social care***	-0.6%	1.9%	2.4	
Outpatient	4.1%	1.4%	-2.6	
Primary Care	0.9%	1.4%	0.5	
Community prescribing	2.3%	1.3%	-1	
A&E	1.6%	1.0%	-0.6	
Secondary mental health**	0.8%	0.7%	-0.1	
IAPT*	16.6%	0.2%	-16.4	
Maternity (births)	-0.4%	-0.3%	0.1	

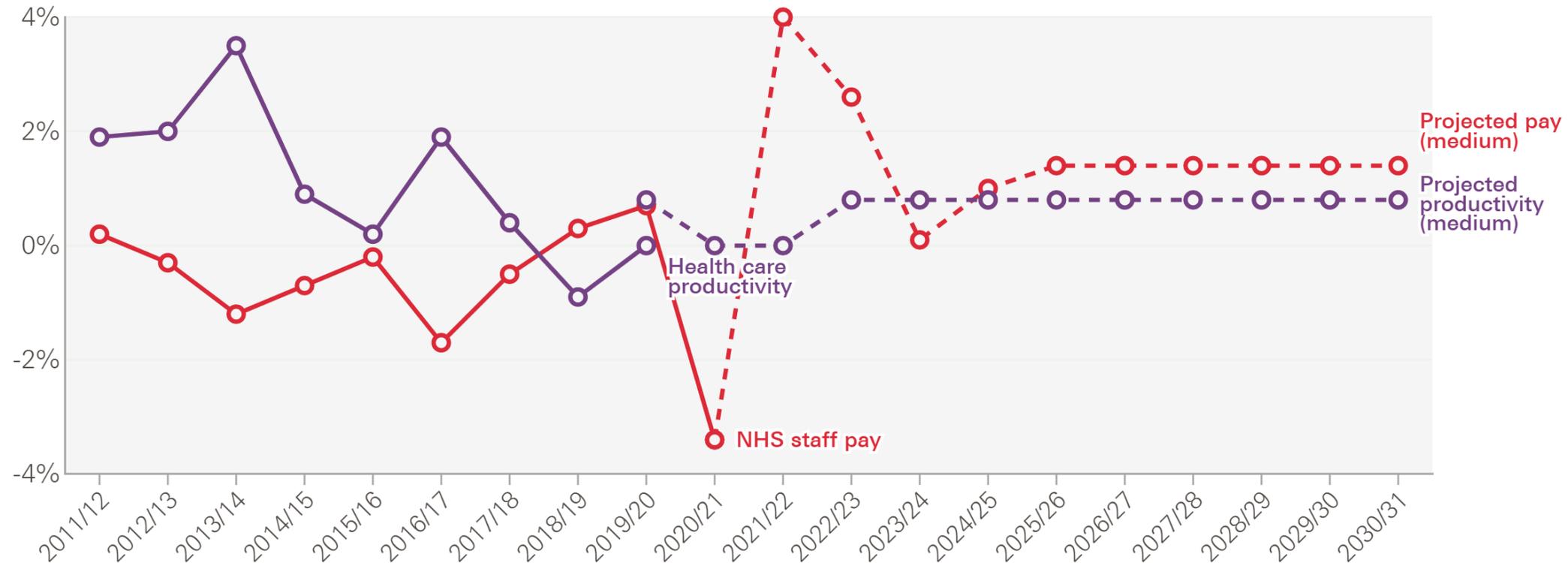
# Rising costs of care

## Costs will rise if pay grows faster than productivity

Following a decade of pay restraint, we assume pay keeps up with all-economy earnings. Productivity growth averaged 0.8% over the past two decades; this provides our central projection.

Real pay (%), adjusted using the GDP deflator; ONS health care productivity

■ NHS staff pay ■ Projected pay (medium) ■ Health care productivity ■ Projected productivity (medium)



# Rising costs of care

- If unit costs grow then **funding growth** will exceed activity growth
- Again, funding growth high for both elective and non-elective care
- But this is only one scenario, pressures could be different.

## Funding growth exceeds activity

If costs growth exceeds productivity, funding will have to grow faster than activity

Annual average growth (%) by service area

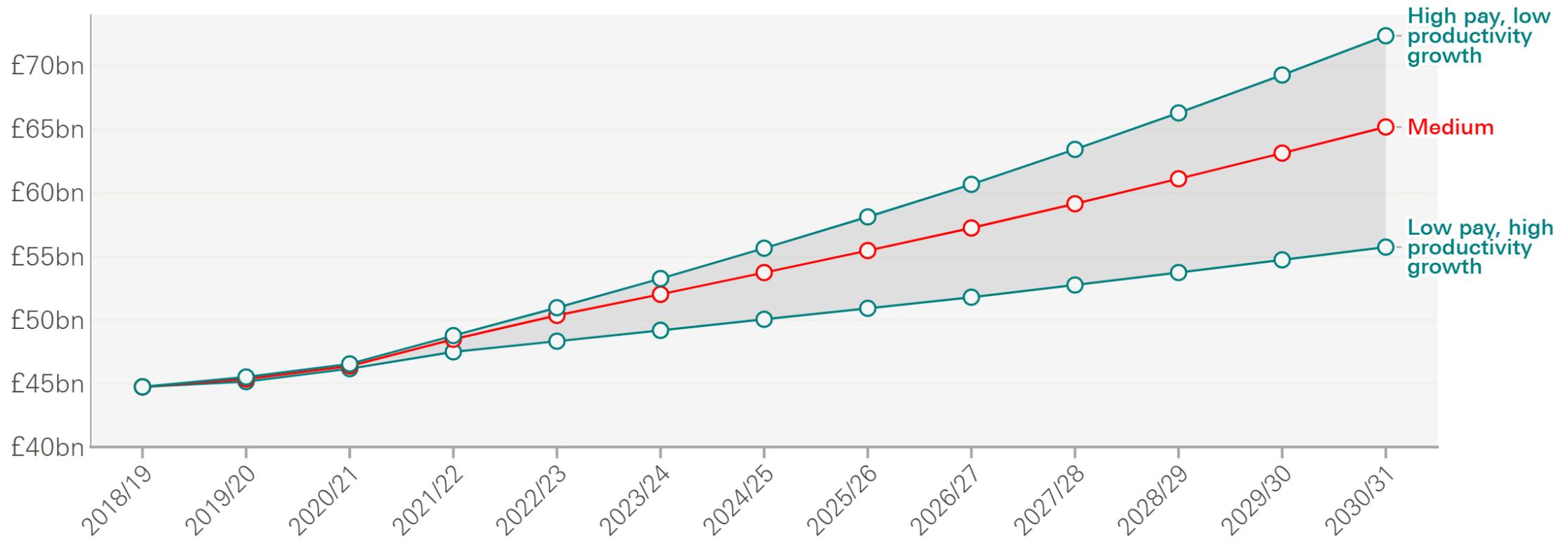
Area	2018/19–2030/31	Projected growth
Non-elective	4.3%	
Social care	3.3%	
Elective	3.2%	
Community care	2.4%	
Outpatient	2.1%	
A&E	1.9%	
Primary care	1.5%	
Community prescriptions	1.1%	
Secondary mental health	0.9%	
IAPT	0.4%	
Maternity	0.3%	

# Drivers of increased funding

## Acute care costs with different pay and productivity

Combination of pay and productivity is crucial: with high pay and low productivity, acute care costs are more than £7bn higher in 2030/31.

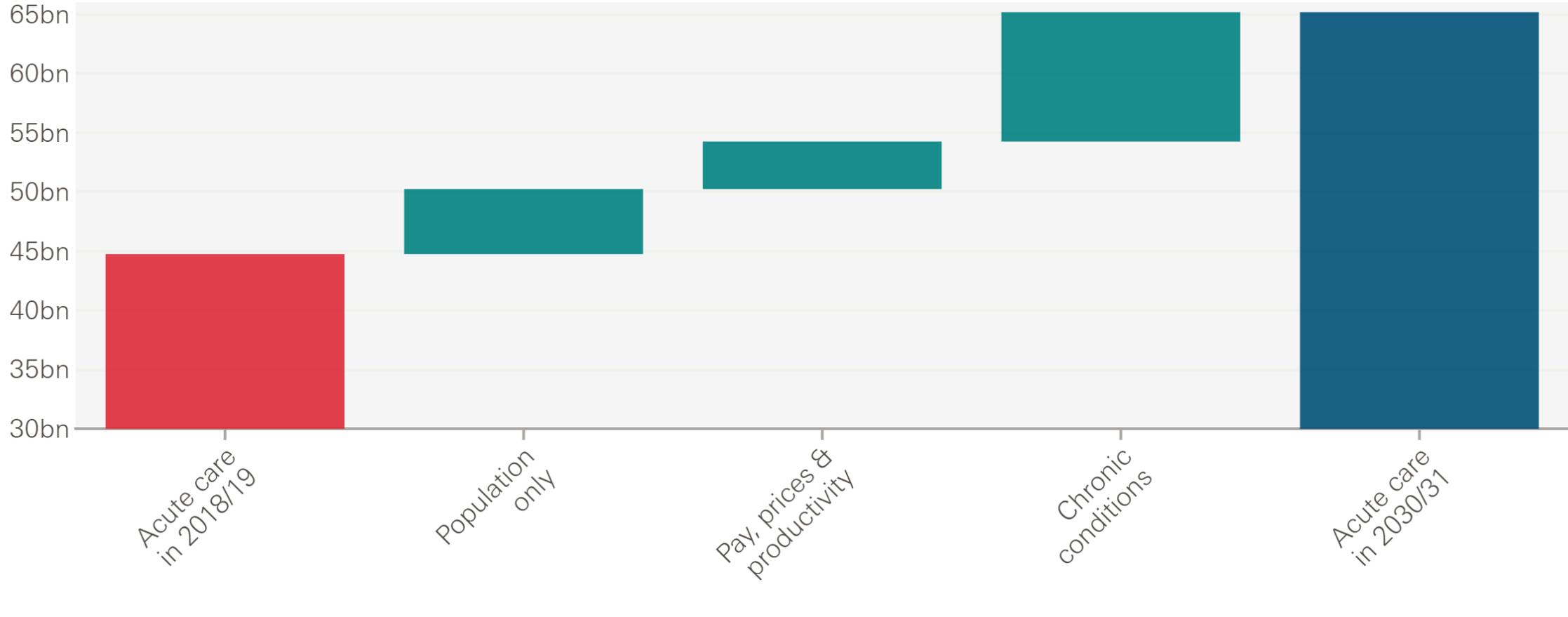
■ Low pay, high productivity growth ■ Medium ■ High pay, low productivity growth



# Drivers of increased funding

## Contribution of key drivers to 2030/31 acute funding

Morbidity emerges as the biggest factor in increased acute care costs by 2030/31.



# Implications

- Up to nearly **half a million** more staff could be needed
- **Productivity gains** can help, but still likely to need significant **workforce growth**
- Comes on top of **existing recruitment challenges** eg 10.3% vacancy rate in June 2021 for registered nurses (NHS Digital)

## Implications: It's the workforce

Demand growth suggests a significantly larger health care workforce will be needed in 2030/31.

Full time equivalents (FTEs)

Area	2018/19	2024/25	Extra FTE	2030/31	Extra FTE
Health care	1,225,000	1,500,000	275,000	1,713,000	488,000
Of which:					
Doctors	147,000	180,000	34,000	205,000	59,000
Nurses	306,000	375,000	69,000	429,000	122,000

# Conclusions

- There are significant **underlying pressures** on NHS. Just to meet **underlying pressures**, NHS England budget would need to grow by ~2.8% a year
- Somewhat against policy ambitions, much of this pressure is on **hospital care**
- **Morbidity** and combination of **price/productivity** growth are crucial
- **Workforce** will be a major constraint on activity
- What can be done to **reduce long term pressures** on health care?
  - **Increase thresholds for elective care** - eg hips
  - **Limit pay increases** – but may be false economy
  - **Reduce unwarranted care** – eg emergency admissions
  - **Promote healthy ageing** – aim for compression of morbidity
  - **Improve treatment for those with multiple long term conditions**  
– eg integrated care
  - **Increase productivity** – eg reduce length of stay

# Thank you for listening

**Key publications:**

**Health and social care funding projections 2021 (REAL Centre)**

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