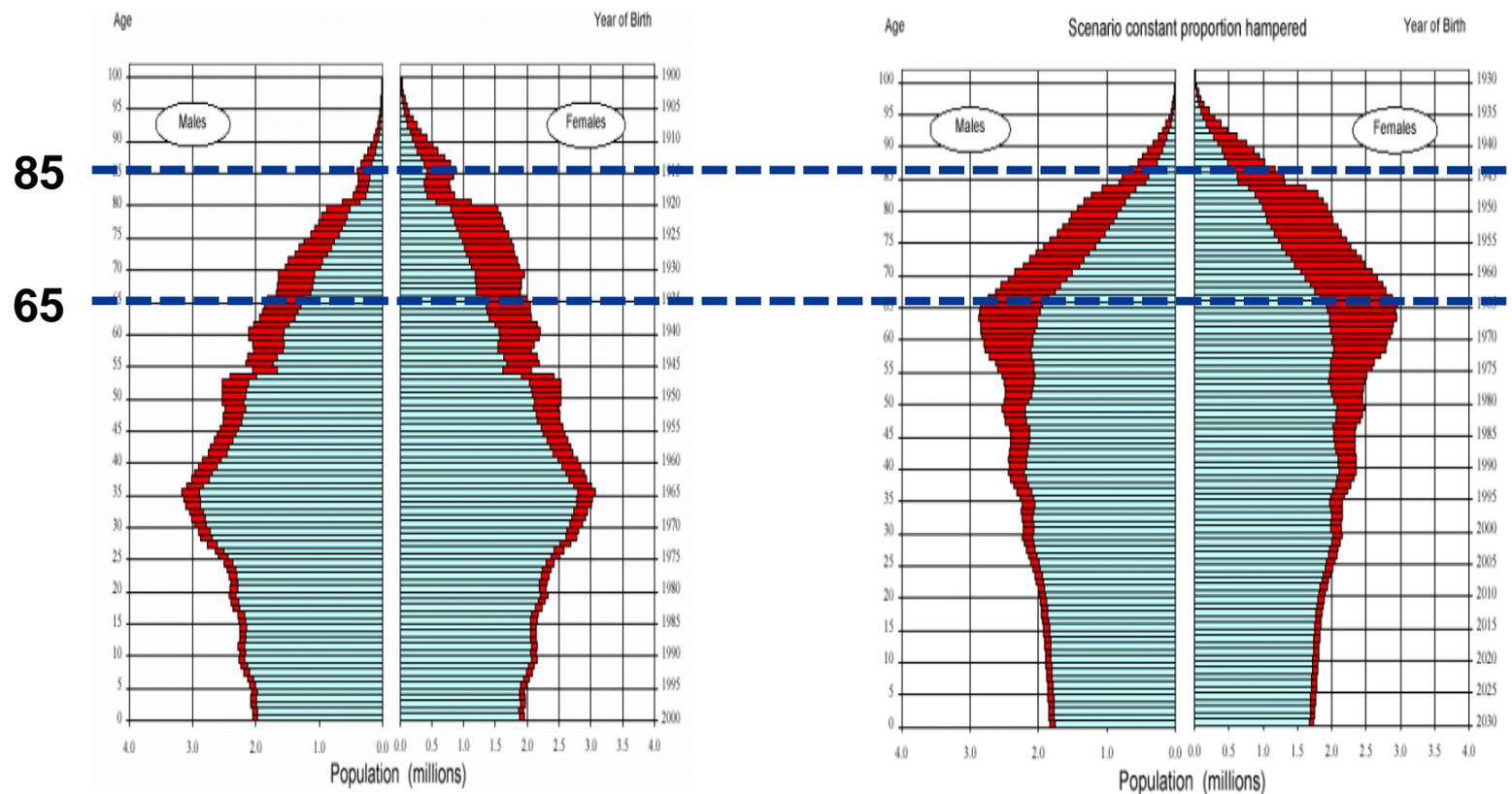# NHS England Innovation

**New and emerging innovations:-**

**Changing where and how Healthcare is delivered.**

# The Societal challenges:- Life expectancy
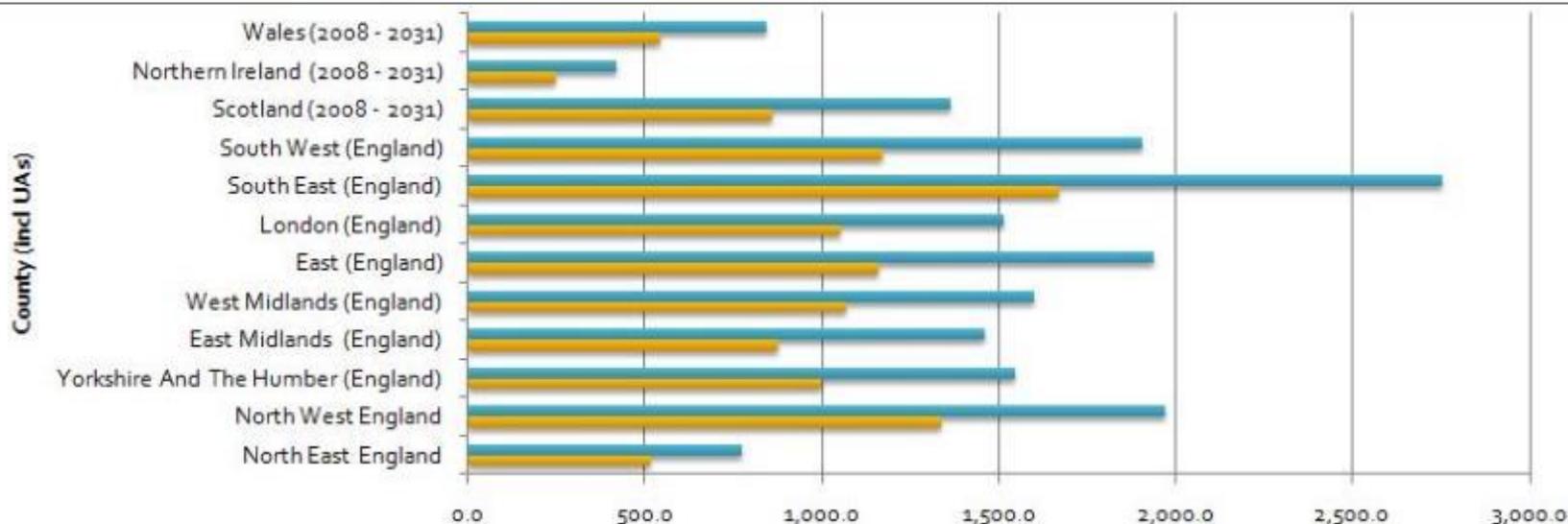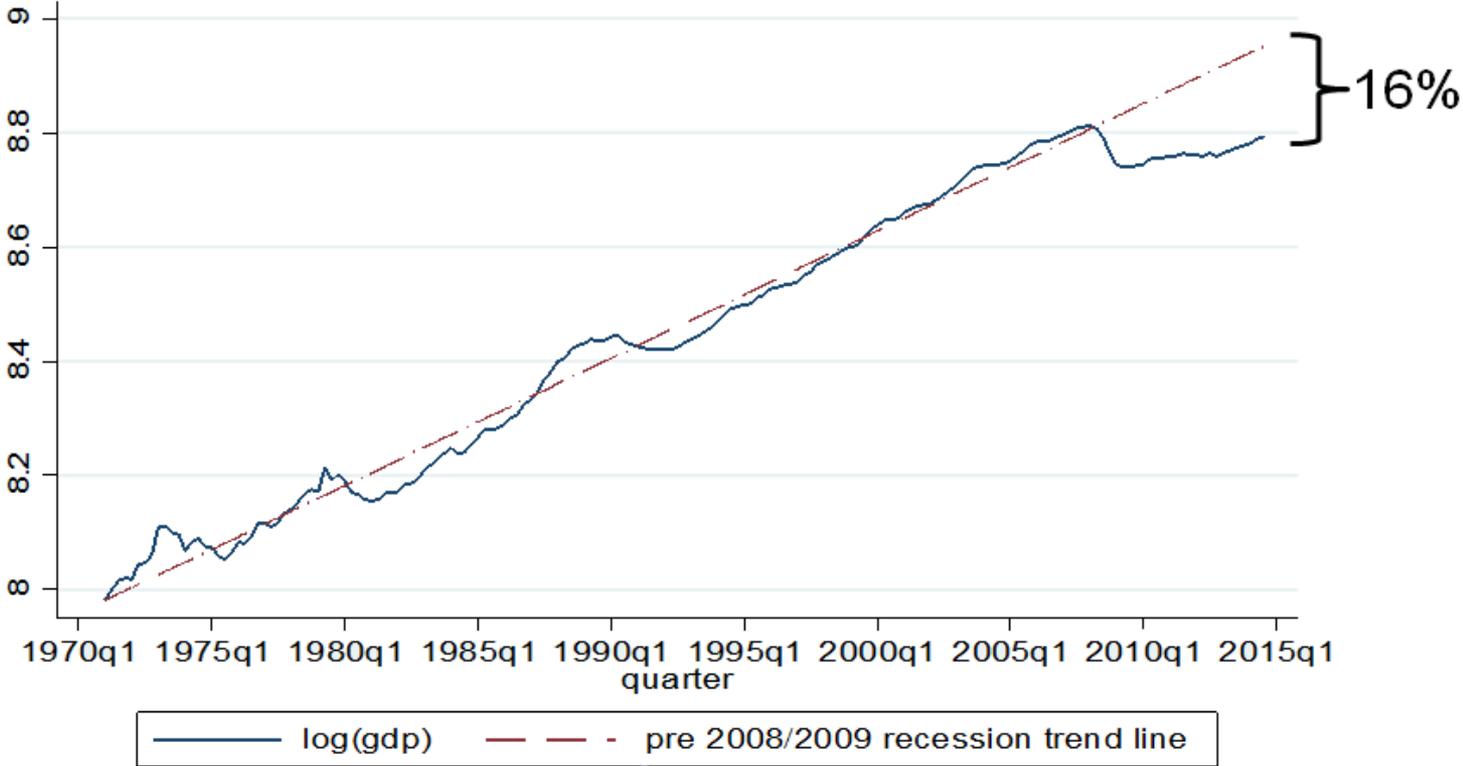


2000

2030

# The Societal challenges:- Aging population



## Projected Population - Older People (2008-2033)

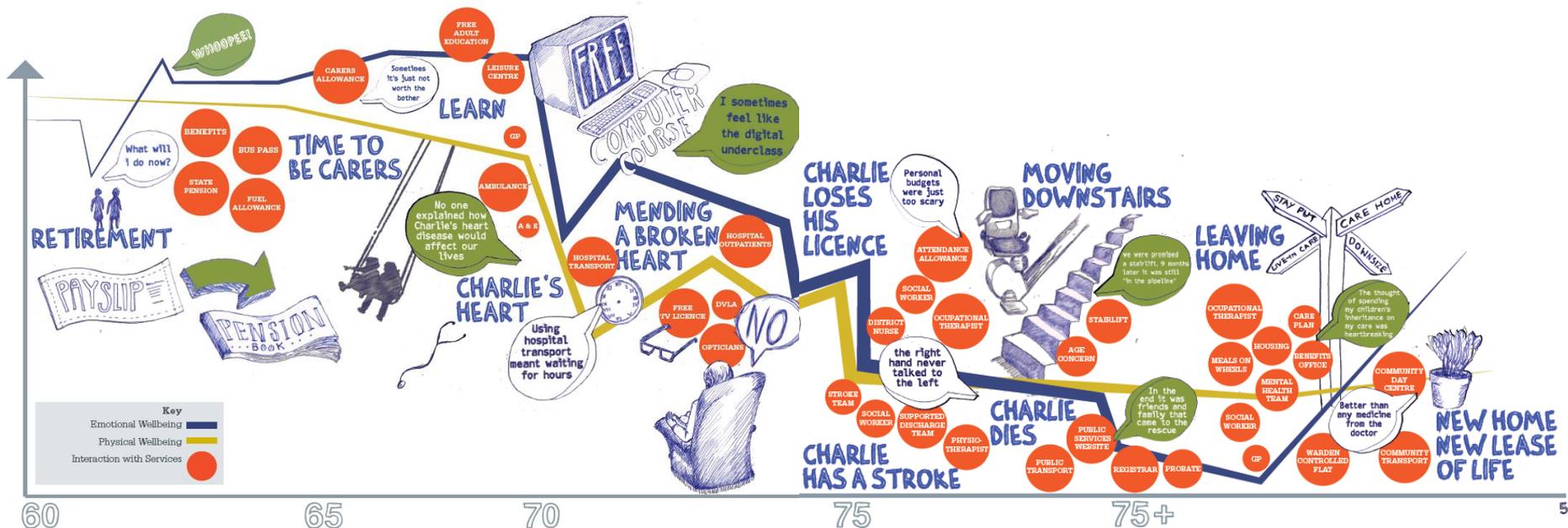|  | North East England | North West England | Yorkshire And The Humber (England) | East Midlands (England) | West Midlands (England) | East (England) | London (England) | South East (England) | South West (England) | Scotland (2008 - 2031) | Northern Ireland (2008 - 2031) | Wales (2008 - 2031) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2033 | 775.7 | 1,969.5 | 1,545.5 | 1,459.2 | 1,597.3 | 1,939.0 | 1,516.1 | 2,750.4 | 1,906.4 | 1,361.0 | 422.0 | 846.0 |
| 2008 | 516.7 | 1,338.1 | 996.8 | 874.4 | 1,066.1 | 1,157.7 | 1,051.5 | 1,668.2 | 1,172.5 | 859.0 | 250.0 | 541.0 |

# Economic challenges:- Falling GDP

**Challenges facing the NHS and Social care**

- 65+ population is set to almost double (16.8m)
- 85+ population to quadruple to 4 million
- People living for longer (often with LTC's)
- Fewer carers (Now more people aged over 65 than under 16)
- Less money in the system (GDP falling)

NHS is changing the way it delivers care to improve efficiency and productivity.

Source:- The Young Foundation

# Changing the ways patients interface with healthcare

# Changing the ways patients interface with healthcare

- GP led facility
- Open 8am to 12pm 7 days a week
- Aim to assess 95% of patients within 15 minutes
- Diagnostic services including x-ray, ultrasound and a range of blood test
- Observation beds
- Resuscitation
- Dedicated Ambulance bay

**Outcomes**

- Significant Reduction in activity in admission and ED (fewer patient journeys)

- £600,000+ annual savings in its first year of operation

# Changing the ways patients interface with healthcare



**Digital health:- reducing face to face appointments**

- Skype and telephone consultations
- Patient Online– reducing DNAs
- Babylon Health
- MyCOPD

**Digital healthcare:- the future**

- AI to triage patients
- Machine learning to improve decision making and diagnostics

# Changing the ways patients interface with healthcare

**Delivering more care in the home and community**

# Changing the ways patients interface with healthcare

**Technology Enabled Care**

# The next 10 years

**Key technology areas**

- Driverless vehicles:- a revolution in personal mobility?

- IoT linked to machine learning:- connected devices and sensors detecting changes in behaviour and predicting health issues