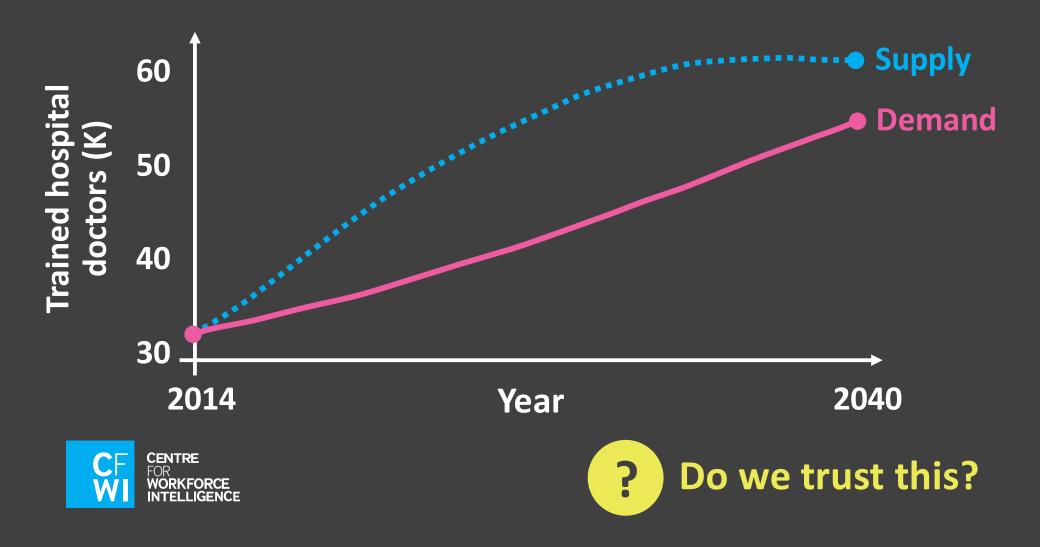
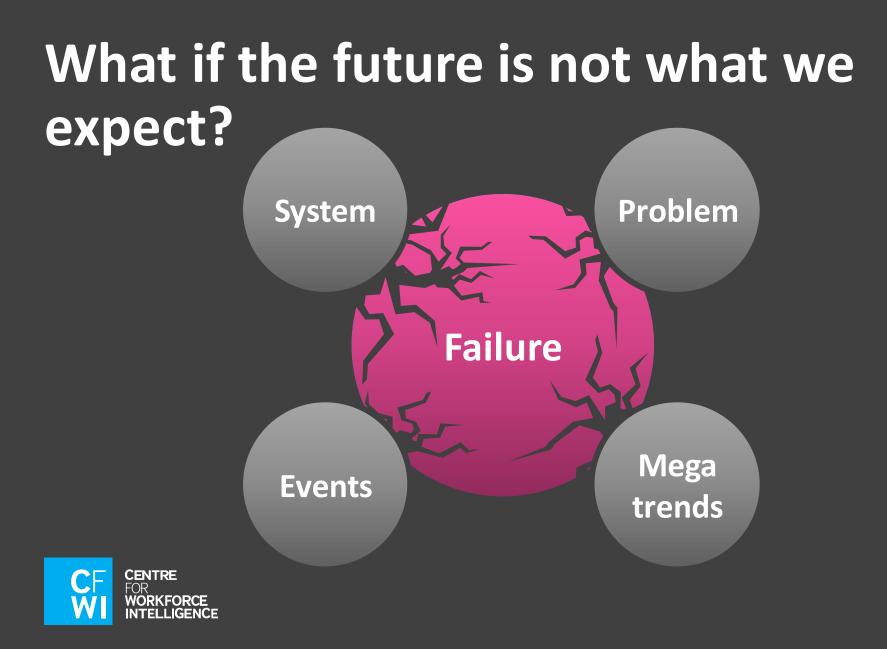


## Applying scenario methods to health and social care workforce planning

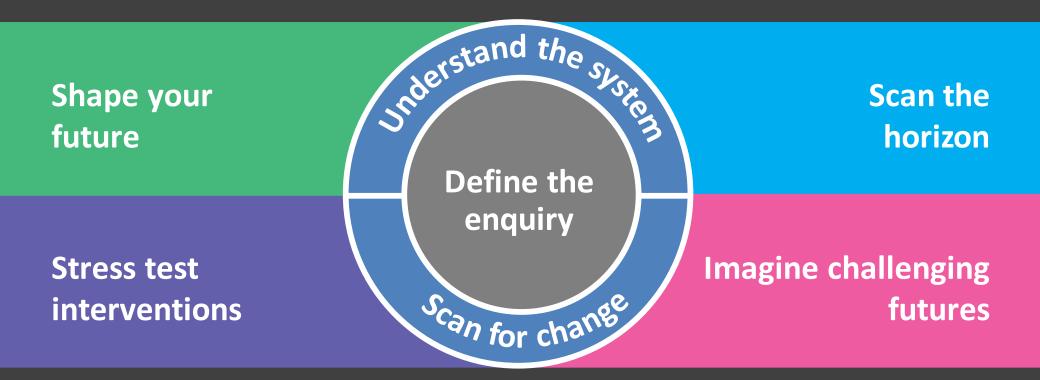
Dr. Graham Willis Head of Research and Development, CfWI E: graham.willis@cfwi.org.uk T: +44(0)78 1234 0405

## What we used to do...





## **Robust workforce planning**





High degree of stakeholder involvement in all stages

## Horizon scanning

Issues

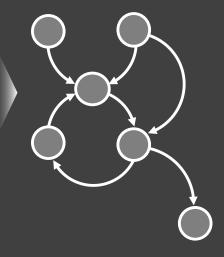
Factors

**Events** 

Contextual analysis

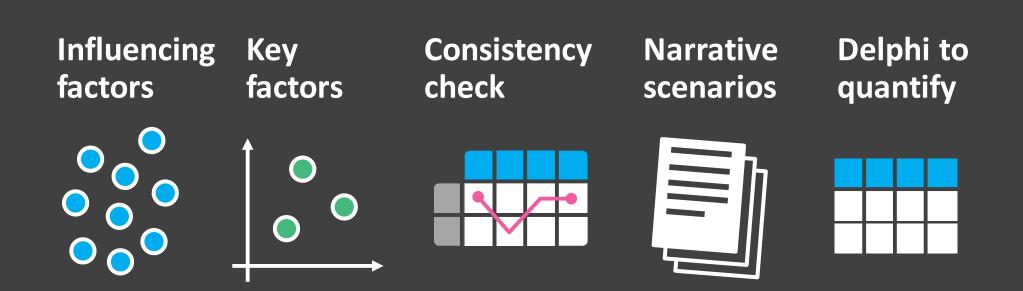
# Ideas about the future

Probability Impact Workforce Stakeholder Systemic analysis



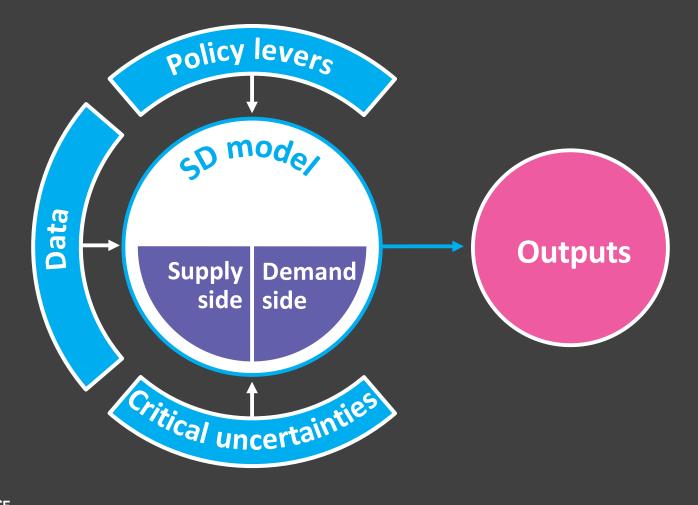


## Scenario generation





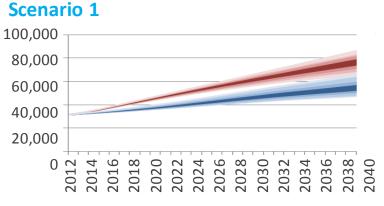
## **Modeling and simulation**



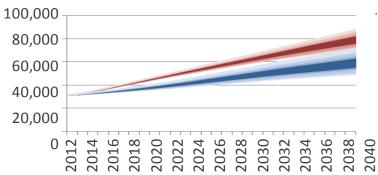


# Pharmacy: how uncertain is the future?

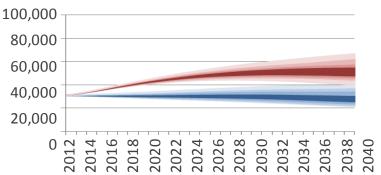
Number of pharmacists (full-time equivalent)



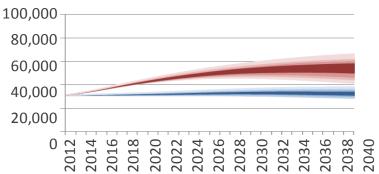
### Scenario 3



#### Scenario 2

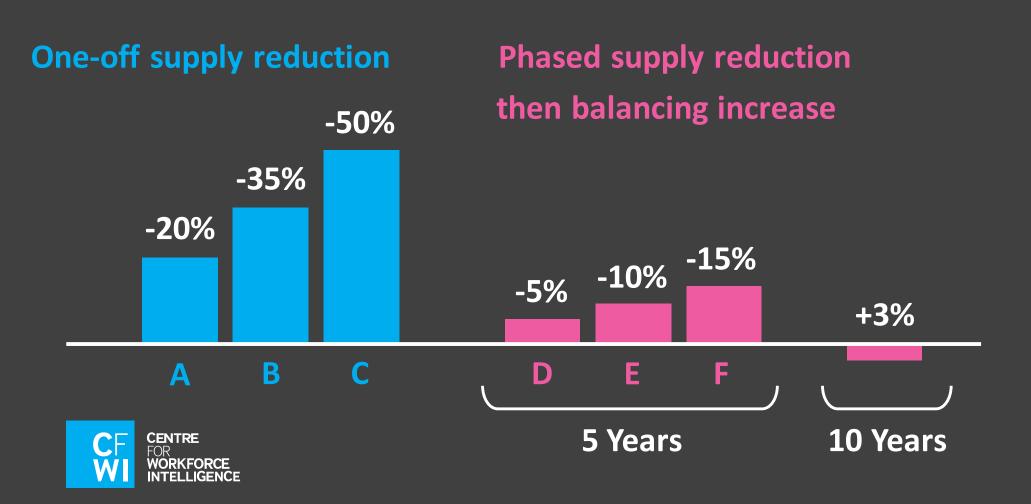


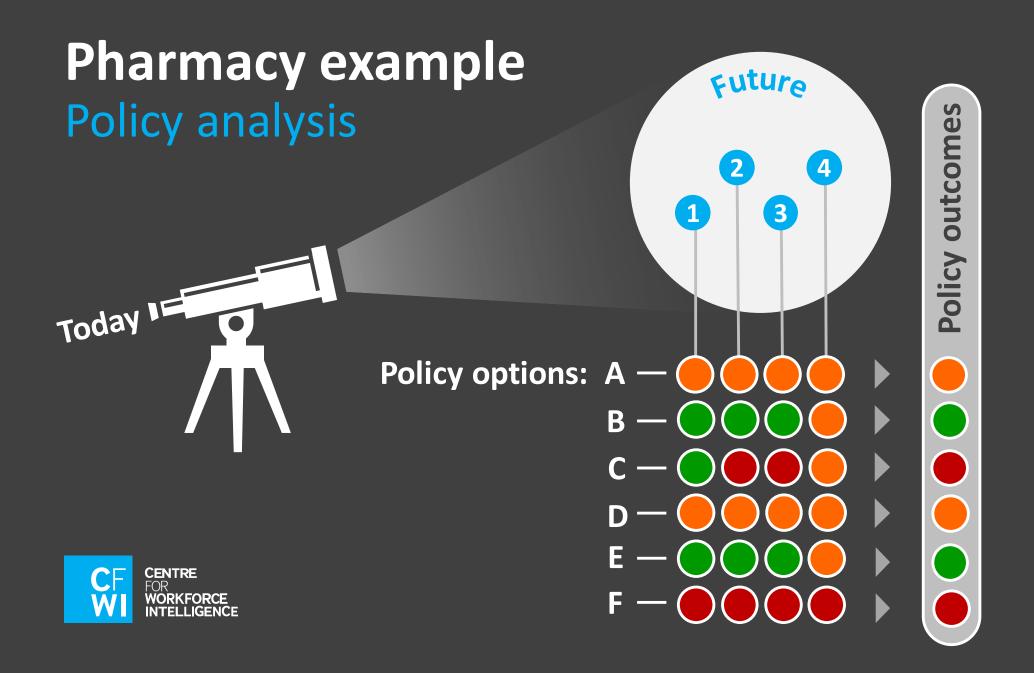
#### Scenario 4



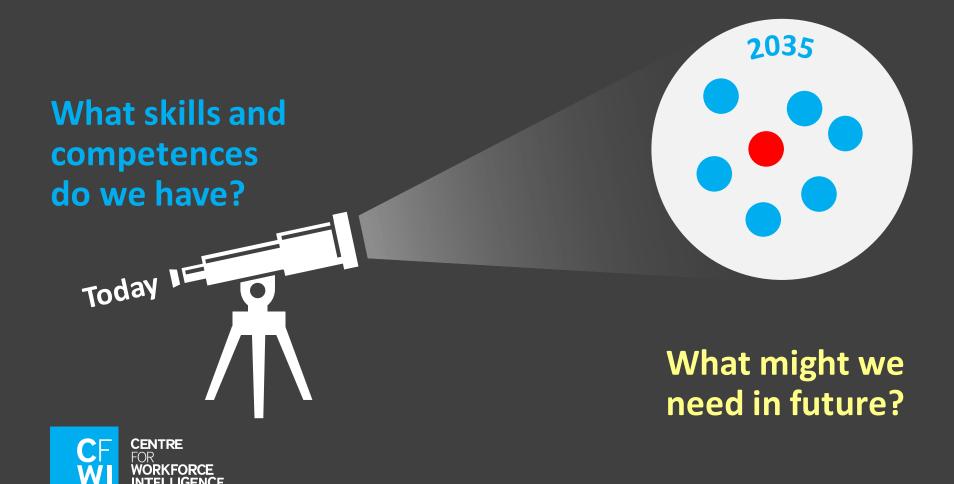
Year

# **Policy options**



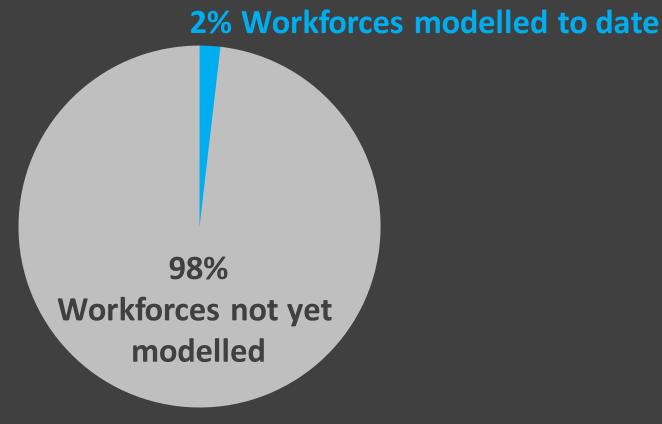


## A new challenge: Horizon 2035



## What had we modelled in 2013?

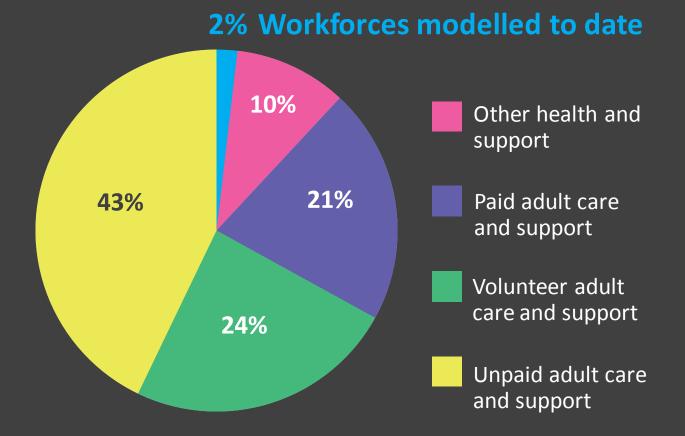
Health Public health Social care





## What about the rest of the system?

Health Public health Social care





Some embarrassing problems... ...mostly resolved!

- 1. Too many Delphi questions!
- 2. Only four scenarios?
- 3. We don't know what skills are needed to meet future demand.

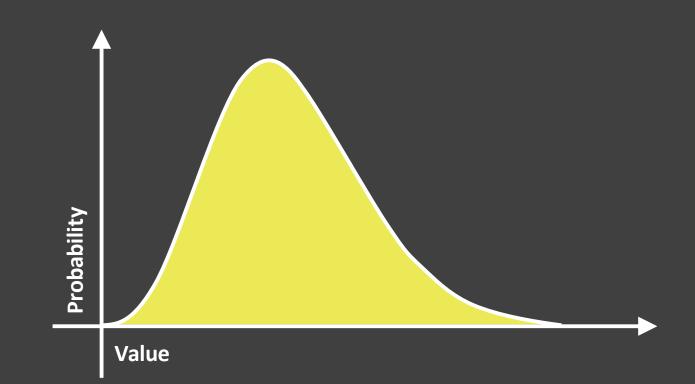


## **Solution 1: SHELF**

Sheffield Elicitation protocol

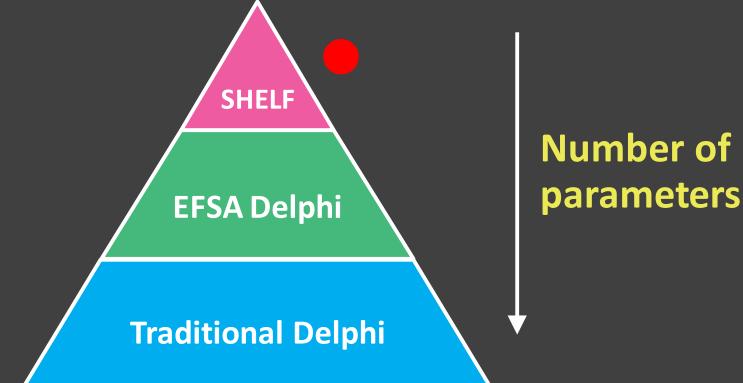
Monte Carlo simulation





# Solution 1: Expert elicitation framework

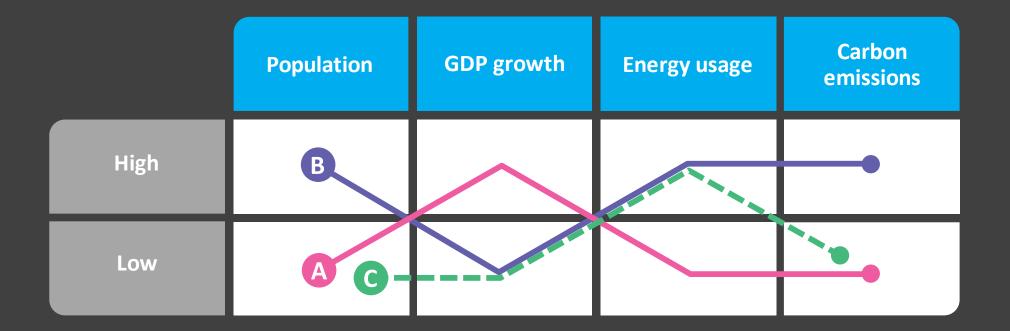
Intensity of effort





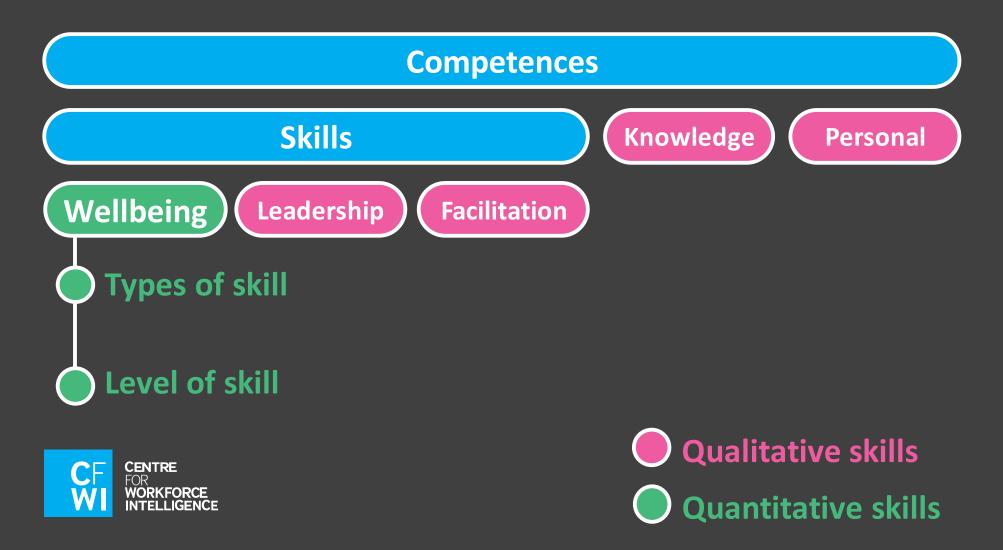
## **Solution 2: GBN method +C +A** $\bigcirc$ R +D -D **-**C **-B** +B CENTRE FOR WORKFORCE ·Δ

## Solution 2: CIB Analysis





## Solution 3: Skills framework



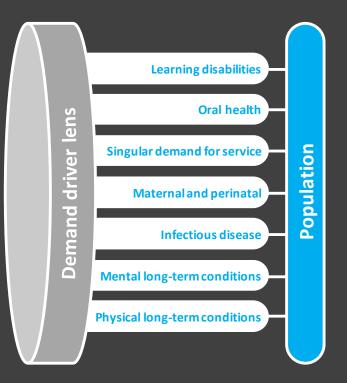
## What skills do you have today?

### **Skill types** groups Prevent Adult social care and competency lens Enable Nurses Assess Dentists Plan **Medical generalists** Treat **Medical specialists** Rehabilitate Skills Volunteer care and support Relieve Other workforce groups Link CENTRE FOR WORKFORCE INTELLIGENCE

Workforce

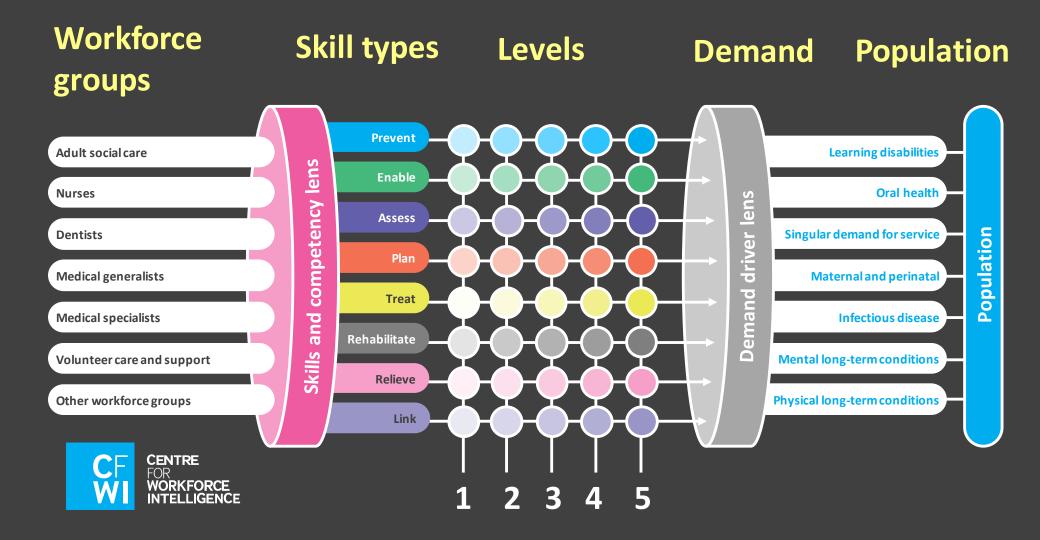
## What drives the demand for skills?

## **Demand Population**

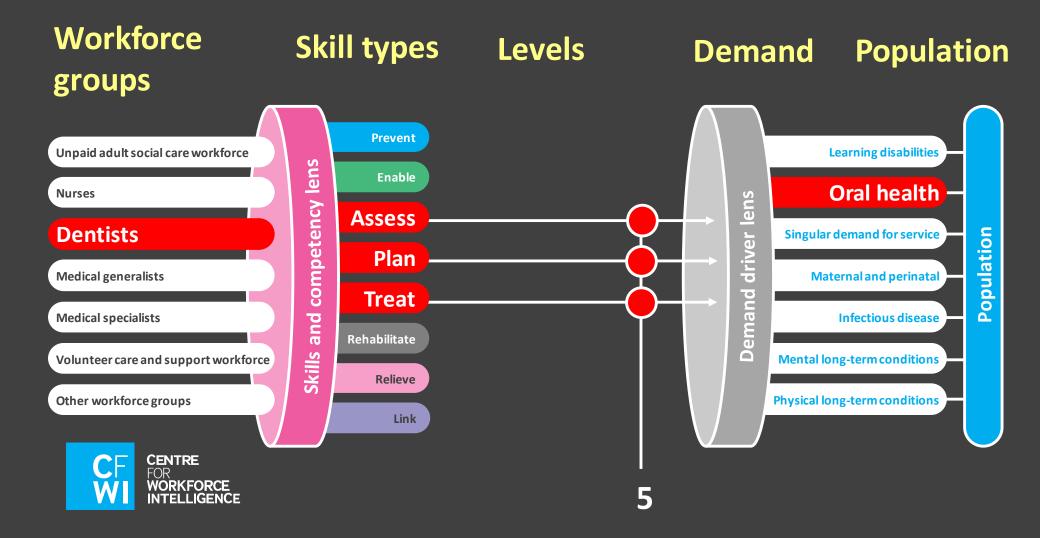




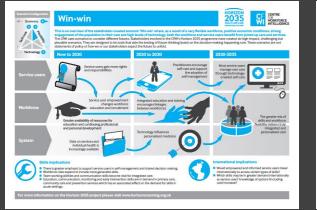
## How do our skills met demand?

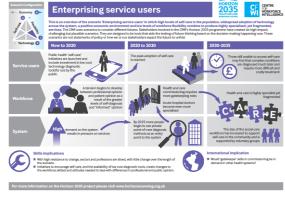


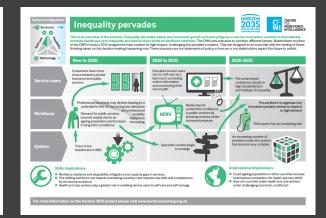
## How do our skills meet demand?



## **Different futures** Six narrative and quantified scenarios





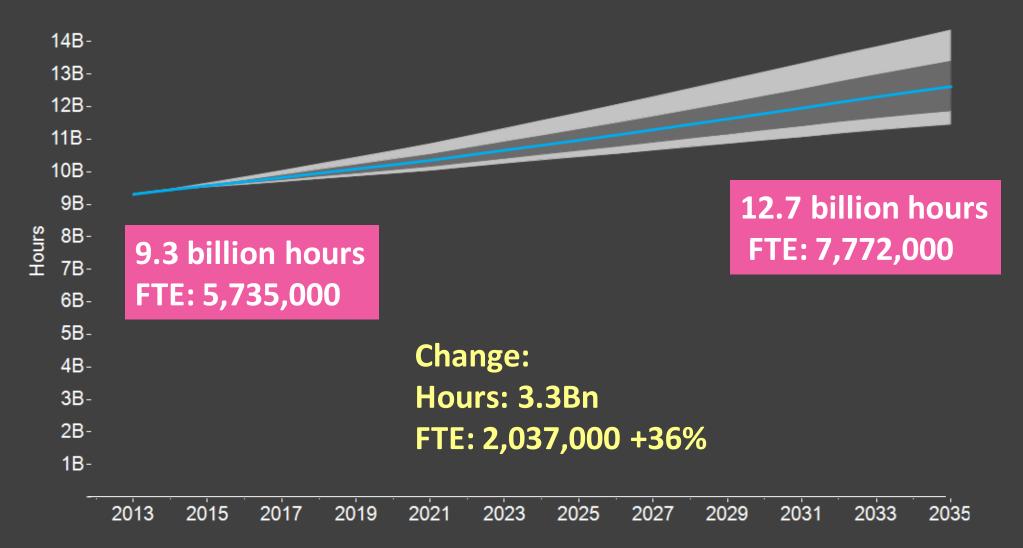




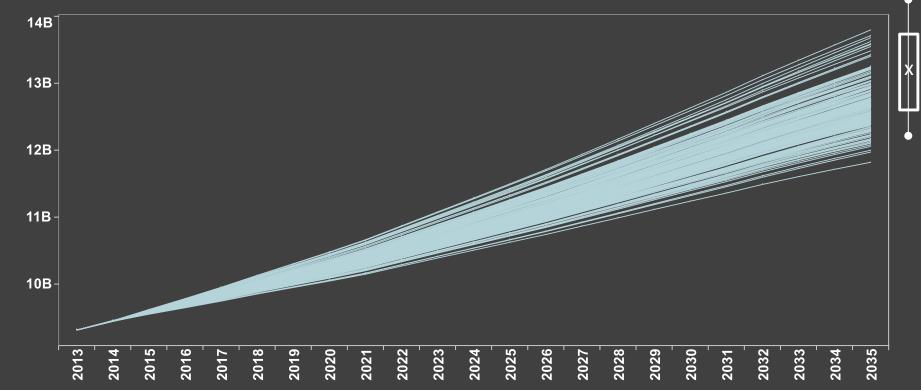


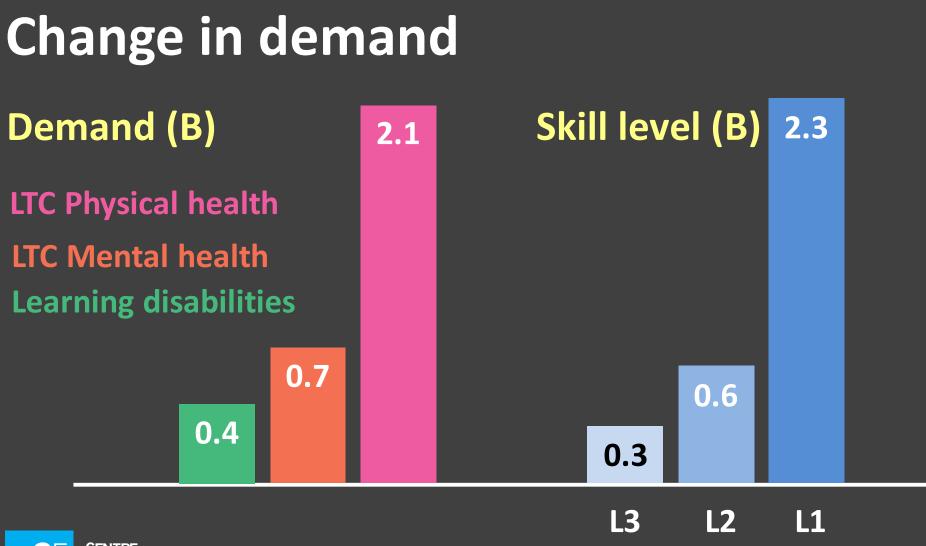


## How does skills demand change? Reference future



## How does skills demand change? Monte Carlo simulation







## Next steps

- 1. Multi-scale scenarios and reuse.
- 2. Probability of scenarios?
- 3. Presenting findings to policy makers.



## **More information**



Horizon 2035 Future demand for skills: Initial results

http://www.cfwi.org.uk/publications /horizon-2035-future-demand-forskills-initial-results





## Applying scenario methods to health and social care workforce planning

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