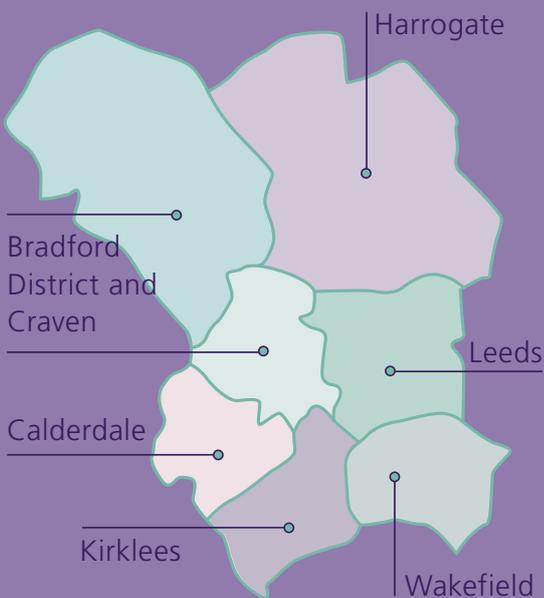


# Telling our Partnership story



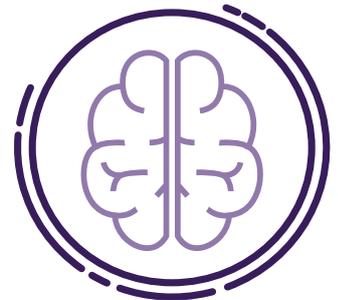
## Proud to be the West Yorkshire and Harrogate Health and Care Partnership

Committed to improving the health and wellbeing of people living in:



- > Working to improve people's health with and for them
- > Improving people's experience of healthcare
- > Making every penny in the pound count
- > Working to keep people well and make life better for 2.6 million people living in West Yorkshire and Harrogate.

West Yorkshire and Harrogate Health and Care Partnership



## Using artificial intelligence to help prevent suicide

### Our ambition

Partners in West Yorkshire and Harrogate have adopted a 'zero' suicide approach, where every death by suicide is viewed as preventable. There is an ambitious plan to reduce suicide by 10% across the area and by 75% in targeted communities. The task is to identify those at risk sooner rather than later - and before it's too late.



## What we are doing

South West Yorkshire Partnership NHS Foundation Trust is working with the University of Huddersfield to pioneer the use of computer artificial intelligence (AI) to predict which mental health patients are most likely to take their lives.

By studying anonymised medical records of patients who had died by suicide, a computer programme has been created that could help predict who is most at risk. With further work, the AI could be used to scan people's electronic medical records in real time and produce daily lists of those who are likely to take their own lives.

Worldwide, this is among the first uses of AI for suicide prevention. Initial results are very promising and form the basis of a paper published by the journal Crisis.

## What next?

Now that the potential to predict suicides using AI has been established, work will continue so that the technology can be used by healthcare professionals in their day to day work.

The prototype of the automated suicide predictor is locally adapted to the Trust; but the AI could be **adapted for other mental health services.**



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A partnership made up of the NHS, local councils, care providers, Healthwatch, community and carers organisations.

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West Yorkshire and Harrogate  
Health and Care Partnership

