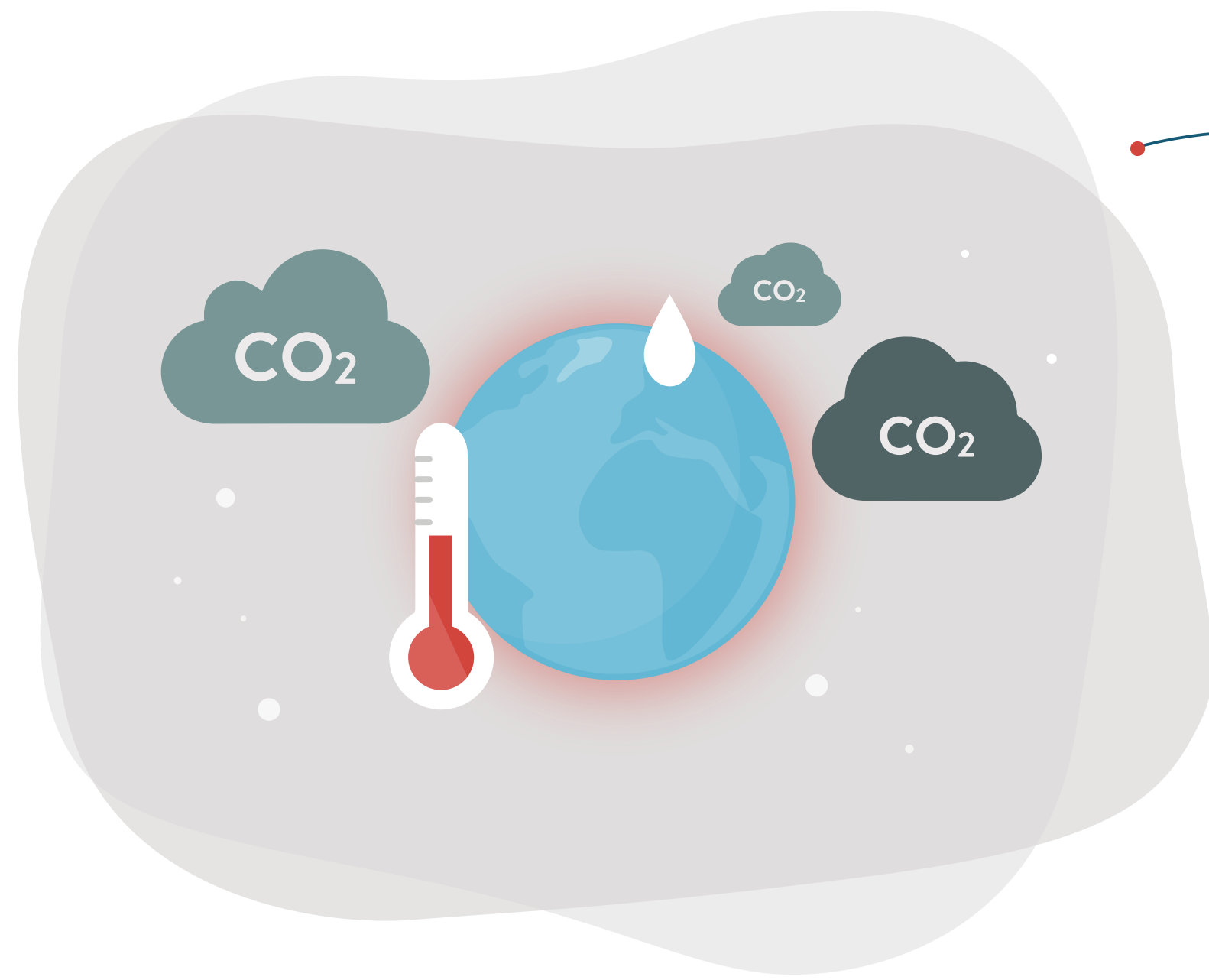


# The Hy4Heat Programme

1 **Carbon Dioxide** is contributing to climate change and global warming



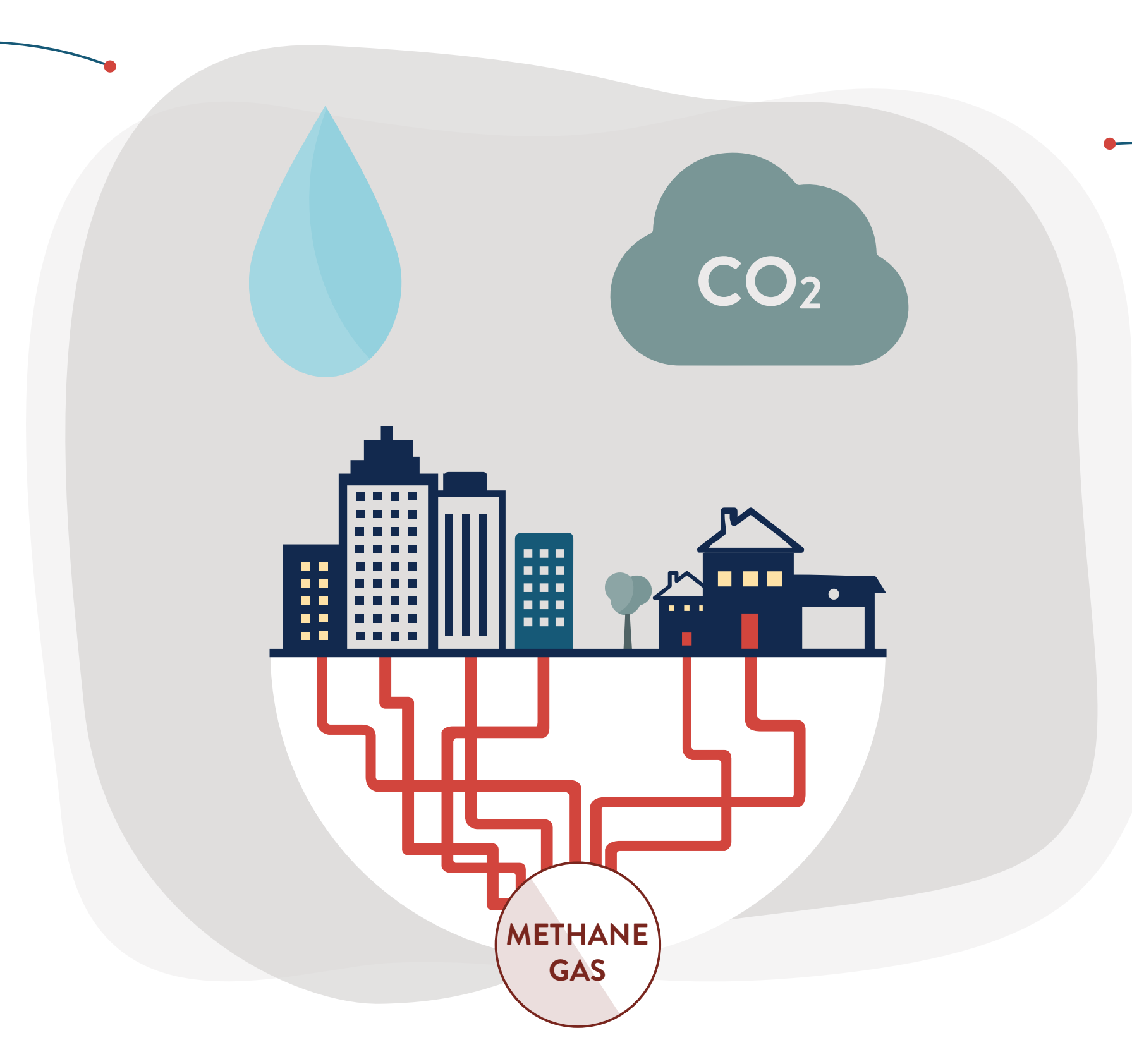
2 The UK government has a 2050 target to **reduce carbon emissions to net zero**



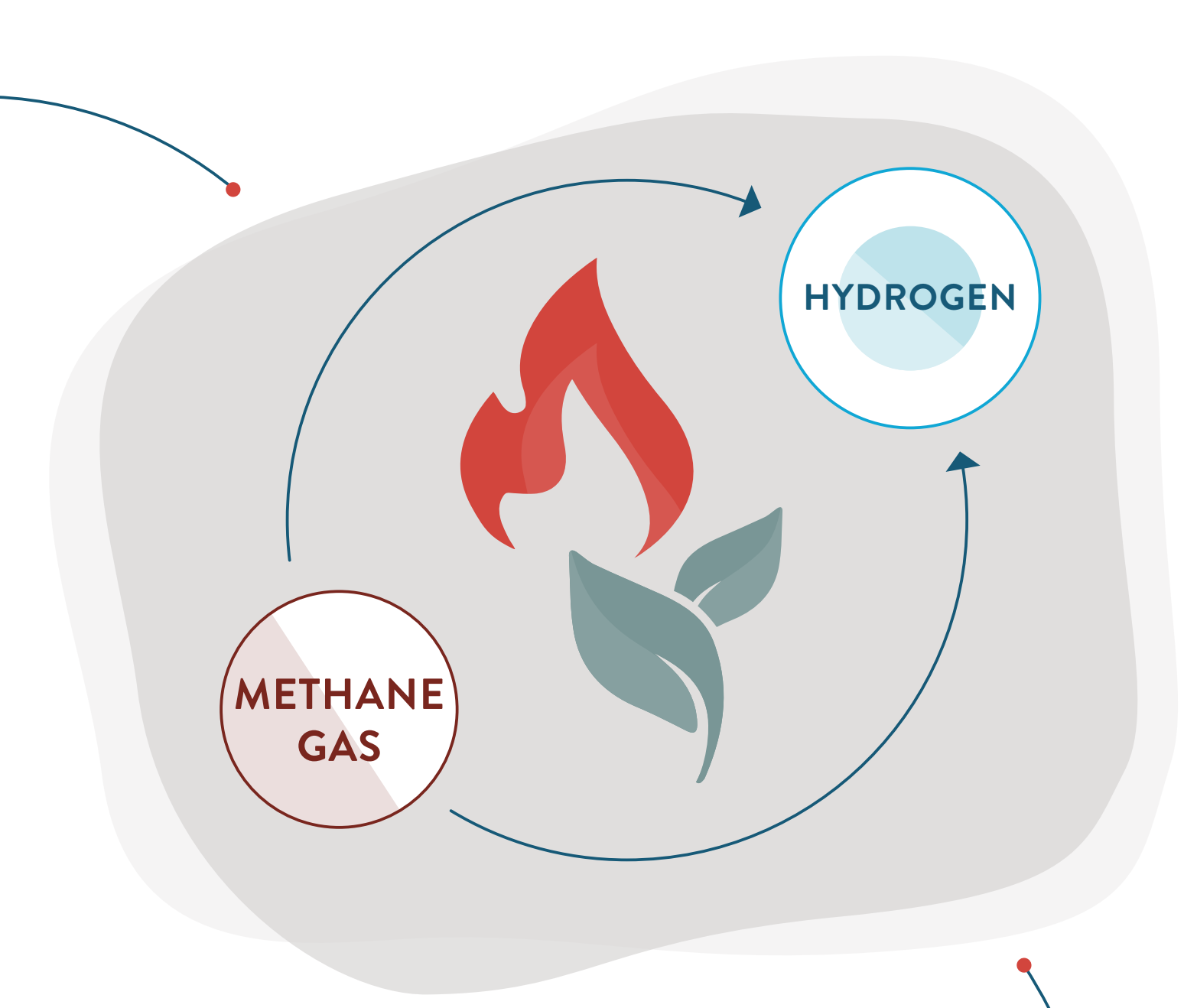
3 Heating and cooling UK homes is about **half all energy consumption and a third of carbon emissions**



4 **80% of homes** use natural gas (methane). When used for heating and cooking, this releases water and carbon dioxide



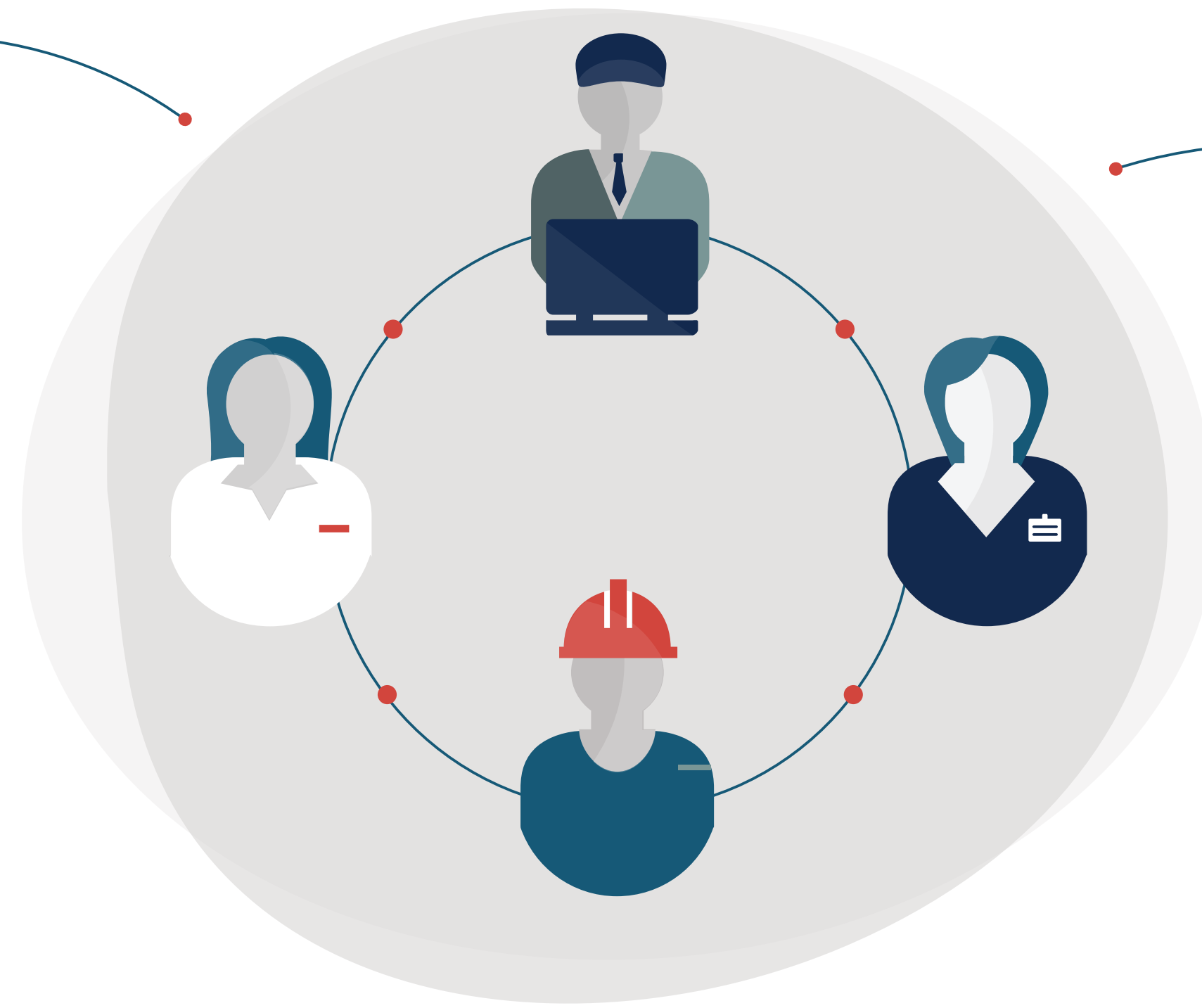
5 **BEIS** (Department for Business, Energy & Industrial Strategy) is looking at ways of **decarbonising heat**. One of the options is replacing methane with hydrogen



10 defining a hydrogen **quality standard**...



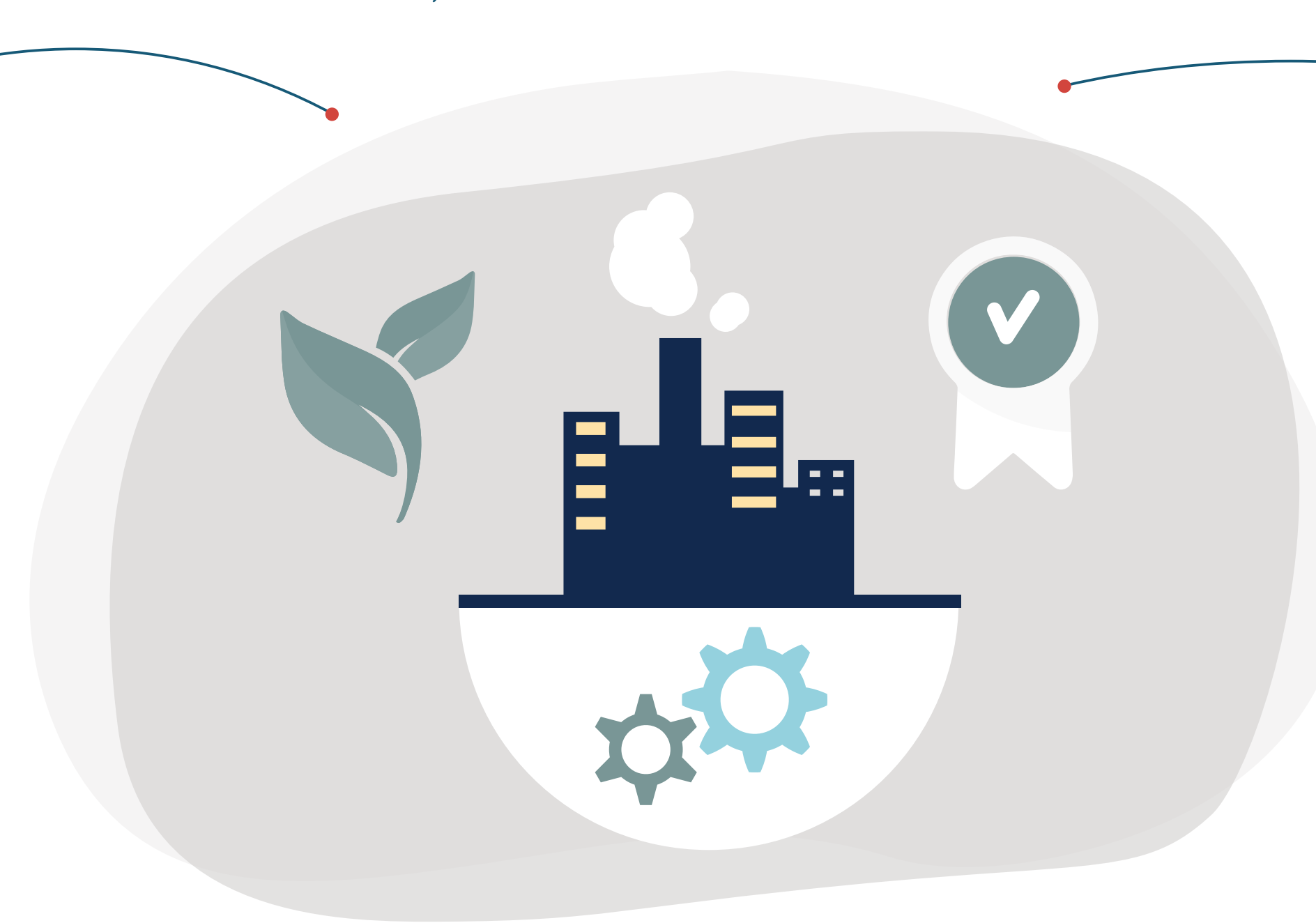
9 Hy4Heat is part of this work – and is a group of **industry partners and experts**...



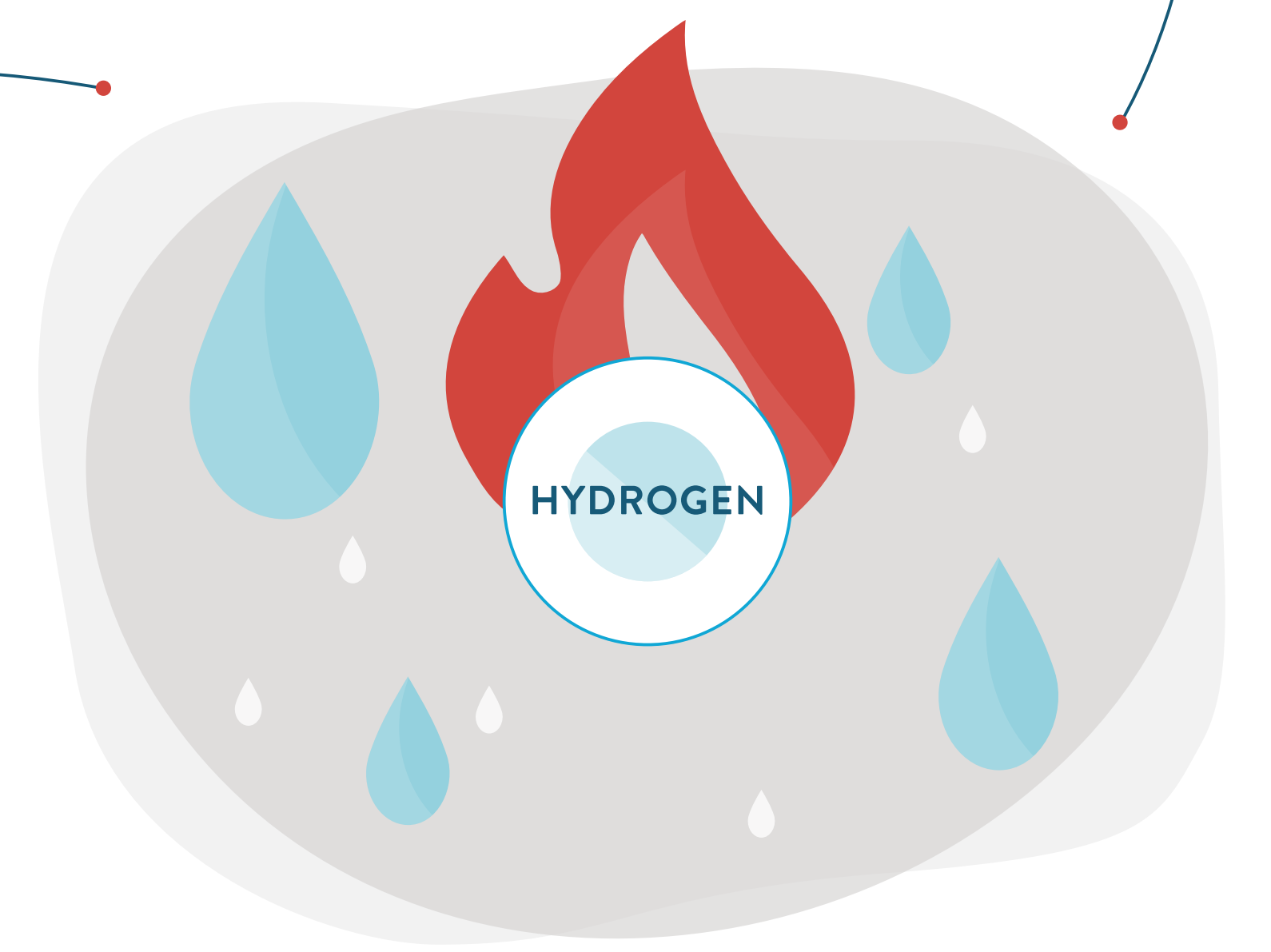
8 through to **how much a change might cost**



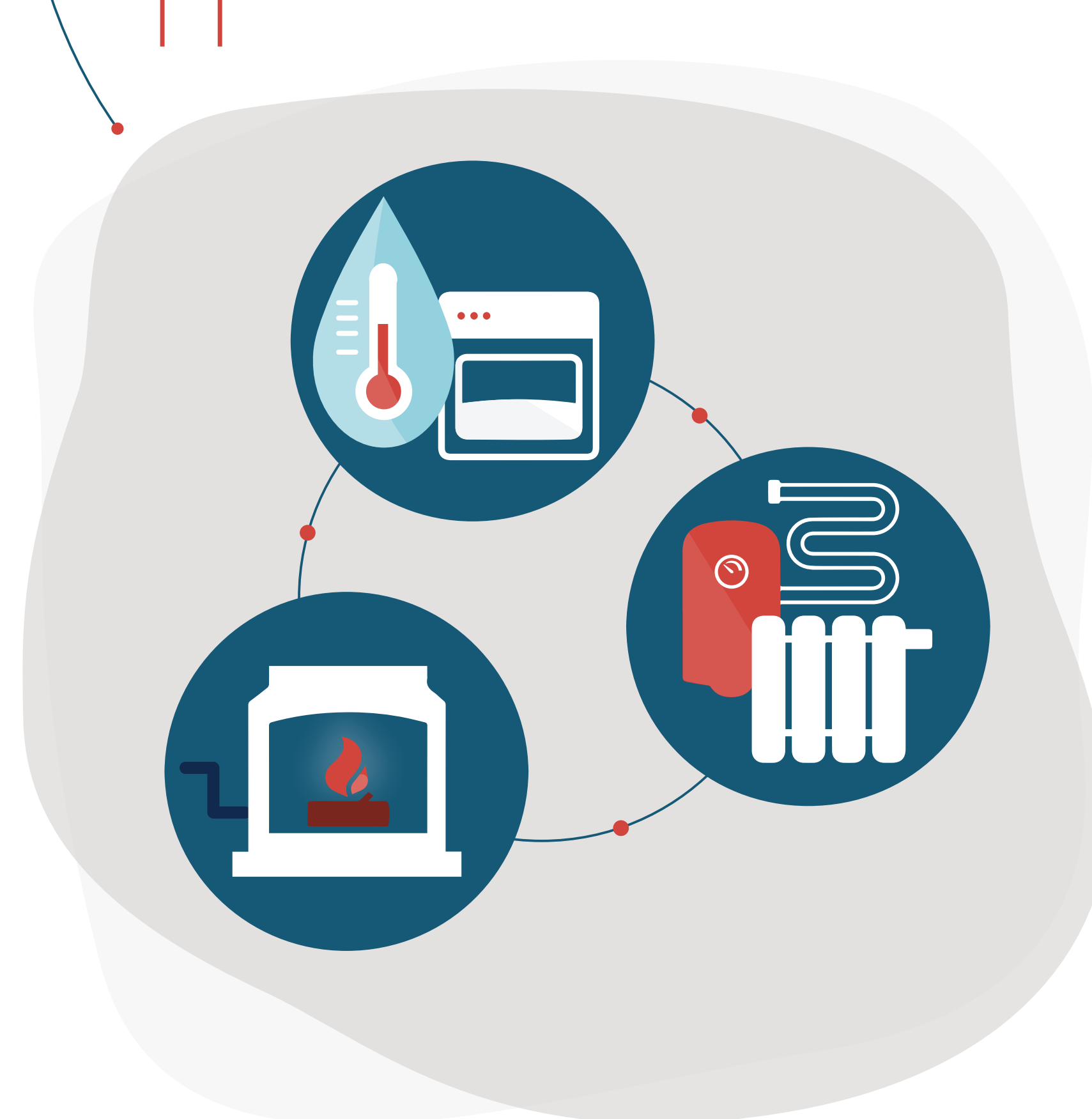
7 BEIS is considering everything: from **how hydrogen could be produced** sustainably, in bulk, with minimal carbon emissions...



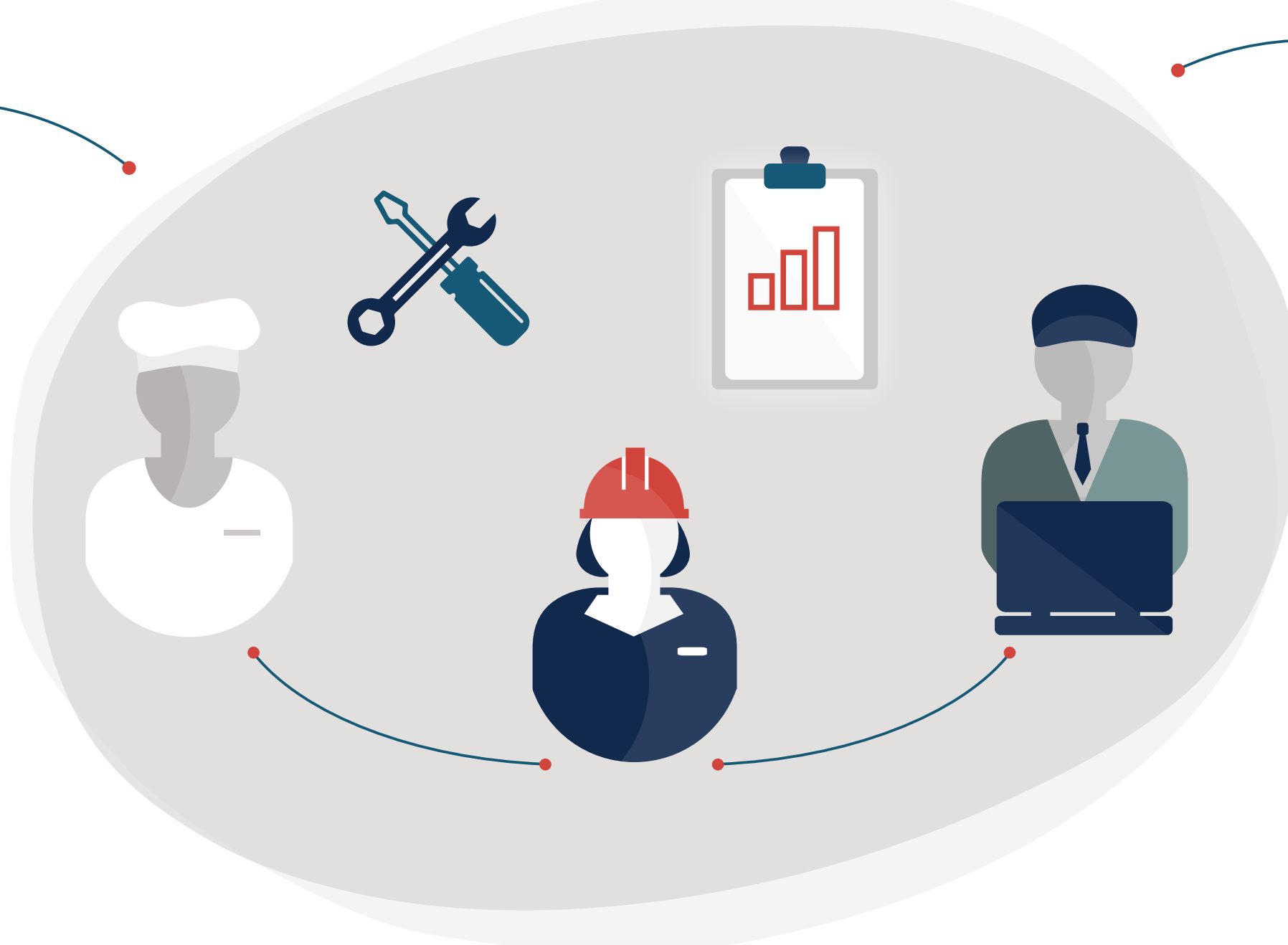
6 Hydrogen, when converted to heat **releases no carbon dioxide**



11 developing appliances for **use with hydrogen gas**...



12 and **testing them** to make sure they're **safe, reliable and convenient**



13 Creating demonstration trials and **getting people's feedback**...



14 and planning in the future to **possibly change a whole community to using hydrogen**

