



Evidencing the impact of outreach participation on student outcomes: Outreach, KS4 attainment and HE progression.....

This infographic highlights the key results from the first of a series of reports produced by the HEAT membership exploring the effect of outreach engagement on student outcomes. These results begin to characterise our HEAT collective outreach cohort in terms of both socio-economic disadvantage and prior attainment at age 16.

The findings are based on the aggregated results of 30 universities and outreach and HESA data collected between the period, 2005-2014. By normalising the HEAT cohort in terms of KS4 attainment we can increase our understanding of the effect of levels of engagement on students who have different academic capital. There is sufficient evidence already that KS4 is a key determinant in HE progression regardless of background and these results will explore the extent to which this may be valid for the HEAT cohort. The analysis will also examine the level and timing of outreach engagement and the effect of these factors on progression for the KS4 groups. This evidence will help in two ways: 1) evidencing a possible relationship between outreach and KS4 and HE progression outcomes and 2) helping WP managers more effectively target outreach resource to optimise the effect on progression outcomes.

In the absence of a control group of students, we suggest that the group of participants who engage in a one-off HE talk is used as a comparator group with very low outreach engagement. It is acknowledged that these results do not provide evidence of a causal relationship between outreach and outcomes due to lack of a control group. The results suggest a link between level of outreach engagement and how this engagement may have contributed to outcomes; further analysis will be undertaken to triangulate these findings. It is also recognised that individual HEAT member universities will need to interpret these results in the context of their outreach strategy and delivery, including how they target their outreach cohort.

Describing the outreach participant cohort used in this analysis:

KS4 and KS5 data was available for a subset of HEAT outreach participants from **30** member universities

58,997



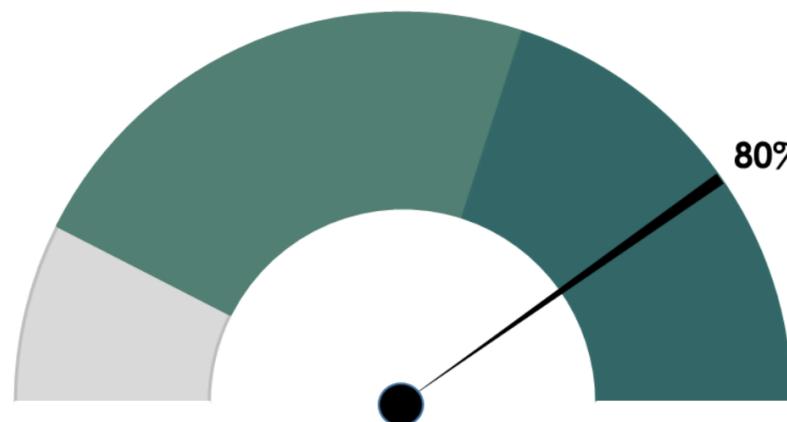
Number of participants with KS4 data

44,115



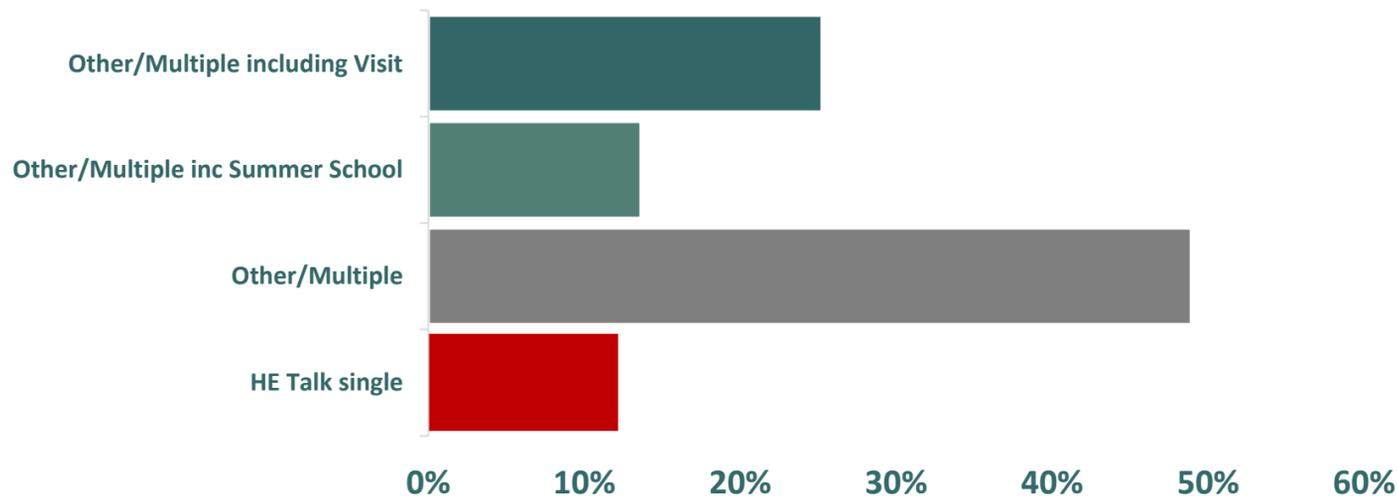
Number of participants with KS5 data

Disadvantaged' [at least 1 in 4 proxy indicators]	Total of Tracked cohort in Polar Q1-2
63%	50%
White:BME ratio	
80:20	
Self-reported as First Gen HE	
80%	



80% of outreach participants reported that they were first generation HE and half lived in an area with low HE participation rates

Level of outreach engagement % of total participants



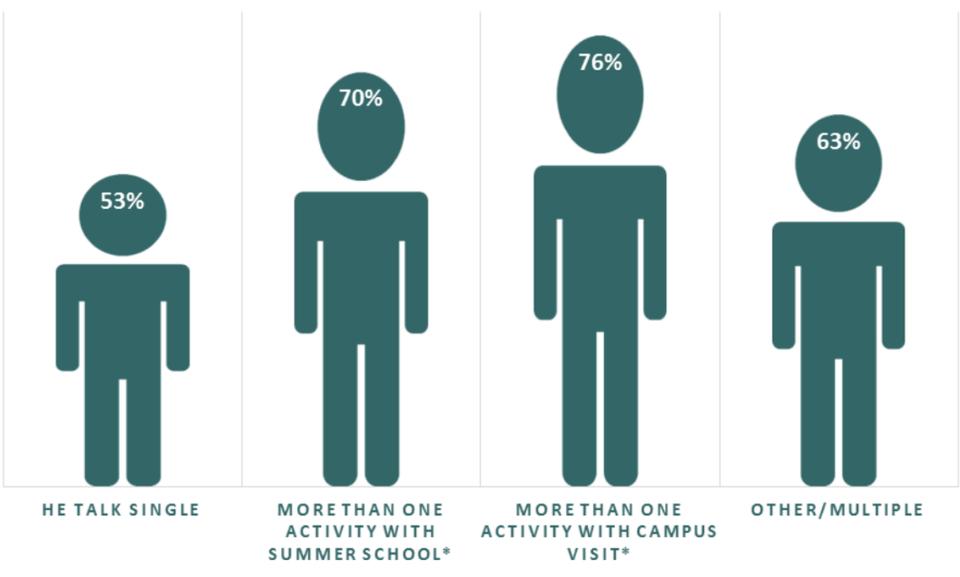
Participants engage in different levels of outreach but the majority have more than just one HE talk



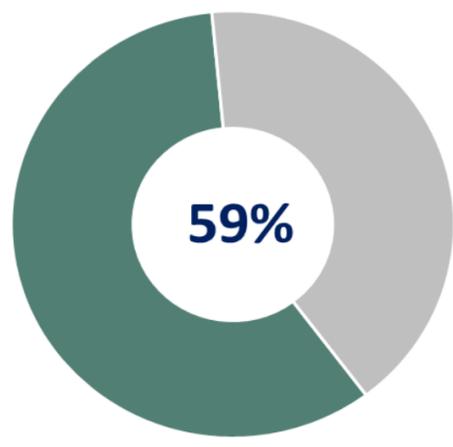
Exploring the relationship between outreach participation and a possible contribution to performance at KS4 for a cohort of participants who engaged prior to and during Year 11

More intensive outreach engagement contributes to higher KS4 performance

% of participants who achieved 5 GCSE A*-C including English & Maths



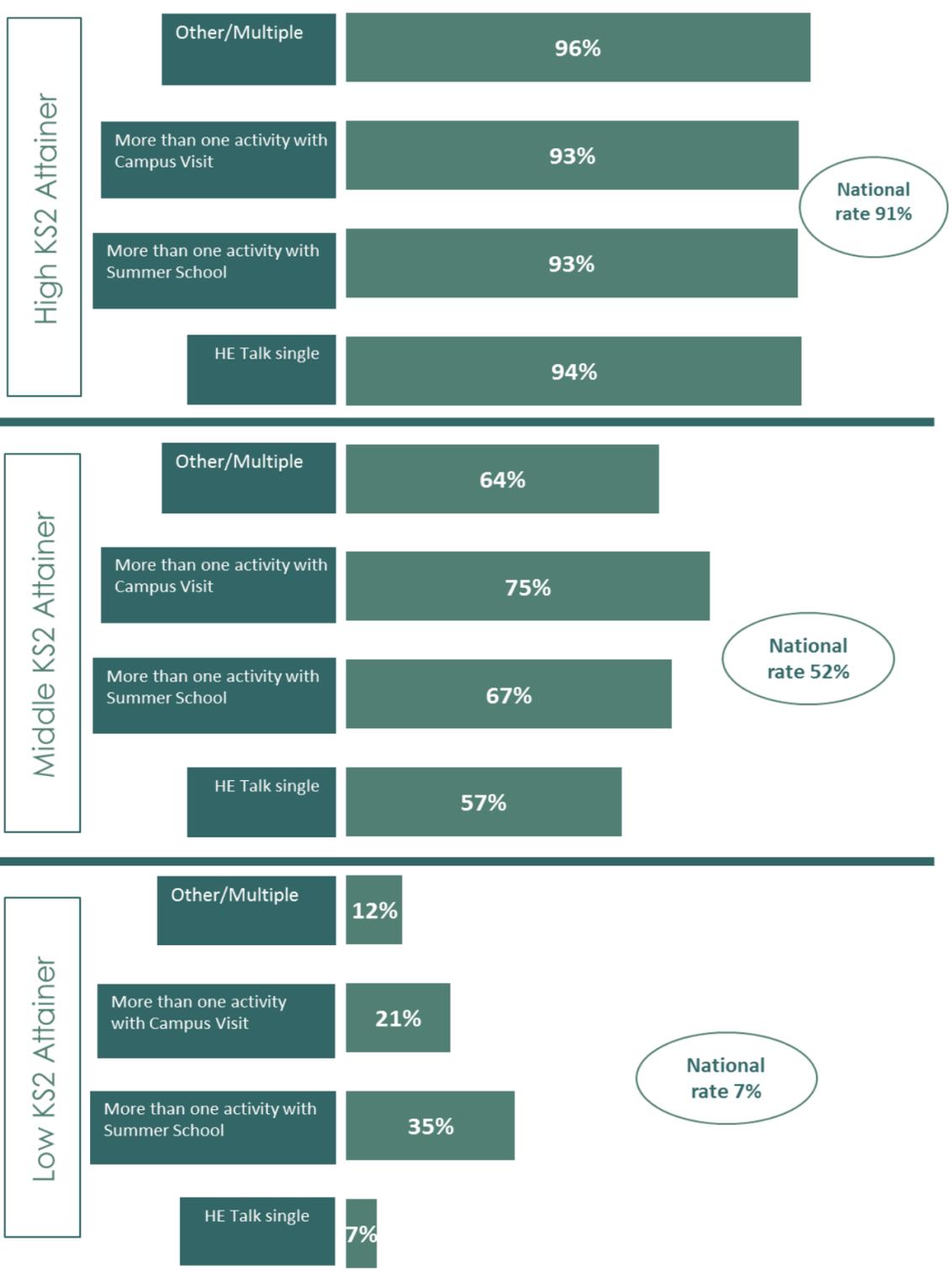
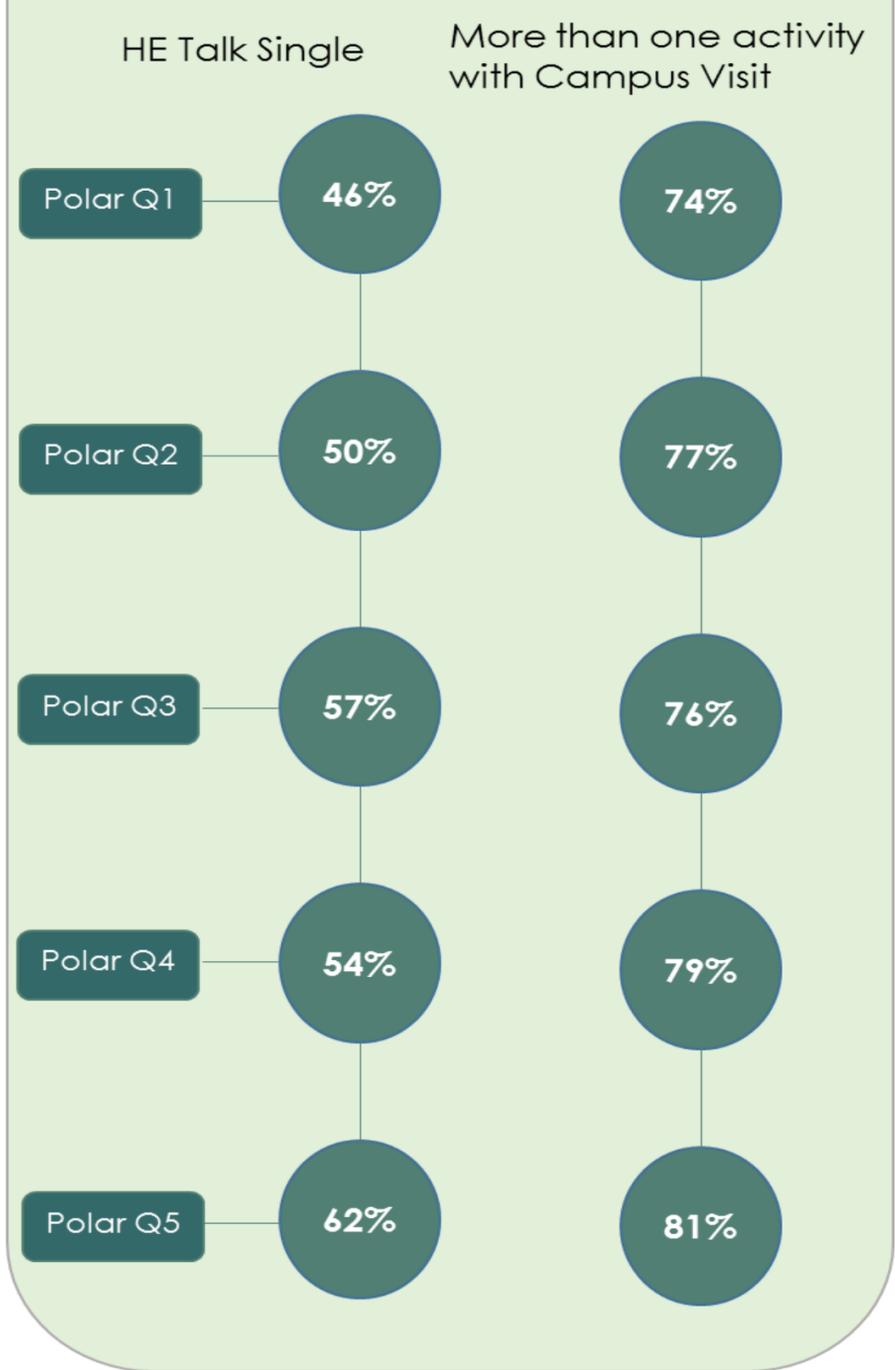
59% of outreach participants who were eligible for FSM achieved their 5 GCSEs including English and Maths, this compares to a national achievement rate of 37% (for students classified as disadvantaged by DfE)



5 GCSE A*-C including English and Maths achievement rates for outreach participants, by KS2 attainment level and the level of outreach engagement.....

- Middle and Low attaining KS2 participants have significantly higher achievement at KS4 than their peers nationally, especially when engaging in multiple or intensive outreach.
- The majority of High KS2 attaining participants achieve at KS4 and outreach engagement level has minimal effect *but* a higher proportion of this outreach group achieved than their peers nationally.

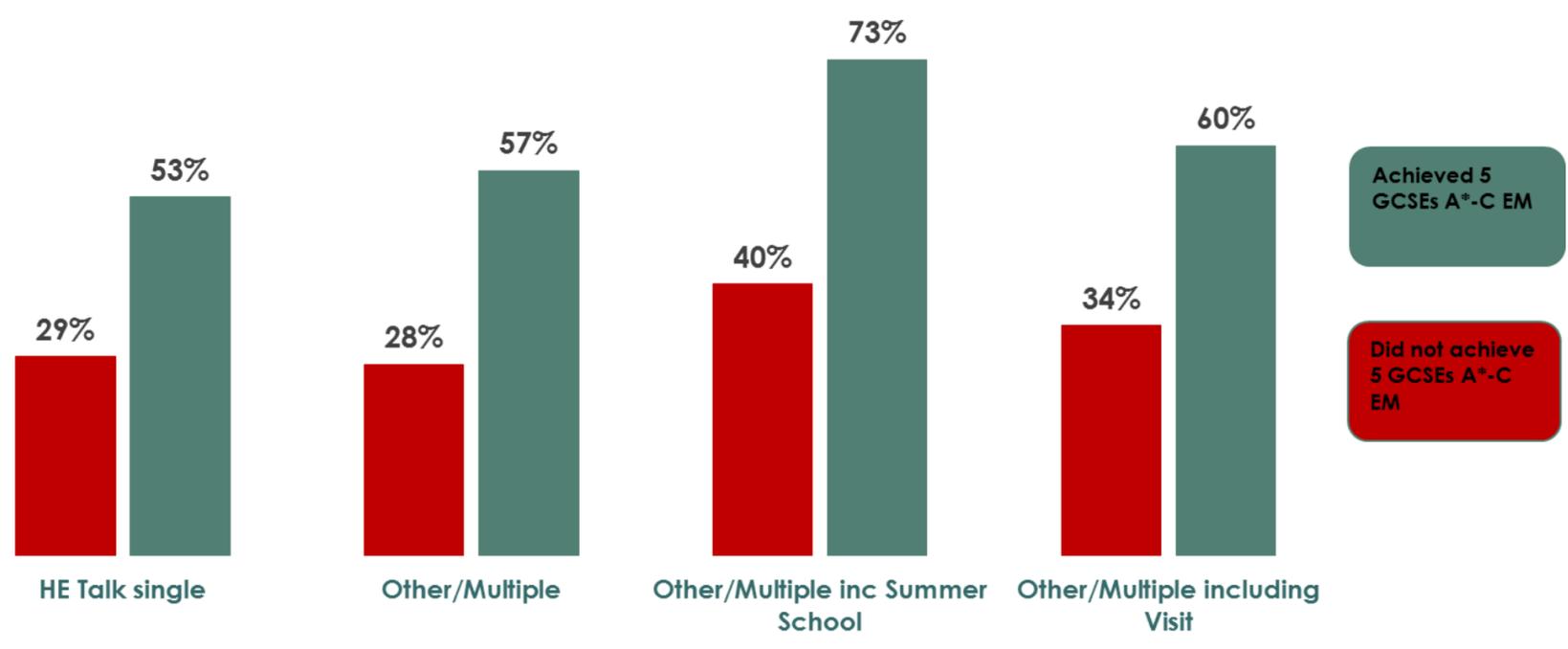
% of participants who achieved 5 GCSE A*-C including English & Maths by Polar3



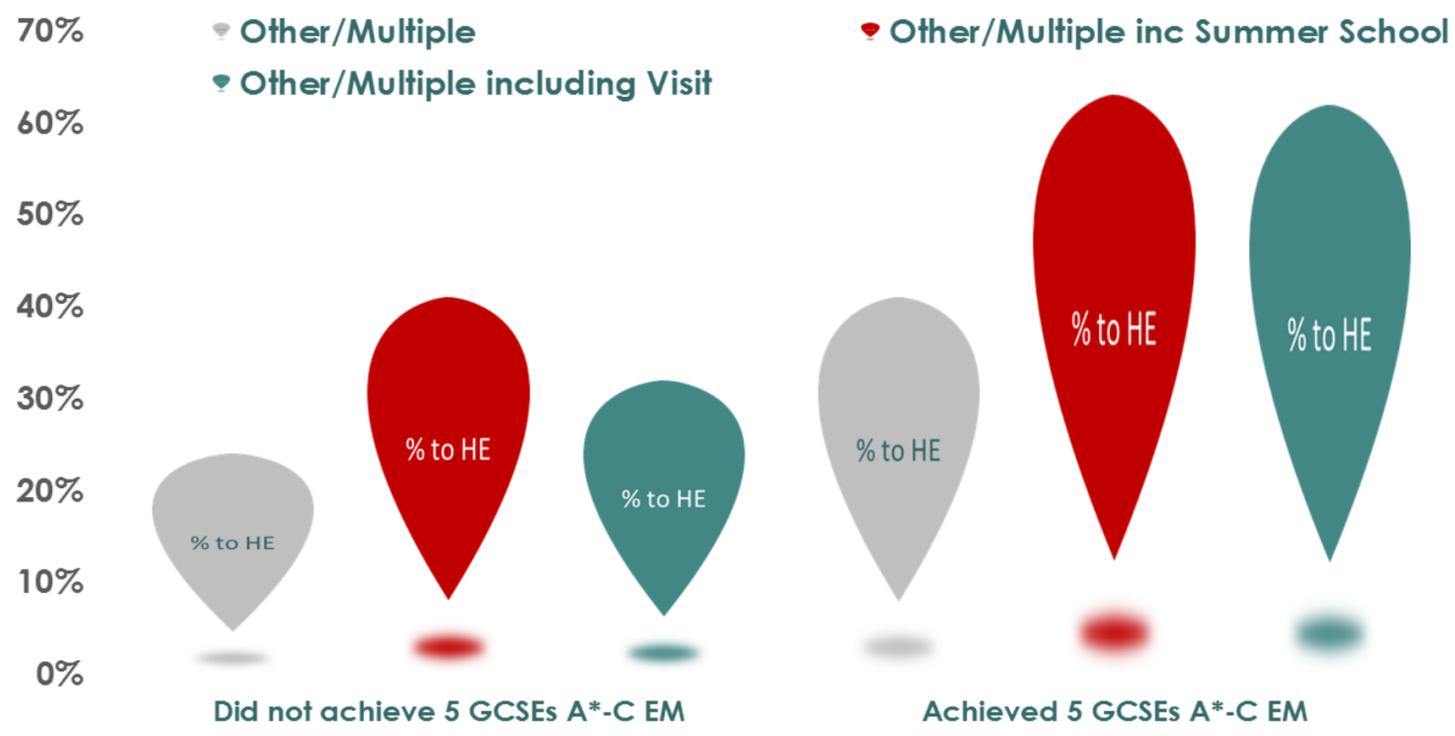
Evidencing how outreach participation impacts HE progression (using KS4 attainment to normalise the cohort)

HE progression rate by KS4 achievement and outreach engagement

Significantly higher HE progression rates for participants in more intensive outreach.

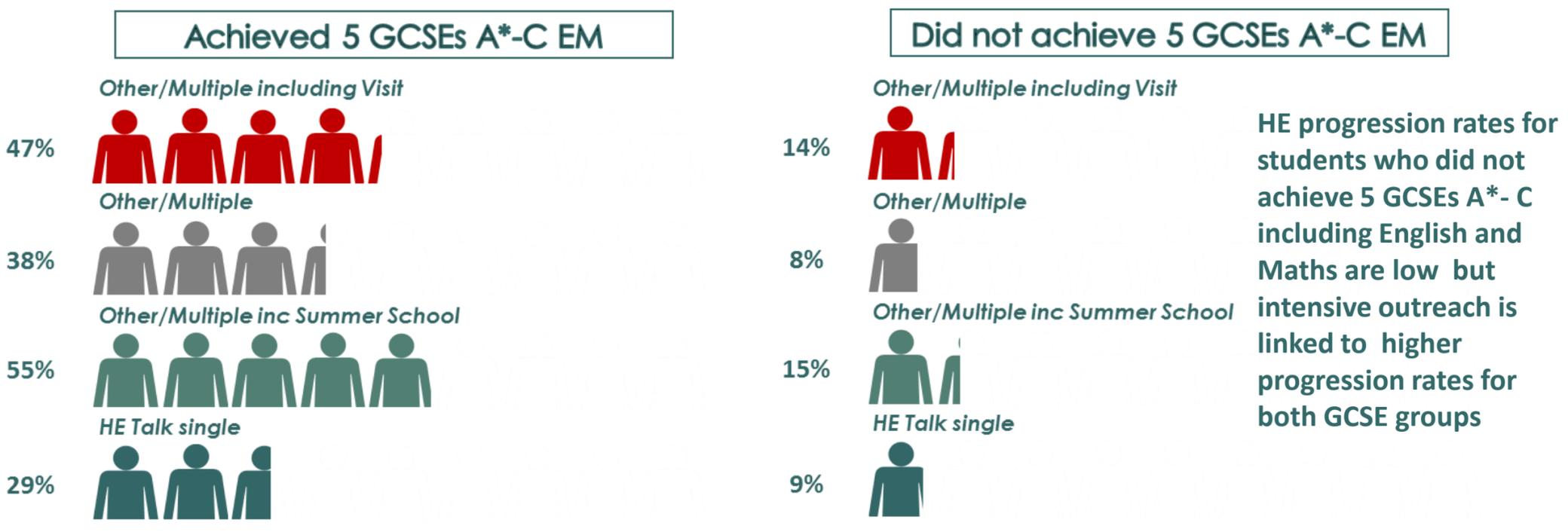


HE progression POLAR3 Quintile 1 Outreach Participants



POLAR3 Q1 students who participate in outreach both pre and during sixth form are more likely to progress to HE with intensive activity especially a summer school. This is observed for both groups of GCSE attaining participants

HE progression rate for FSM eligible participants by KS4 achievement and outreach engagement



HE progression rates for students who did not achieve 5 GCSEs A*-C including English and Maths are low but intensive outreach is linked to higher progression rates for both GCSE groups