

- Background
- MEM
- Benefits
- Current research
- Developments



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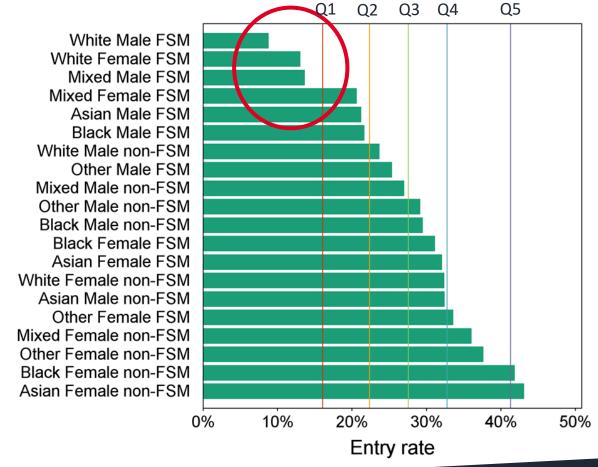
Task:

Create an equality metric to accurately measure disadvantage in higher education



POLAR School Parental occupation performance **ACORN Equality is multidimensional** Parental HE Care provider





POLAR3 Q3

Avoiding 'blind spots'

- Only considering single dimensions results in blind spots.
- Subgroups of pupils who are highly disadvantaged being missed.



Factors must be considered SIMULTANEOUSLY

Black ethnic group least likely to enter high tariff providers



FSM students least likely to enter higher tariff providers

Black coup and FSM least like the tariff providers?

WHITE ethnic group and FSM least likely to enter high tariff providers!



Different factors have different impacts

Low income very unlikely to enter university



Care leavers very unlikely to enter university



 So what if an applicant is from a low income background, but wasn't in care? And another is from a high income household but WAS in care



• Are they both as disadvantaged as each other? Does one factor impact more? How should this be measured?



Equality is a multidimensional problem

Multiple factors must be considered to avoid blind spots

Factors must be considered SIMULTANEOUSLY

Different factors have different impacts

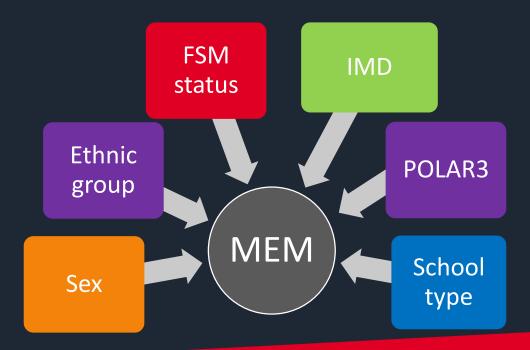


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What is the multiple equality measure (MEM)?

Combines effects of multiple equality measures into a single value (1-5)





How is it made?

Model likelihood of each pupil entering HE based on equality characteristics

| Pupil | Gender | School type | POLAR3 | Ethnic group | FSM | IMD rank | Modelled likelihood of entering HE | MEM group |
|-------|--------|-------------|--------|-----------------|-----|----------|--|--------------|
| А | Female | Independent | Q1 | Chinese | No | 14,992 | 49% | 5 |
| В | Male | Selective | Q4 | Black | No | 8,229 | 23% | 3 |
| С | Female | Comp. | Q4 | Mixed | Yes | 10,504 | 18% | 2 |
| D | Male | Comp. | Q4 | White | Yes | 6,933 | 7% | 1 |



Considers multiple background characteristics of an applicant

Considers these characteristics SIMULTANEOUSLY

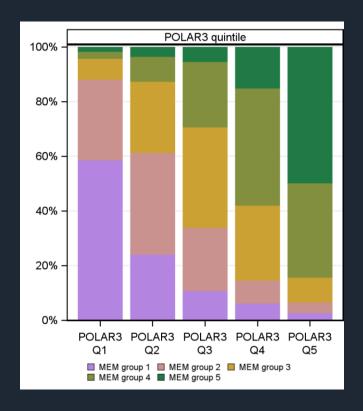
MEM groups are data driven – weighting of characteristics reflects real life impact on likelihood of entering HE

'Disadvantaged' is defined by model outcome – those with low likelihoods of entering higher education



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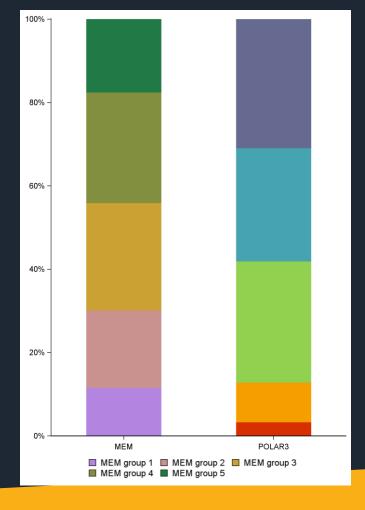




Additional disadvantaged pupils

- MEM identifies broad behaviour of constituent measures, but also picks up subgroups
- Ensures those pupils in the 'blind spots aren't missed'
- 6,720 English applicants in MEM group 1, not in POLAR3 Q1

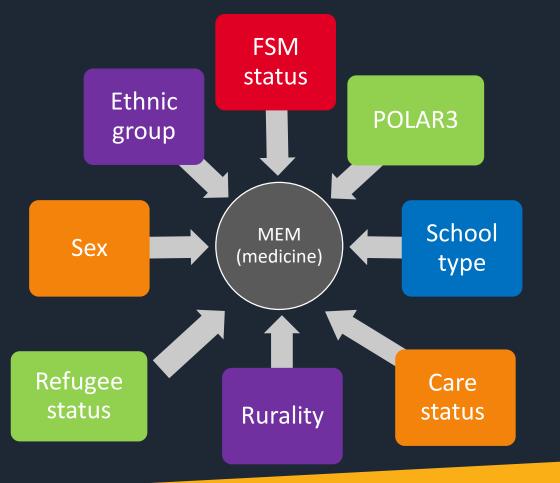




Reduced dependence on geography

- Inclusion of non-geography based measures mean reduced geography dependence
- E.g. 4 times as many London pupils identified as MEM group 1 than POLAR3
 Q1
- Useful for providers in low POLAR3 Q1 density areas (e.g. London)





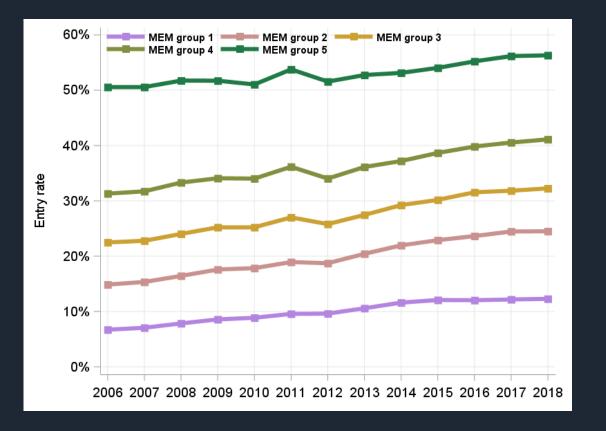
Flexibility

- Change the equality variables that are included in MEM
- Change the level of equality that is investigated
- Ensure MEM targets specific equality issues of interest



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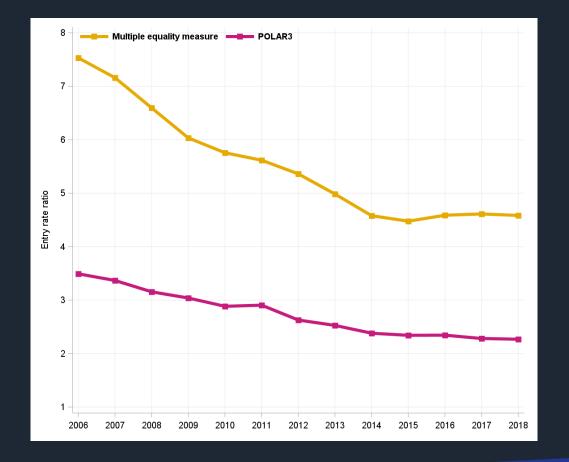




Aggregate level use

- Report entry rates, sector trends
- Wide range of variables can be included
- Use in reporting





Comparison with POLAR3

- In 2018, MEM gap was 4.7 times, on POLAR was 2.3
- POLAR shows progress being made, MEM shows progress stopped

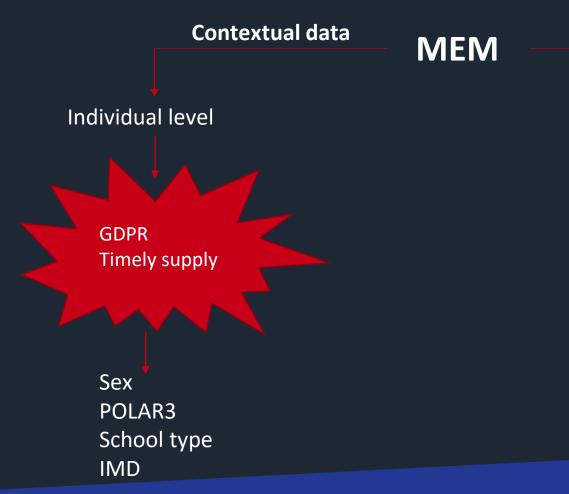


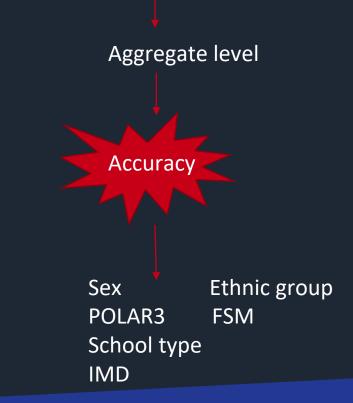
Individual level use

| В | С | D | E | F | G | Н | T. | J |
|--------|------------|----------|--|-------------|----------------------------|-----------------|-----------|---|
| Year / | | | Age (country specific school year aligned) | Course code | Primary qualification type | POLAR4 quintile | MEM group | Attainment percentile within background (83-100%) |
| 2019 | 1250283029 | Scotland | 18 | PW36 | SQA Advanced Higher | 3 | 5 | 5 84% |
| 2019 | 1250520722 | England | 18 | W391 | A level | 5 | 5 | 5 83% |
| 2019 | 1250610229 | England | 18 | PW36 | | 5 | 5 | 5. |
| 2019 | 1342523204 | England | 18 | NN13 | A level | 5 | 5 | 5 84% |
| 2019 | 1371009605 | England | 18 | G506 | | 2 | 3 | 3. |
| 2019 | 1371018407 | England | 18 | N504 | A level | 4 | 4 | 1 85% |
| 2019 | 1371019107 | England | 18 | G601 | | 2 | 1 | 1. |
| 2019 | 1371035402 | England | 18 | M100 | A level | 4 | 4 | 1 94% |
| 2019 | 1371037600 | England | 18 | F401 | A level | 3 | 4 | 1 84% |
| 2019 | 1371037600 | England | 18 | F413 | A level | 3 | 4 | 1 84% |
| 2019 | 1371039606 | England | 18 | H101 | A level | 3 | 5 | 91% |
| 2019 | 1371045601 | England | 18 | B160 | A level | 5 | 5 | 5 83% |
| 2019 | 1371051505 | England | 18 | N100 | | 5 | 1 | 1. |
| 2019 | 1371073505 | England | 18 | 86G3 | A level | 2 | 5 | 5 85% |
| 2019 | 1371076403 | England | 18 | PW36 | | 1 | 2 | 2. |
| 2019 | 1371076403 | England | 18 | W621 | | 1 | 2 | 2. |
| 2019 | 1371093307 | England | 18 | T6H3 | | 2 | 3 | 3. |
| 2019 | 1371108409 | England | 18 | N800 | BTEC | 3 | 4 | 1 85% |
| 2019 | 1371133506 | England | 18 | W240 | | 5 | 5 | 5. |
| 2019 | 1371146108 | England | 18 | CD14 | A level | 4 | 5 | 5 85% |
| 2019 | 1371146906 | England | 18 | NL31 | | 4 | 4 | 1. |
| 2019 | 1371149501 | England | 18 | N504 | A level | 5 | 5 | 5 85% |
| 2019 | 1371149602 | England | 18 | C8B9 | | 3 | 3 | 3. |
| 2019 | 1371149804 | England | 18 | B160 | A level | 5 | 5 | 5 88% |
| 2019 | 1371152709 | England | 18 | H100 | A level | 2 | 2 | 2 92% |
| 2019 | 1371154806 | England | 18 | M100 | A level | 2 | 2 | 98% |
| 2019 | 1371163507 | England | 18 | NN41 | | 4 | 3 | 3. |
| 2019 | 1371167701 | England | 18 | 846W | BTEC | 2 | 3 | 94% |
| 2019 | 1371174800 | England | 18 | F413 | A level | 4 | 5 | 5. |
| 2019 | 1371182104 | England | 18 | N100 | A level | 5 | 5 | 5. |
| 2010 | 1271206201 | Foolood | 10 | M100 | A lovel | 1 | - | 010/ |

- Contextual admissions (MCDS)
- Restricted variables to be included
- UCAS form variables







Reporting



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Developments

- Engagement with policy making stakeholders to emphasise the benefits of MEM e.g. DfE, OfS etc.
- Speaking to Scotland, Wales and Northern Ireland to access data required for country-specific MEMs
- Apply MEM principles to adjustment of grades for contextualisation
- Increase data access to add to metrics included
- Integrate MCDS and UCAS' contextual data service to create one single, integrated service



Discussion

- Do you feel awareness of MEM is growing in the sector?
- How do you currently use MEM? E.g. reporting, retrospective analysis, targeting, marketing or contextual decision-making
- What (if any) barriers are there to your adoption of MEM?
- How could UCAS support you to further adopt MEM?

