



# WHAT DATA CAN TELL UNIVERSITIES ABOUT LIFE AFTER COVID

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#### The post-pandemic world for universities in data

- 1. Grades and admissions.
- 2. Do students still want universities?
- 3. Value and funding.

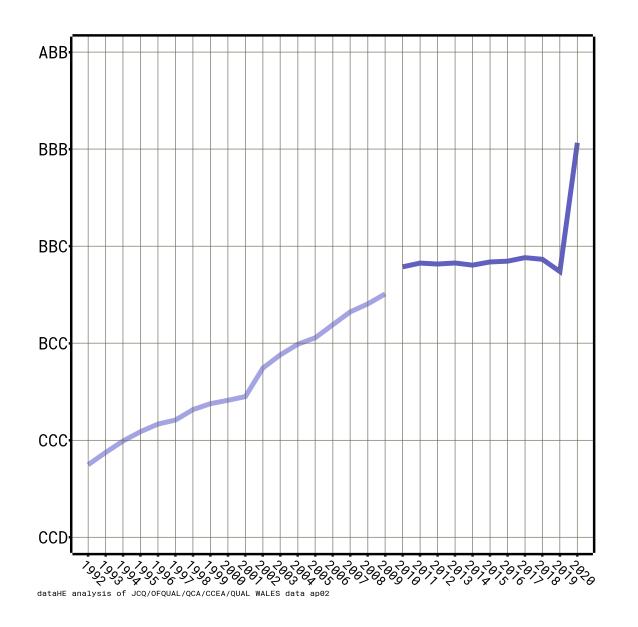
We have used data from UCAS, ONS, PHE, AdvanceHE/HEPI, JCQ/SQA, HESA analysis and interpretation by us at dataHE.



#### (1) Grades and admissions



#### Grades were the off-the-scale change for HE



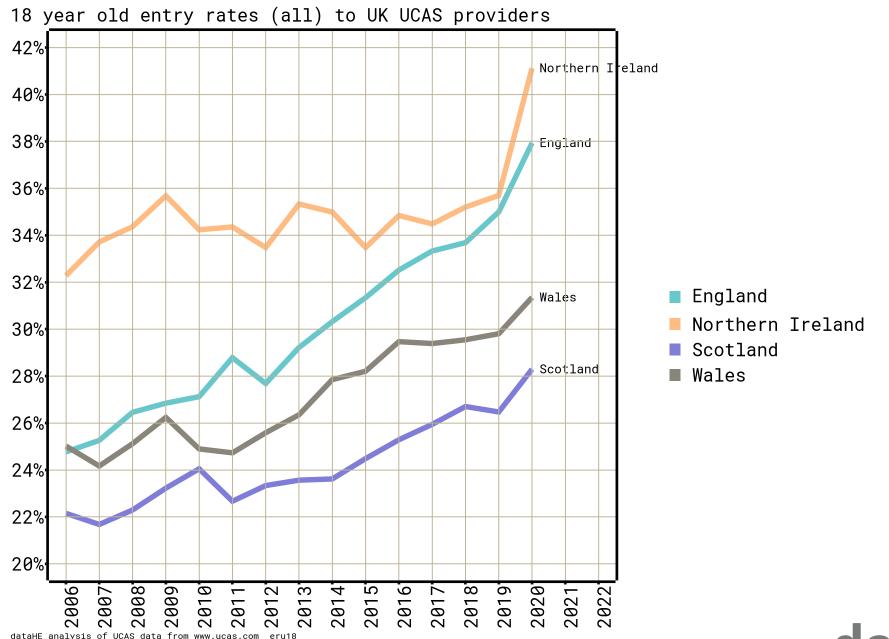
Grades for A levels are the hard currency of the university system.

Eventually grades were increased by over a point.

True pandemic shift. But perhaps just catching up with effects of a decade of grade quotas?

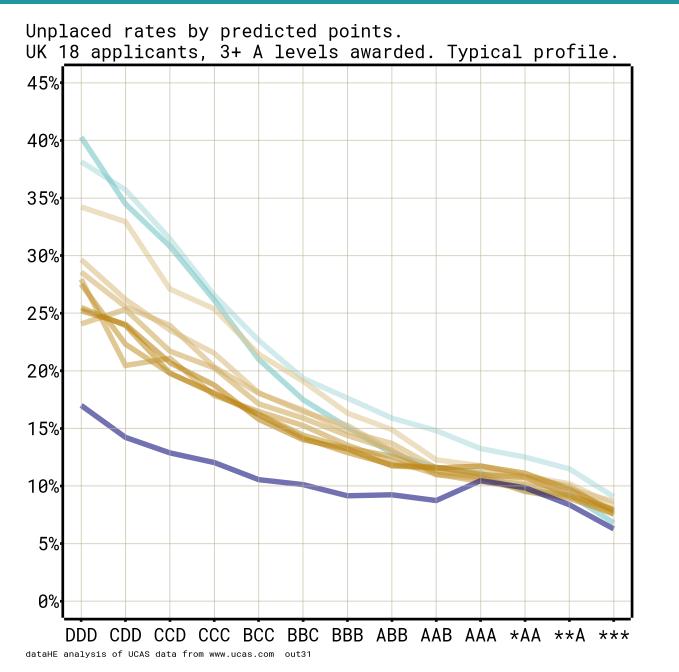


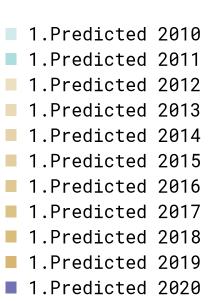
#### This drove entry and solved the 'exam crisis'



dataHE clarity through data

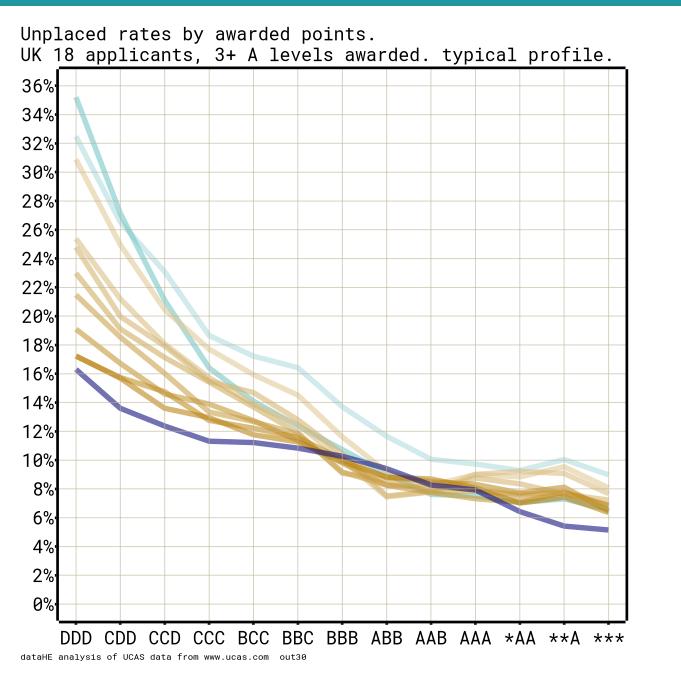
#### Unplaced rates by predicted grade plunged







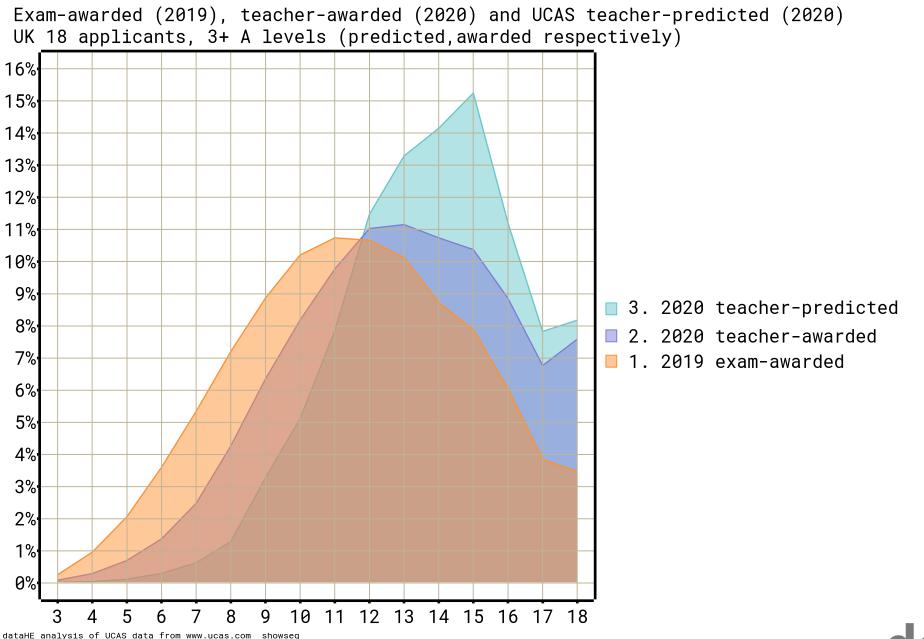
#### Low, but not exceptional, unplaced by awarded



2.Awarded 2010
2.Awarded 2011
2.Awarded 2012
2.Awarded 2013
2.Awarded 2014
2.Awarded 2015
2.Awarded 2016
2.Awarded 2017
2.Awarded 2018
2.Awarded 2019
2.Awarded 2020



#### Exam distribution moved towards 'could have got'

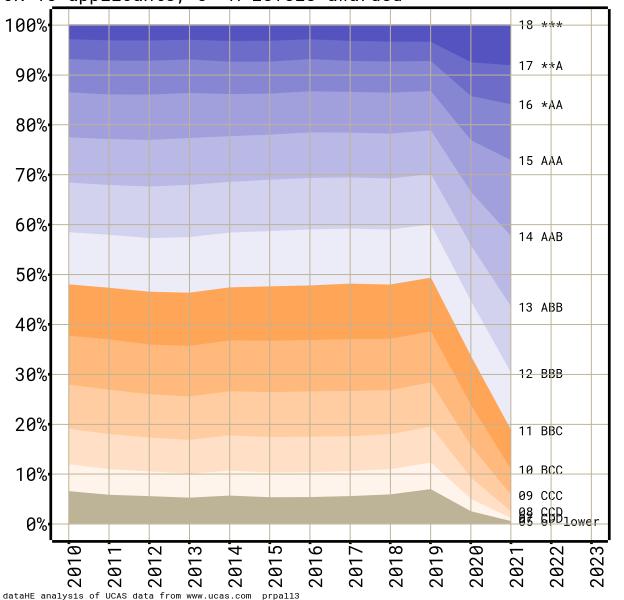




8. Wonkfest 2021. Build back higher. 10 June 2021. Post-pandemic HE. Mark Corver, dataHE

### Awarded grades for 2021?

Awarded grade profile (2021=2020 predicted dist.) UK 18 applicants, 3+ A levels awarded



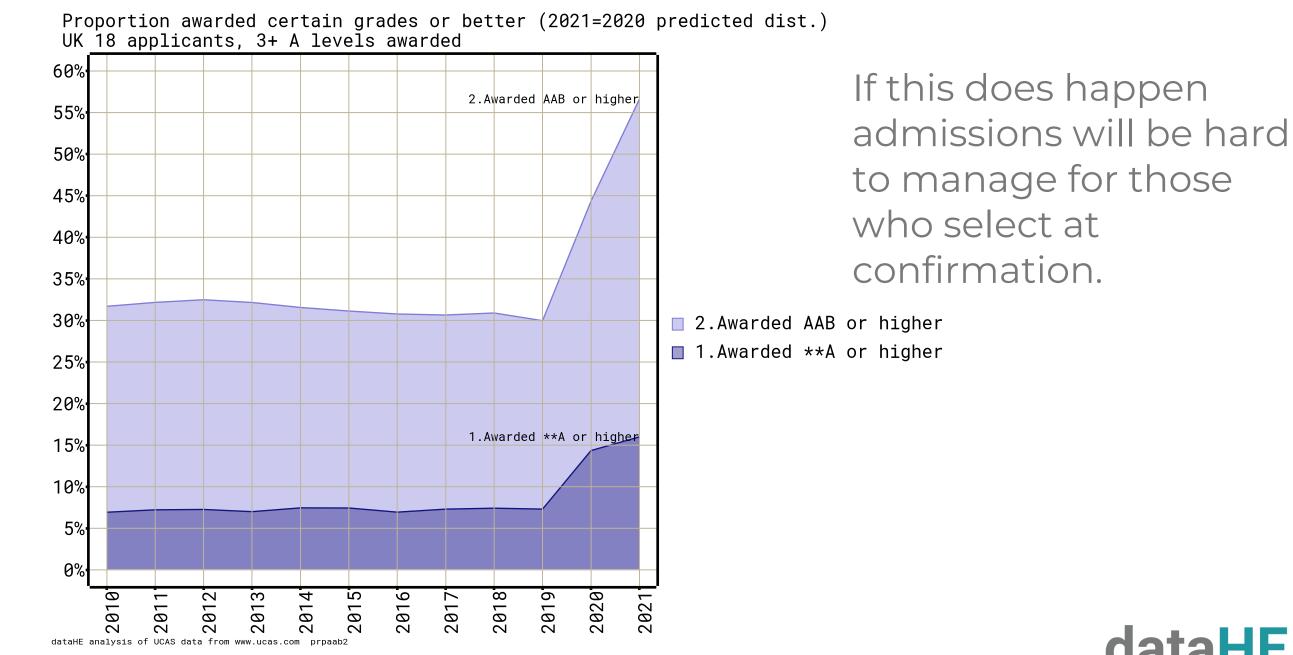
18 \*\*\*
17 \*\*A
16 \*AA
15 AAA
14 AAB
13 ABB
12 BBB
11 BBC
10 BCC
09 CCC
08 CCD
07 CDD
05 or lower

The 2021 cohort have had more disruption and have greater measurement uncertainty than 2020 peers. It would not be

unreasonable to increase grades again.

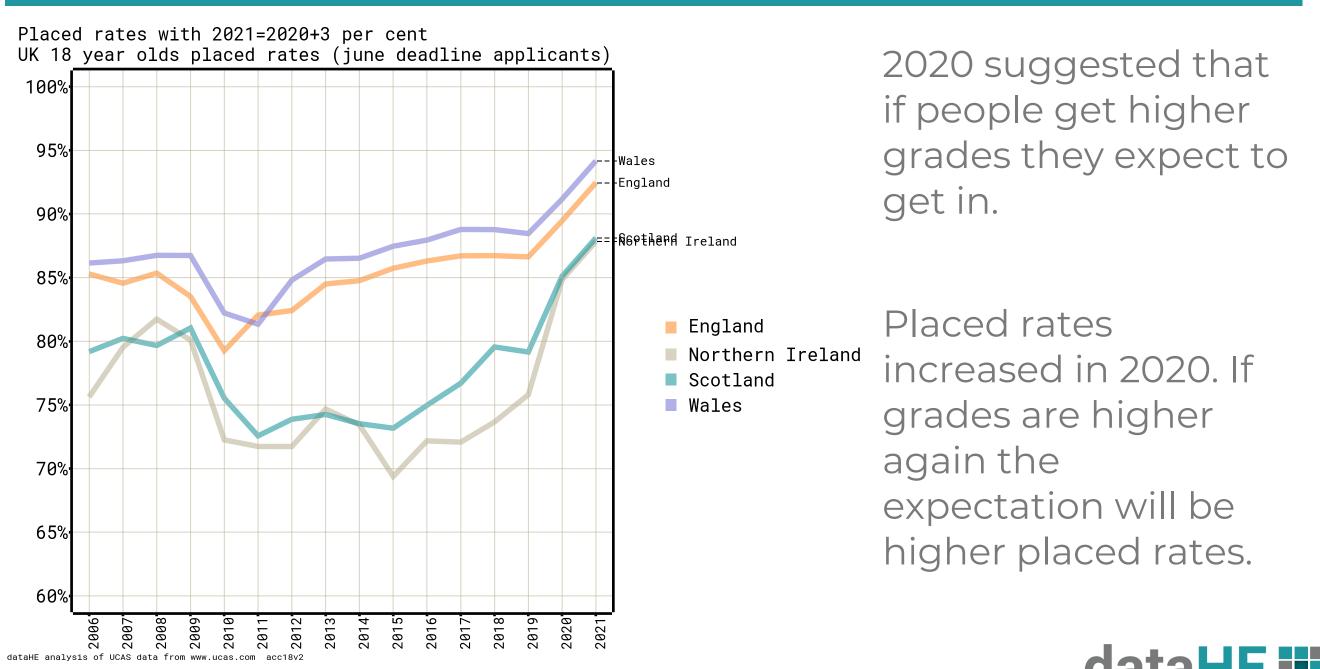


#### **Over half could get AAB+**

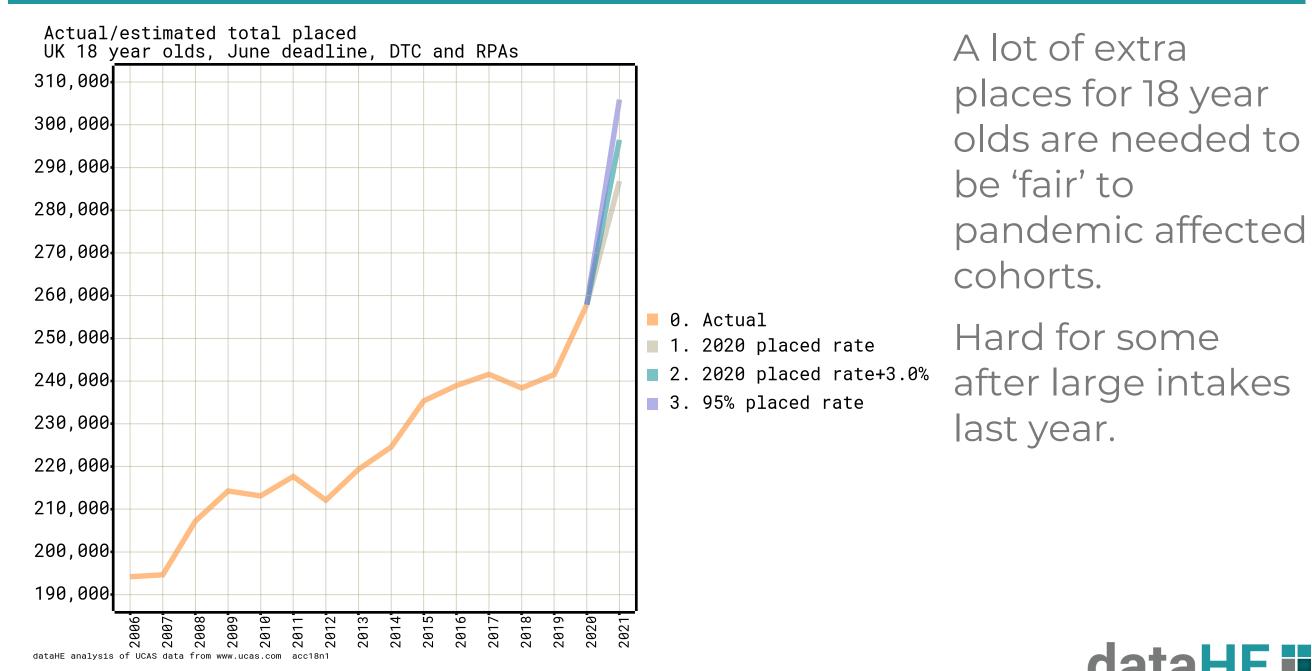


clarity through data

### What would people expect of universities?

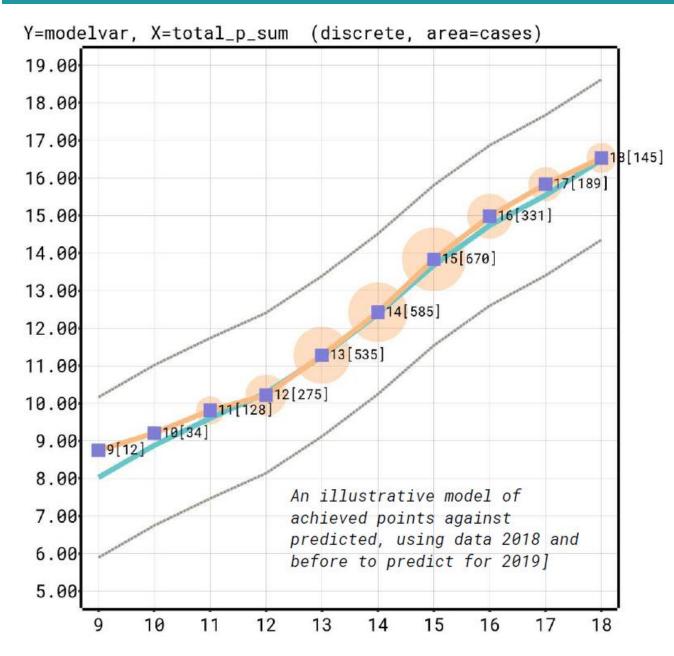


#### Perhaps an extra 30k 18 year olds expect to get in?



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# Some things the data says you can do for 2021



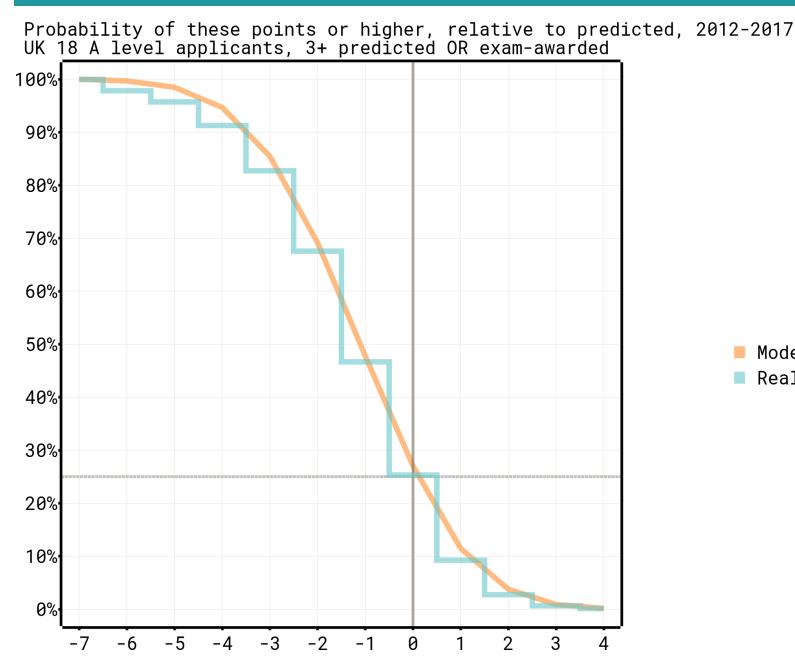
Models using predicted grades or GCSEs are effective at estimating 'would have got' 2019 level attainment.

Unconditional confirmations have merit.

For fairness, remember: BTECS are different, and older cohorts are on different grading system.



### **Admissions: back to Normal?**



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Having no exams has highlighted that exams have random noise at the best of times.

And they are not a recruitment end in themselves.

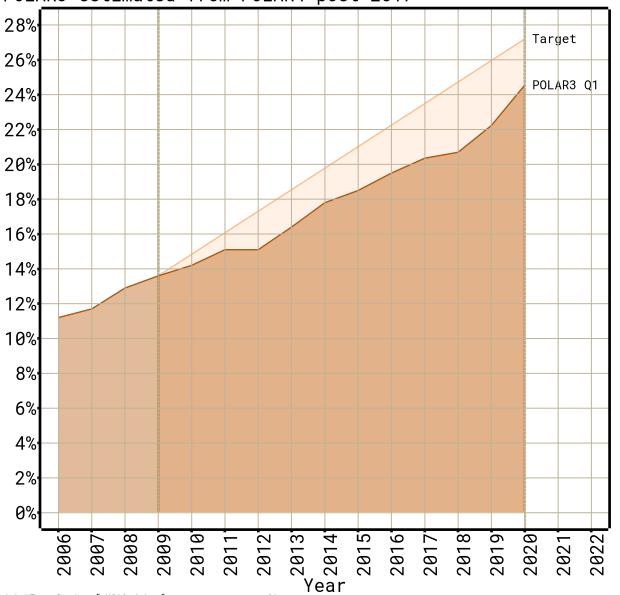
Model Real

Broad-based 'repeated measures' of GCSEs, UCAS predicted and awarded will often better at identifying



# Going further: an accidental access success?

#### English 18 year old POLAR3 rates and target POLAR3 estimated from POLAR4 post 2017



2014 target to double Q1 entry between 2009 and 2020.

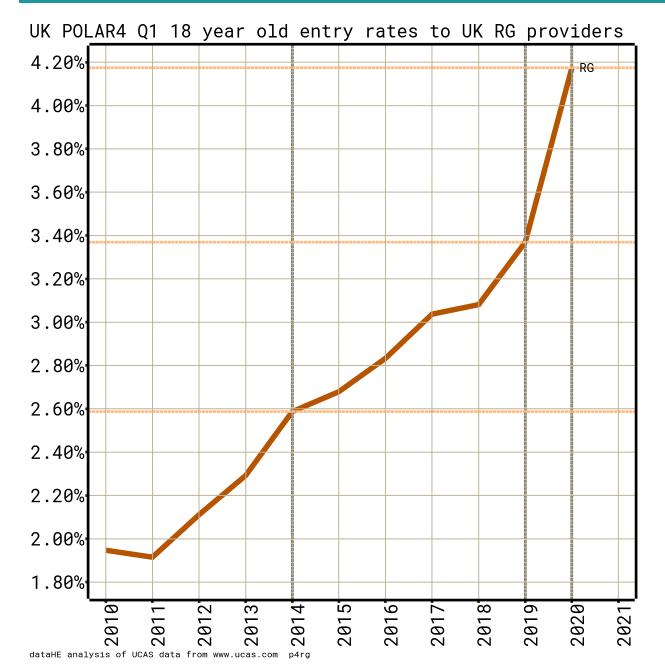
Needed to increase by 1.5 points a year. In 2020 went up by 2.4 points.

An extra 2,500 Q1 into university, many due to higher grades.

More effective access (if not equality) intervention than any other year. Low cost too.



# Entry to higher tariff: a natural experiment



Q1 increased its chances of getting in to Russell Group by as much in one year as it had done in previous five.

Many -including Q1 – got in who in a normal year would not have got good enough 'real' grades.

My bet is that the *whole cohort* outcomes will be more like their 'paper grades' than their 'real' grades.

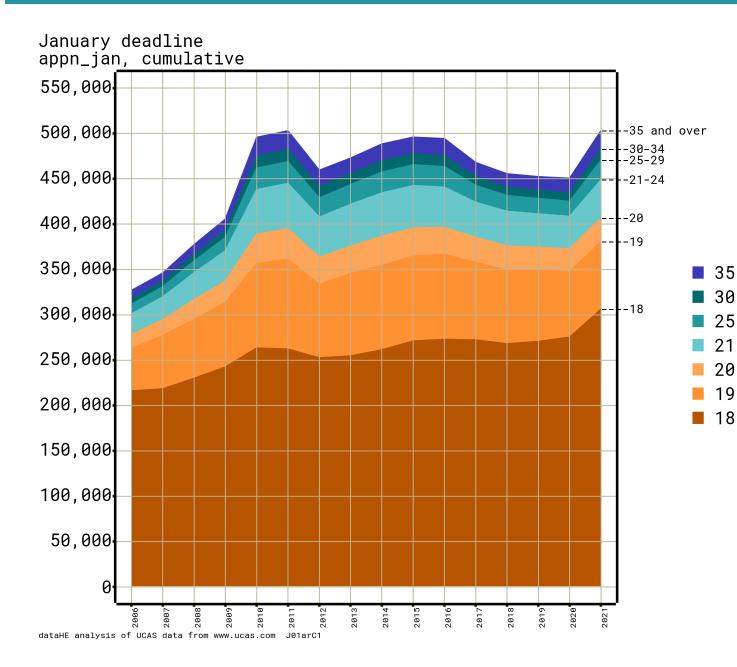
If so, important for equality.



#### (2) Do students still want to go to university?



#### January deadline numbers for UK are up



The January deadline numbers will be inflated by the movement of the deadline.

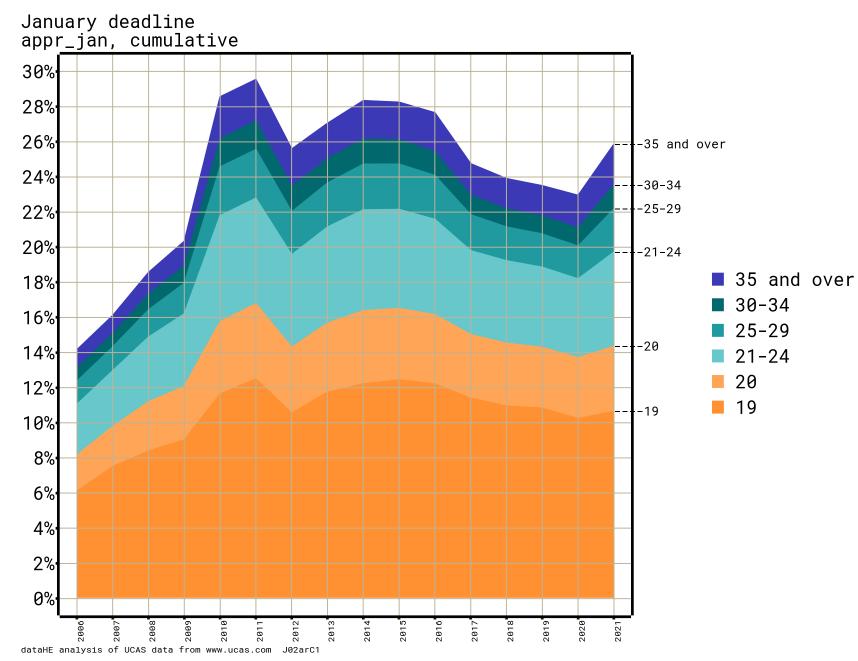
Probably not by much

35 and over for 18 year olds. But likely
 25-29 significant for older
 21-24 groups.

Strong numbers in any case.



### 19 and older demand supported by unemployment

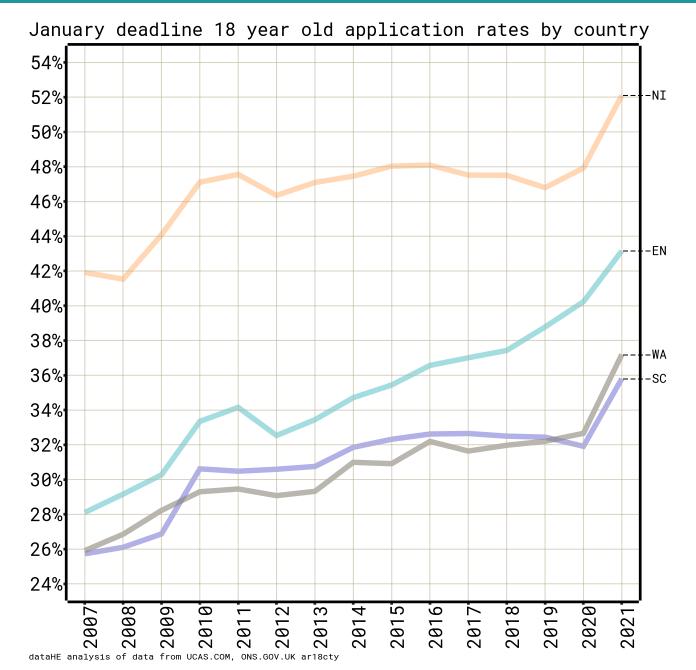


Our models suggest older application rates boosted by rising unemployment last year.

So probably will not persist.



### But it is mostly real for 18 year olds

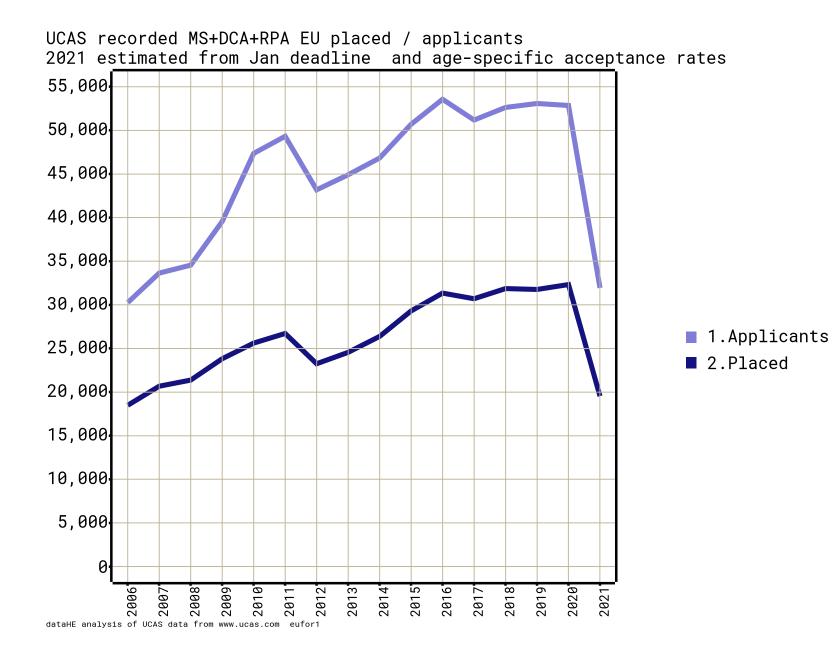


18 year old rates for 2021 confirms applicant demand very strong against trend.

SNC countries: genie of higher expectations out of the bottle?



#### EU: down, but...



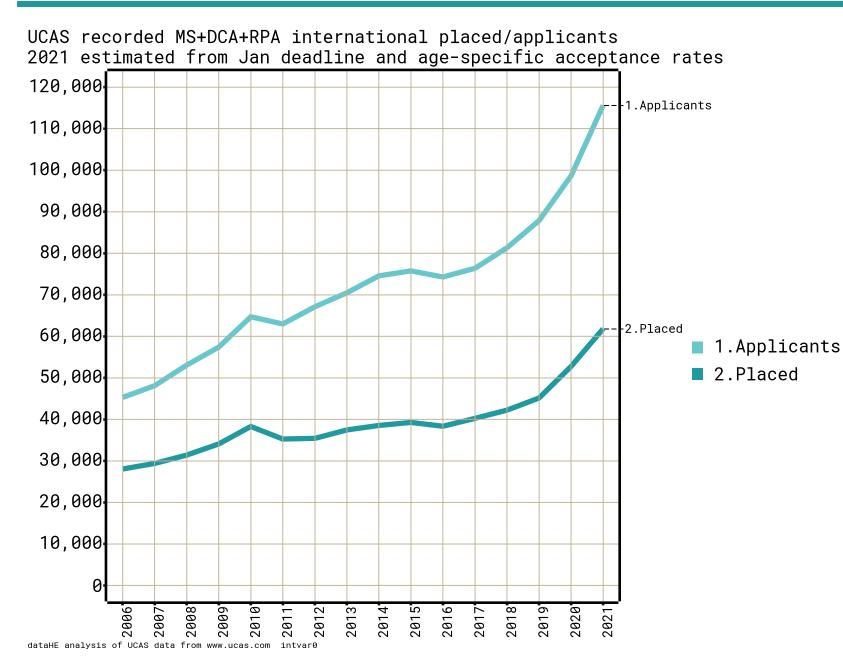
EU down in 2021 at January deadline.

Would translate to 12,000 reduction if reflected in total recruitment.

But total fee income will likely increase, if those who come pay international fees.



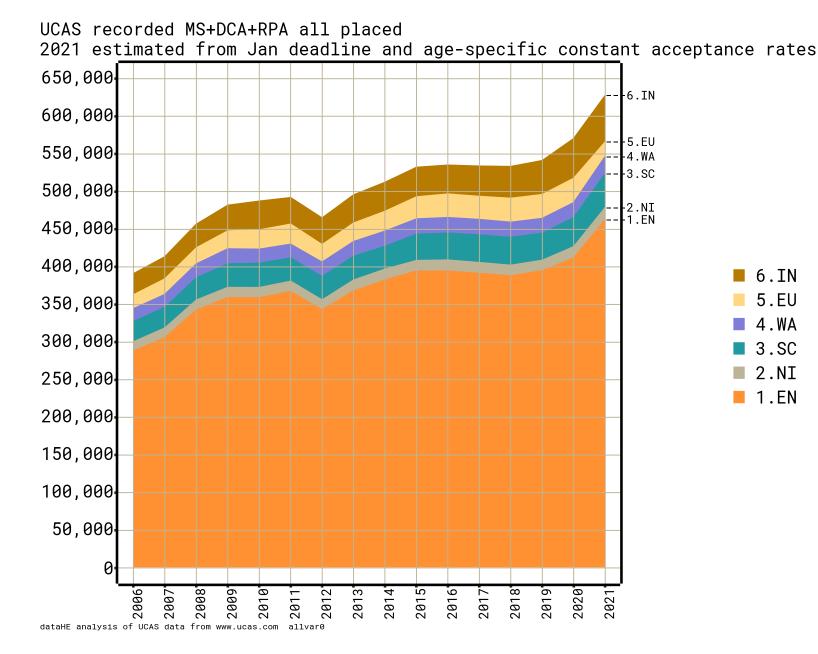
#### International: no discernible pandemic effect



Pandemic – what pandemic? No sign in the UCAS data. Here scaling final figures against January changes for 2021. Bet against international recruitment to UK HE at your peril



#### What does January say about the short term



Suppose the change at January deadline was representative of eventual changes in total

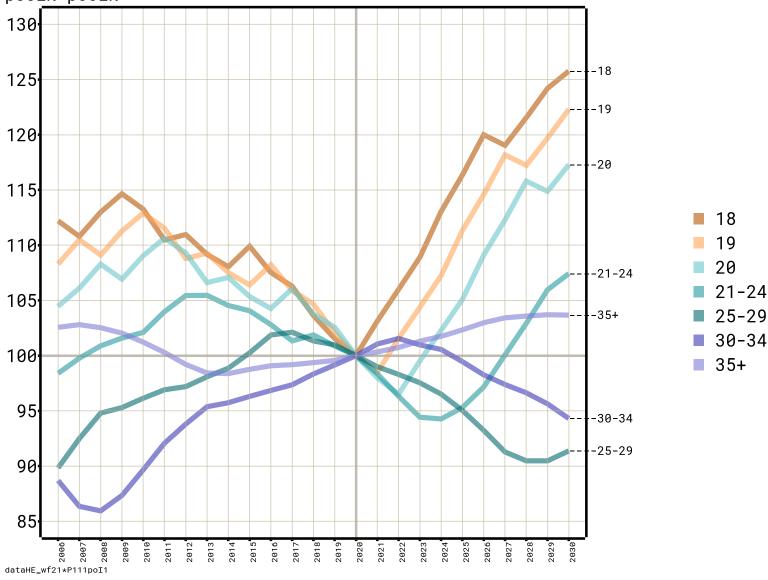
- 6.IN recruitment for everyone. 5.EU
- 4.WA
- **3**.SC 2.NI

1.EN This would point to unusually strong recruitment. Capacity will be an issue for some.



#### The longer term: UK populations by age

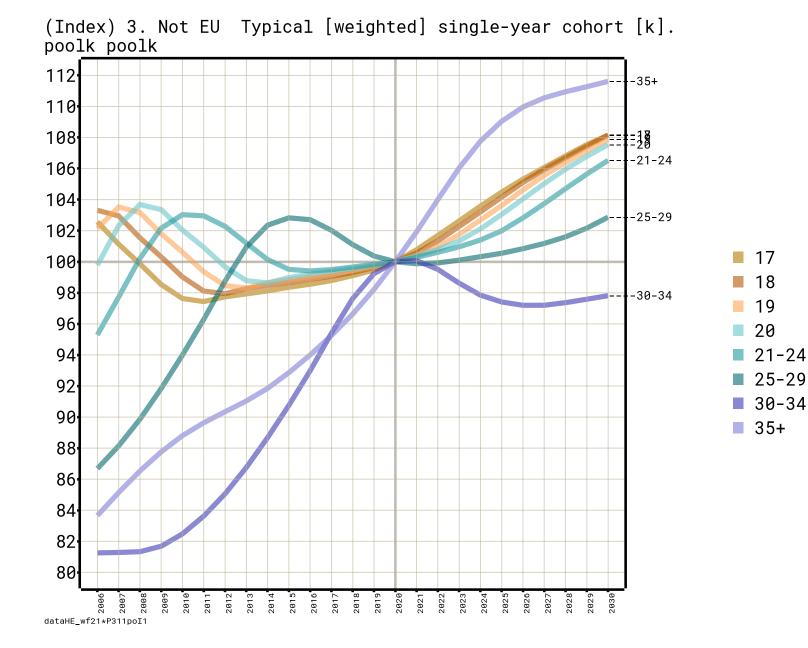
(Index) 1. UK Typical [weighted] single-year cohort [k].
poolk poolk



Very strong growth for the groups with the highest entry rates.



#### About 3x stronger than international



UK demographics stronger than the (exposure weighted) international picture for the key young groups.

> dataHE clarity through data

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#### What if we are pessimistic on UK entry rates?

1. UK Actual/forecast entry rate (summed over SYOAs) tsprate, cumulative 65.0% 35+ -30-34 60.0% -21-24 55.0% -20 50.0% 45.0% -18 40.0% 35.0% 30.0% 25.0% 20.0% 15.0% 10.0% 5.0% 0.0% 2014 2015 02 022 024 dataHE\_wf21\*P112erC1

Being pessimistic:

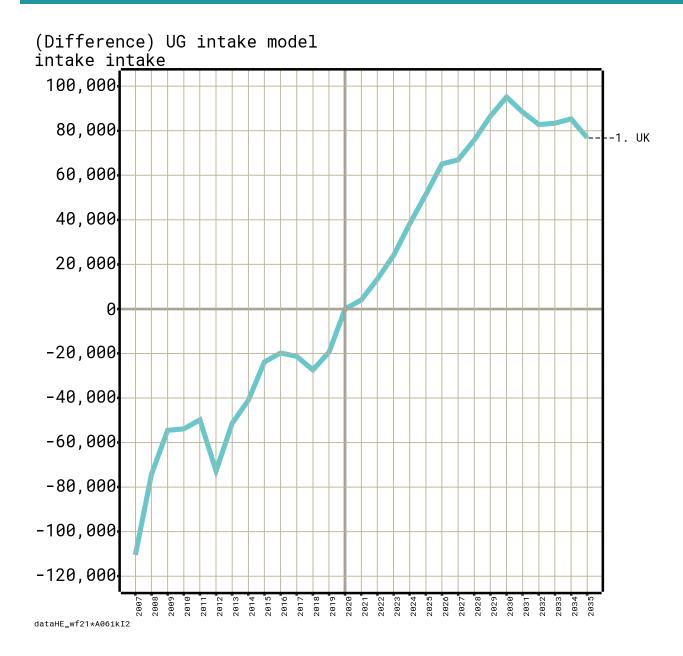
Assume 2020 18 year old entry is a one off jump.

Assume placed rate *falls* this year for 18 year olds.

Assume decline in older entry rates continues.



# Still gives you this



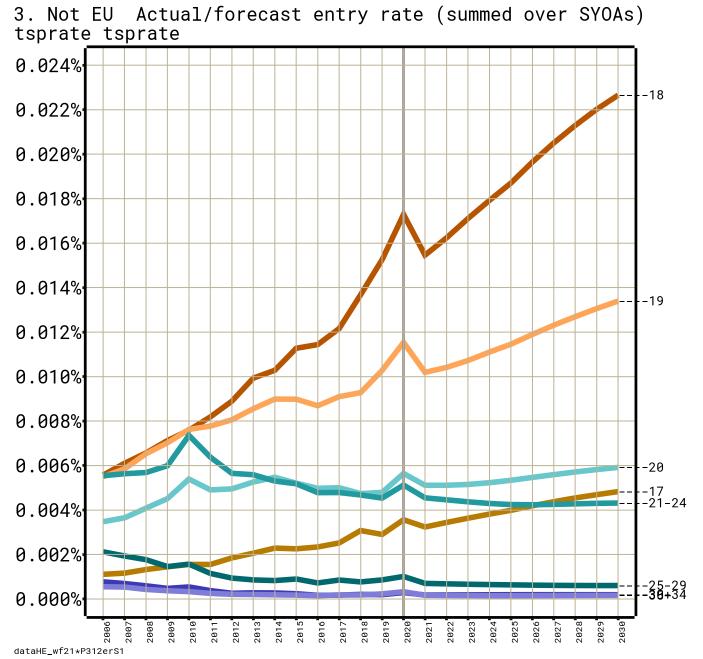
Even this gives annual UK intakes almost 100,000 higher within a decade.

Clearly ultra-pessimistic for the near term.

Servicing UK demand likely to be defining role for postpandemic UK HE.



#### And with some assumptions on international



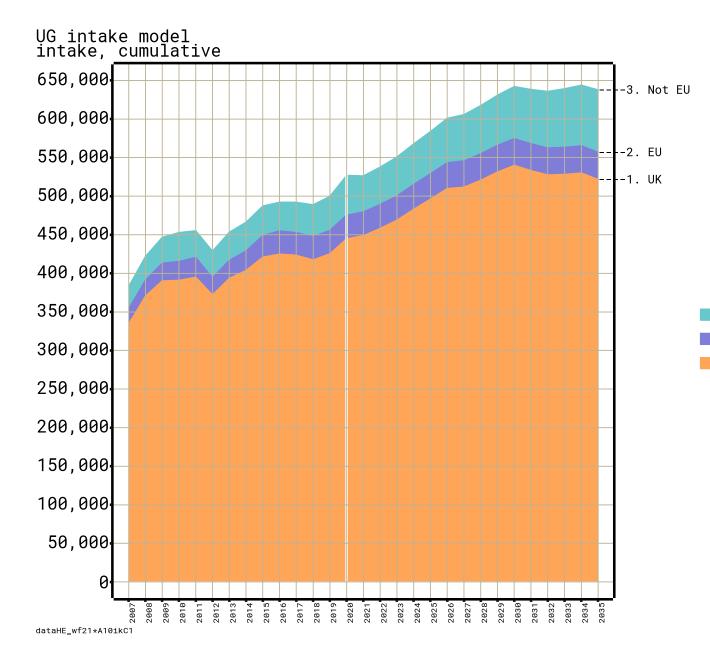
28. Wonkfest 2021. Build back higher. 10 June 2021. Post-pandemic HE. Mark Corver, dataHE

Nothing in the trends to suggest international appeal dwindling.

# They are getting younger though.



#### And with some assumptions on international



International is less certain.

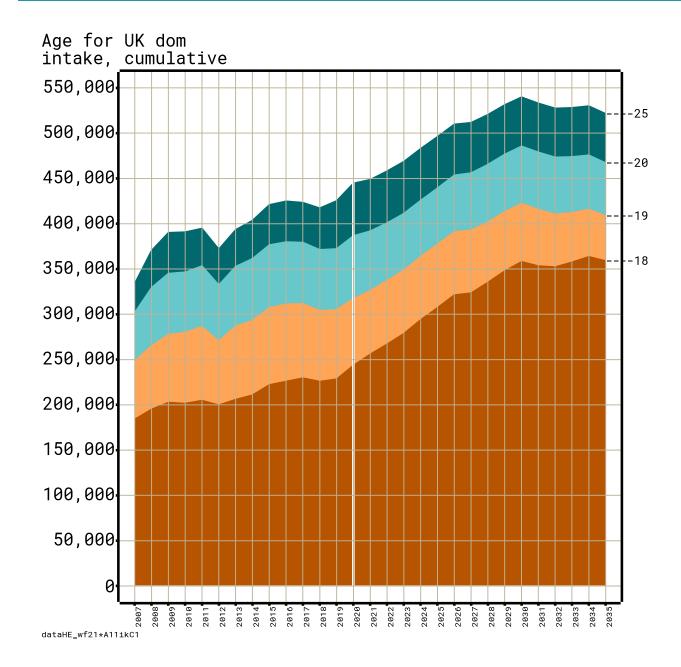
The greater risk of international – and higher recruitment costs - should

3. Not EU
 2. EU
 1. UK
 be put alongside the
 benefits of higher fees.

Overall though the picture remains strong.



# **Younger universities**



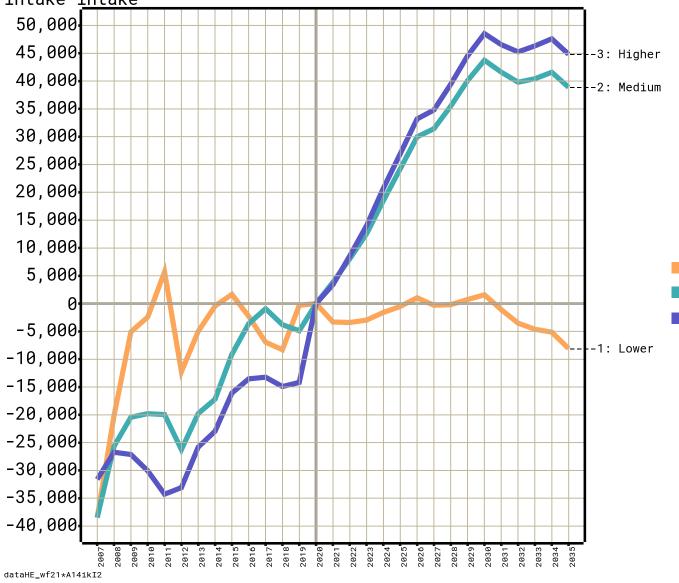
Students are likely to be younger in the future

This, and the consequential decline in older participation, should not be seen as a problem in itself.

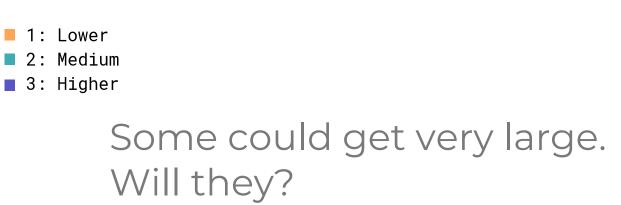


### **Super-universities?**

(Difference) Provider tariff group of UK dom intake intake



With current trends, most of the growth is likely to be higher and medium tariff providers.





#### More graduates from higher tariff

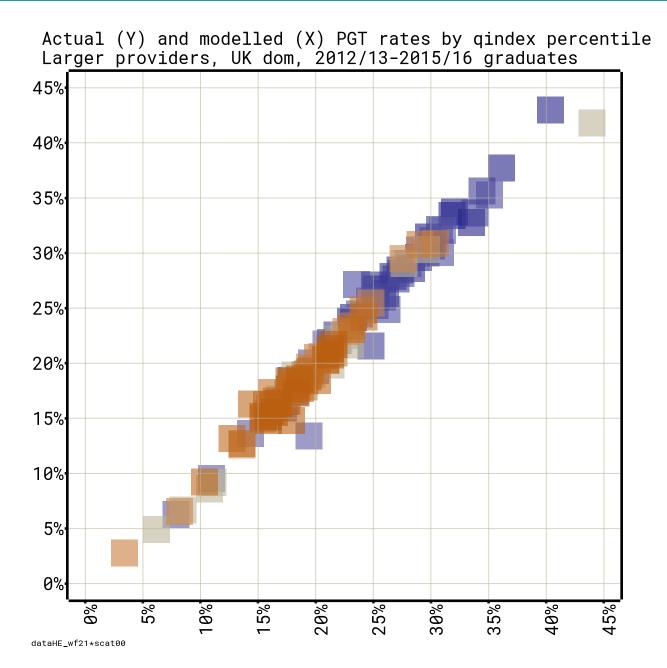
Group 18 Graduates (UK) by age of UG entry 280,000 -01.FT UG grads 260,000 240,000 220,000 200,000 180,000 160,000 140,000 120,000 100,000 80,000 60,000 40,000 20,000 0 2012' 2013' 2015' 2016' 2019' 2020' 2020' 2020' 2023 2023 2024 2025 2026 028 2029 030 031 032 033 027 dataHE wf21\*B18G1C1

The shift in entry to young groups, and to higher tariff providers will have a multiplier effect on the supply of graduates.

■ 01.FT UG grads



#### More demand for immediate PGT



Immediate UK PGT rates are higher than appreciated.

And highest for young graduates at higher tariff.

Could be important, stable part of income mix later in the decade.



#### (3) Pandemic echoes: Value and funding risks



# Universities are big business

plotfeeinc, cumulative 16,000 ---B.PGT 3. Not EU 15,000 14,000 <u>====B</u>;-Be;∓A2;FDB;U3.Not;EU 13,000 12,000 11,000 ----A.FDG 2. EU 10,000 ---A.FDG 1. UK 9,000 8,000 7,000 6,000 5,000 4,000 3,000 2,000 1,000 0 2018 2012 2013' 2014 2015 2016 2017 2019 2020 2022 2023 2024 2011 2021 dataHE\_wf21\*F02pfC1

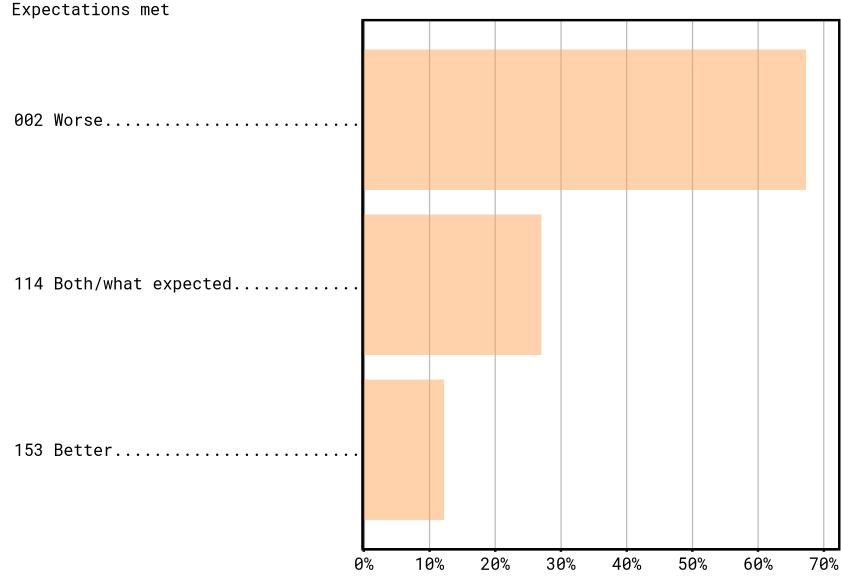
Fee income £M [cohort total by year of entry]

Providing higher education has become big business.

B.PGT 3. Not EU
B.PGT 2. EU
B.PGT 1. UK
A.FDG 3. Not EU
A.FDG 2. EU
A.FDG 1. UK
Fee income from the 2020 entry cohorts will be over £16 Bn once PGT counted.



#### With business comes customer expectations



Students consider HE 'poor value' if expectations not met.

Clearly students have had a lesser experience than they hoped. They want that acknowledged in some way.



PGTmods valbar10

AdvanceHE/HEPI Student Academic Experience Survey

https://www.hepi.ac.uk/2020/06/11/the-student-academic-experience-survey-2020/

#### With business comes customer expectations

	Scenario			
	1.Normal	2.Do Nothing	3.Respond	4.Respond+Grow
2020 UG entrants	464,335	371,468	464,335	543,272
<pre>(difference from 'Normal')</pre>	0	-92,867	0	78,937
UG student-years	1,280,584	1,024,468	1,280,584	1,498,284
(difference from 'Normal')	0	-256,117	0	217,699
UG teach income £M	11,525	9,220	11,525	13,485
(difference from 'Normal')	0	-2,305	0	1,959
UG accom income £M	6,147	4,917		
UG accom refund £M	0	0	-829	-970
Graduates	390,454	312,363	390,454	456,831
PG entrants (2023)	66,377	53,102	78,325	91,640
PG teach income £M	597	478	0	0
PG credit 'cost' £M	0	0	-705	-825
<u> </u>	10,100		44 505	10.105
Cohort teach income £M	12,123	9,698	11,525	13,485
(difference from 'Normal')	0	-2,425	-597	1,362
Cohort accom income £M	6,147	4,917	5,317	6,221
(difference from 'Normal')	0	-1,229	-829	75
Cohort all income £M	18,269	14,616	16,843	19,706
(difference from 'Normal')	. 0	-3,654	-1,427	1,437

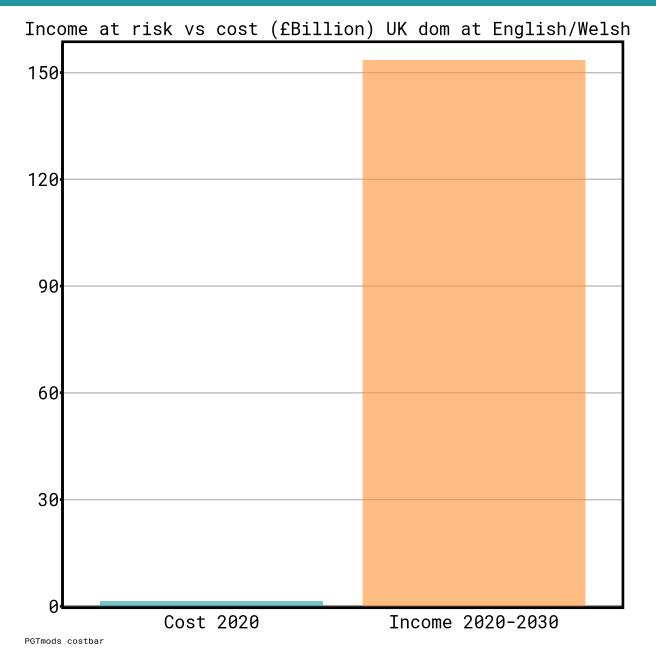
We suggested last summer to promise, in advance, a 'free' PGT year on graduation and rent refunds if UG experience disrupted by pandemic.

We estimated would have cost around £800M in rent refunds and around £700M in 'free' PGT provision.

But it would have been an upfront contract of fair treatment.



### Why it is important to secure value perception



The cost of securing a sense of fairness is small relative to the income it underwrites.

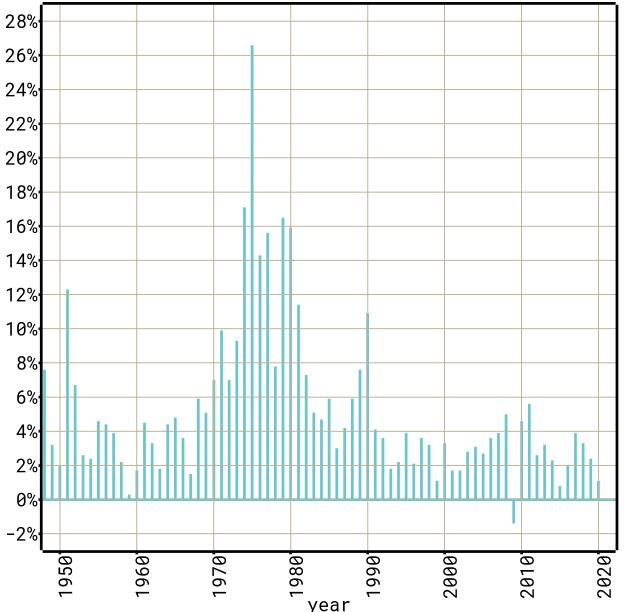
Going to university is a built on trust. It is important not to lose that.

And universities may struggle to win the national 'value of HE' argument without it.



# A longer term pandemic problem for universities?

RPI, 12 month change to September



Inflation is, and has been for some time, low.

But inflation has been much higher in the (recent) past.

Some leading indicators are showing signs of increasing inflation.

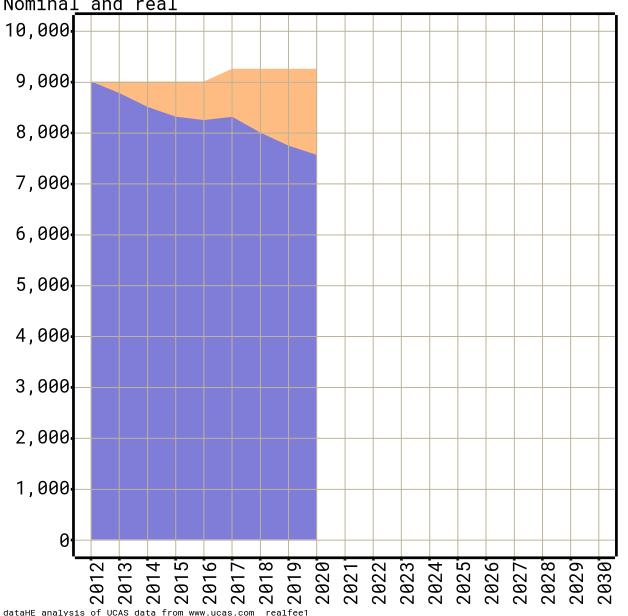
Exceptional pandemic responses may be contributing.



dataHE analysis of UCAS data from www.ucas.com sepinf

#### Why universities are vulnerable to inflation

English annual tuition fees, 2012-2020 Nominal and real



Universities risk having fixed fees against rising costs.

Inflation has already cost about £1,500 of the 2012 £9,000 fee value (a

2.£ Nominal 17% CUt).
1.£ 2012

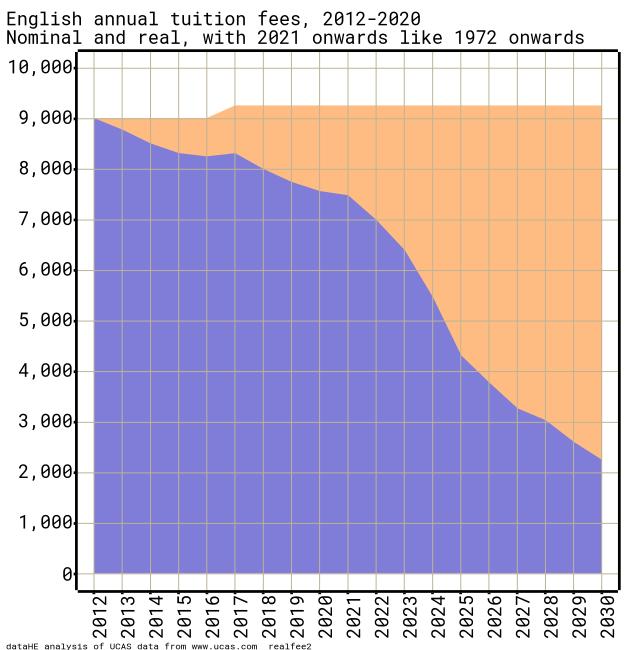
Raising fee caps is doubly unattractive for governments.



# A period of high inflation with fixed fees is difficult

2.f Nominal

1.f 2012



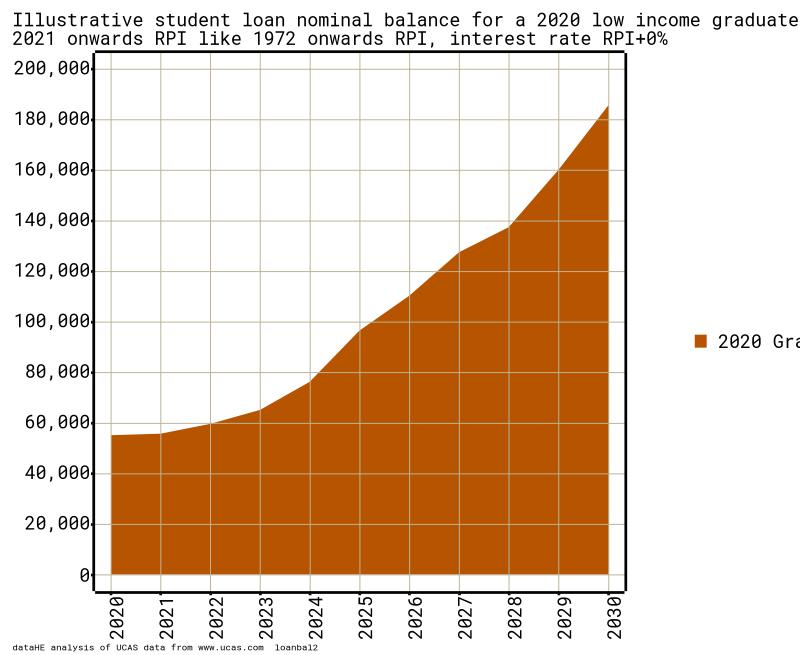
41. Wonkfest 2021. Build back higher. 10 June 2021. Post-pandemic HE. Mark Corver, dataHE

If inflation were substantially higher, and reflected in wages, the finances of universities would deteriorate very quickly.

Fees could halve in real value by the mid-2020s.



#### Loan balance indexing could be unacceptable?



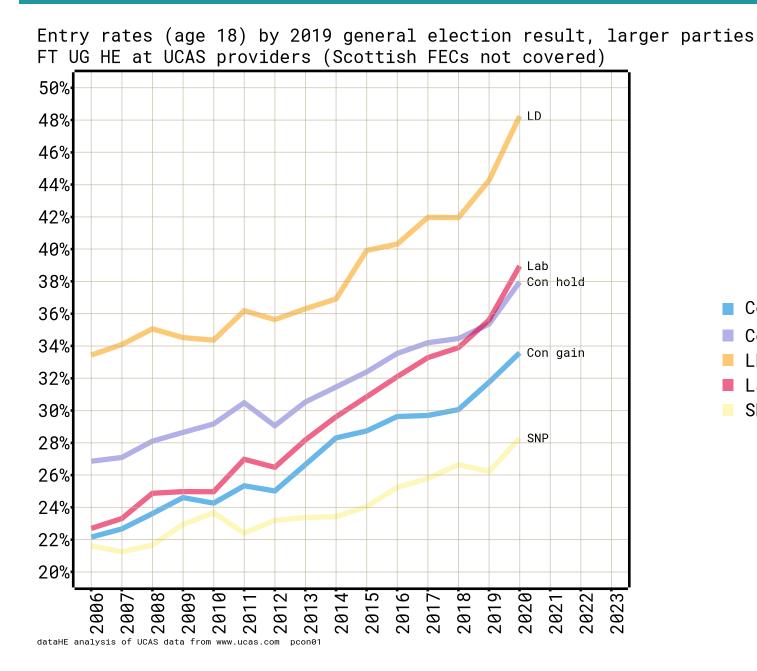
The political cost of the high interest on the loan, especially for unemployed graduates, would not help universities.

2020 Graduate

Again, this could quickly become a political crisis and lead to a rushed solution.



# Winning the political case for higher education



The Conservative party now holds constituencies with young university entry rates lower than that for the main opposition parties.

📕 Con gain

Lab

SNP

- Con hold Especially those areas LD
  - they gained in 2019.

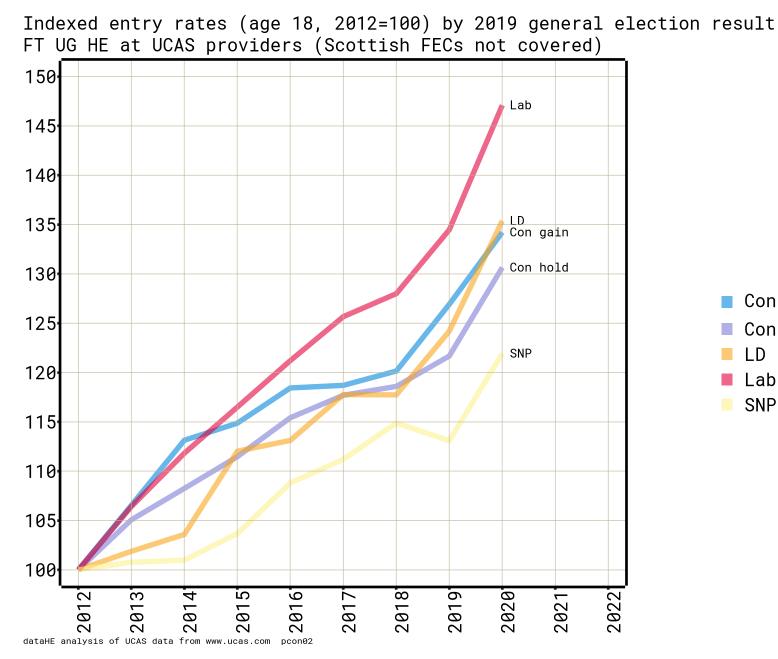
"Less HE" is unlikely to favour low entry rate areas.



# Going to university is a widely held aspiration?

LD

Lab SNP



44. Wonkfest 2021. Build back higher. 10 June 2021. Post-pandemic HE. Mark Corver, dataHE

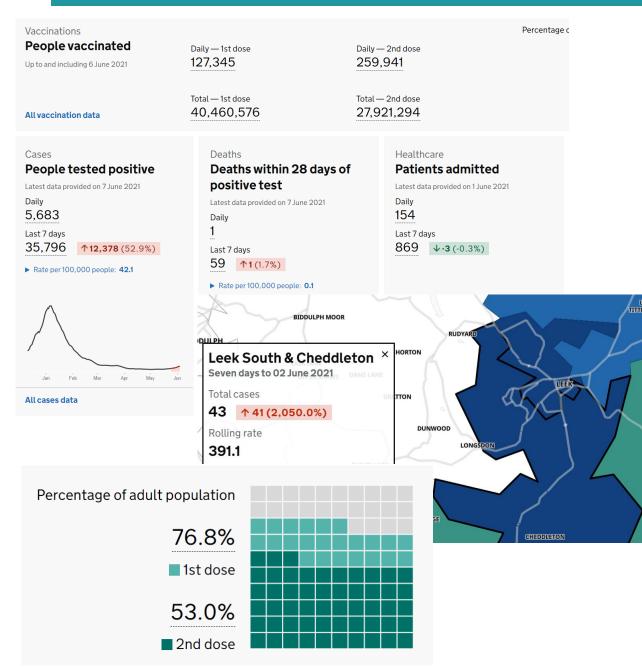
Young people in these 'Con gain' areas have shown strong demand for university in the post-2012 market/fee regime.

2020 showed the high Con gain political cost of thwarting Con hold university aspirations.

> Data can help universities make the case for their social and economic role.



#### **Post-pandemic data?**



The daily covid statistics, in their detail and frequency, have been important.

This transparency-through-data approach has supported trust (90%), fair debate, and interventions.

We could do far worse that demand the same approach to higher education over the next decade.

