

PROFESSIONAL DRONE TRAINING



14th December 2021

Presentation Aims

To tell you a bit about us

A bit about drones

And how they can save
you time and money



A Bit About Us

Company Formed 3 years ago

Jonathan Shelbourne

Liam McGrath

Trained over 300 people in that time

2 Offices

2 Offices



Head Office, Banchory,
Aberdeenshire



Central Office, Business First,
Paisley, Renfrewshire

Training Throughout The UK



Training Structure

- It should be noted that a high percentage of people we train have never flown a drone in their life. Before the course officially starts we issue clients with training drones for use indoors to get them acquainted with the controls
- These drones are lightweight and have rotor guards. This means even if they hit something they will cause no damage.



Training Structure

- The course is run over 3 days with 2 days of classroom work to cover 10 modules, Air Space, Air Law, Meteorology etc etc
- This is followed by 2 exams – 95% multiple choice
- Next a days flying where you will fly various drones from small to large. Following this there is a flight assessment
- Having passed your exams and flight assessment you will be issued with two qualifications
- Your A2 Certificate of Competence and your GVC Certificate.
- These are the only 2 qualifications available at the moment so you will be fully qualified and CAA Approved.

Summary

- You will learn a great deal during this course
- It will feel like being fed by a hose pipe
- On completion you will be one of the best trained operators in the UK



A Bit About Drones

- Drones come in various specifications, sizes and prices.
- Do not think that you have to spend fortunes or buy the most complicated drone to get great results.
- Professional Drone Training DO NOT SELL DRONES. This puts us in an unbiased position to look at your requirements and advise accordingly.
- Drones are now being used in various industries.
- Surveying, Inspection, Construction, Security/Police, Farming, Deliveries and Council's.
- Technology has made them very easy to fly and control.

Saving Time and Money

- If you require to inspect something which is difficult to access you have a few options.
- Depending on the height you could maybe use a cherry picker, which can be expensive to hire with an operator and may require closing off an area.
- Again, depending on height, you may choose to get a scaffolding firm to install scaffolding and then get the inspection done, hoping all will be well with the concerned area until the scaffolding is erected.
- This is time consuming and expensive.
- Alternatively you arrive on site with your drone and in a matter of minute, ascertain the extent of the problem.

Examples

- This Cell mast had been worked upon by a contractor 2 days previously and one of the antenna had stopped transmitting.
- It was thought that the inspection hatch at the top of the tower had been left open.
- The contractor had no one available to check for several days.
- A drone was used to check and within a matter of minutes it was clear that this was not the problem.
- The hatch had been secured and closed by the contractor.....

Examples



Examples



Examples



Examples



Examples



Examples

- This example is an old sewing mill which has been partly taken over by a skip company.
- The main old building, however, has been derelict for around 30 years
- Local residents had reported that they had seen “stuff” blowing off the roof.
- It was deemed far too dangerous to send men onto the roof even if they could have got access
- This is a short clip from the original video. The quality has been reduced for the purpose of presenting to 1080p. The original was much sharper at 4k.

Examples



Saving Time and Money

- You may be wondering what drone was used to shoot this footage?
- This.....



Saving Time and Money

- No!!!
- This.....



The Future/ Present

- Drones are becoming more widely used from deliveries by Amazon....



The Future/ Present

- To medical supplies to the remote Scottish Islands.



The Future/ Present

- To Air Taxi's and Tourism Flights, currently already happening in China.



The Future/ Present



The Future/ Present



The Future/ Present

- And with Christmas Just around the corner....

The Future/ Present

- Even Santa.....





Questions

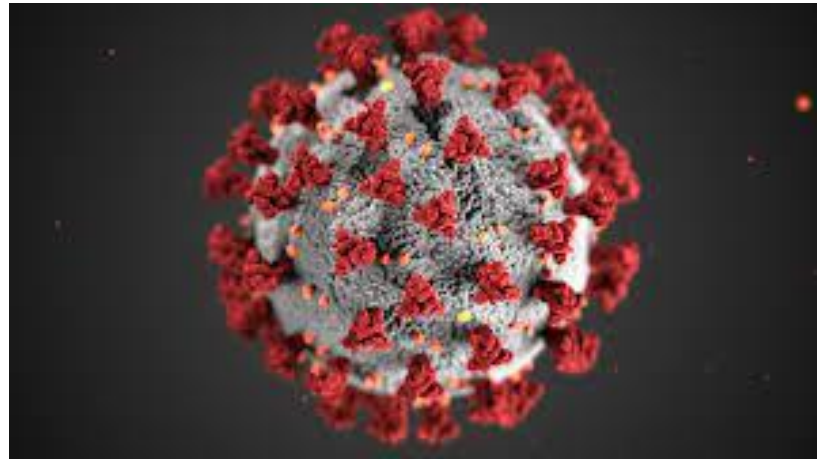
Thanks for your attention and we will now be happy to take any questions you have.



State of the Market 2021

**Mo Baines, Head of Communication and
Coordination, APSE**

Context

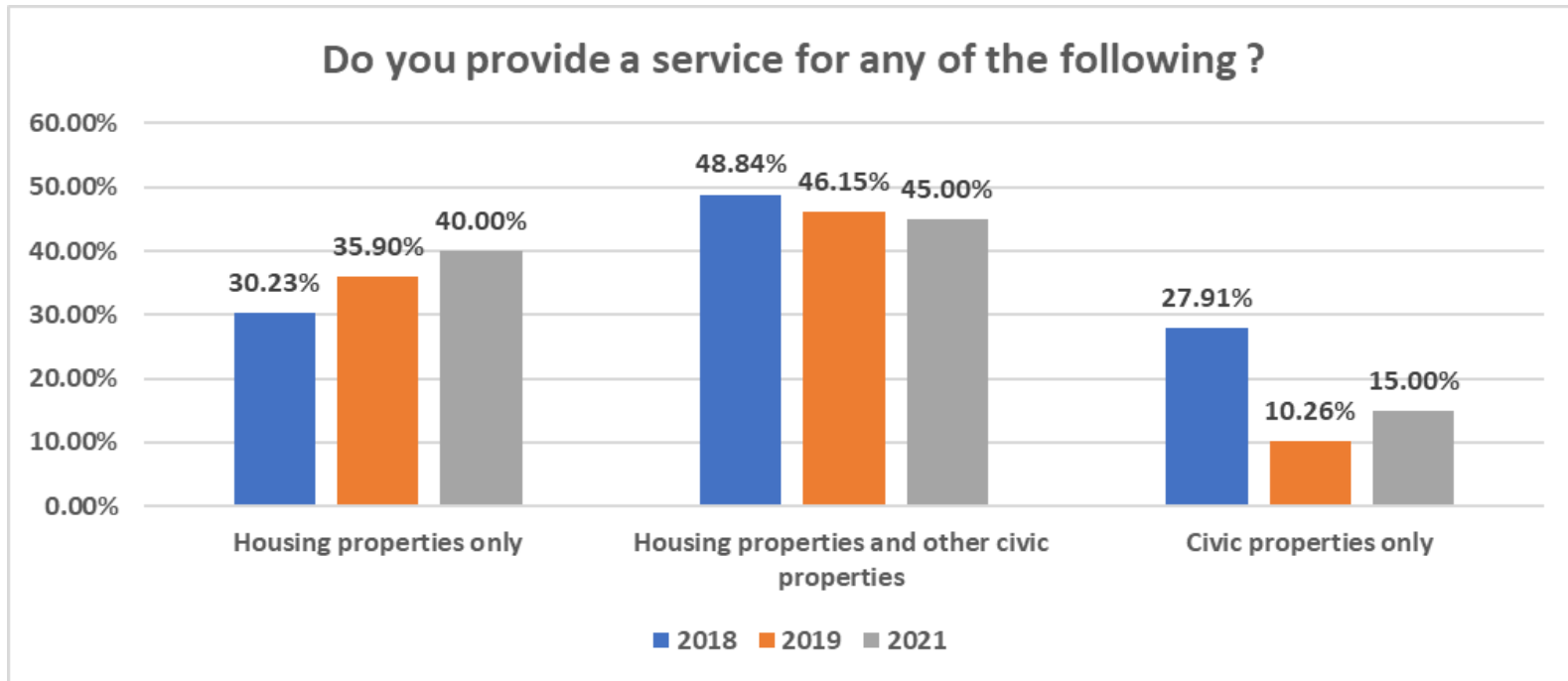




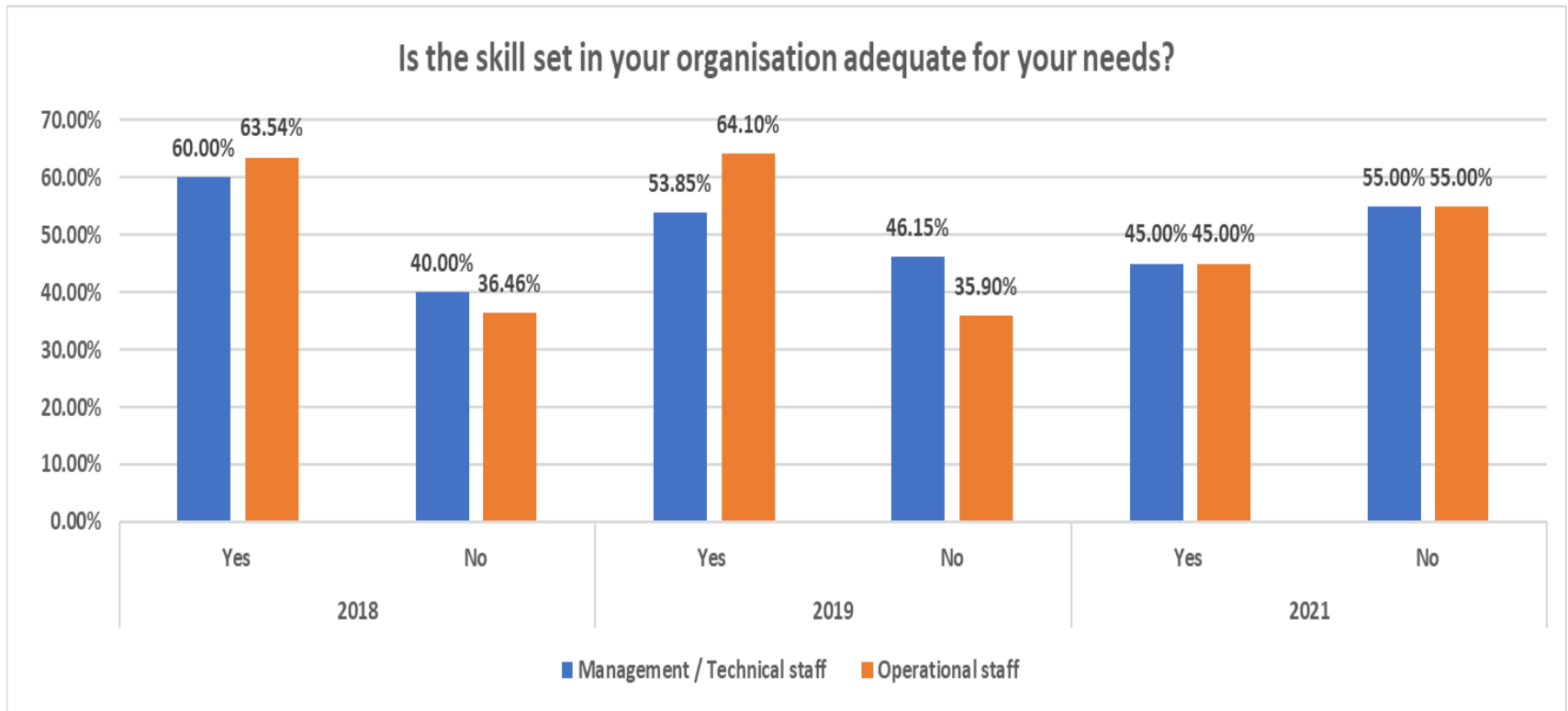
State of the market

APSE's findings

Scope of the service



Skillset



Apprenticeships

65% of respondents overall have apprenticeship schemes

35% say that they will establish one in the next 2-3 years

Answer options	Responses		
	2021	2019	2018
Less than 5	0%	8.33%	21.95%
5 to 9	10.53%	22.22%	17.07%
10 to 14	5.26%	8.33%	17.07%
15 to 19	10.53%	16.67%	12.20%
20 or more	42.11%	30.56%	17.07%
Not applicable	31.58%	16.67%	14.63%

Non-housing

21.4% report an increase in workload
Reasons?

New build work
Capital works
Refurbishments and retrofitting

Is this a trend with councils using the COVID emergency to take stock and refit when assets are out of use anyway?

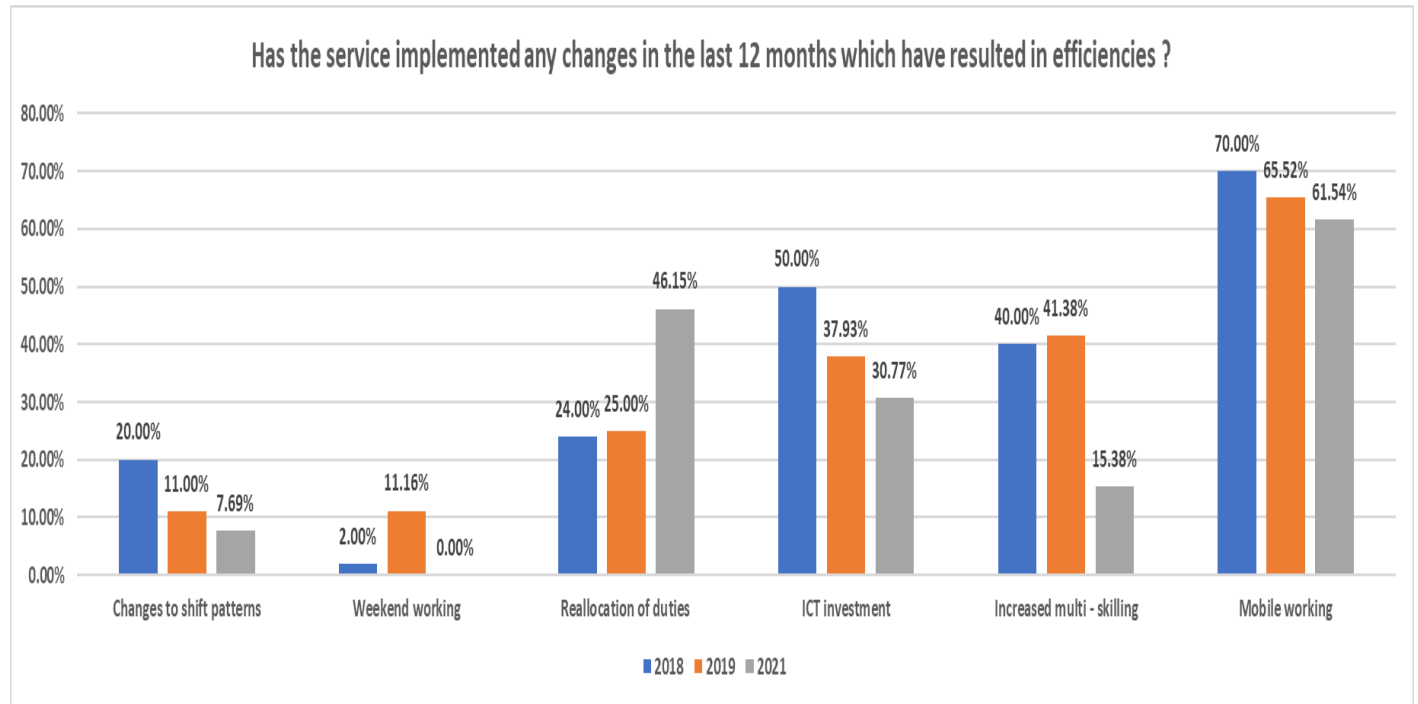
Answer Options	2021 Non-housing %	2019 non-housing %	2018 Non-housing %	2016 Non-housing %
Increase significantly	30.77%	26.09%	3.23%	7.69%
Increase	38.46%	39.13%	41.94%	42.31%
Stay the same	15.38%	21.74%	19.35%	34.62%
Decrease	15.38%	13.04%	35.48%	15.38%
Decrease Significantly	0%	0%	0%	0%

Changes implemented

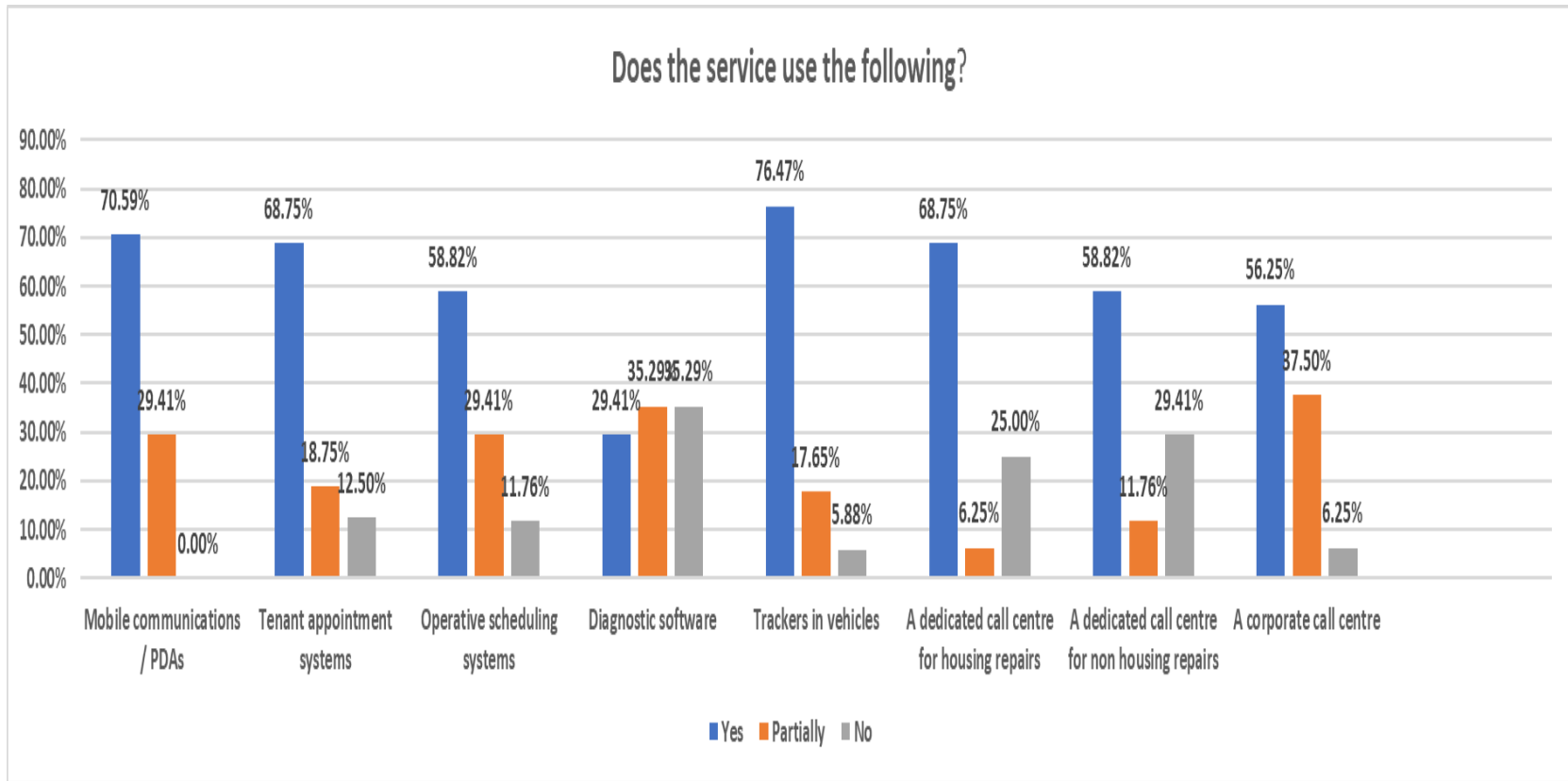
Mobile working?

Biggest increase in three years though lower in 2021.

Is this COVID related?
Remote management tools?



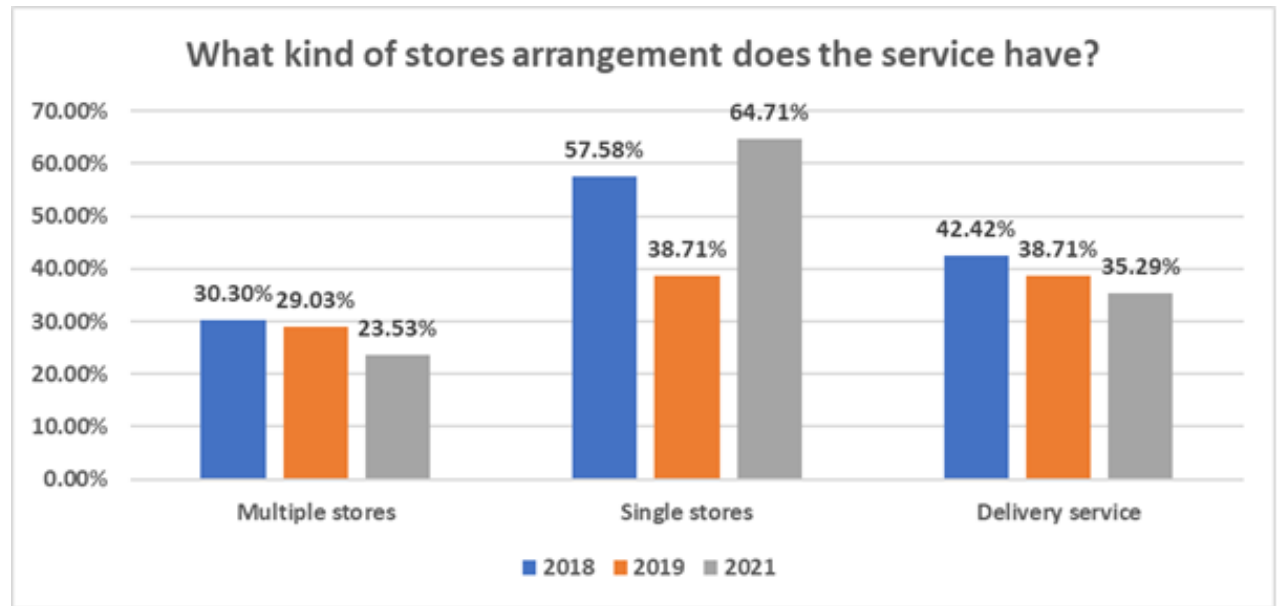
Systems implemented



Stores arrangements

What happens if we triangulate this data with APSE Performance Networks Data?

Average number of lines in stores increased from 2,200 in year 18 to 2,823 now – a response to material shortages?



Next 12 Months

Areas of Growth

- **57.14%** - repairs on new housing units through a Local Authority Housing Company
- **50%** - work from the insourced housing stock
- **50%** - growth in new contracts with housing providers
- **14.29%** - work undertaken for the private rented sector

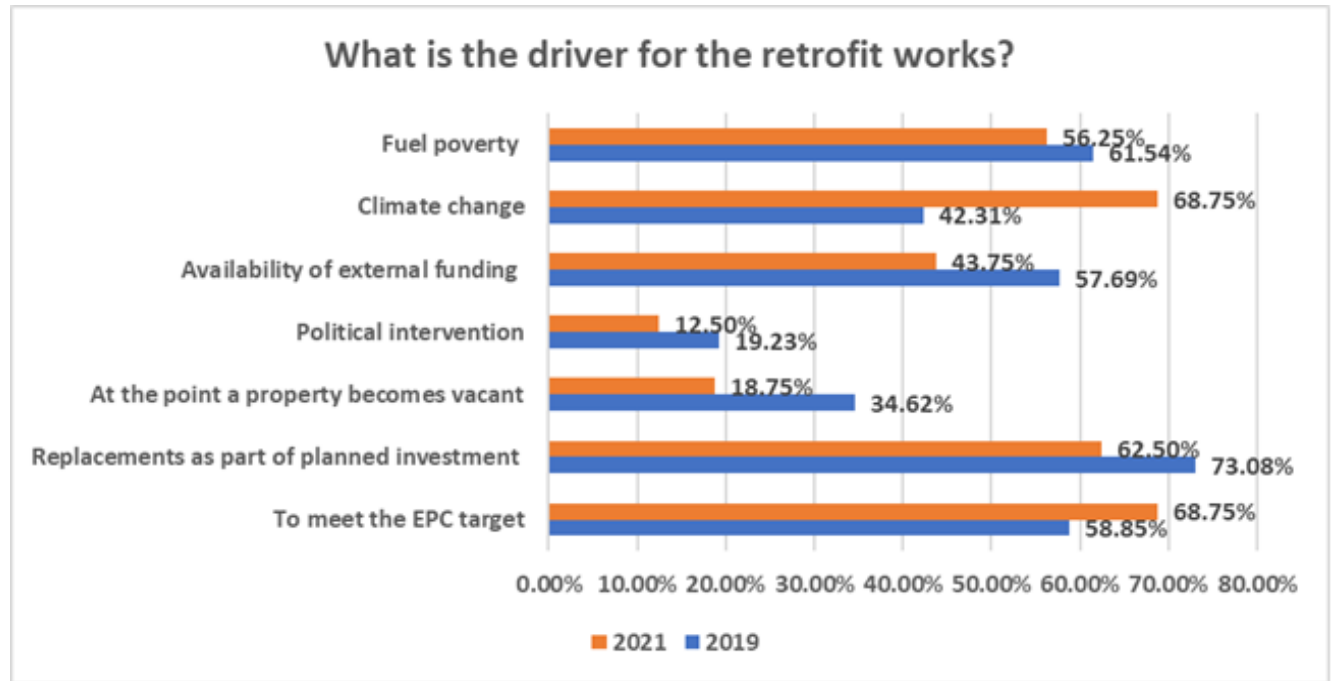
Areas of Decrease

- **80%** - decrease as a result of reducing budgets
- **20%** - a reduction in civic assets
- **6.67%** - tenant behaviour change
- **33.33%** - the reduction in stock

Drivers for Retrofit

Climate change now the biggest driver for retrofit works.

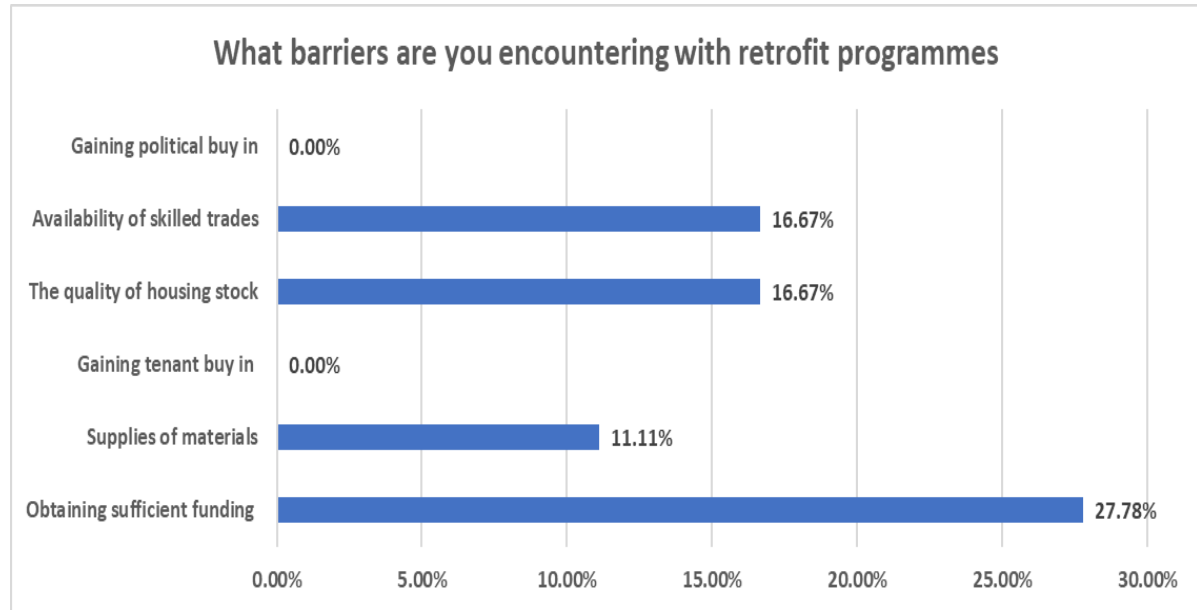
Does this mean the sector is now being taken seriously on its climate role?



Barriers for Retrofit

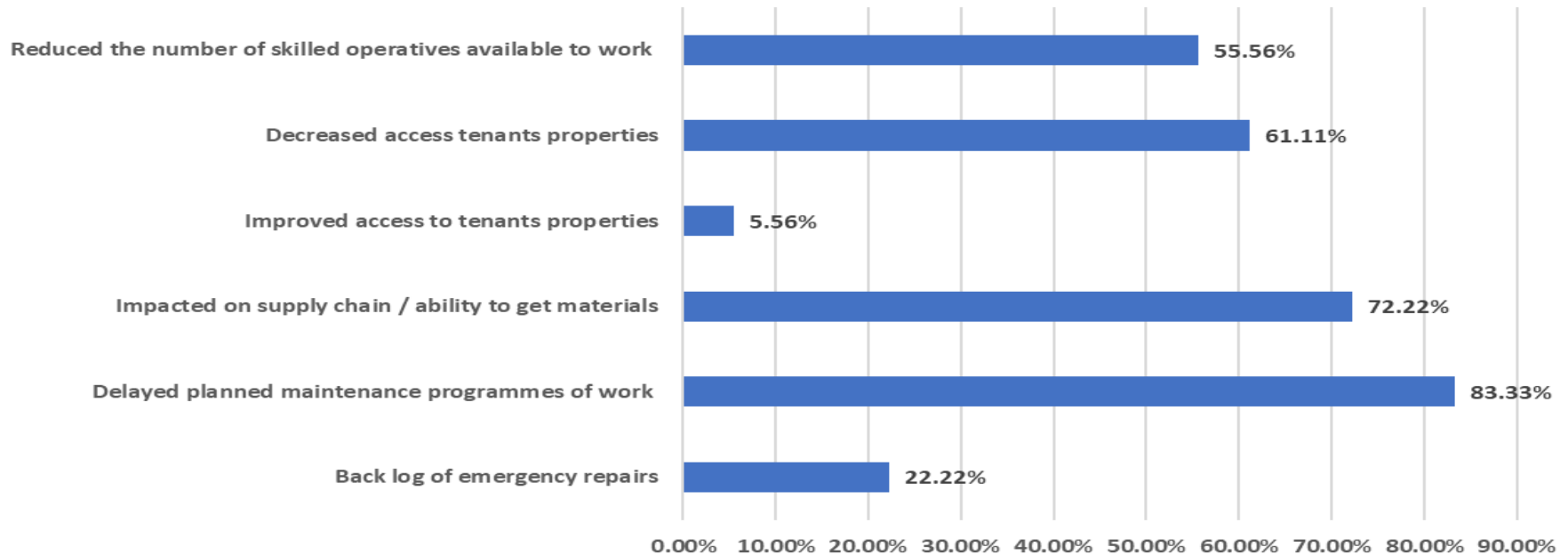
Funding!

What a surprise.....!



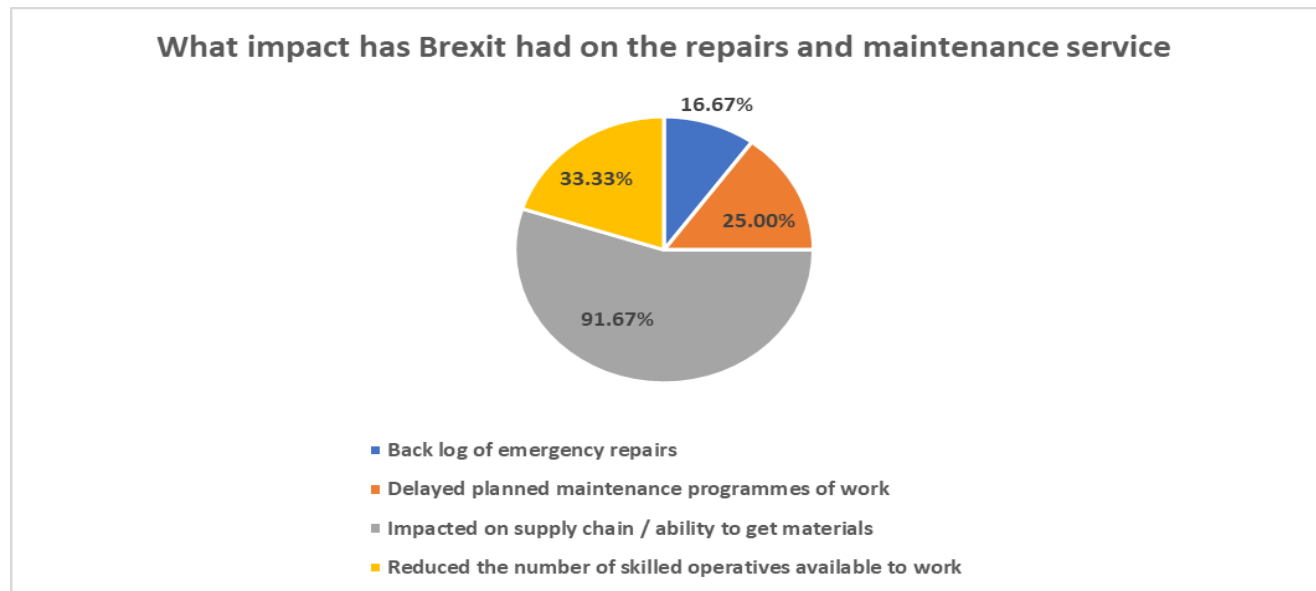
COVID-19 Impacts

What impact has COVID-19 had on the repairs and maintenance service



Brexit Impact

Material sources exacerbated





So where does this leave us in policy terms?





Planning for quality



Defining 'key workers' and affordable housing



Conclusions

- Perception of homes – working from home and housing quality
- Housing crisis further exposed by the COVID pandemic
- Planning in many areas of the UK is inadequate
- Skills shortages are now headline news!
- Investment in apprenticeships critical
- Growing our own? Brick production? Addressing the materials shortages
- Assets and estates – 40% of emissions so councils cannot address their climate promises without addressing housing and non-housing stock!

NEW MUNICIPALISM

Delivering for local people and local economies



Contact details

Mo Baines, Head of Communication and Coordination, APSE

Email: mbaines@apse.org.uk

[@apsenews](#)

Association for Public Service Excellence

3rd floor, Trafford House, Chester Road,
Old Trafford, Manchester M32 0RS.

telephone: 0161 772 1810

web: www.apse.org.uk



GB 11409



GB 11132



GB 14074