

Unknown 0:05

Welcome to Bett 2019, we have a clicker. Thank you very much welcome to that 2019 actually the most amazing brilliant showcase of Education Technology and Innovation at it's very it's very best actually not just its best, but its biggest so here we are at the 35th Bett show bigger than ever.

Unknown 0:32

It just keeps on growing. And speaking of keeps on growing.

Unknown 0:38

That's good. But speaking of keeps on growing.

Unknown 0:42

We really proud that this show happens here in London, because we are very proud in the UK of our eggs tech sector. The fourth largest in the world with a projected export value of around 170 million pounds. That's over \$200 million and I want that to keep on growing as well.

Unknown 1:07

But of course, here it's better.

Unknown 1:09

You see products and innovations and services from Royce across the world as well as from here in Britain, you might say it is a sort of an Aladdin's cave for the education geek.

Unknown 1:23

Well, ladies, gentlemen, I have a confession to make to you I am that geek, or at least I used to be. Now I wonder if any of you are old enough to remember this from your youth I sell me on this was one of my hobbies. When I was a child growing up coding or as we used to call it programming sitting in your bedroom trying to get a game out of something is simple and straightforward as a Commodore VIC 20 and for any of you are not old enough to remember what these types of technologies were a Commodore VIC 20 or something. He's the plugin see a Telly and you plug in a tape deck to load up programs. It was something about the size of a small coffee table with about the same amount of memory and I compare that now to something like 49 which my children. Tell me does not actually take 14 days to play but does seem to take something like 40 gigabytes to download it was hard writing a playable game with 3583 bytes of RAM hard but not impossible.

Unknown 2:34

In fact, in some ways, when technology was simpler life was simpler and when I took my first job at the age of 17 or at least the first job that I had to wear a suit for every day. It was at IBM in Manchester, and it was possible. Back in those days in 1987 as a 17 year old to be taught in half a day how to take apart a PC and put it back together.

Unknown 3:02

And actually, if I reflect back to those times in the late 1980s, but actually we most of all actually have a core ingredients of office productivity that we have today.

Unknown 3:18

We had spreadsheets and we had word processor, we had slide design we had database and we had and we had desktop publishing Barry's been classic Lotus 123. He was old enough to remember that.

Unknown 3:33

But I'm struck by the difference between having a groundbreaking innovation and then having the sorts of great leaps forward that make those innovations work at their full potential at their full scale in the mass markets and of course today. We still have spreadsheets and word processing and database technology and so on.

Unknown 3:54

But it was the graphical user interface and point and click technology which made it available to that mass market in an accessible accessible way back in 1987. I was a bit weird because I worked at IBM I had an email address. But if I said that to any of my friends. They had no idea what I was talking about, because it took a number of years and a period and three more letters at the end of every email address to make it actually work for the consumer. He took the internet's the biggest leap forward of the speed of leap forward for this leap forward to where we are today and we have some astounding examples of education technology available. You'll see many of them in the holes out there and actually you can see many of them is used in very active and productive use in our schools in this country today, such as it Bolton college where they are chatbots called Ada names of course after the Great Ada Lovelace is enabling personalized learning for 14,000 students but also been able to deal with so many routine and quite a lot or not. So routine questions to relieve the burden of administration on staff or high Furlong school in Blackpool where they using technology and very innovative ways to support to support their students with special educational needs and disabilities to get the very most out of their education or something in high school where they using technology to to create a generation of discerning consumers of information being critical users of technology and searching out bias online.

Unknown 5:44

So there are many, many, many encouraging of a positive things happening in education technology but ed tech also faces some particular challenges I think unique to the education sector. One of them is the ed tech sometimes gets a bit of a bad name because this is one of the few sentences where technology has been associated for some people, not with a decrease work but increase and one example of that is email. My email is great when it replaces other types of communication to make things more productive. But in education. What you often hear from teachers is it hasn't replaced, everything is just added to it and to deal with this we need schools and leaders to think in innovative ways. And then we also need the ed tech companies also to come up with more solutions.

Unknown 6:43

Now of course one of the very best things about technology and one way in which it has changed remarkably since the 1980s is its ability to crunch large amounts of data and offer so sadly not always turn that into informative analysis and charts and outputs, but of course the data has to come from somewhere and this is another way in which edge technology

and it can get a bit of a bad leg in the world of education because the sheer volume of data that is required or asked for to be inputted into these systems can create an additional burden on teachers.

Unknown 7:27

Then there's the market itself and there's probably no better example of an efficient market working well than here in the XL center in January 2019 bringing together buyers, sellers. The interested. The curious to come together to taste and see what is on offer, but away from there can be some difficulties with how the market works for ed tech products.

Unknown 7:57

If you are a teacher, your school, your school leader or a head. Actually, it can be very difficult to know from this age of what is on the markets. Really what is good for the point of view of a seller at particularly if you are very devolved system as we do in this country and we are very proud of our devolved system and education and think it is a great strength but I'm could also make it hard for seller to reach the buyer and to be able cost effectively to do their to do their marketing and their product exposition, that can be a very understandable nervousness on behalf of schools dealing with sometimes with brands and names that are not familiar with. I'm wondering if they can be certain that these will be around at a number of years time and then there's the issue about making a commitment. Once you've signed up for a particular piece of software a particular program, it can feel like you're locked in and that can both make people stick with things, perhaps longer than they would have done otherwise, but also make them more reluctant to take them on in the first place. And that can be some wastage which is a serious issue a serious issue because Ed Tech is now big business in the here in England, a terrible technology in general in schools now has a spend 450 million pounds a year. So we need to make sure that money is being spent effectively.

Unknown 9:31

So, from this spring. We are going to be shaping our edge tech strategy for England and it has a number of different elements to it. One of them is our friends at be server running a number of road shows around the country which have already started bringing the tech to teachers to enable more schools to see what is an offer to see what is possible.

Unknown 9:56

They are free, they're happening right throughout the country. And I'd encourage you, if you haven't already, just sign up to attend.

Unknown 10:04

We also want schools to be able to see good tech in action. And that's why we're going to be rolling out a network of demonstrator schools and colleges where educators can get the sort of peer to peer support the training that they tell us is important to them and raise their confidence level and skill and using some of these key products.

Unknown 10:29

we need to have a trusted single place education destination. If you like where people know where to go for education products and services. And by the way, this isn't just for teachers, but also thinking about parents and direct consumers of education services as well.

Unknown 10:48

And finally, because of those challenges that I mentioned with the way the markets work. We need to have an informed marketplace where people can buy with confidence and also makes it more effective, more efficient for sellers to market their wares. And the important part of that is this product which is being filed by beast launches today. It's called the land Ed.

Unknown 11:16

So it's an opportunity with tech products to try before you buy it also allows teachers to to write reviews and you can see case studies and get tips and tips and advice on how to get the most out of these products. And if you do, then go on to buy the product, you have the reassurance of knowing that the companies involved have been vetted so I want to make sure that in our education system we are able to make the fullest use of the complete range of opportunities available through Ed Tech, but I also want to make sure that we are able to be specific, in what problems we are trying to solve.

Unknown 13:18

First of all, on lesson prep.

Unknown 13:21

I want to see what technology companies come forward with to help to cut the time that teacher spent on preparing a marking homework and in class assessments. Obviously this is absolutely vital work. It is a core of what we do in school. It's what the core of what teachers are about, but it takes too long. And so I want to see what we can do to technology to cut the time doing that by two hours a week or more, and secondly the engagement of parents and obviously parents are crucial to children's edgy education.

Unknown 13:58

Again, I think there is an opportunity here to cut the amount of time that this takes while enhancing the quality of interaction with parents, as an example, we already have some schools in the northeast of this country where they've introduced an online learning journey which enriches the amount of information available to care about their involvement in their child's education and their progress, then they can, but without adding pressure or more pressure on to teachers.

Unknown 14:30

And finally, for now, big the chiefs. So we know that the growth of sa Mills subcontracting of work, if you like, and the the older problem of plagiarism these things of course undermine the great work that students do University and also over time actually undermines the or roads. The the validity, the value of qualifications themselves and software exists and is widely used to try and identify plagiarism and abuse, but it seems also that the problem persists, and in some in some ways, in some cases, seems to be getting worse. So for us to be for us to keep up with this, we need to make sure that we are not just up with the change, but one step ahead of the genes and get smarter in the way we do it and for all of these three and the other seven on the list. There are three further tests which I think needs to be woven through the first is that things have to be cost effective. Ideally, actually, to

reduce the cost that schools are expanding on these things to free up more resource for teaching and learning and all the other important things that schools do and I also want it not only to involve a manageable amount of teacher workload, but to cut the amount of teacher workload that is being expanded and Finally, and most importantly of all, of course, it's all about outcomes. It's all about enhancing learning so that more children can do better learning and fulfill their full potential.

Unknown 16:13

Now remarkable self restraint. By the way, by sitting here listening to people doing PowerPoint presentations I apologize for that but there are some fantastic presentations. Coming up after mine, which I hope you will. I hope you will enjoy and I know then you're going to want to get out into into the Aladdin's cave out there to see the full breadth of all that is on offer.

Unknown 16:36

I do believe we are truly on the cusp of amazing things in education technology and there are some truly amazing products and services and I say amazing in the truest sense that when you see them you are actually taken aback by what is possible, but in some ways I still feel we're still in 1987 that we have a lot of these brilliant innovations, but we need to make more connections we need to create conveyors to bring these things to their fullest potential throughout our system and bats and the opportunity you have today to be with colleagues and and innovators in the system from around the world as an unrivaled opportunity to do that. We must never think about technology for its own sake technology is an enabler and an enhancer and ladies, gentlemen, you in this room are a big part of that because we need a partnership approach between educators and innovators between the technology companies and government has a role as well to make sure that we work together to forge those brilliant tools for a brighter future for all our children. Thank you.

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