Bilingual Brain The

The Bilingual Brain	
It used to be thought that being bilingual was a bad thing - that it would confuse or hold people back, especially children.	confuse запутывать,
Turns out, we couldn't have been more wrong.	усложнять benefit
Learning new languages is an exercise of the mind.	польза, выгода
It's the mental equivalent of going to a gym every day.	brain мозг
Benefits of being bilingual	continual
In the bilingual brain , all our languages are active, all at the same time.	постоянный
	effort
The continual effort of suppressing a language when speaking another, along with the mental challenge that comes with regularly	усилие
switching between languages, exercises our brain.	suppress
	сдерживать,
It improves our concentration, problem solving, memory, and in turn our creativity.	подавлять
	switch
It's now widely accepted that there are huge benefits to being bilingual.	переключаться
	improve
A key breakthrough came back in 2007 in Toronto, when Ellen Bialystok and her team made a discovery that shook the scientific	
community - and has massive real-world implications .	widely accepted общепринятый
Cognitive Reserve	
	breakthrough
It was the first study which suggested that bilingual people - people who speak more than one language - develop dementia four to	прорыв, достижение
four-and-a-half years later than those who don't.	discovery
It was a powerful confirmation of the idea of cognitive reserve.	открытие
Now, what is cognitive reserve ?	implications
	последствия
Cognitive reserve is the idea that people develop a reserve of thinking	
abilities, and this protects them against losses that can occur through	suggest
ageing and disease.	предлагать
As well as delaying the onset of dementia, bilingual people have been	confirmation
shown to recover significantly better after a stroke .	утверждение,
	доказательство

Learning anything new helps build cognitive reserve. But there's something special about language. Language is particularly broad and complex. It affects ideas and concepts, perception , different sounds. The more complex a certain skill is, the more likely it is to have a positive effect on cognitive reserve. When is the best time	reserve резерв оссиг происходить, встречаться delay задержка, промедление
Well, here's part of the answer.	onset начало
The brain is a complex set of neural networks. When you're learning a new language as a child, you're building new	recover восстанавливать, выздоравливать
networks. But when you learn a language later in life, you have to modify the existing networks and make more connections.	significantly знаменательно
Because learning languages later in life can be more challenging, the benefits can also be greater.	stroke приступ; удар; паралич
Brain networks	perception
But a 2023 study at Great Ormond Street suggests this is just part of the story.	восприятие, понимание
So we invited three groups of children that were aged eight to 10.	certain определенный, некоторый
We had a group of children who were monolinguals. A group of children who had early exposure to Greek and English from birth - they were our early bilinguals. And finally, we had a group who had been exposed to English between the age of two and five, and they were our later bilinguals.	modify видоизменять, модифицировать existing
So what we did that no-one had done before, is that we asked the children to lie in the scanner while doing nothing - and just stare at a cross.	существующий exposure воздействие
And during this, we measured their brain activity. What we found that was really exciting for us is that our early bilingual group had the strongest connectivity in the network at rest.	воздействие exposed подверженный действию

And these groups of regions are regions that light up when we're doing nothing and just mind-wandering. stare пристально A little bit like if you're going to the gym every day, your **muscles** смотреть might look bigger at rest. measure измерять, мерить **Similarly** your brain might be better connected at rest, because you are learning a language early. connectivity СВЯЗНОСТЬ, СВЯЗЬ And this is something no-one had found before. mind-wandering блуждание ума And there's more muscles One lesser-known **behavioural** effect of bilingualism in both children and adults is the **ability** to see the other people's **perspective**, or to мышцы understand that it is possible to have different points of view. similarly **Recent** studies have also found that people tend to react more аналогичным emotionally in their first language, and more rationally, in a more образом, abstract way, in their second. так же And the way it is usually explained is that the first language is the one behavioural which we use to speak with family, with friends - in informal settings. поведенческий The second language is usually learned at school, at the university, at ability work. способность, возможность Scientists are **discovering** new upsides to being bilingual all the time. perspective And it's not just our brains that benefit. вид, взгляд Learning new languages, and speaking more than one language, is very important - not only for individuals, but also for societies. recent недавний, последний Learning new languages can open doors to new cultural experiences, life opportunities. discover обнаруживать, Different people, different communities, and different ways of seeing открывать the world. And with that, we'll say a final... Bye!