



What are some of the key factors for the education sector to invest in 5G adoption?

The future of education

5G is expected to bring significant economic and social benefits in the coming years, proving to be the area of great interest that has been debated over the past few years...

US\$13.1 trillion potential global sales in 2035 enabled by 5G across multiple sectors, which represents approximately 5.1% of all global real output...

\$13.1 Trillions

\$264 Million

Of these, **US\$264 million** are directly related to the education sector, which represents 3.6% of all production in the sector.

The 5G **ultra-fast speeds**, lower latency and the ability to connect a massive number of mobile devices, could enable new and improved opportunities **to increase equal opportunity to education** with distance and remote learning.

5G Value for higher education

Enhanced learning experience

5G will leverage **the use of new learning platforms based on augmented reality (AR) and virtual reality (VR) technologies**, thereby contributing to a better learning experience for students

Increased access to education

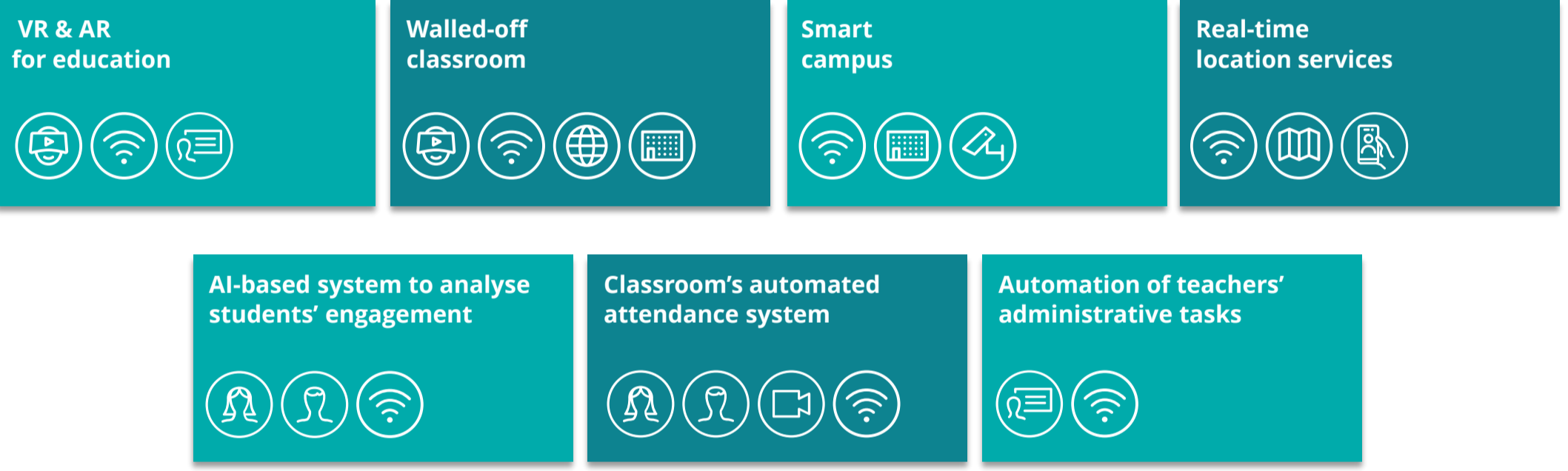
5G can be used to **live stream lessons in real-time with a UHD 8K resolution**, improving access to education in rural areas

Greater inclusivity in assistance

5G can potentiate the **use of robots to make higher education more inclusive** by delivering the connectivity needed for these robots to respond in real-time

The bandwidth and responsiveness delivered by 5G networks would leverage **the use of AR/VR technologies in education, enhancing students' learning experience.**

5G Use case for Education



Several use cases related to **5G in the education sector are under test or have been implemented in universities around the world**, helping to provide enhanced learning experience

How can Deloitte help?

Deloitte translates business and industry needs into technical requirements delivering value added end-to-end 5G solutions that can lead to **meaningful business outcomes.**



IDEATE AND PRIORITIZE

Select the areas to be improved with 5G use cases, ideating, identifying and prioritizing the top 5G use case opportunities



DEVELOP THE BUSINESS CASE

Formulate the operational benefits of the 5G use case(s) defined and associated business case value proposition



DESIGN TECH REQUIREMENTS

Define and design use case technical solution architecture and requirements, considering deployment strategies and application requirements



BUILD AND EVALUATE

Start with a point of contact (PoC) first to monitor and evaluate the 5G use case(s) performance and then proceed with global rollout



OPERATE AND MAINTAIN

Define overall governance, operating model and procedures to ensure the sustainability in business as usual (BAU)

Sources: Deloitte TMT Predictions 2021, Huawei, IDC, Gartner, The Business Research Company

Contacts

Leaders



Craig Wigginton
5G Industry Leader
Deloitte Global
cwigginton@deloitte.com



Pedro Tavares
5G Offering Leader
Deloitte Global
petavares@deloitte.pt



Gustav Jeppensen
Sector Leader
Deloitte Global
gjeppensen@deloitte.com

General enquiries:
Global5G@deloitte.com
[Deloitte.com/5G](https://deloitte.com/5G)

5G Experts



Hugo Pinto
Associate Partner gTEE
Deloitte Portugal
hupinto@deloitte.pt



Pedro Sanguinho
Senior Manager gTEE
Deloitte Portugal
psanguinho@deloitte.pt

Acknowledgements

Special thanks to the Deloitte team who contributed to this publication in terms of researching, providing expertise, and coordinating: Thiago Silva – Tech Senior gTEE

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited ("DTTL"), its global network of member firms, and their related entities (collectively, the "Deloitte organization"). DTTL (also referred to as "Deloitte Global") and each of its member firms and related entities are legally separate and independent entities, which cannot obligate or bind each other in respect of third parties. DTTL and each DTTL member firm and related entity is liable only for its own acts and omissions, and not those of each other. DTTL does not provide services to clients. Please see www.deloitte.com/about to learn more.

Deloitte is a leading global provider of audit and assurance, consulting, financial advisory, risk advisory, tax and related services. Our global network of member firms and related entities in more than 150 countries and territories (collectively, the "Deloitte organization") serves four out of five Fortune Global 500® companies. Learn how Deloitte's more than 345,000 people make an impact that matters at www.deloitte.com.

This communication contains general information only, and none of Deloitte Touche Tohmatsu Limited ("DTTL"), its global network of member firms or their related entities (collectively, the "Deloitte organization") is, by means of this communication, rendering professional advice or services. Before making any decision or taking any action that may affect your finances or your business, you should consult a qualified professional adviser. No representations, warranties or undertakings (express or implied) are given as to the accuracy or completeness of the information in this communication, and none of DTTL, its member firms, related entities, employees or agents shall be liable or responsible for any loss or damage whatsoever arising directly or indirectly in connection with any person relying on this communication. DTTL and each of its member firms, and their related entities, are legally separate and independent entities.