

Our Future **3: KDDI Accelerate 5.0**

Accelerating Society 5.0 with 5G to create an even brighter society for the future

KDDI and KDDI Research, Inc. formulated KDDI Accelerate 5.0—a concept that envisions the future in 2030.

We aim to create a resilient future society to establish new lifestyles for people, as well as spur economic development and solve social issues in Japan, through the evolution of three layers, along with research and development in seven fields to support that evolution.

About KDDI Accelerate 5.0

1. Background

As the effects of the COVID-19 pandemic drag on, the need has grown rapidly for telework, online education, remote health-care and the like, highlighting the social importance of the ICT infrastructure that maintains economic activity and consumers' peace of mind and safety in Japan. In addition, each industry is expected to create a resilient business model, supporting

economic growth in Japan and an even brighter society, bursting with vitality, for the future. Against this social backdrop, we put together KDDI Accelerate 5.0 with the aim of contributing to the era of the new normal by actively working to build networks and platforms and to create business models.

2. Upgrading the environment in three layers

To realize KDDI Accelerate 5.0, we will upgrade the environment in three layers.

1. Network Layer:

The network layer forms the base of a new social foundation. To engrain 5G in Japanese society and industry, we need to quickly roll out highly reliable networks based on the latest technologies across the country.

KDDI will introduce the technologies of overseas companies to maintain Japan's international competitiveness and will lead efforts to adopt world-class advanced technologies in Japan. In addition, KDDI will accelerate the nationwide rollout of its 5G network mainly through proactive forward-looking investments and infrastructure sharing in rural areas.

2. Platform Layer:

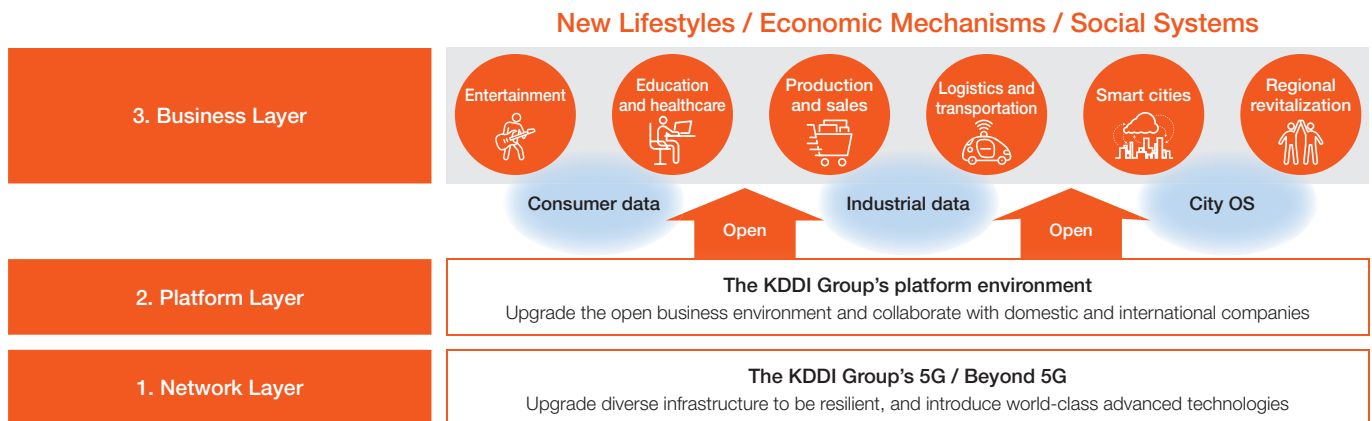
The platform layer is built on top of the network layer. It creates unprecedented new value by using cyber spaces to analyze

data collected from physical spaces and to then provide feedback on forecast results in physical spaces. KDDI will upgrade the open platform of advanced technologies for each industry in Japan through domestic collaboration with Japan's corporate platforms and venture companies while integrating its 5G network and the advanced cloud technologies of global IT companies.

3. Business Layer:

The business layer is positioned on top of resilient networks and open platforms to create new services and solutions. By integrating cyber and physical spaces through open innovation with companies in other industries, we aim to enhance engagement with customers, evolve into a resilient business model. KDDI will accelerate Society 5.0 with the aim of creating economic growth in Japan, as well as an even brighter society for the future.

The three layers that form the foundation of KDDI Accelerate 5.0



Technologies in Seven Fields that Unify Physical and Cyber Spaces

To accelerate Society 5.0, technology evolution is required to further accelerate the integration of physical spaces, where real people and things exist, and cyber spaces, which are the world of computers.

Data is collected from physical spaces, analyzed in cyber spaces, and then fed back into physical spaces again.

This cycle is supported by technologies in seven fields and close collaboration (orchestration) between those technologies.

Technologies in Seven Fields that Support KDDI Accelerate 5.0

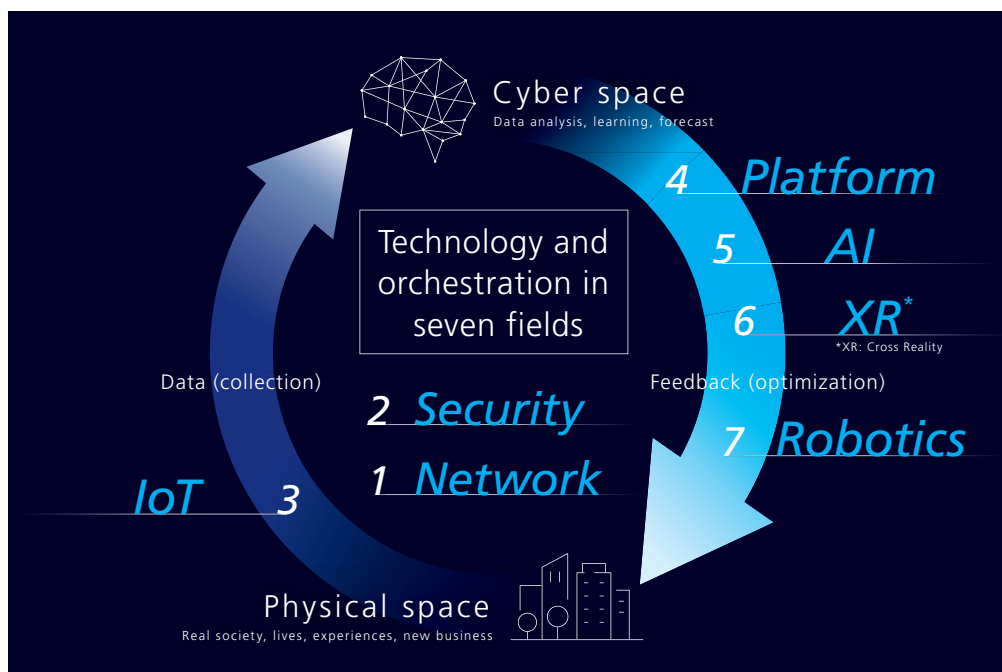
The seven technologies refer to network, security, IoT, platforms, AI, XR, and robotics.

Networks connect physical and cyber spaces, and security ensures the safety of both spaces.

IoT sends information collected from physical spaces to cyber spaces. Information accumulated on platforms in cyber space is analyzed by AI, which then provides guidance on how to utilize it in physical spaces.

XR and robotics enable the use of this information in physical spaces. XR makes use of human senses, and robotics physically animates drones and robots.

Repeating these cycles will increasingly optimize social and economic activities.



The proliferation of 5G service will drive the integration of physical and cyber spaces. And when we enter the beyond 5G era, the feedback from cyber spaces to physical spaces will be enhanced. These kinds of changes are being accelerated by research such as AI, XR and robotics that spur changes in human behavior; and the Life Design Business platform that KDDI is promoting.