

Test and Measurement Business

With a mission of being the first to deliver optimal test and measurement solutions with its advanced measurement technologies, Anritsu contributes to the creation of industry and advances in innovation that assist with the development of a sustainable society by helping customers build safe and secure communication infrastructure.



Social Issues and Customer Needs

Anticipating the next social transformation through digital transformation

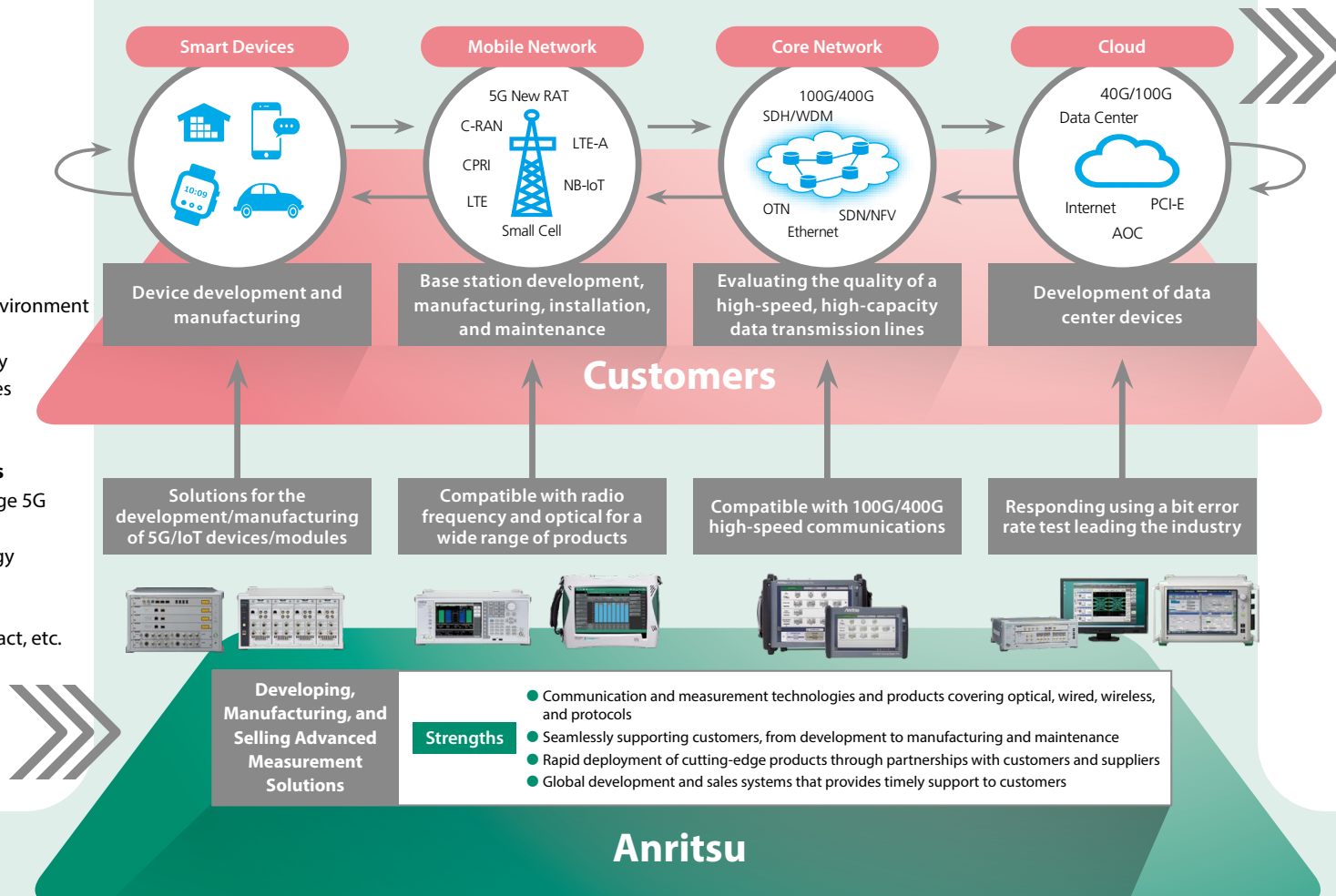
Social Issues

- Digital transformation
- Strengthening telecommunication infrastructure
- Improving telecommuting environment
- Reducing traffic accidents
- Improving industrial efficiency
- Eliminating regional disparities

Customer Needs and Interests

- Quick response to cutting-edge 5G technology
- Development of 6G technology
- Global support
- High Return on Investment
- Reducing environmental impact, etc.

Evaluating and Inspecting the Development, Manufacturing, Construction, and Maintenance of 5G Infrastructure Using Anritsu's Measuring Instruments

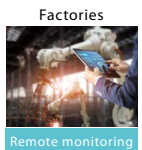


Future Society

Leveraging 5G advantages to create a prosperous future with solutions that address social issues

5G

- Ultrahigh-speed, large-capacity
- Multiple simultaneous connections
- Ultra-low latency





Questions Posed to Anritsu Engineers by a Visiting Student

SDGs in the Test and Measurement Business

In the future society, technological innovations such as DX are expected to support industries and everyday life. These innovations will be supported by advanced communications networks. Anritsu's Test and Measurement Business contributes to achieving Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation and Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, in partnerships with customers by providing reliable communication test solutions to support development and ensure the quality of the communications network.



Q: How will technological innovations shape the communities of the future?

A: In the communities of the future, a variety of social issues will be solved by DX and people will be able to lead more comfortable, prosperous lives. For instance, we will be able to use autonomous driving and telemedicine, which leverages 5G's ultra-low latency characteristics.



Q: How is Anritsu helping to develop the communities of the future?

A: The infrastructure for future communities will incorporate securely connected advanced communications networks. The quality of communications will be ensured by using reliable communication test solutions.

Anritsu provides test solutions to ensure the quality of communications required for the development, manufacturing, and maintenance of smartphones and base stations. Telecommunications operators taking advantage of Anritsu's support will be able to construct resilient communications networks with highly reliable connectivity. This will also lead to better traffic safety. These efforts will contribute to achieving Targets 9.1 and 11.2 of the SDGs.



Q: Please elaborate on the roles played by your test solutions.

A: Communications terminals and equipment must be verified to have been manufactured in accordance with global mobile telecommunications specifications. Our measuring instruments, which serve as testing solutions, make invisible electrical waves visible. They also perform the functions of base stations in verifying that terminals and equipment operate in accordance with the latest communications specifications. Terminals and equipment verified by our measuring instruments will help to create safe, secure, and prosperous communities, as shown in the illustration on the right.



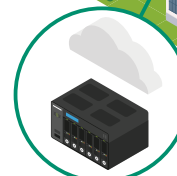
I see. That's how Anritsu is helping to achieve Goals 9 and 11 of the SDGs.



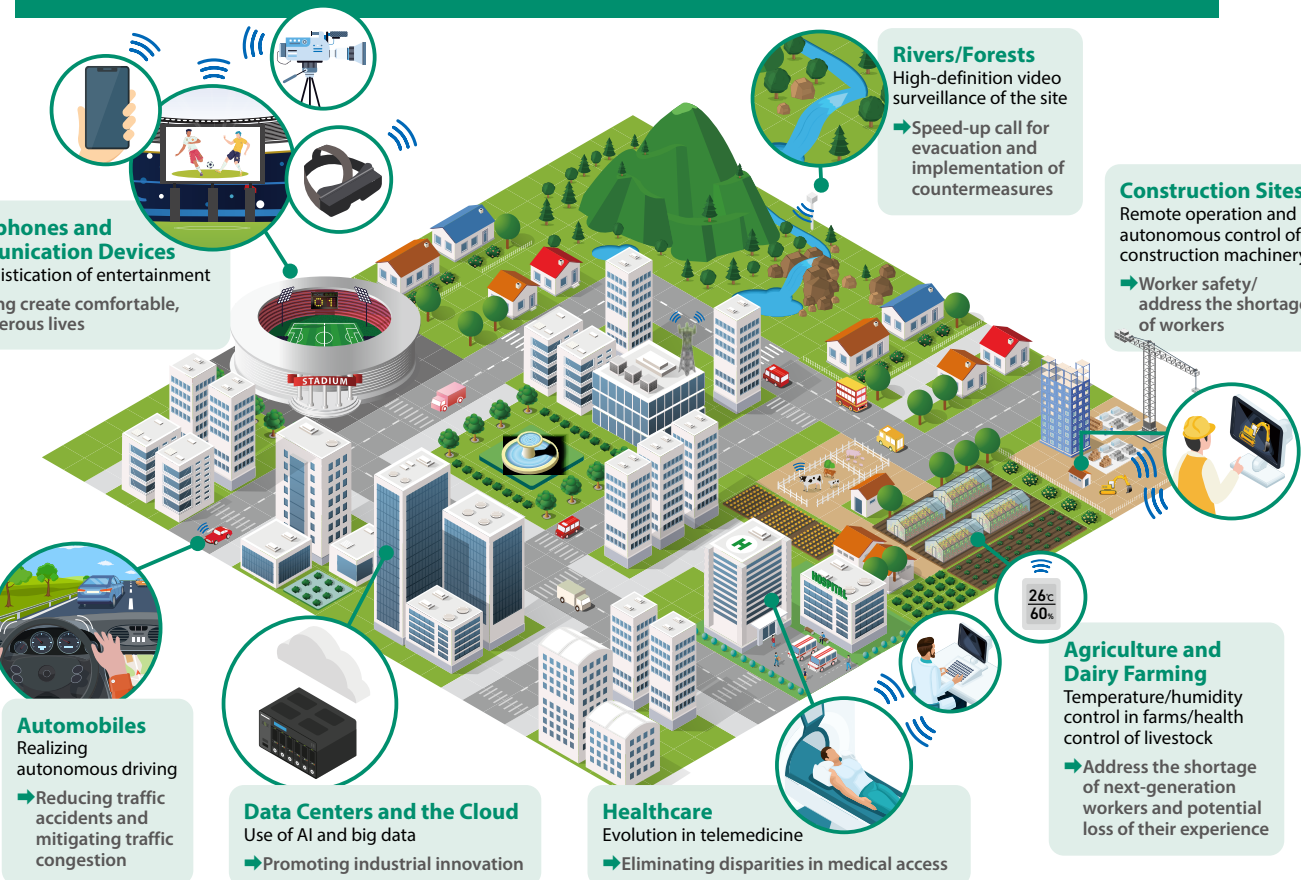
Smartphones and Communication Devices
VR/Sophistication of entertainment
→ Helping create comfortable, prosperous lives



Automobiles
Realizing autonomous driving
→ Reducing traffic accidents and mitigating traffic congestion



Data Centers and the Cloud
Use of AI and big data
→ Promoting industrial innovation



PQA Business

The PQA Business provides solutions for automating the quality inspection process on production lines of the food and pharmaceutical industries. Representative Anritsu initiatives (presented below) address social issues faced by the food industry and account for over 80% of our PQA business.



Social Issues and Customer Needs

Stable supply of safe and secure foods

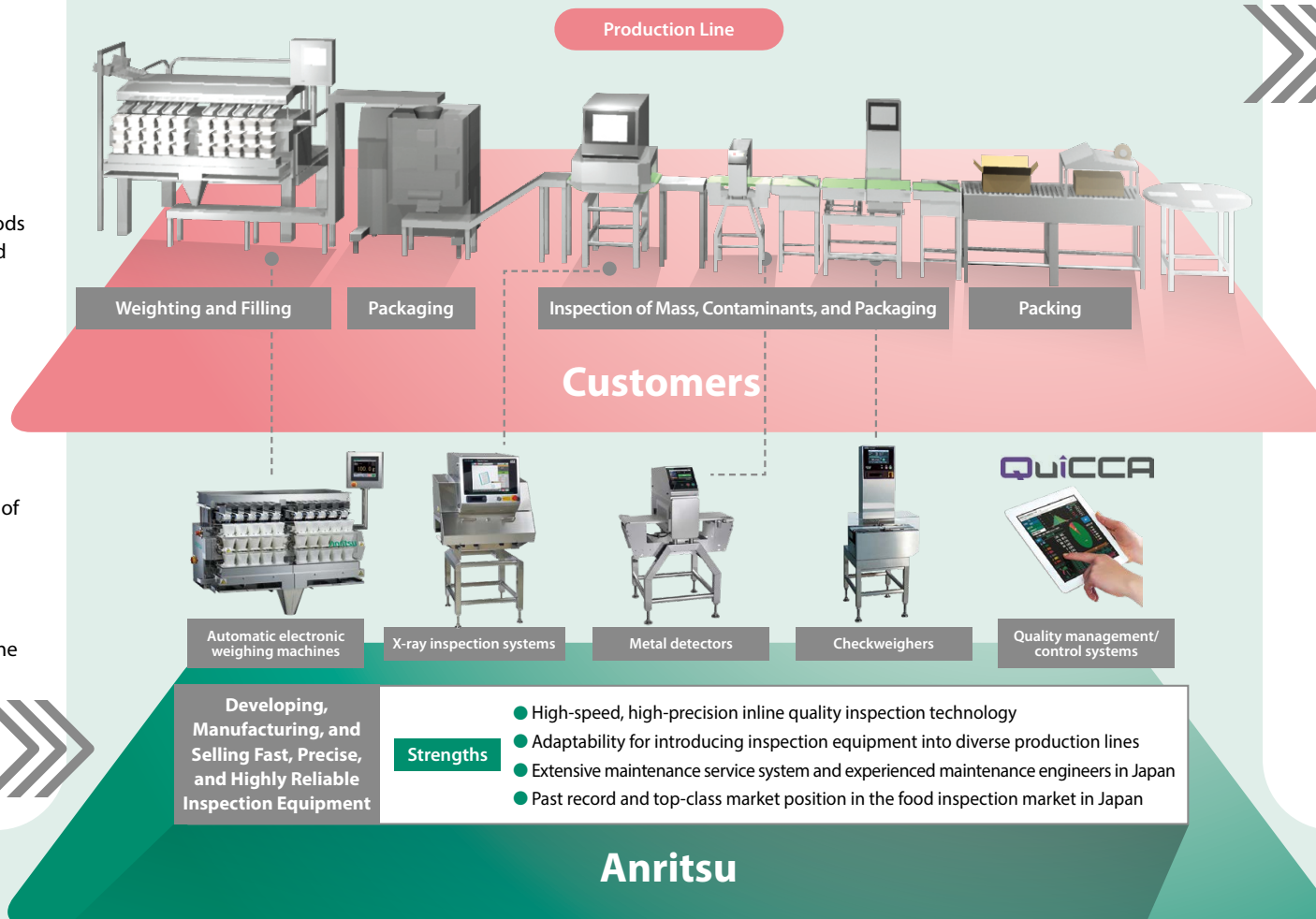
Social Issues

- Stable supply of healthy, tasty foods
- Assurance of safe and secure food quality
- Reducing food loss
- Alleviating labor shortages

Customer Needs and Interests

- High-speed, high-precision inspection
- Excellence in sanitation and ease of cleaning
- Easy maintenance
- Automated production lines and remote monitoring
- Improved productivity through the use of data
- Securing Traceability

Realizing the Automation of Quality Inspection Process with Anritsu's Quality Assurance Solutions



Future Society

Increasing the sophistication of quality assurance for food to achieve:

- A safe and secure society
- A sustainable society with little food loss





SDGs in the PQA Business

Every year, 1.3 billion tonnes of food are lost around the world. Reducing this loss has become a key challenge for realizing a sustainable society. While the principal causes of food loss are leftovers and reaching the expiration date, some of the loss can be avoided by improving the quality of production. The PQA Business is focusing its quality assurance solutions on achieving Target 12.3 of the SDGs: By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses.



Q: Please explain about food loss, which has become a social concern.

A: "Food loss" refers to food that has been thrown away even though it was still edible. Before ingredients such as vegetables and meats are processed in factories and consumed at home, a huge volume of food is discarded as waste. This has become a major social issue. Target 12.3 of the SDGs calls for cutting food loss in half. The international community is working together to achieve this target.



Q: Please tell us about Anritsu's Food Loss Reduction Solutions of the future?

A: When processed food is found to be defective products after having been shipped from the factory and distributed in the market, a large volume of food must be recalled and discarded. Anritsu helps to reduce food loss by providing inspection equipment to food manufacturers to prevent the shipment of defective products to the market.



Q: The ideal solution is to prevent the production of any defective products. Do you have any solutions for reducing food loss in the manufacturing process?

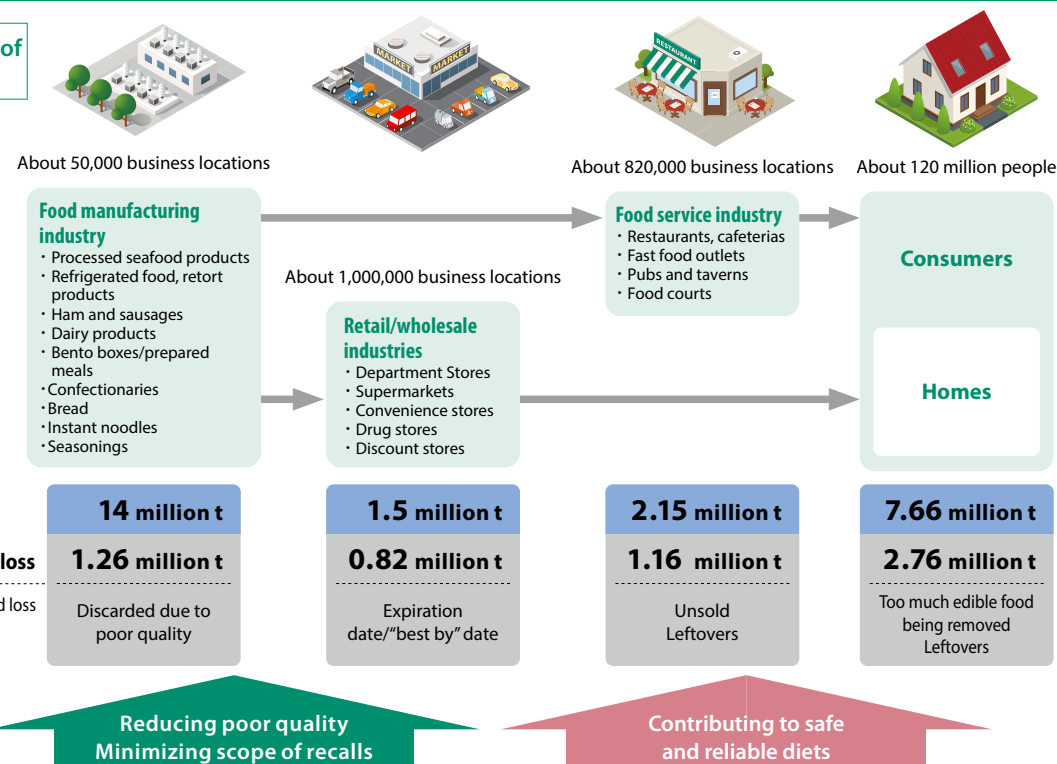
A: Anritsu's quality assurance solutions encompass the entire manufacturing process. For example, we can prevent the production of defective products by removing defective raw materials. We can also discover and discontinue the production of defective products by monitoring quality data. Reducing food loss leads to an increase in customer profits.



That makes sense. Now we understand how Anritsu's quality assurance solutions contribute to safe production of food while minimizing or eliminating loss.

Amount of food loss generated at each food distribution stage

The example of Japan



Anritsu's Quality Assurance Solutions

Note: "Food waste" refers to foods that are still edible as well as parts of foods such as the bones of meats and fish that are separated out in the course of food processing and are not edible. "Food loss" means foods that are still edible but have been discarded. The food waste and food loss figures are estimates in FY2018 and were published by the Ministry of Agriculture, Forestry and Fisheries of Japan.

Environmental Measurement Business

Anritsu plays an important role in realizing a safe, secure, and comfortable society with its customers by providing highly reliable solutions to improve communications quality and video surveillance solutions while leveraging its advanced technology. We also support the introduction and operation of local 5G and its dissemination to advance the transformation of the new digital society.

P.71 TOPIC Contributing to the Popularization of Local 5G



Social Issues and Customer Needs

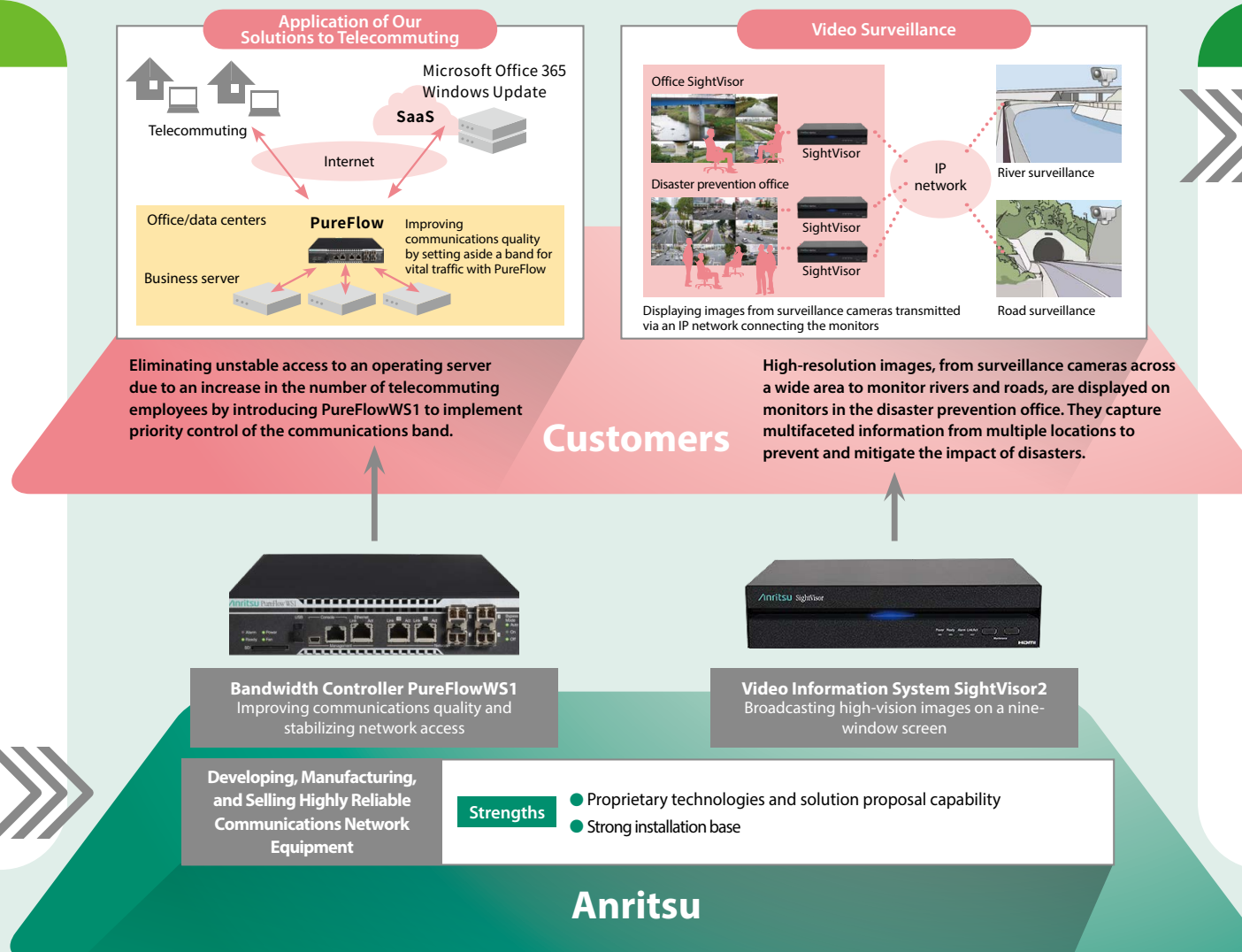
Anticipating the next social transformation through digital innovation.

Social Issues

- Dramatic rise in traffic due to increased telecommuting and online education
- Increase in natural disasters such as torrential rains and earthquakes

Customer Needs and Interests

- Easily dealing with communication failures in a company (late transmission, disconnection)
- Accurately grasping the state of a monitoring site with visual images in real time



Sensing and Devices Business

Anritsu contributes to realizing a safe, secure, and comfortable society by improving convenience in our lives together with customers through the provision of optical devices that constitute core components of industrial products and Ultrafast electron devices across the world.



Social Issues and Customer Needs

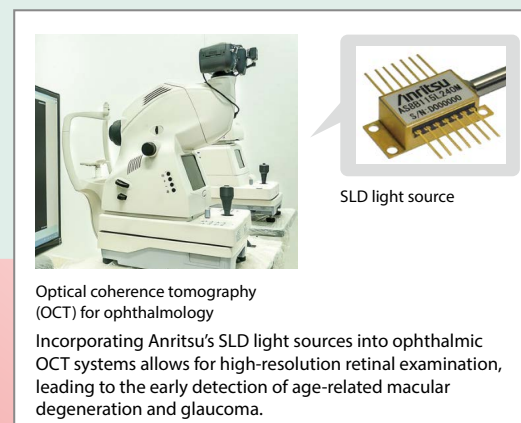
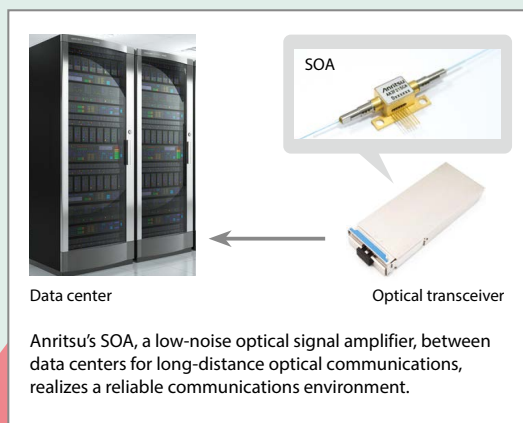
Anticipating the next social transformation through digital transformation

Social Issues

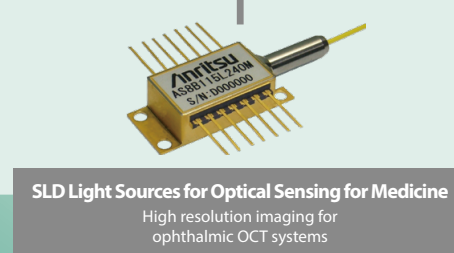
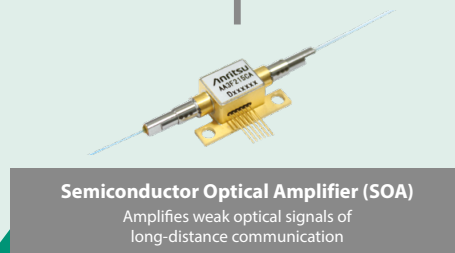
- Building a robust communications infrastructure that handles increased data traffic
- Increased number of patients with eye diseases due to the aging population

Customer Needs and Interests

- Secured quality of optical signals transmitted through optical fiber that constitutes part of the communications infrastructure
- Development of a high-resolution retinal examination device



Customers



Developing, Manufacturing, and Selling High-performance, Highly Reliable Devices

Strengths

- Advanced device technologies, many with compound semiconductors
- Realizing flexible responses and high product quality through integrated processes

Anritsu

Future Society

Helping to resolve social issues through digital transformation and high-speed, high-capacity communications



Realizing a society in which people of all generations can enjoy healthy lives due to medical advances

