

1 Digital Terrestrial Television Broadcast Testing in Mozambique

Japan's Ministry of Internal Affairs and Communications (MIC) conducted a research and investigation aiming to encourage adoption of a digital terrestrial broadcasting system in southern Africa. The Company was entrusted with a part of it and implemented a demonstration testing of the digital terrestrial broadcast in the Republic of Mozambique in March 2013.

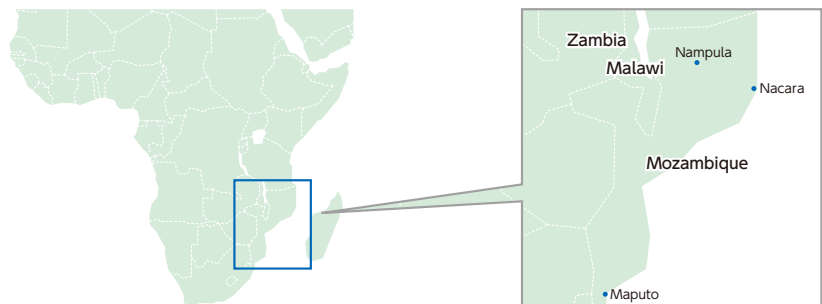
Considering the penetration of mobile telephone equipment, we designed the testing with number of One Seg mobile TV receivers. By focusing on the conditions of the region likewise, we were confident in explaining the advantage of the system adopted by Japan.

Along with the planning of the demonstration testing, our Koganei Works had a visit in honor of the Minister for Transport and Communications (MTC) of Mozambique during his business trip schedule in Japan. The Minister, staff of MTC and several other official guests had a factory viewing tour, attended our presentation on the Company's business activities and expressed their gratitude and impression.

Through these occasions, we could fortunately learned a lot about the region, including the sizable development projects along the Nacara Corridor,* their expectation on the contribution of Hitachi Group, and so forth.

Leveraged by the strength of our Group with a manufacturing company in Brazil, it will keep developing a positive global business.

*Nacara Corridor: A transportation channel leading from Nacala port in northeastern Mozambique through Nampula and Malawi to Zambia. Ports and bridges are being developed to promote the physical distribution of agricultural produce and other goods.



At our Koganei Works, in front of broadcasting transmitters waiting to be shipped to Mozambique (from the far left)
 Mr. F. Albrinho, Director for International Relations and Cooperation, MTC
 Mr. A. Muchanga, Director General, Instituto Nacional de Telecomunicacoes de Mocambique
 H. E. Mr. P. F. Zucula, Minister for Transport and Communications
 H. E. Mr. B. J. Malate, Mozambique Ambassador to Japan
 Mr. A. A. Siteo, Director for Studies and Projects, MTC
 Our President
 Mr. M. Kondo, Director, International Economic Affairs Division, MIC
N.B. Titles and positions are those as of the time the picture was taken in February, 2013.

Voice

For the broadcast testing we implemented with Hitachi Kokusai in March this year, TV receivers were placed at the airport and other major facilities in Maputo, the capital city, and demonstrated the advantage of the Japanese digital terrestrial broadcasting system publicly to the people in Mozambique. The seminar was attended by about a hundred guests concerned, quite successfully. I appreciate your diligent preparation, in spite of an unpredictable circumstance in Africa.

Mr. Tatsuhiro Hisatsune
 Director for Digital Broadcasting Technology, MIC

Voice

Mozambique sometimes has disasters by a heavy rainfall. If the adoption of digital terrestrial TV in Japan's system helps prevent damages for that, it would be worth evaluating.

Mr. Keiji Hamada
 Counsellor, Embassy of Japan in Mozambique

Voice

The entire program Hitachi Kokusai Electric has planned and carried out, including the preparation and the seminar session, showed the best performance comparing to that we had experienced in any preceding country. I'm sure it left a favorable impression in Mozambique.

Mr. Takuya Nakagawa
 Deputy Director, International Economic Affairs Division, MIC

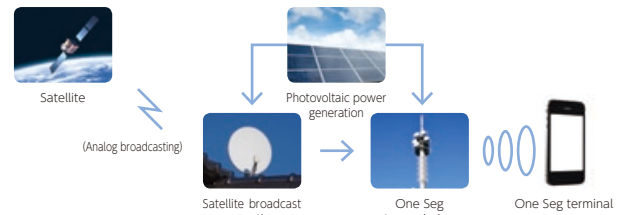
N.B. The titles and positions are those as of the date we received the messages in May, 2013.

2 Efforts for Demonstrative Experiments for One Seg Broadcasting and Disaster Prevention Systems in Indonesia

Hitachi High-Technologies Corporation has been proceeding with social infrastructural projects such as disaster prevention systems based on One Seg broadcasting in Indonesia, in collaboration with other members of the Hitachi Group.

As part of these projects, we offered a photovoltaic One Seg transmitter on one isolated island for an "investigation to eliminate the digital divide" in fiscal 2011, and provided monitor cameras in the suburbs of Jakarta for the "experimental project for disaster prevention utilizing ICT." In fiscal 2012, we also participated in an "investigation of the effectiveness of transmitting information to inhabitants of depopulated areas" by using One Seg broadcasting on two isolated islands in Indonesia. We will collaborate with other members of the Hitachi Group in developing business that meets the needs of the community, and work to continue reaching demand for products that take advantage of our strengths and step up our service solution business.

How One Seg broadcasting works



How monitor camera images are conveyed



3 Cooperating with the Kingdom of Bhutan in Maintaining its Broadcasting Infrastructure

Located between China and India, the Kingdom of Bhutan is a country familiar to us given the recent visit to Japan by the King and Queen of Bhutan in 2011, and knowing that it has established an indicator called "Gross National Happiness."

The Japan International Cooperation Agency (JICA) has been giving assistance in Bhutan, resulting in the gradual spread of TV broadcasting since around 2005. There is also growing demand for the dissemination of information, for such reasons as the shift to a parliamentary democracy in 2008, the royal marriage in 2011, and holding of various sporting events. The year 2012 saw an expansion from one channel—previously the only channel—to two channels, which resulted in higher demand for the development and improvement of broadcasting equipment.

For the FPU* that transmits broadcast waves, a total of five of our systems were used and taken good care of in all scenes. Then we recently undertook the inspection, repair, and development of system operating environments. In February 2013, several engineers of our Group, who are familiar with video and communication systems, conducted a careful on-site investigation and maintenance.

We then realized the great interest in Bhutan regarding the fair dissemination of information, and the prompt and accurate transmission of news to its citizens, and consequently recognized the important roles of development of broadcasting infrastructure here, and the gravity of society's expectations.

*FPU:Field Pick-up Unit, Broadcasting Video Transmitter(Microwave Link)



Upon the completion of work, in front of Bhutan Broadcasting Service (from the far left):
 Hiroyuki Takei, Senior Manager, Broadcast Equipment Engineering Department, Video & Communication Systems Division
 Mr. Thinley Dorji, Managing Director, Bhutan Broadcasting Service
 Kodai Hisanaga, Quality Assurance Center, Video & Communication Systems Division
 Akinori Nishikawa, Production Center, Video & Communication Systems Division

Voice

Although a small country in the size of Kyushu with a population of about 700,000, Bhutan is a unique country modernizing itself while protecting its traditional culture. TV broadcasting in this country only began in 1999, but plays a very important role. Bhutan Broadcasting Service (BBS), the country's only station, currently disseminates information to the entire nation through TV and radio, with each having two channels.

Live broadcasting became possible in 2005, with technical

assistance provided by JICA. Such live broadcasting utilizes Hitachi's FPU and cameras. Video images of the royal wedding ceremony in 2011 were broadcast live to the entire world through BBS. I hope that Japanese technology will help improve Bhutan's broadcasting culture and further deepen the friendship between both countries.

Mr. Shinya Hirano

JICA Senior Volunteer, Engineering Department, Bhutan Broadcasting Service



4 The Sixth Consecutive SCQI Award Granted by Intel Corporation

At "Intel Supplier Day 2012" held in San Jose, California on April 9, 2013, Intel Corporation granted us its Supplier Continuous Quality Improvement (SCQI) award, the highest award for excellence. This marked our sixth consecutive award, and the ninth overall that we have received.

SCQI awards are granted to companies that achieve a score of at least 95 percent for each of the goals set for cost, quality, supply structure, technology, and environmental/social/corporate governance programs. In addition, 90% or more of the supplier's strict improvement plan must also be achieved.

At the awards ceremony, a trophy was presented to our president from Mr. Bob Bruck, Vice President and General Manager of Intel Corporation's Technology, Manufacture and Engineering Division, in appreciation of our Company's technology development, economical efficiency, and reduced lead time for supporting Intel's development of cutting-edge technology.

The president of our Company expressed his delight and proudly commented: "It is a great honor to have been granted this honorable SCQI award from Intel for six consecutive years, and I am confident that our company has managed to play an

important role in supporting Intel." Thus, all our staff members concerned reaffirmed their determination to continue improvement activities this year.



Personnel concerned of Intel Corporation and our Company
Photo courtesy of Mr. Dan Agulian



"2012 SCQI award" trophy

5 Australian Open Tennis Broadcast Live with Our 62 Broadcasting Cameras

Our broadcasting cameras were active at the "Australian Open," a major international tennis event in January 2013.

Fifty-five sets of the Broadcasting HD Camera Systems and seven Slow Motion Cameras were used to broadcast the tennis matches live. Such live broadcasting of sporting events usually overstrains the nerves of camera personnel and forces them to feel extremely tense about taking unerring pictures of valuable moments. High expectations for product reliability and stable operation must definitely be met. Our cameras operate stably even in the severe heat of midsummer, and thus have been highly assessed by customers.

We sent one engineer to Australia to provide comprehensive technical support, and heard words of thanks from our partner.

We will continue to step up our relations with overseas partners and proceed to provide broadcasting service in general on a global scale.



Our broadcasting camera at the live tennis event

Voice

During my local support that lasted about three weeks, I received technical improvement requests regarding camera image quality, conversation sound quality, and other aspects, and managed to promptly respond in collaboration with Japanese factory engineers, and successfully met those requests without fail before the actual live broadcasting of the tennis event. I also received valuable ideas from our

customers about operability of the camera and remote control unit. We will therefore continue our development efforts so as to devise with even better products.



Akihiro Kato
Broadcast Equipment Engineering Department
Video & Communication Systems Division

6

Safety Checking of Passengers Getting On and Off the Station Platform with a Full-HD Camera Solution

Tokyu Corporation's "Shibuya Connection Project"

Our "full-HD camera featuring HD-SDeye" was introduced on the station platforms of the "Toyoko Line" and "Tokyo Metro Fukutoshin Line," which shared tracks from March 16, 2013, as a monitoring system for observing passengers getting on and off the train.

These cameras produce images having a resolution about six times higher than that of conventional analog cameras, and enable images to be clearly inspected in detail.

Monitors do not occupy a large space horizontally and are compact, so as not to pose an obstacle to people walking on the platform. Consequently, this system not only alleviates the burden on conductors in monitoring and assuring safety but also gives consideration to passenger safety.

Together with railroad operators, we will provide safety and reliability by taking advantage of this system's features.

Monitors do not occupy a large space horizontally and are compact, so as not to pose an obstacle to people walking on the platform. Consequently, this system not only alleviates the burden on conductors in monitoring and assuring safety but also gives consideration to passenger safety.



Full-HD Camera



Safety check with high-visibility monitors

Voice

Full-HD cameras enable the monitoring of car doors and passengers with a wider scope and at a higher resolution than provided by conventional analog cameras. Our customers were thus pleased to be able to open and close doors with confidence. Moreover, monitors are lined upright together to form a very compact profile, even though four units are installed. This eliminates the need

for inspectors to swing their heads over a large angle from side to side, thus not only alleviating the burden in operation but also improving inspection precision. As a result, traffic operations with even a higher degree of user safety have been ensured.

Sho Kato

Industrial/Surveillance Equipment Engineering Department
Video & Communication Systems Division



7

Radio Communication System for Disaster Prevention Administration Delivered to Muroto City in Kochi Prefecture

Located in the southeastern part of Kochi Prefecture, Muroto City is known for the nature of Cape Muroto-misaki that extends out to the Pacific Ocean and its rich fishery resources. The shores of the cape have numerous fantastically shaped rocks formed amid crustal changes, and are recognized as a geo-scientifically important natural heritage. The entire region of the city is therefore one of the "Global Geoparks" that aim at preserving heritage and achieving sustainable economic development of the region.

This region, on the other hand, is also considered a first reaching point of a tsunami depending on the epicenter of a major earthquake, such as the Nankai Earthquake that is expected to strike in the near future. It is therefore necessary to make precise preparations to ensure the safety of both regional residents and visitors.

The city recently decided to install one of our radio communication systems for disaster prevention administration, and preparatory work is now under way. We hope that this system will make it possible to transmit necessary information in an emergency at the earliest possible time, thereby managing to make a contribution to ensuring safety and security in the region to any extent.



Cape Muroto-misaki (from the official website of Muroto City)



Fishing port of Muroto City

Voice

We will install broadcasting radio equipment early in preparation for the Nankai Earthquake and other disasters, and work to use it effectively in order to ensure safety.

Mr. Katsura Yamasaki
General Manager
Disaster Prevention Measures Office
General Affairs Section, Muroto City



Voice

This region is a quasi-national park. We therefore listened attentively to the comments of the personnel concerned and remembered to ensure environmentally friendly designs and works, by using such means as choosing a natural color for the poles on which to install the speakers.

Junichi Kojima Emergency Communication
Systems Engineering Department
Video & Communication Systems Division



Kojima (right), our site manager and Hirata, from our Kochi Office (with a pole painted in a natural color)