

IMPROVING E-HEALTH ACCESS AND SERVICES

SATMED e-health platform



SES Networks

SATMED

One of the greatest benefits of a connected world is the ability for people to communicate, share knowledge, and collaborate—more easily and more effectively. When it comes to healthcare, reliable connectivity improves clinical outcomes, reduces costs, and increases the quality of care for every patient.

Remote and under-served communities often suffer from a chronic lack of quality healthcare services, caused by limited access to trained healthcare professionals, inadequate transportation infrastructure, and poor health literacy. Designed to help healthcare workers in these communities make better use of information technology (IT) to improve the standard of care, e-health and m-health applications have to overcome numerous barriers to adoption, including:

- A fragmented landscape of IT solutions, e-health, and m-health applications, with limited interoperability and availability in remote locations
- High implementation and maintenance costs that can make e-health services unaffordable
- High costs for purchasing and maintaining software and infrastructure
- Limited internet access in remote areas
- Complex UI/UX

Robust e-health solutions have the potential to significantly enhance access to healthcare in developing countries:

44%

of WHO Member States report having less than one physician per 1,000 people¹

24%

of global disease is in Africa, yet the continent only has access to 3% of the world's health workers and less than 1% of its financial resources³

<50%

of the world's population does not have access to essential health services²

5,000

people in Sub-Saharan Africa have access to approximately one doctor on average⁴

¹ WHO/Global Health Observatory (GHO) research, September 2019

² WHO/Tokyo Newsroom, December 2017

³ UN/AfricaRenewal, December 2016

⁴ Quartz, October 2015

SIMPLIFYING E-HEALTH WITH SATMED

SATMED is an award-winning, best-in-class e-health platform. The service brings together medical care, education, and health management in one unique platform that can be accessed from anywhere—including the world's most remote regions. It provides local doctors with the ability to keep accurate medical records, consult with colleagues seamlessly, and provide better education for health professionals.

By integrating leading e-health and m-health applications—including cloud services for securely storing and sharing data—SATMED enables doctors, nurses, specialists, and healthcare institutions around the world to communicate and collaborate easily and effectively. Accessed with a single sign-on, the web-based platform includes a full range of capabilities. It offers cloud data storage, compliant with data protection regulations, teleconsultation, teleradiology, health information systems (including analytics and epidemiology), virtual consultation, e-learning, and electronic medical record systems.

Healthcare professionals can connect via a desktop computer or handheld device with a web browser and Internet connection. Remote or under-served areas that lack a reliable terrestrial internet connection can access high-quality satellite broadband connectivity provided by SES. Once connected, users can access every platform feature without the need for additional IT infrastructure.

Combining several applications into one easy-to-use platform, SATMED is tailored to the needs of the global healthcare community.



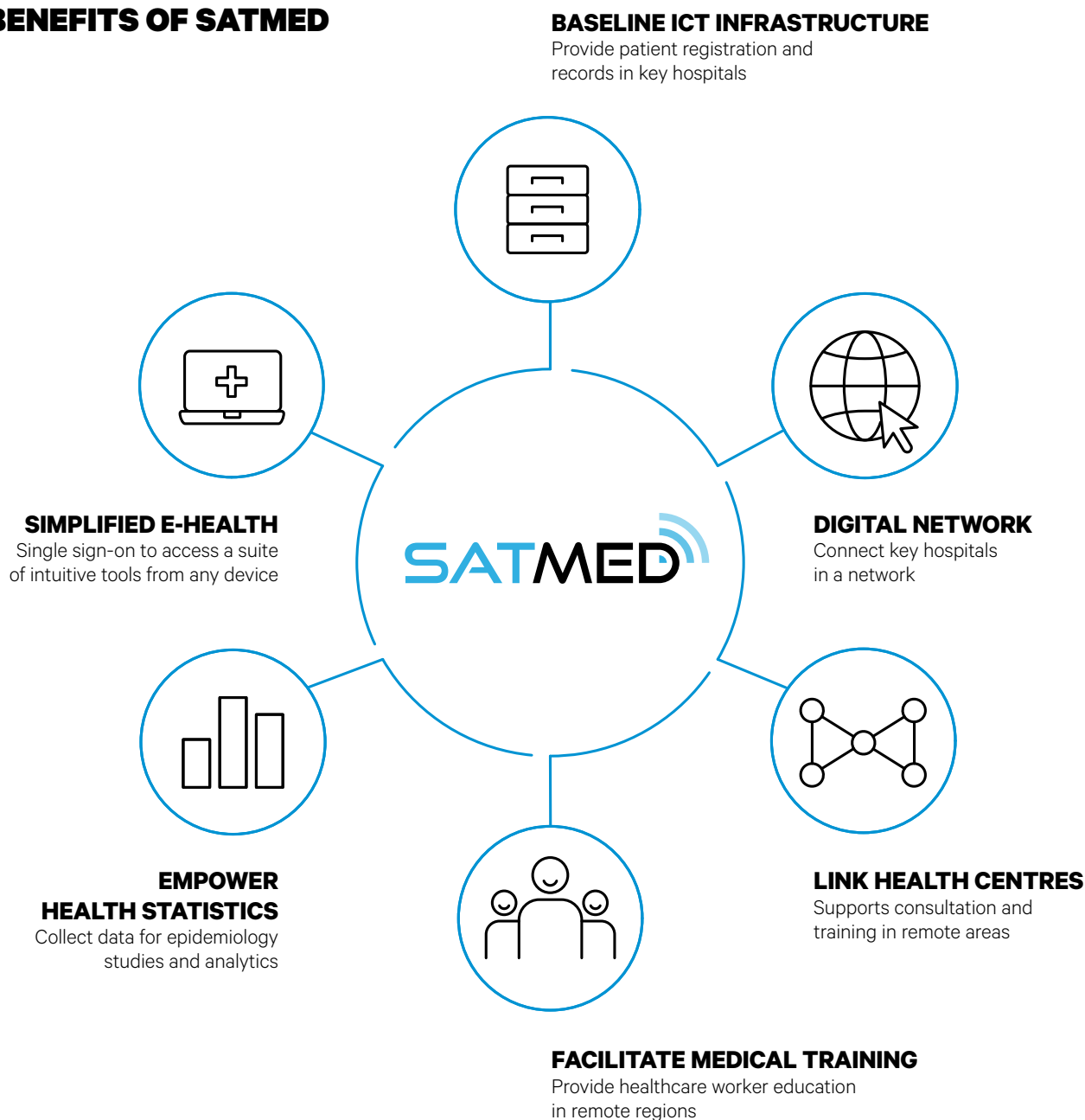
WHY SATMED?

With unprecedented reach and reliability, SATMED empowers healthcare providers to access vast medical networks, streamline day-to-day operations, manage emergency situations, and give patients better support—wherever they are. Whether they're in a busy hospital or a remote facility, the platform enables end-users to securely exchange large volumes of patient data and medical statistics, conduct first-rate healthcare worker training, and consult leading experts around the globe. Easy-to-deploy hardware connects to SES's unrivalled satellite fleet to deliver

high-quality Internet to regions difficult to reach via terrestrial Internet, while SATMED's highly intuitive interface makes it easy to onboard new users.

By facilitating easy and reliable access to a complete healthcare solution, SATMED ensures healthcare providers and their partners are able to work together to build more powerful networks, and meet the unique needs of the populations they serve.

BENEFITS OF SATMED



DEVELOPED TO SUPPORT THE NEEDS OF HEALTHCARE COMMUNITIES



- Non-governmental organisations (NGOs) providing healthcare, education, and health management services
- Government institutions supporting national and multinational development programmes and humanitarian operations
- Healthcare institutes such as medical universities, clinics, and hospitals
- Other public or private entities that benefit from the service



MULTIPLE CAPABILITIES ON A SINGLE PLATFORM

SATMED combines innovative group and user management with e-health applications that were developed by renowned medical communities with a global footprint. All platform features are accessible through a single sign-on—enhancing interoperability between the platform's tools. SATMED's modular make-up supports the integration of new applications into the platform, with respect to its open-platform principles.

Our secure cloud services ensure that highly sensitive data is stored, backed-up, and exchanged according to strict governance rules—removing the need for maintenance and operational costs. Healthcare professionals are able to access medical networks within minutes of setting up their SATMED account.

**One platform. A full suite of e-health solutions.
Anywhere in the world.**



ENSURING INTEROPERABILITY BETWEEN TOOLS

From medical care and health management to education, SATMED brings e-health services around the globe together into one easy-to-use platform.



E-health records simplify systematic collection of patients' electronic medical records (EMR)



Health information management aids collection, analysis, and exchange of health-related data



Cloud services ensure secure data storage, back-up, and sharing between users—meeting government regulations



E-imaging and teleradiology uploads and stores medical imaging with an integrated web-based PACS viewer



Group management enables admins to assign roles and privileges, and lets users create their own groups



Consultancy enables users to securely exchange patient data or medical information



E-learning integrates with Moodle tool to offer customisable online courses and virtual classrooms



User profile lets users change their password and settings, and review their user privileges



SATMED awards and library resources

- [2016, VSAT Stellar Award “Changing Lives”](#)
- [2018, Innovative Practices in Global Health, Geneva Health Forum](#)
- [2019, Engineering for Change Solutions Library](#)



TRUSTED BY HEALTH-RELATED NGOs AND MEDICAL UNIVERSITIES WORLDWIDE



EU & US-BASED MEDICAL UNIVERSITIES

Berlin, Hamburg, Essen, New York

SATMED medical university collaborators include University Medical Center Hamburg-Eppendorf, Charite Universitätsmedizin in Berlin, Essen University Hospital, and Mount Sinai Hospital. These institutions use SATMED's consultancy tool to conduct telemedicine services with clinics across the world.



GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT (GIZ)

Faranah, Guinea

The Ministry of Foreign and European Affairs signed a Memorandum of Understanding with GIZ, provisioning the extension of SATMED to the Hospital of Faranah in Guinea. The project, supported through Hospital Partnerships, Partners Strengthen Health programme (hospitalpartnerships.org), enhances e-health service accessibility for the region. SATMED also allows local doctors to exchange their expertise and access consultancy in the fields of gynecology, infectiology, and obstetrics from clinics in other parts of the world.



FONDATION FOLLEREAU

Benin

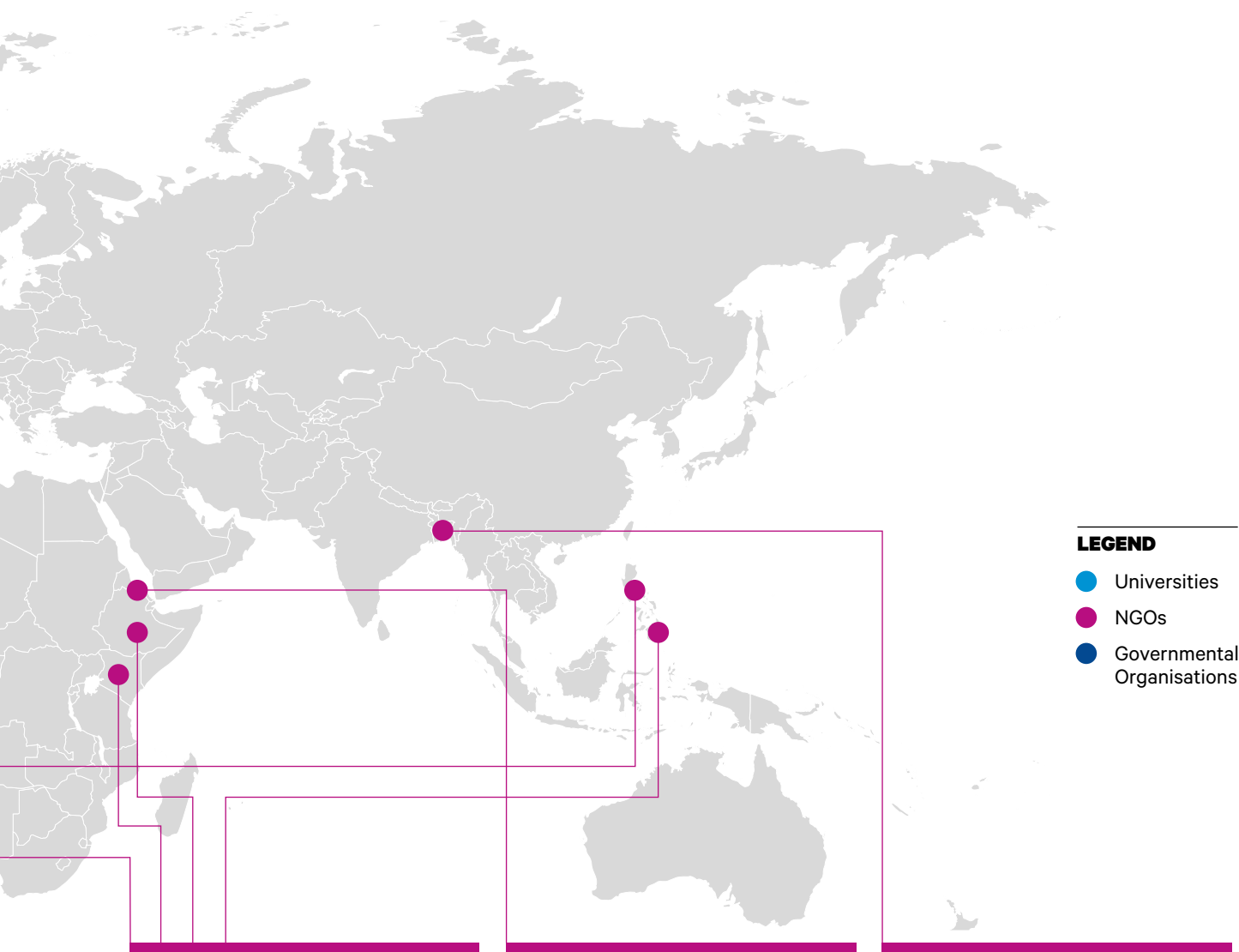
SATMED was installed in two hospitals in Benin—one district hospital in Allada, and one maternity hospital in the remote village of Ahozonoude. The platform is used for training, digital patient registration, and uploading maternity cases for discussion and review with physicians. It also provides health information management and enhanced control over the standard of healthcare in the region.



GERMAN DOCTORS

Sierra Leone, Philippines

In July 2016, a SATMED terminal was deployed in the remote hospital of Buda, on the island of Mindanao, the Philippines, to collect and organise patient data for rolling clinics, and provide prevention measures and health monitoring. In 2014, German Doctors also enabled a SATMED deployment in Sierra Leone, which provided reliable connectivity to the Serabu hospital during the Ebola outbreak.



CURE

Niger, Ethiopia, Philippines, Kenya

In April 2016, a SATMED terminal was deployed to provide reliable connectivity to CURE so it could collaborate with other pilot facilities, and access cloud-based tools at its hospital in Niamey, Niger—which focuses on orthopedic, plastic, and reconstructive surgery for children. CURE has since propagated SATMED SaaS throughout its entire network—with roll-outs in Ethiopia, Kenya, and the Philippines—using the platform to send patient reminders via SMS.



ARCHEMED

Eritrea

In October 2016, a SATMED terminal was deployed at the Orotta hospital in Asmara to implement a virtual clinic as part of the hospital's residency programme. The virtual clinic features a teaching area with structured materials and standard operating procedures, a clinical area that captures medical information for consulting and teaching, and a workforce management area that enables document sharing and organisation.



FRIENDSHIP

Bangladesh

SATMED was deployed in three hospital ships that are active in the riverside and coastal areas of the Bay of Bengal, Bangladesh. The platform is used to treat approximately 200,000 patients each year, and at a land-based hospital in Satkhira. It enables the sharing of medical records across the three ships, synchronising information with headquarters, and providing e-learning web conferencing tools to the training centre.

SATMED SOLUTION IN ACTION



JOSHUA KORN

GRANTS MANAGER,
CURE INTERNATIONAL

Delivering critical care to children in developing countries

“Having the SATMED platform helps our hospital better serve our patients and their families. It allows the CURE hospital and staff to provide life-changing surgical care to children with disabilities in one of the poorest and least developed countries in the world—many of whom have faced stigmatisation and social rejection due to their conditions. The care they receive at the CURE hospital is possible thanks to SATMED, and affords them the opportunity to attend school, find employment, and reach their full potential.”



DR. PETER SCHWIDTAL

FOUNDER, ARCHEMED—
ÄRZTE FÜR KINDER IN NOT

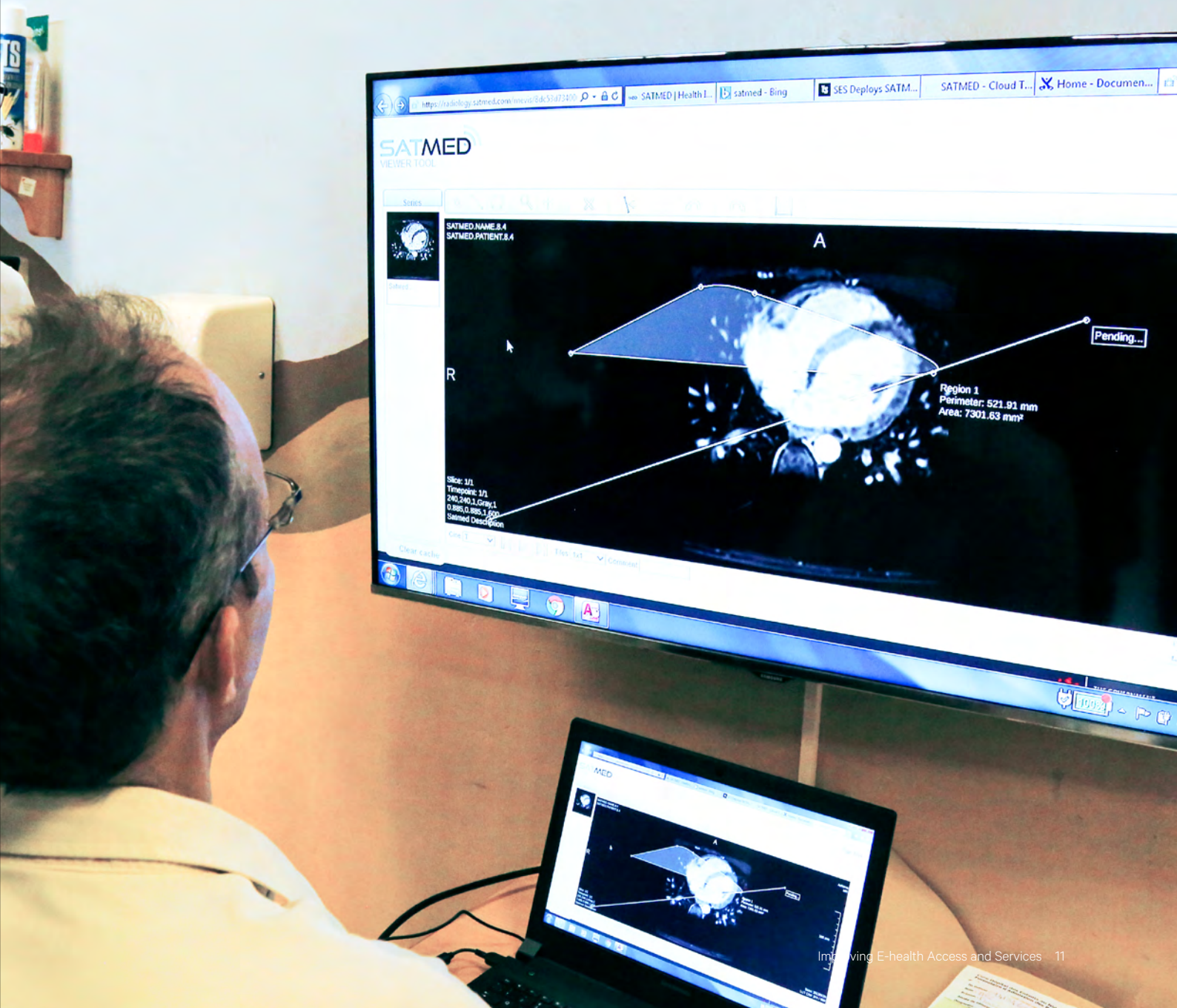
Transforming Eritrea’s healthcare infrastructure

“Archemed—Ärzte für Kinder in Not (Doctors for Children in Need) is extremely grateful to participate in SATMED. Each year, Archemed sends up to 250 doctors, nurses, and technicians to Eritrea—which has incredibly slow Internet, and a less developed medical infrastructure. SATMED has allowed us to expedite pathology report analyses, magnetic resonance image (MRI) evaluations, and the delivery of documents required for us to work with Eritrean authorities. Thanks to the platform, we’ve trained 16 Eritrean paediatricians under the guidance of German and Dutch physicians, and the University of Essen is now equipped to securely exchange blood count smears with the Children’s Hospital in Asmara. This ensures the operability of Eritrea’s first children’s oncology ward.”

As e-health and m-health solutions transform healthcare professionals' ability to extend high-quality care to more populations, services need to overcome cost, interoperability, and network reliability challenges.

SATMED's robust functionality offers a complete suite of secure, easy-to-use online tools that enable healthcare workers and their partners to collaborate with one another directly, and improve the standard of care. SES provides the reliable satellite connectivity SATMED needs via the world's only multi-orbit, multi-band fleet, ensuring

SATMED users have dedicated access—even in remote and under-served regions. As the e-health sector expands, SATMED continues to meet our healthcare partners' changing needs, ensuring they're able to maximise life-saving operations, and support the drive to improve healthcare around the globe.



To learn more, please visit
satmed.com

SES HEADQUARTERS

Château de Betzdorf
L-6815 Betzdorf
Luxembourg

Published in June 2020.
This brochure is for informational purposes only
and it does not constitute an offer by SES.

SES reserves the right to change the
information at any time, and assumes no
responsibility for any errors, omissions or
changes. All brands and product names
used may be registered trademarks and are
hereby acknowledged.

For more information about SES,
visit www.ses.com

eMC
e-Medical Communication



THE GOVERNMENT
OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of Foreign and European Affairs

Directorate for Development Cooperation
and Humanitarian Affairs

SES | Networks

SATMED 