

There is no state of conflict of interest requiring disclosure

Build, Collaborate and Disseminate Health Knowledge Networks,
based on Regional and National R&E Networks

Author: Luiz Ary Messina

GÉANT & EaP Baseline Meeting "eHealth"
COI Disclosure

**The author has no financial conflicts of interest to disclose
concerning the presentation.**

Digital Health is Building new Capacity, improves collaborative Research and remote Assistance to achieve Universal Health Coverage



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T@lemed

www.alis-telemed.net

Telemedicine for rural and remote zones Optimizing healthcare resources using platforms of e-health Experiences with bad infrastructures in Latin-America

Subproject I

Telemedicine for the diagnosis and treatment of **malaria** in underserved regions

Target country: Colombia

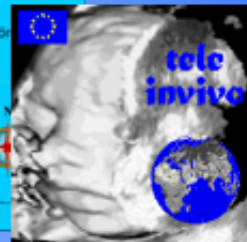
Subproject II

Tele-imaging services for rural hospitals for **ultrasound examinations**

Target country: Brazil



TOP CARE





ALICE

America Latina Interconectada Con Europa



DANTE



RNP
REDE NACIONAL DE ENSINO E PESQUISA



EUROPEAID
CO-OPERATION OFFICE

RED **CLARA**

Clara

Cooperação Latino-Americana de Redes Avançadas
Cooperación Latino-Americana de Redes Avanzadas



T@lemed



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

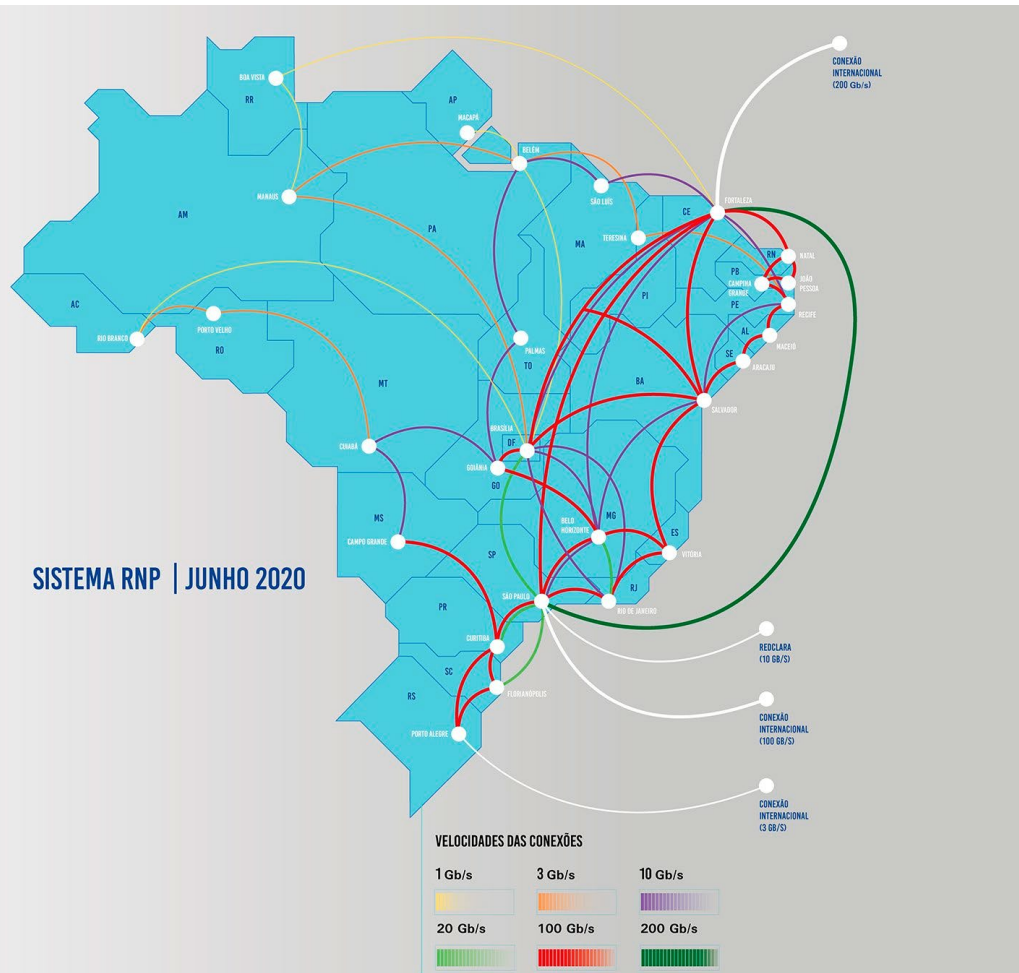
11 SUSTAINABLE CITIES AND COMMUNITIES

17 PARTNERSHIPS FOR THE GOALS



ORGANIZAÇÃO SOCIAL DO MCTI

1. National R&E Backbone
2. Metropolitan Community Networks
3. User Organizations
4. Collaborative Networks
5. Network Advanced Services



782 Gb/s capacidade agregada

213 Gb/s Capacidade internacional

Via Ipê Verifique a qualidade de conexão com as instituições.

800 organizações conectadas

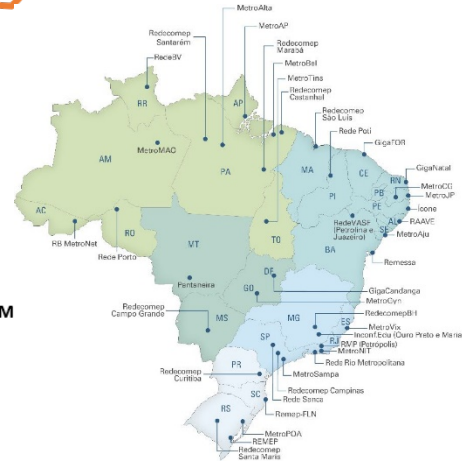
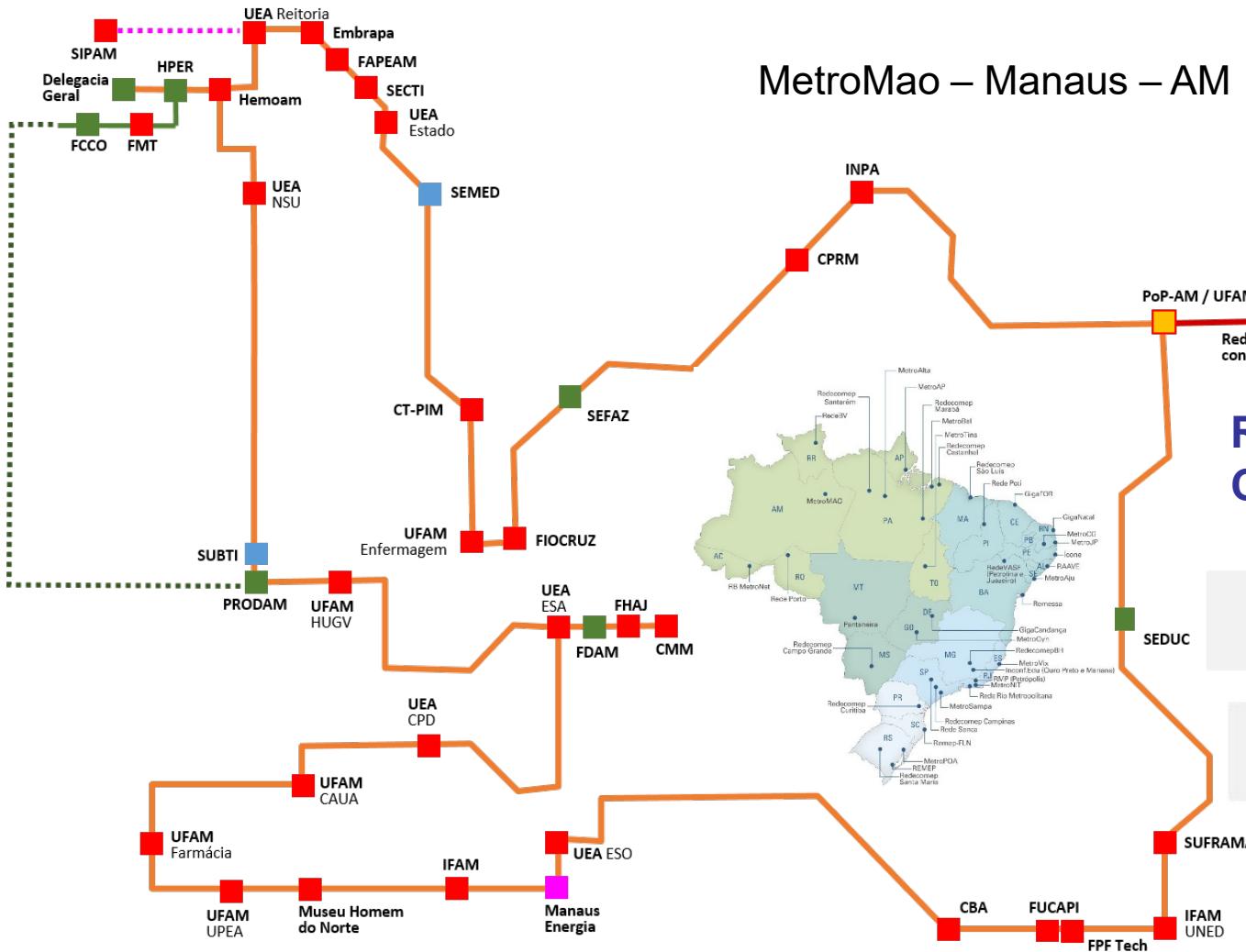
+ de 4 milhões de usuários

50 redes comunitárias

+100 GB/s de velocidade de conexão



MetroMao – Manaus – AM

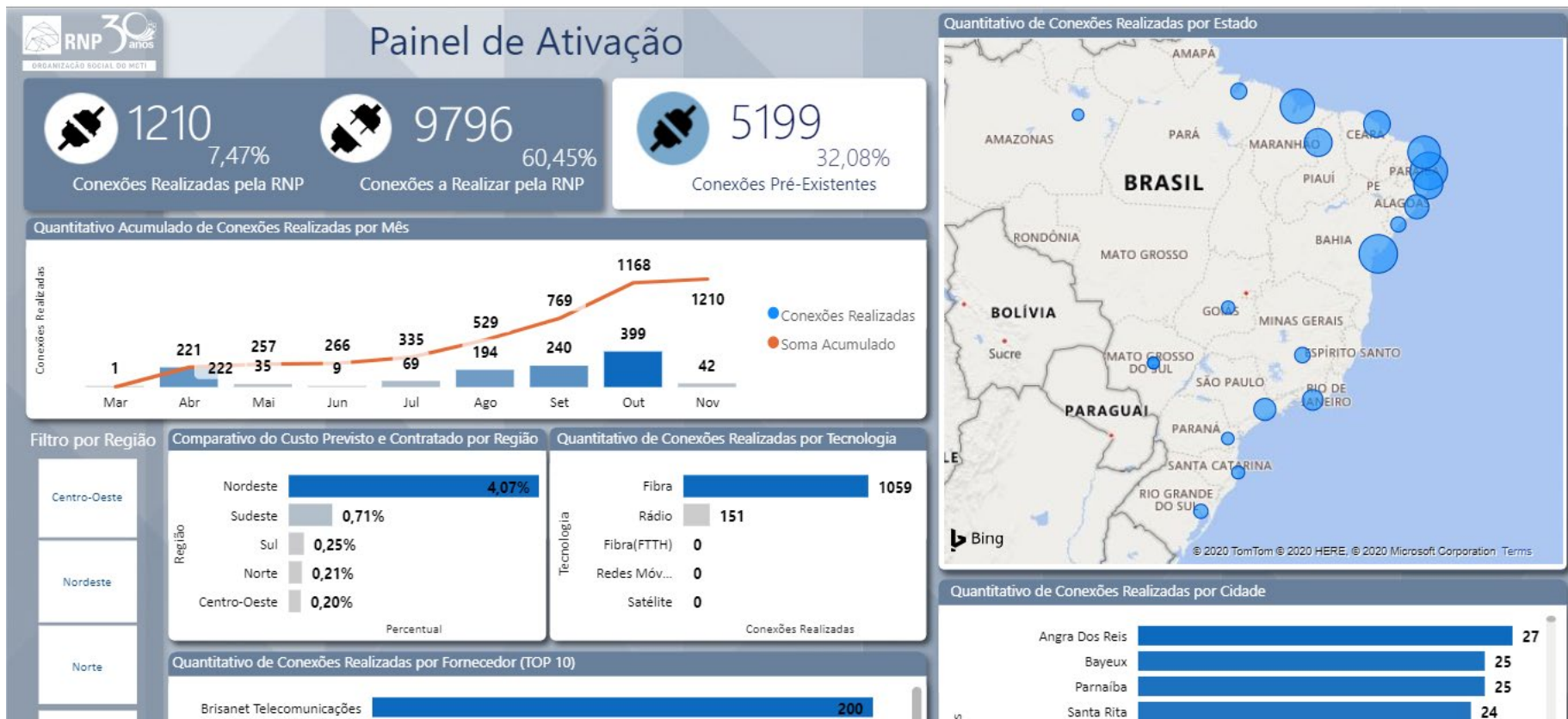


R&E Metropolitan Community Networks

39	24
redes de operação	redes em construção
3.064 km	546
extensão total	instituições participantes



RNP initiated in 2020 the coordination of a Connectivity Project (Ministry of Health and Ministry Science, Technology and Innovation) in implementation by telecommunication enterprises for 15T Health Family Units



The Brazilian National Telehealth Program



Remote Assistance



Program Telehealth Brazil Networks, 24 implanted Nuclei in 27 states, 2.367 out of 5.570 municipalities, Ministry of Health
www.telessaudebrasil.org.br

Continuous Education



The Open Health University UNASUS, over 2 million health professionals registered in courses, Ministry of Health <http://www.unasus.gov.br/>

Collaborative R & E



The Telemedicine University Network RUTE, connects 139 University and Teaching Hospitals in all states and 60 SIGs Special Interest Groups, Ministry of Science, Technology & Innovation

www.rute.rnp.br

10 R&E Telemedicine Units /year
15 years network operation

6 16:00h - 17:00h SIG Rede de Governança da Informação CONASEMS	7 08:15h - 09:45h SIG Obstetrícia Patológica 10:00h - 11:00h SIG Acidente Vascular Cerebral (AVC) 11:00h - 12:00h SIG Hanseníase 12:00h - 13:00h SIG Simulação em Saúde 15:00h - 16:00h SIG Anestesiologia	8 09:30h - 11:30h SIG Saúde Indígena 16:00h - 17:00h SIG Fonoaudiologia	9 08:00h - 12:00h Capacitação da DGAIS - SES-PE 09:00h - 10:00h SIG Reumatologia Pediátrica 11:00h - 12:00h SIG Cardiologia 12:00h - 13:00h SIG Ressuscitação Cardiopulmonar (RCP) 14:00h - 15:00h SIG Colaborativo em Educação Médica 14:00h - 16:00h SIG TeleEnfermagem 15:00h - 16:00h SIG Economia da Saúde	10 08:30h - 10:00h SIG Medicina do Sono 10:30h - 12:00h SIG Educação Permanente em Saúde Mental e Psiquiatria 11:30h - 13:00h SIG Terapia Ocupacional em Contextos Hospitalares e Cuidados Paliativos	11
13 12:00h - 13:00h SIG Endocrinologia Pediátrica	14 13:00h - 14:00h SIG Oncopediatria 17:00h - 18:00h SIG Doenças Neuromusculares	15 09:00h - 10:30h SIG Farmacologia e Terapêutica 12:00h - 13:00h SIG Oftalmo 12:00h - 13:00h SIG Queimaduras	16 08:00h - 12:00h Capacitação da DGAIS - SES-PE 11:00h - 12:00h SIG Perinatologia 13:00h - 14:00h SIG Medicina Tropical	17 09:00h - 10:00h SIG Telecoloproctologia 10:30h - 12:00h SIG Educação Permanente em Saúde Mental e Psiquiatria	18
20 12:00h - 13:00h SIG TeleRedeBLH - Tele Rede de Bancos de Leite Humano	21 12:30h - 14:00h SIG Pneumologia	22 15:00h - 16:00h SIG Teleodontologia	23 11:00h - 12:00h SIG Cardiologia	24 10:00h - 12:00h SIG Técnico Operacional RUTE	25

SIG - TeleRedeBLH
Human Milk Bank
22 países ALC
CPLP/Palops ePortuguese
BRICS



SIG Child and Adolescent Health

27	28	29	30
11:00h - 11:45h SIG TeleDermato	11:00h - 12:00h SIG Sentinela	12:00h - 13:00h SIG Covid-19 Brasil http://conferenciawe	09:00h - 10:30h SIG Educação em Saúde Digital
11:00h - 12:00h SIG Colaborativo em Educação Médica	12:00h - 13:30h Reunião Científica das Ligas de Cirurgia Pediátrica	12:00h - 13:30h SIG Enfermagem Intensiva e de Alta Complexidade	10:00h - 11:00h SIG Queimaduras
12:00h - 13:00h SIG Covid-19 Brasil http://conferenciawe	15:00h - 16:00h SIG Soberania e Segurança Alimentar e Nutricional de Populações Campeãsinas,... http://https://nutri	14:00h - 15:00h SIG Obesidad	11:00h - 12:00h SIG Cardiologia
	15:00h - 17:00h SIG Paisagens, Autonomia, Segurança e Soberania Alimentar e Nutricional http://https://nutri		11:00h - 12:00h SIG Saúde de Crianças e Adolescentes
			12:00h - 13:00h SIG Covid-19
			14:00h - 15:00h SIG Articulação Soberania e Segurança Alimentar e Nutricional do Nordeste http://nutrissan.mp
			14:00h - 15:30h SIG Ciência de Dados e Inteligência Artificial em Saúde
			15:00h - 17:00h SIG Guias Alimentares na América Latina http://nutrissan.mp
			15:00h - 17:30h SIG Cirurgia Pediátrica (Cirped)

De: 30/04/20
Duração: 11:00 – 12:00 (Fuso horário sensitivo)
Título: SIG Saúde de Crianças e Adolescentes
Apresentador: Andrey Moreira Cardoso, M.D., PhD
Tema: SAÚDE DA CRIANÇA INDÍGENA
Descrição:
URL:
Tipo: Webconferência





NutriSSAN
 REDE GLOBAL DE ENSINO, PESQUISA E EXTENSÃO EM
 NUTRIÇÃO, SOBERANIA E SEGURANÇA ALIMENTAR
Global Network of Institutions of Learning, Research and Extension on Nutrition, Food Sovereignty and Security

Sovereignty, Security, Food and Nutrition

The screenshot shows a web conference interface with the following components:

- Browser:** Address bar shows <https://live-es01.mconf.rnp.br/conference/>.
- Conference Header:** (Gravando) NutriSSAN, Mudo, Teclas de atalho.
- Participants List (left):**

Papel	Nome	Mídia
Luiz Ary Mes		
Ana Lia Gonze		
Carlos Eduarde		
CleniseCapella		
Daniela Frozi		
derlange belize		
dionisia nagah		
Gladys, Chile		
- Slide (center):**

SIG OBESIDAD.ppt

Sig Obesidad

Profundizar la discusión sobre la obesidad y el sobrepeso en Latinoamérica por medio del intercambio de conocimientos y coproducción de materiales de referencia
- Video Grid (right):** Multiple small video windows showing participants.
- Chat (bottom right):**

Bate-papo

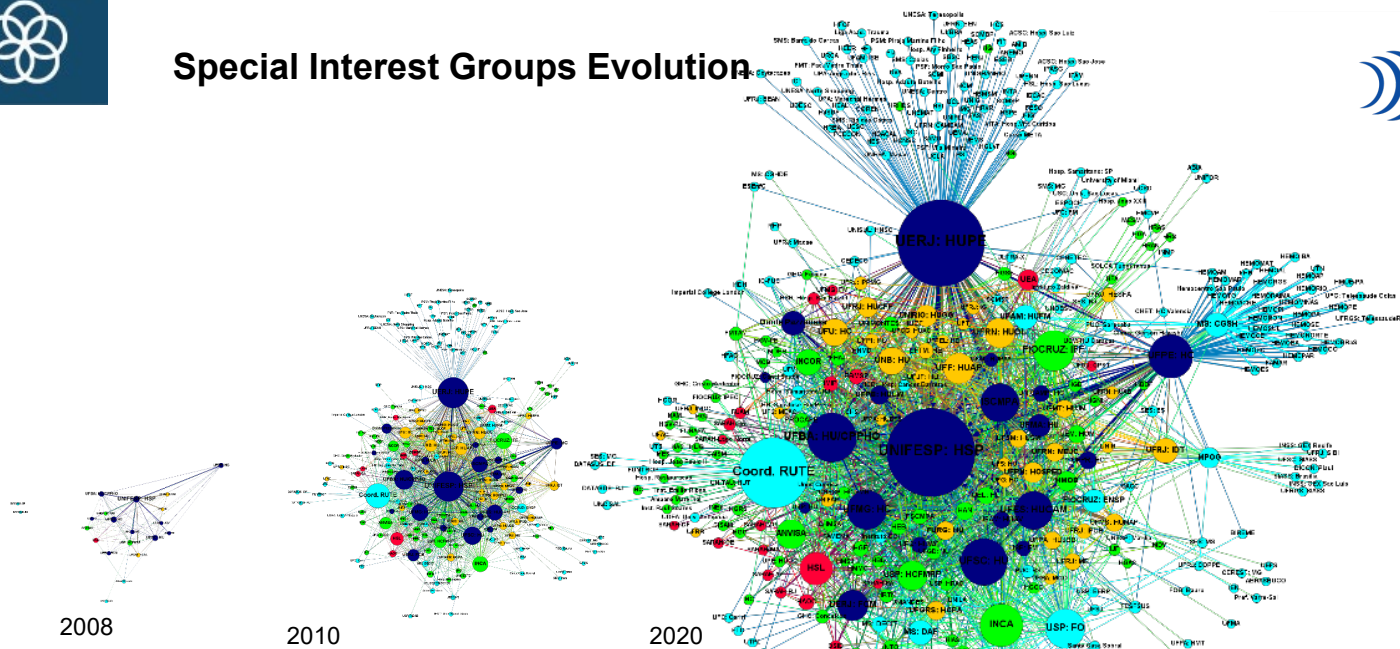
Público | Luan Meireles | Opções

 - Gladys, Chile | 12:01
 - hola no escuahamos | 12:05
 - Thabata nos escuchan? | 12:07
 - Thabata Koester Weber | 12:07
 - cortado | 12:07
 - con interferencia | 12:07

Enviar
- Footer:** Serviço de Conferência Web da RNP · conferenciaweb.rnp.br · Mconf © 2017 | [Áudio WebRTC] | Português (Brasileiro) | Webconferência



Special Interest Groups Evolution



Numbers SIG participation (since jul/2015)

Presences: **77242**

Evaluations: **25738**

Participants: **20453**

Sessions: **6721**

Imagem referente à pesquisa: BRITO, T. D. L. V.; BAPTISTA, R. S.; LOPES, P. R. L.; HADDAD, A. E.; MESSINA, L. A.; PISA, I. T. The Collaborative Coordination of Special Interest Groups on The Telemedicine University Network (RUTE) in Brazil. In: MEDINFO 2015: 15th World Congress on Health and Bio

Over 3000 health professional participants Speakers from 14 states and 14 countries



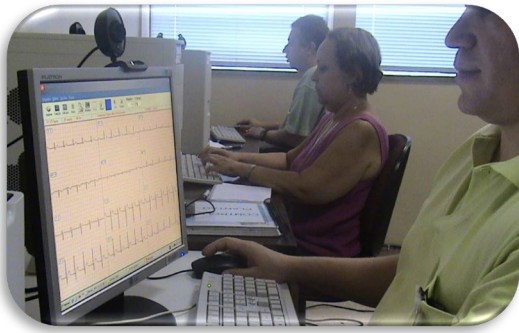
20/07/2020	Outpatient Covid-19 diagnostics in Moscow: how to flatten the curve with CT, unified RIS and AI ?	Prof. Sergey Morozov, MD, MPH, PhD, Center for Diagnostics and Telemedicine, Moscow, Russia, Past-President of the European Society of Medical Imaging Informatics - Moderação: Dr.Valdair Muglia, Scientific Director of the Brazilian Radiology Council CBR	Link
27/07/2020	1. Ancient wisdom into the modern world 2. Experience of treatment with COVID-19 in Wuhan city, China	Dr. Wei Cao is an Associate Professor and the Deputy Director in Department of Infectious Diseases (ID) in Peking Union Medical College, experience in Wuhan city, Hubei province, China. Dr. Jiang, Rongmeng (Chief Physician, Beijing Ditan Hospital for Infectious Diseases) Moderator: Dr. Zeng, Zheng (Peking University First Hospital)	Link
03/08/2020	Telesalud Indígena y la COVID19	Dr. Jose Alejandro Almaguer González (Director de Medicina tradicional y desarrollo Intercultural de la SSA - Ministério de Salud, México) e Dra. Zaira Zambelli Taveira (SESAI - Secretaria Especial de Saúde Indígena - Ministério da Saúde, Brasil) Moderação: Coordenação SIG Saúde Indígena - RUTE	Link

Telehealth in the State of Minas Gerais

Clinical Hospital - Federal University of Minas Gerais - UFMG
Minas Gerais Health State Department



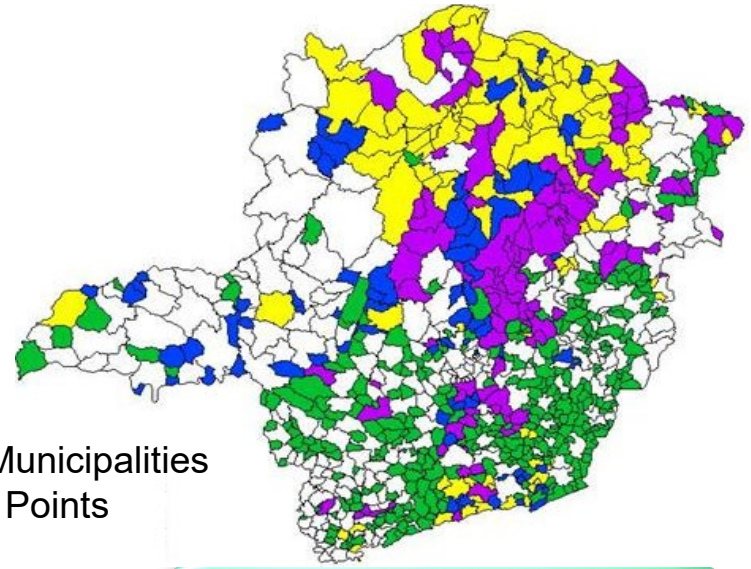
24hours/day
3200 ecg/day
1700 Teleconsult/month
(UFMG, UFU, UFTM, UFJF,
Montes Claros, UFSJ)



80% of the telepatients need no transfer to
Reference Centers

10% municipal health budget savings

Since
2005



800 Municipalities
1000 Points



More than 5 million TeleECG

UFAM Federal University of Amazonas: During the Pandemia Teleassistance and Remote Education



Cardiology, Pneumology, Rheumatology, Neuropediatrics, Neurosurgery, Estomaterapy, Nefrology



Municipalities: Benjamin Constant, Coari, Itacoatiara, e Paritins e Humaitá

ABTms and the Federal Councils of Health Professions 2020

Profession	Webinars
Physician	APM, ACM, SBC
Social Assistant	
Nursing	COFEN, ABEN, UERJ
Nutrition	
Pharmacy	CFF, USP, UFCSPA, ABNT (26/11)
Fisiotherapy	COFFITO, CREFITO, INCA, SARAHA
Fonoaudiology	CFFa, SBFa, UERJ, UFES
Odontology	CFO, IADR (27/11)
Psychology	
Occupational Therapy	COFFITO, CREFITO, INCA, SARAHA

Webinar ABTms - Telenfermagem
O Futuro da Telemedicina e Telessaúde no Pós-pandemia

23/06
18 às 19h30

Evento online

INSCRIÇÕES

ESANFERMAGEM

<https://qpro.de.telenfermagem>

Dra. Helena Leal David
Docente do Mestrado Profissional em Telessaúde - UERJ

Dra. Lilian Behring
Coord. Nacional SIG-UTE
Terapia Intensiva e Alta Complexidade
COFEN

Dra. Francisca Valda
ABEN - Nacional
Presidente

ABTms
Associação Brasileira de Telemática e Telessaúde

3/9

IBH
de Brasília

Panel ABTms
A Telefisioterapia durante e após a pandemia

A Associação Brasileira de Telemática e Telessaúde (ABTms) convoca para o **Panel ABTms** que abordará o tema: "A Telefisioterapia durante e após a pandemia", com a participação de quatro especialistas.

<https://conferenciasweb.abtms.br/webconfabrtms>

Reunião em "Estrutura de Canal" - Digite seu nome e clique em "Entrar". Para assistir, consulte o endereço local: 1907.362.321.0218 ou abra no navegador do celular.

Elieneli da Conceição Braga Valente
Coordenadora de Fisioterapia e Terapia Ocupacional (COTF) e Coordenadora Regional de Fisioterapia e Terapia Ocupacional da UFPA (COTF-UFPA)

Danielle de Mello Florentino
Coordenadora Regional de Fisioterapia e Terapia Ocupacional da UFPA (COTF-UFPA) e Coordenadora do Curso de Pós-graduação em Fisioterapia (COTF-UFPA)

Rogério Antônio Casotto
Fonoaudiólogo

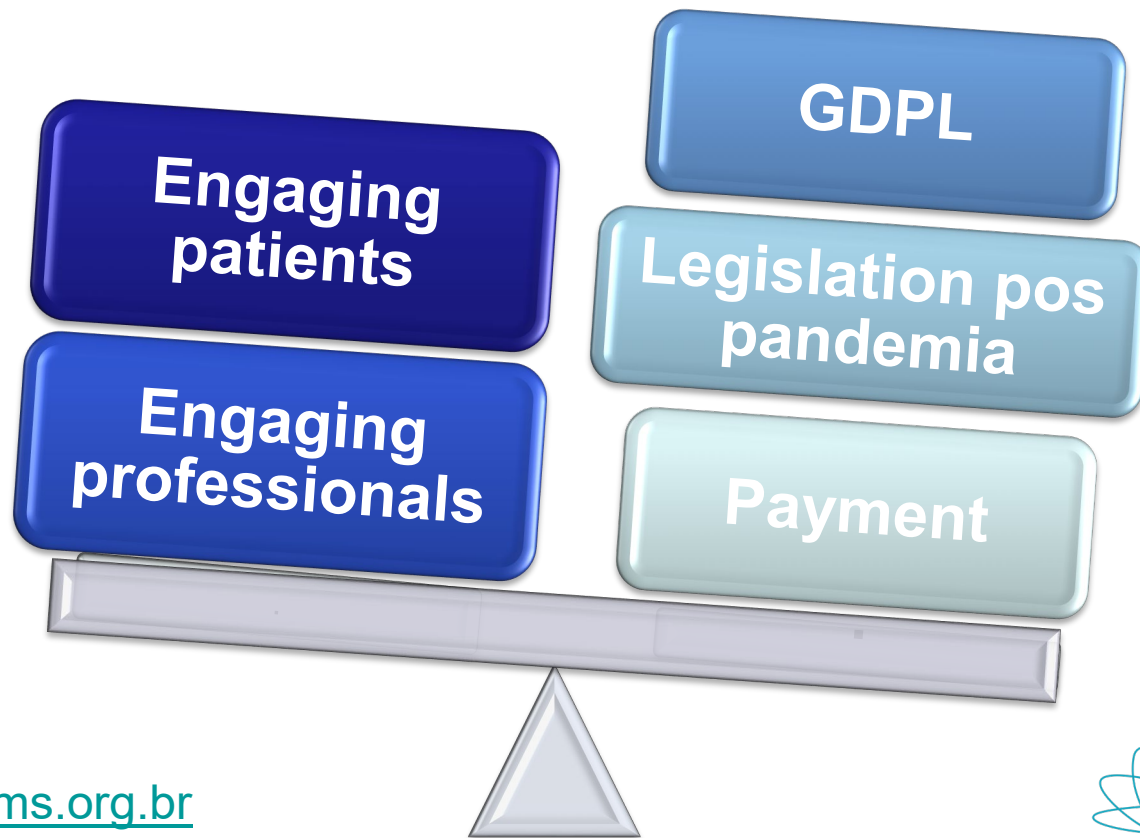
Dângelo José de Andrade Alexandre
Fonoaudiólogo

Moderação:
Lais Ary Messias
Presidente da ABTms e coordenadora nacional de Fisioterapia e Terapia Ocupacional (COTF)

Assesse também pelo QR Code

To include: Biologists, Biomedicals, Physical Educators, Veterinarians
In 2021

Today and the Future of Telemedicine and Telehealth in Brasil



www.abtms.org.br



Ao Senhor Luiz Ary Messina, presidente da ABTms.

Caro Senhor Luiz,

Tenho a honra de convidá-lo para o lançamento da Frente Parlamentar Mista da Telessaúde, que tem como objetivo ampliar o debate sobre a telessaúde no Brasil.

O evento acontecerá na quinta-feira, 26 de novembro de 2020, às 9 horas. Sua participação, em caráter de convidado especial de associação/entidade parceira da Frente, poderá tanto ser presencial, na Câmara dos Deputados, quanto via aplicativo Zoom por meio do [link https://zoom.us/j/6375524555](https://zoom.us/j/6375524555).

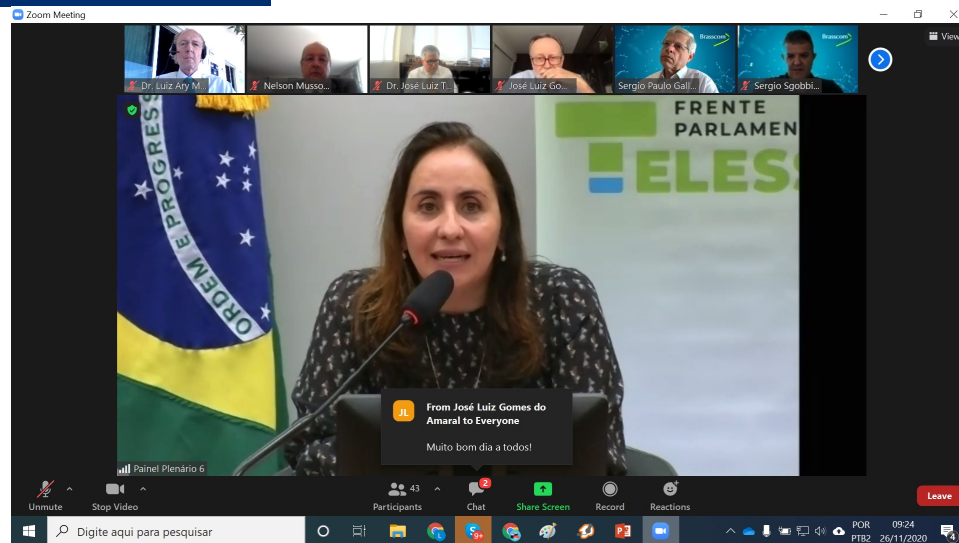
A história e atuação da ABTms certamente terá muito a acrescentar nos debates e trocas de experiências que, certamente, levarão à consolidação definitiva da telessaúde no Brasil.

Agradeço desde já pela valiosa contribuição em defesa da saúde.



Adriana Ventura - Deputada Federal
Presidente da Frente Parlamentar da Telessaúde

Data: 26 de novembro de 2020, quinta-feira
Horário: 09h
Endereço: Plenário 6, Câmara dos Deputados, Anexo II - Brasília, DF
Link para participação on-line: <https://zoom.us/j/6375524555>



<https://www.youtube.com/watch?v=rREJKse6arQ&t=3927s>

Messina (min43): Alert to the need for a National Public Policy on Telehealth, a regulatory framework that includes the following pillars: cyberinfrastructure, interoperability, human resources and governance, guaranteeing investments in telehealth in the Brazilian Public Health System SUS and permanent training of human resources, consolidating the SUS Universalization, Integrality and Equity !



World Health
Organization

DIGITAL HEALTH ROUND TABLE



YOUR THOUGHTS AND INPUTS MATTER!

Please join us for an interesting round table

When: Wednesday, 9 December 2020

Time: 2:00 - 4:30pm CET

Where: Virtual

Zoom link: please click on the Zoom link below to join us

Link: <https://who.zoom.us/j/99799950316>

Meeting ID: 997 9995 0316

Passcode: MEET#2020

To discuss 3 important topics:

- Digital Transformation
- Early warning disease surveillance
- Digital Health Network of Networks

<https://www.who.int/health-topics/digital-health>

Contact: DigitalHealth@who.int

The Latin American Endoscopy Japan and Latin America

VidyoDesktop™ - Latin@vidyo-portal.med.kyushu-u.ac.jp



Key to the success

- Medical Needs
- Training Hospital Engineers

Shuji Shimizu, MD, PhD
Telemedicine Development
Center of Asia (TEMDEC)
Kyushu University Hospital



Digital Health Building Capacity to achieve UHC Universal Health Coverage 12/04/18



M.Natenzon, L.A.Messina, vice-Ministro da Saúde da Rússia, Oleg Salagay, Victor Klassen, Saroj Mihsra

6th Meeting of the BRICS Health Ministers, New Delhi. (2016)



Telemedicine is inserted in the BRICS Agenda of the Ministers of Health



8th BRICS Summit: Goa Declaration

Goa, India, October 16, 2016

- <http://pib.nic.in/newsite/PrintRelease.aspx?relid=155596>



Reunião Técnica PECS-CPLP 2009 – 2016
 Secretariado Executivo da CPLP
 Lisboa, 29 de fevereiro a 4 de março de 2016



Telehealth Strategy to the Portuguese speaking countries

Approved

(Portugal, Brazil, Mozambique, Angola, Cape Verde, Guiné Bissau, Guiné Equatorial, East Timor, São Tomé and Príncipe)

Signed

Resolution by the **9 Ministers of Health** on Oct 26th 2017

Created the **Permanent Working Group Telemedicine of the portuguese speaking countries**



MINISTÉRIO DA DEFESA

MINISTÉRIO DA CIDADANIA

MINISTÉRIO DA SAÚDE

MINISTÉRIO DA EDUCAÇÃO

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA, INOVAÇÕES E COMUNICAÇÕES





RedCLARA is proud and prides itself on providing National Research and Education Networks (NREs) of Latin America what commercial operators can't: a high-speed network that pushes the limits of commercial network technology by offering a profitable Latin American infrastructure. The big projects of research trust RedCLARA for excellent Availability and quality of service. A high speed Internet different from the commercial one, exclusively for research and education.



MoU signed expanding RUTE-LA Sept 1st 2020
RedClara Latin American Cooperation of Advanced Networks
RNP Brasil
CUDI Mexico
RENATA Colombia
REUNA Chile
CEDIA Ecuador

TICAL2020 Y 4º ENCUENTRO LATINOAMERICANO DE E-CIENCIA SE VIRTUALIZAN

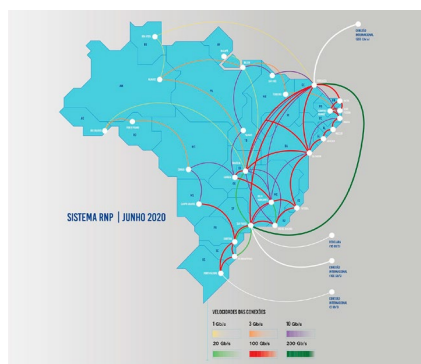
¡Nos vemos en línea! 31 Agosto - 03 Septiembre, 2020

Más información



Brazilian National Research and Education Network Promoting ICT innovation in Brazil

National Research and Education Networks contribution to the social economical impact of the Digital Transformation and the agenda 2030



Telemedicine & Telehealth
Permanent Workgroup

RUTE-AL, ReClara
RNP Brasil
CUDI México
RENATA Colômbia
REUNA Chile
CEDIA Equador

Build, Collaborate and Disseminate Health Knowledge Networks

How to construct, sustain and pave the evolution of Health Collaborative Networks supported by Regional and National Research and Education Networks