# Commercially available - 2023 Call for innovative health technologies for low-resource settings

Α.	Contact details (for the submitter and one additional contact)				
	Affiliation:				
	A1. Please complete the inform	nation of one <b>ADDITIONAL CONTACT</b> that we can reach in case the submitter is unavailable:  First name:  Last name:  Organization:  Email:			
C.	Technology details				
	Generic name for the technology	gy:			
	Country of origin:				
	Primary function:				
	Category:				
	List price (USD):				
	Year of commercialization:				
	Number of units distributed:				
	Currently marketed in which co	ountries:			
	Carronaly marketed in which ee	Afghanistan			
		Angola			
		Albania			
		Andorra			
		United Arab Emirates			
		Argentina			
		Armenia Antigua and Barbuda			
		Australia			
		Austria			
		Azerbaijan			
		Burundi			
		Belgium			
		Benin			
		Burkina Faso Bangladesh			
		Sierra Leone			
		Bahrain			
		Bahamas			
		Bosnia and Herzegovina			
		Belarus			
		Belize			
		Bolivia (Plurinational State of) Brazil			
		Barbados			
		Brunei Darussalam			

Bhutan

Botswana

Central African Republic

Canada

Switzerland

Chile

China

Côte d'Ivoire

Cameroon

Democratic Republic of the Congo

Congo

Cook Islands

Colombia

Comoros

Cabo Verde

Costa Rica

Cuba

Cyprus

Czechia

Germany

Djibouti

Dominica

Denmark

Dominican Republic

Algeria

Ecuador

Egypt

Eritrea

Spain

Estonia

Ethiopia

Finland

riillallu

Fiji

France Micronesia (Federated States of)

Gabon

United Kingdom of Great Britain and Northern Ireland

Georgia

Ghana

Guinea

Gambia

Guinea-Bissau

Equatorial Guinea

Eswatini

Grenada

Guatemala

Guyana

Honduras

Croatia

Haiti

Hungary

Indonesia

India

Ireland

Iran (Islamic Republic of)

Iraq

Iceland

Israel

Italy

Jamaica

Jordan

Japan

Kazakhstan

Kenya

Kyrgyzstan

Cambodia

Kiribati

Saint Kitts and Nevis

Republic of Korea

Kuwait

Lao People's Democratic Republic

Lebanon

Liberia

Libya

Saint Lucia

Sri Lanka

Lesotho

Lithuania

Luxembourg

Latvia

Morocco

Monaco

Republic of Moldova

Madagascar

Maldives

Mexico

Marshall Islands

North Macedonia

Mali

Malta

Myanmar

Montenegro

Mongolia

Mozambique

Mauritania

Mauritius

Malawi

Malaysia

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Namibia

Niger

Nigeria

Nicaragua

Niue

Netherlands

Norway

Nepal

Nauru

New Zealand

Oman

Pakistan

Panama

Peru

Philippines

Palau

Papua New Guinea

Poland

Democratic People's Republic of Korea

Portugal

Paraguay

Qatar

Romania

Russian Federation

Rwanda

Saudi Arabia

Sudan Senegal

Singapore

Solomon Islands

El Salvador

San Marino

Somalia

Serbia

South Sudan

Suriname Slovakia Slovenia Sweden Seychelles

Chad

Sao Tome and Principe

Syrian Arab Republic

	Togo
	Thailand
	Tajikistan
	Turkmenistan
	Timor-Leste
	Tonga
	Trinidad and Tobago
	Tunisia
	Türkiye
	Tuvalu
	United Republic of Tanzania
	Uganda
	Ukraine
	Uruguay
	United States of America
	Uzbekistan
	Saint Vincent and the Grenadines
	Venezuela (Bolivarian Republic of)
	Viet Nam
	Vanuatu
	Samoa Yemen
	South Africa
	Zambia
	Zimbabwe
Brand:	
Model:	
Short product description:	
Accessories:	
Consumables:	
Warranty duration:	
Lifetime:	
Energy requirements:	
Facility requirements:	
racility requirements.	
Contact name:	
Contact name.	
Contact email:	

	Website:
	Please add an image of the technology:
).	Public health problem or clinical condition addressed by the technology
	D1. Please provide a summary of the public health problem(s) or clinical condition(s) that the technology aims to address:
	D2. Describe the beneficiaries of the technology/target population:
	D3. Please describe the current standard of care that your technology intends to replace:
	D4. Can you provide any relevant documentation with :
	Latest WHO statistics related to the health problem Additional metrics related to the health problem (peer-reviewed studies of the burden of disease or similar)
	D5. If you have documentation on a public website, please provide URL(s):
	D6. Please provide any additional comments relevant to the sections above (Public health problem/clinical condition addressed by the technology):
	Technical specifications part 1
	E0. Do the technical specifications of this technology align with the technical specifications of any international (WHO, MSF, UNICEF) or national (MoH) organization?
	(MoH) organization?
	E1. Name and coding  EMDN name:

E2a. Clinical or other purpose:

E2b. Please provide a concise technical explanation of the technology and how it operates:

E2c. Level of use (if relevant):

Community services (Community-based services, including home-based and school-based care, as part of primary

Pre-hospital emergency services (Emergency scene and emergency transport prior to admission to a health facility) General outpatient services (Health posts, health centres, standalone general outpatient clinics, and outreach services for primary care)

First-level hospitals (Inpatient and/or outpatient services of district or general hospitals)

Second-level or third-level hospitals or specialized outpatient services (Inpatient and/or outpatient services of second-level or third-level hospitals and standalone specialized outpatient clinics)

E2d. Clinical department/ ward/ healthcare unit (if relevant):

#### E3. Technical characteristics

E3a. Key features:

E3b. Features

Displayed parameters (if relevant):

User adjustable settings (if relevant):

Alarms (if relevant):

Sound level of the alarms (db) (if relevant):

#### E4. Physical/chemical characteristics

#### E4a. Characteristics

Please list the length of the technology

Please list the width of the technology

(mm):

Please list the height of the technology

Please list the weight of the technology

(kg):

Please list the components of the technolo-

gy (if relevant):

Is the technology portable (if relevant):

Please list the main materials (raw materi-

als) used to construct the technology:

Physical space recommended for installa-

tion of device (if relevant):

E4b. Do you have any additional comments on the technical specifications section above?

- · Name and coding
- · Purpose of use
- · Technical characteristics
- · Physical/chemical characteristics

# E. Technical specifications part 2

E5. Utility require	ements (Infrastructure requirements)
E5a. Are any of the follov	ving required? Electricity Connectivity (WiFi) Water Gas
E6. Accessories	, consumables, spare parts, other components
E6a. Is sterilization need	ed for accessories (if relevant)?
E6b. Please list the cons	umables / reagents needed (if relevant):
E6c. Are any spare parts	included (if relevant)?
E6d. Are additional comp	onents needed for the correct functioning of the technology (if relevant)?
E6e. Options for alternati	ve power (if relevant):
E7. Packaging	
E7a. What is the sterility	status on delivery (if relevant)?
E7b. Please specify the s	helf life in months (if relevant):
E7c. Please specify the t	ransportation and storage requirements (if relevant):
E7d. Please attach a labe	elling example (if relevant):
E7e. Please share any pl	noto/image of packaging
E8. Documentat	ion

E8a. Do you have any of the documentation below to support the technical specifications assessment?

User manual or instructions for use (English)

User manuals (or instructions for use) in other languages

Maintenance manual (English)

Installation manual, if separate from user manual (English)

Training manual Spare parts manual

Example of certificate of calibration Example of certificate of inspection

Example of document with contact details of manufacturer,

supplier and service agent

E8b. Please list the languages available for the manuals:

Arabic

Chinese

English

French

Russian

Spanish

Other

E9. Do you have any additional comments on the technical specifications section above?

- Utility requirements (infrastructure requirements)
- · Accessories, consumables, spare parts, other components
- Packaging
- Documentation

#### F. Regulatory section part 1

#### F1. Pre-market assessment

F1a. Risk classification

EU

USA

Other

F1b. Did the technology undergo testing for verification and validation?

F1c. Did the technolgy undergo any pre-clinical studies?

F1d. Did the technolgy undergo any clinical studies?

F1e. Do you have any of the documentation below to support your pre-market assessment?

Design verification and validation (Test reports)

Pre-clinical studies (used for regulatory processes)

Clinical evaluation (used for regulatory processes)

Other reports (used for regulatory processes)

#### F2. Post-market assessment

F2a. Do you keep record of customer complaints?

F2b. Do you have a field safety corrective action plan?

F2c. Have adverse events been reported?

F2d. Did the technology undergo a recall?

F2e. Did you obtain any regulatory approval for the technology from any regulatory body/agency?

F2f. Do you have any of the documentation below to support your post-market assessment?

Distribution records

Post-market studies

On-going post-market report

Record of customer complaints

Product registration

All regulatory approvals including marketing authorizations

Other

F2g. Do you have any additional comments on the regulation section:

- · Pre-market assessment
- Post-market assessment

#### F. Regulatory section part 2

### F3. Quality Management System (QMS)

F3a In how many sites is the technology currently being manufactured?

F3b. Please provide a list of all relevant international/regional/national certifications and standards for the **manufacturing of this product** and the current period of certification:

F3c. Please provide a list of all relevant international/regional/national certifications and standards for this **product's performance** and the current period of certification:

F3d. Do you have any of the following documentation to support the QMS assessment?

Establishment registration

Establishment license

ISO 13485:2016

Compliant certification for the manufacturer

Compliant certification for the product

## F4. Security

F4a. Does the technology pose any biosecurity risk?

F4c. Does the technology pose any cybersecurity risk?

F4e. Did the technology undergo testing for Electromagnetic compatibility (EMC) (if relevant)?

F4f. Do you have any additional comments on the QMS or Security sections?

# G. Health Technology Assessment (HTA)

G1. Medical	
G1a. Please provide a summary c care:	of the best available evidence that demonstrates that the technology is at least as effective as the standard of
G1b. Please state if a clinical trial	(s) has/have been undertaken:
G1c. Please summarize which as	pects of this technology are better than the standard of care:
G1d. Please highlight the innovati	ve aspects of this technology compared to the standard of care:
G1e. Do you have any of the docu	umentation below to support the medical assessment?
	Testing reports
	Pre-clinical studies
	Clinical trial publication Clinical studies
	Other peer-reviewed evidence
	Independent performance evaluation reports
	Field studies
	Biocompatibility reports
G2. Safety	
G2a. Please provide a summary of dard of care:	of the <b>best available</b> evidence that demonstrates that the technology is as safe or safer than the current stan-
G2b. Compared to the standard o	f care, does the technology introduce any additional risk?
G2d. Please describe the process	s you are using for identifying, assessing, and controlling RISK FOR PATIENTS associated with this technology:
G2e. Please describe the process	s you are using for identifying, assessing, and controlling RISK FOR USERS associated with this technology:
G2f. Do you have any of the docu	mentation below to support the safety assessment? Safety testing reports
	Risk assessment
	ISO 14971:2019— Application of risk management to med-
	ical devices Mitigation strategy
If yes, then please upload file(s)	
If you have documentation on a p	ublic website, please provide URL(s):
G3. Economy	

G3a. Please provide a summary of the evidence that demonstrates that the technology is cost-effective?

	G3b. Could you provide an estimate for the budget impact when incorporating the technology in a new environment?
	G3c. Do you have any of the documentation below to support the financial assessment?  Cost effective analysis or similar  Pricing list
	G3d. Please provide any additional comments on the sections above:
	Medical Safety
	Economy
G.	Health Technology Assessment (HTA) part 2
	G4. Organizational
	G4a. Compared to the current standard of care, what are the operational benefits of using this technology?
	G4b. Does the introduction of the new technology and its use in place of the current comparator(s) require organizational changes?
	G4c. What are the work force requirements for using this technology?
	G4d. Is the device interoperable with other devices?
	G4e. Which compatibility standards does the technology use? (e.g., HL7, DICOM)
	G4f. Does the technology have any compatibility limitations?
	G4g. Is there are any specific training needed to use or manage the technology?
	G4h. Do you have any of the documentation or interoperability reports?
	G5. Legal
	G5a. Can the technology be introduced using the same legal framework as the standard of care?
	G5b. Does the use of the technology require new legislation or a publication of a ministerial/administrative act?

G6. Social
G6a. Compared to the current standard of care, is the technology as socially acceptable?
G6b. Compared to the standard of care is the technology as culturally acceptable?
G6c. Have you ever faced any cultural or social issues while introducing the technology in a specific context?
G6d. Please provide a summary of the qualitative studies related to end user acceptability, and other social or cultural aspects
G6e. Has the technology ever faced reluctance for its use by healthcare staff or patients?
G6f. Do you have any documentation or qualitative peer-reviewed studies to support the social assessment?
G. Ethical
G7a. Have ethical approval for this technology been obtained from any organization?
G7c. Compared to the standard of care, is the technology introducing any ethical challenge? Please consider Beauchamp and Childress's four principles. autonomy, non-maleficence, beneficence, and justice.
G7d. Do you have any documentation on ethical approval?
G8. Green environment
G8a. Compared to the standard of care, is the technology greener in any aspect?
G8b. Compared to the standard of care, is the technology more sustainable?
G8c. Are there any considerations to reduce the CO2 foot print for producing, using or disposing of this device?
G8d. Please describe how to dispose of the device:
G8e. Can the device be reused, reprocessed, remanufactured?
G8f. Can any of the materials be recycled?

G9. Please provide any additional comments that may be useful for the assessments above:

- Organizational
- Legal
- Social
- Ethical
- · Green environment

H. Health Technology Management (HTM) part	Н.	Health	Technology	Management	(HTM)	part
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# H1. Durability H1a. Did you perform any physical durability testing for this technology? H1b. Did you perform any chemical resistance testing for common disinfection solutions? H1c. Please specify the IP code or ingress protection code for the technology: H2. Ease of use H2a. Step-by-step explanation of the operation of your technology so that potential users can understand the operation level of difficulty H2b. How is this technology appropiate for low-resource settings? H2c. Has the technology been successfully implemented in low-resource setting? H2d. Do you have any of the documentation below to support the ease-of-use assessment? Video showing the operation of the technology (mandatory) Available online training Field studies Case studies Other H3. Ease of maintenance (if relevant) H3a. Does the technology require preventative maintenance? H3c. Who should provide PREVENTATIVE maintenance? H3d. Who should provide CORRECTIVE maintenance? H3e. Is there available online training for planned preventive maintenance and corrective maintenance? H3f. Does the technology include a warranty plan? H3g. Are spare parts available post-warranty?

H3h. Is there availability for software/hardware of the upgrades?

ı	H3i. Please include any additional comments on the sections above:
•	Durability Ease of use
• 1	Ease of maintenance
l. I	Health Technology Management (HTM) part 2
	H4. Environmental conditions
ı	H4a. Please specify the humidity range in which the technology operates?
ı	H4b. Please specify the temperature range in which the technology operates?
	H4c. Is the technology in any way adapted for working in extreme environments (e.g. intermittent power supply, sand-proof, for use in very humid environments, etc.)?
	H5. Affordability
	H5a. Compared to the standard of care is this technology in any way more affordable? Please explain.
ı	H5b. Please enumerate the list prices in all countries where the technology is commercialized:
	H6. Local access to technical support
ı	H6a. Is there access to local commercial teams? In which countries?
-	H6b. Which distribution channel are you using to distribute the technology globally and/or locally?
-	H6c. How do you provide training to users?
ı	H6d. How do you provide training for maintenance?
ı	H6e. Do you provide troubleshooting software or procedure, to help users diagnose and solve the malfunctioning?
ı	H6f. Are replacement components for the technology available globally and/or locally? In which countries?

H7. Ease of cleaning
H7a. Please describe how to clean and disinfect the technology:
H7b. Please list any chemicals needed for cleaning and disinfecting (if relevant):
H8. Infrastructure requirements
H8a. Are there any infrastructure requirements needed to introduce the technology (Floor type, isolation of walls, ceiling, etc.)? (Additional to the ones in the technical specification section). Describe them if any.
H9. Please include any additional comments on the sections above:
Environmental conditions Affordability Local access to technical support Ease of cleaning Infrastructure requirements
Local production and intellectual property (IP)  I1. Local production and technology transfer
I1a. In which countries is the technology currently manufactured?
I1b. Is the technology produced in the area in which it is intended to be used?
I1c. Please provide a short assessment of the feasibility of local production of the technology and list challenges and problems that you foresee. What type of infrastructure would be required?
I1d. What is your existing manufacturing approach? (completely in-house or in-house critical parts manufacturing & final assembly or only semi-knock-down kit assembly or final packaging alone or completely contract manufactured)
I2. Intellectual property and open access
I2a. Do you or your institution own <b>knowledge and/or data</b> related to this technology?
I2f. Please indicate the <b>intellectual property rights</b> covering the technology (e.g., Patents, copyright, trade secret, utility models, trademarks).

2g. Do you or your institution hold the intellectual property rights for the production and sale of the technology? f any of the intellectual property rights are owned by a third party, please indicate the name of the legal owner and the relationship with the applicant.
2h. Address of the Legal Owner of the intellectual property rights. Please provide the registered details.
2i. If applicable, please list and provide information on the relevant <b>patent(s)</b> , <b>or patent-application(s)</b> covering the device (scope, status, patent number/application number, title, countries, and expiry date).
2j. If applicable, please list and provide information on any <b>other REGISTERED intellectual property rights</b> (scope, status, expiry date and egistration number).
2k. If applicable, please list and provide information on any <b>UNREGISTERED intellectual property rights</b> (e.g., trade secret, copyright). Please ndicate the scope, status, and registration number.
2I. Does the medical device use any kind of software?
2m. Please indicate if any of the intellectual property is available as <b>open access</b> or <b>open source</b> .
2n. Are any third-party-owned intellectual property rights necessary for the production and sale of the Medical Device (e.g., patents, machinery, oftware). If applicable, please list and provide information on such rights.
2o. If applicable, please provide the name of the legal owner and the legal relationship between the applicant and the owner of such third-party owned intellectual property rights.
2p. Please indicate if there are any existing licensing agreements related to the technology. Please provide a copy of the agreement(s) or any details that you are prepared to share in confidence with WHO.
2q. Do you have any of the documentation below to support the intellectual property/open access assessment?  Intellectual property documents  Agreements
2r. Please include any additional comments on the sections above:
ocal production and technology transfer Open-access and intellectual property
3. Thank you for completing the survey, after you click "submit", you will have the option to 'Save as a PDF' for your survey responses. We recommend doing this for your reference. If you have any questions or technical difficulties please contact techinnovation@who.int (mailto:techinnovation@who.int).

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