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MOBILE HEALTH INFRASTRUCTURE TO IMPROVE PATIENT IMPACT

Praesens Care designs, builds, and scales a healthcare service delivery platform that integrates fit-for-purpose vehicles and broadservice offerings. We believe innovative technologies play an important role to create better epidemic preparedness. We build decentralized capacity, focusing on improving biosecurity management with effective tools for highly communicable diseases and global catastrophic biological events, such as pandemics or bioterrorism attacks.



"Fast detection and identification of biological agents on the spot are of great importance in response to natural, accidental or intentional biological events: it enables to implement timely efficient counter-measures for controlling the spread of the agent and mitigating its impact.

Therefore, it is crucial to bring rapidly deployable testing capacities as close as possible to the crisis area. We need to prepare our nations and communities for the next pandemic and all other global health threats."

*Benjamin Queyriaux, MD, MPH, FFPH,
former NATO Medical Advisor, Retired Colonel
of the French Forces Health Service*



A GLOBAL PRESENCE

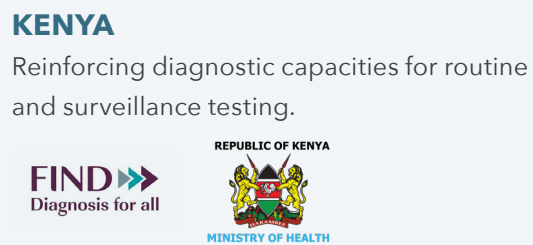
UKRAINE
Critical medical support

BELGIUM
ISO 15189 - Medical Laboratories Accreditation

SENEGAL

- A European-African partnership to reinforce healthcare systems.
- Infectious disease surveillance, deployed during COVID and Dengue outbreaks.

KENYA
Reinforcing diagnostic capacities for routine and surveillance testing.



CONTACT PRAESENS CARE

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BIONEAR®

Rapidly deployable medical mobile laboratory for better epidemic preparedness and biological threats



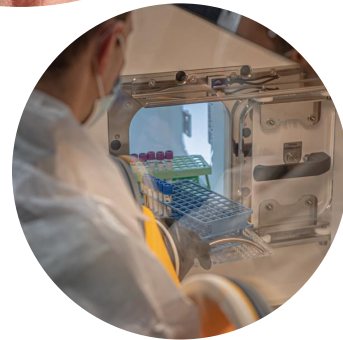
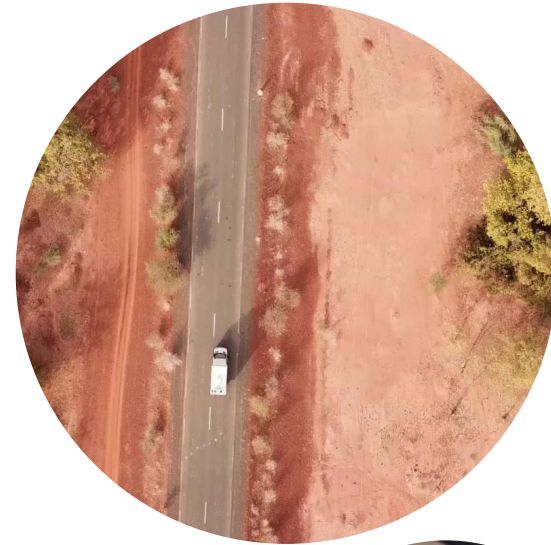
PROVIDE THE BEST HEALTHCARE SERVICES, ANYWHERE, ANYTIME TO ANYONE IN THE WORLD

Recent outbreaks and public health emergencies have exposed the importance of timely accurate diagnosis. And yet access to quality diagnostics is still scarce and inequitable. Deficiencies in infrastructure, workforce, and quality assurance pose barriers to diagnostic quality and safety.

Investing in health security capabilities (e.g., reliable, sensitive real-time disease surveillance systems; safe, secure, and strong mobile laboratories; a well-trained workforce; capable information systems) will improve the preparedness for and response to emergencies and other public health threats.

DUAL USE CAPACITY FOR BOTH CIVIL AND MILITARY APPLICATIONS

- * Epidemic response
- * One Health surveillance
- * Routine diagnostics
- * Cross-border screening
- * Intentional biological threats
- * Vaccine delivery
- * Research, training & biobanking



Open and modular platform
Assay menu based on country health assessments.



Highest quality guaranteed
ISO 15189 - Medical Laboratories accreditation with optimised Standard Operating Procedures.



Local capacity building
Comprehensive training package.



EU sovereign solution
>90% of components from European origin.



Operational excellence in servicing
(Tele)maintenance, supply chain for reagents and consumables.



BSC-III isolator with built-in H₂O₂ decontamination system

Closed under-pressured BSC-III isolator with integrated waste management and laminar downflow workstation. For handling all classes of infectious pathogens protecting both the user and the sample.



Solar Panels

Mounted on the roof and serve to complement the energy supply.



Silent generator and lithium batteries

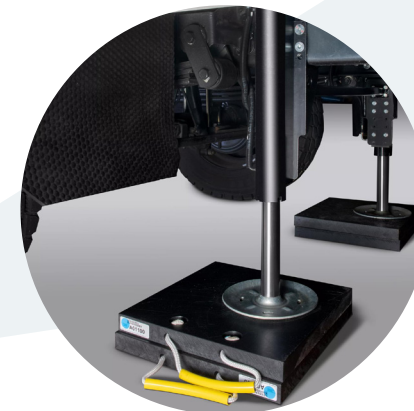
Powerful generator and state-of-the-art lithium-ion batteries on board to guarantee full operational autonomy and ensure unlimited energy supply.



Secured sample hatch

To bring infectious samples directly into the isolator.

Badge access for lab door and sample hatch, authorized personnel only.



Hydraulic Levelling System

Using a control panel located inside the cabin or with the hand-held remote control, it automatically stabilizes the lab to a completely level position in under 5 minutes. Specialized stabilization tiles allow for deployment on soft and uneven terrain.



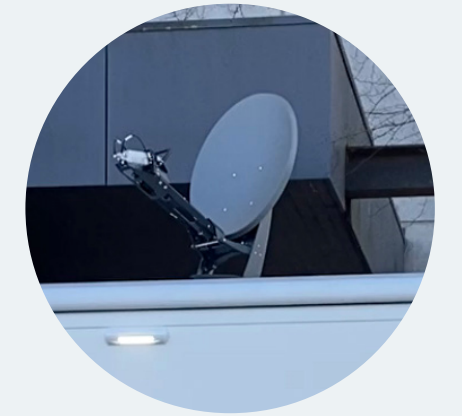
Customizable Open Platform

Flexible workspace and various diagnostic instruments ranging from clinical chemistry, hematology analyzer, serology reader as well as fully automated PCR-based molecular diagnostics and NGS-based systems for wide-spectrum detection. This ensures preparedness for a new (un)known disease such as Pathogen X. The Praesens Care assay menu covers 100% of disease areas recommended by the WHO Essential Diagnostic List 2023.



Fridge and portable freezer

Cold chain capabilities ranging from +4°C to -20°C and -80°C, allow to preserve inactivated samples, reagents and vaccines.



Telecommunication system

Permanent connectivity is enabled through both cellular and satellite communication systems.



Lab air conditioning

The lab room is kept at controlled temperature even in hot (up to 54°C) and humid environments.



Quality management system and on-board Lab Information System (LIMS)

Software and procedures compliant with ISO 15189 - Medical Laboratories Accreditation. LIMS allowing for remote validation of clinical results.