



SAAB

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The Impact of Climate Change on Healthcare

Building Resilience of Vulnerable Populations with Mobile Health Facilities

Asia Development Bank

Anders Dahl – VP Head Saab Philippines

Amany Wahba – BD Director Medical Solutions



Agenda

Time	Session
11:00 – 11:05 AM	Welcome Remarks and overview of the webinar. Mr. Anders Dahl Vice President, Head of Saab Philippines
11:05 – 11:35 AM	Building Resilience of Vulnerable Populations with Mobile Health Facilities Ms. Amany Wahba Business Development Director- Medical Solutions, Saab Australia
11:35 – 11:55 AM	Q&A Moderator: Mr. Rikard Elfving Principal Social Sector Specialist, ADB
11:55 - 12:00 PM	Closing remarks Dr. Eduardo Banzon Principal Health Specialist, ADB

Saab's global organisation



	Saab Global	Saab Australia
 People	19,000	949
 2022 Sales	\$6.1B	\$272M
Aeronautics Surveillance Dynamics Kockums		
Global Business Areas		

Protecting your way of life

Since Saab was started, we have strived to keep people and society safe. It is a basic human need to feel safe and, as we see it, a human right.

Through systems and solutions that increase security, we can make this possible.



Deployable Health

Saab Deployable Health Capability

Saab has over 30 years deployable health experience

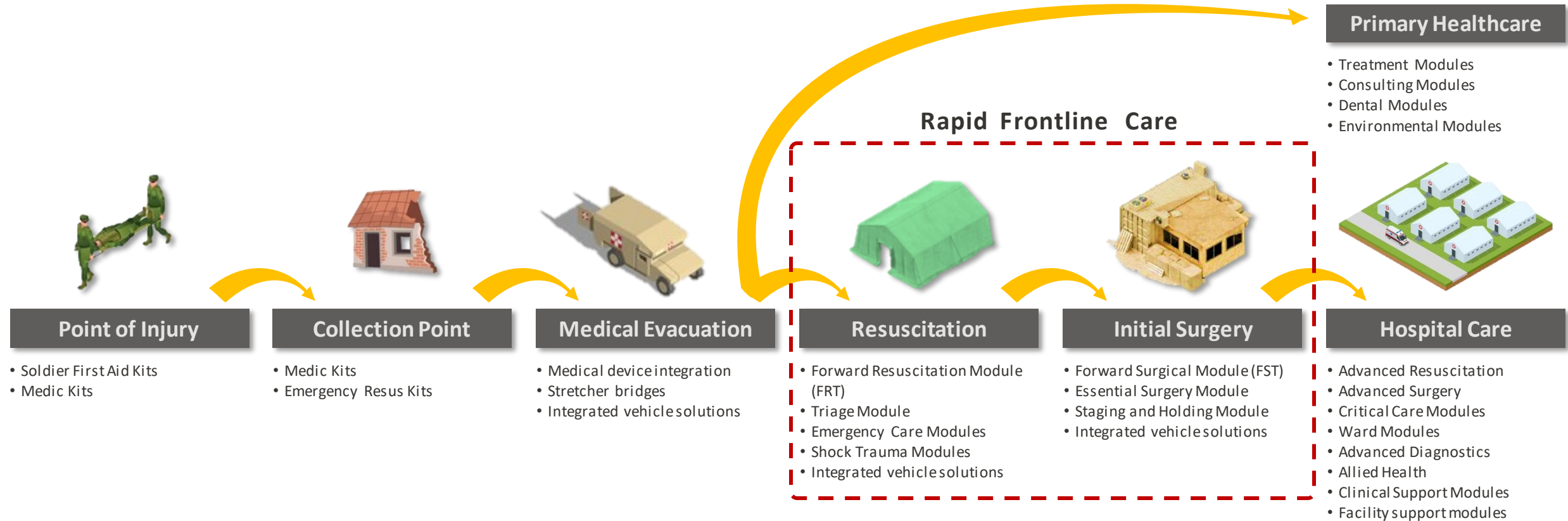
- Medical Treatment Facilities
- NATO Role 1, 2F, 2B, 2E, 3
- Medevac Solutions
- Medical Infrastructure Design
- Medical Systems Integration
- Integrated Logistics Support Services



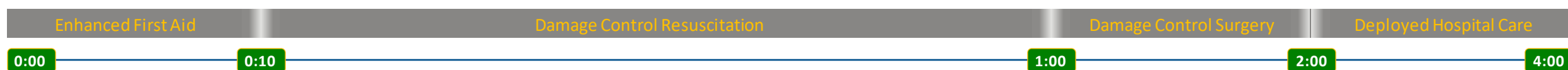
Swedish Armed Forces, Norwegian Navy, Australian Defence Force, Latvian Armed Forces



Saab Deployable Health



NATO timeline of care



Australian Defence Force JP2060- Phase 3



Deployable Medical Modules

Mobile Modules

CSSD

CBRN (Fitted For)

Dental

Imaging- X-ray, CT, US

Pathology

Pharmacy

Primary Health Care

Psychology

Trauma

Triage/ Resuscitation

Surgery

Wards

Evacuation Capabilities

Aeromedical and Surface



Deployable Infrastructure Capabilities

Infrastructure System

- Shelters
- Power Distribution
- Environmental Control
- Cold Chain Management
- Water Management
- Waste Management
- O2
- Back up; spares and consumables

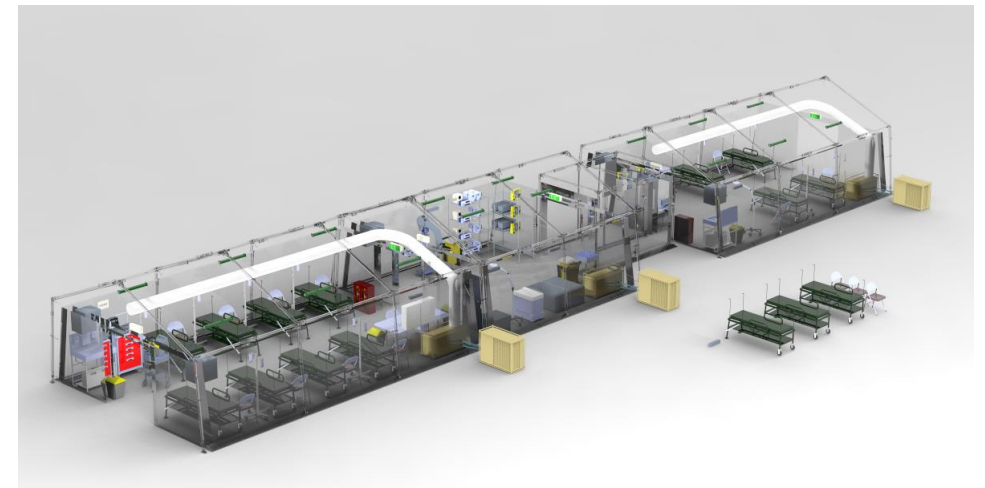
Staff

- Laundry
- Hygiene
- Fitness
- Training
- Shared Areas



Prime System Integrator Approach

- Hospital Architecture;
 - Patient and Clinician Flow Optimisation
 - Environmental Controls
 - Services (water, waste, medical gasses, electrical, lighting, cold chain management, sterilisation)
- Design, verification and delivery of 550+ medical modules;
- Management of 200+ suppliers and 10,000+ unique equipment sets;
- Integrated Logistics Support
 - Documentation
 - Training
 - Maintenance and repair
 - Sterilisation
 - Spare Parts

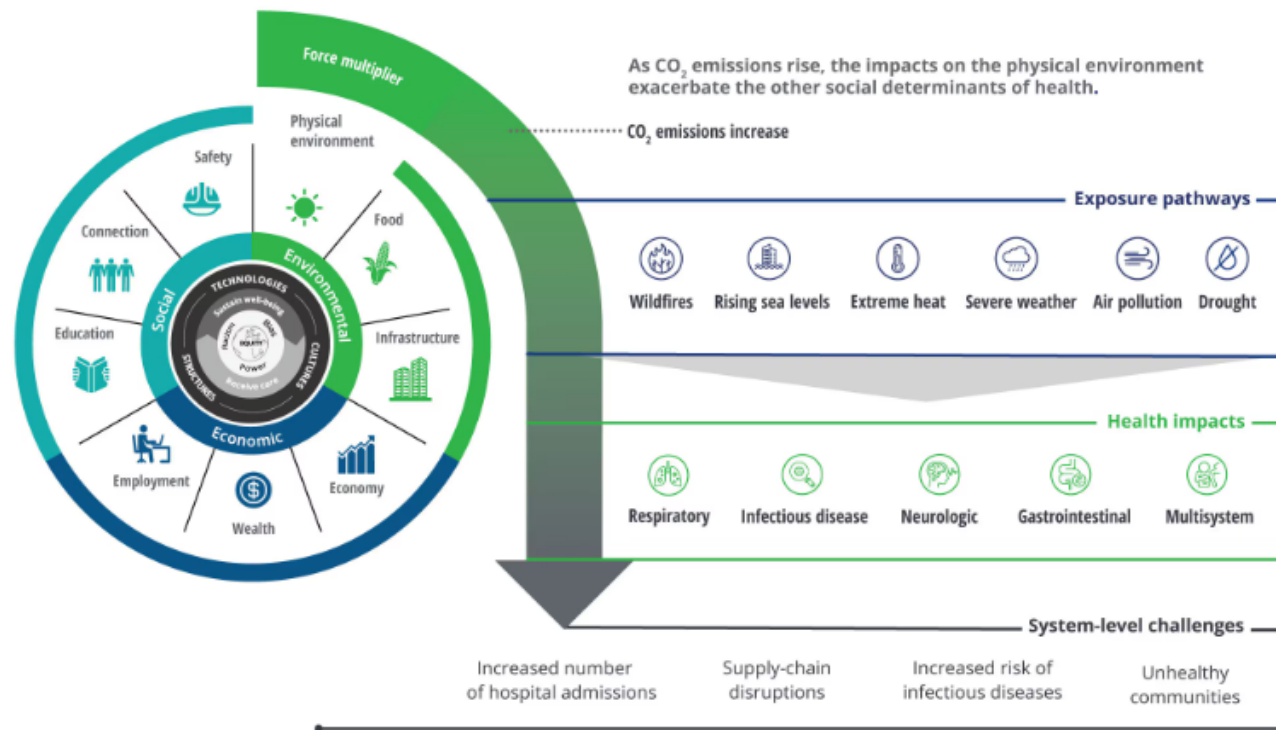




The Impact of Climate Change on Health

The impact of Climate Change on Health

Rising temperatures multiply the risks to human health



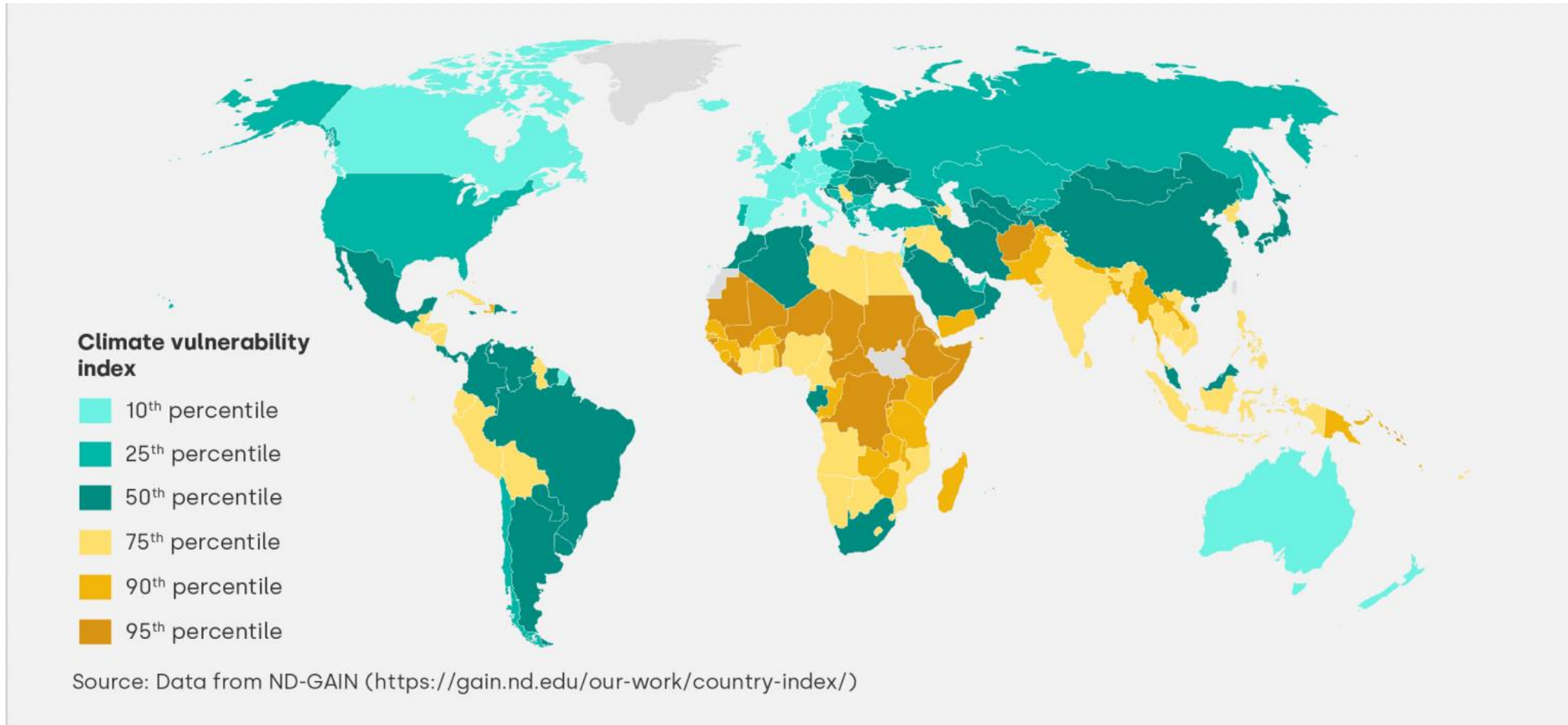
Source: [Climate change and health care | Deloitte Insights](#)

51% of global cities expect climate change to seriously compromise public health infrastructure

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

Source: [5 ways climate change is bad for your health | Imperial News | Imperial College London](#)

Impact of Climate Change in Vulnerable Populations



Building Resilience of Vulnerable Populations

Mobile Health Facilities



SAAB Medical & Rescue Shelter

SAAB Medical & Emergency Shelter

A lightweight, modular and connectable solution that provides an environmentally protected area to deliver operational effects, such as medical care, primary healthcare, military command and emergency accommodation.

Includes:

- 1 x lightweight shelter (flexible pole or air beam options)
 - 1 x power generator
 - 1 x power outlets within tent
 - 1 x diesel powered heater
 - 1 x LED lighting kit
- Total Weight: 80 kg (for flexible pole option)

Optional:

- Connection vestibule (to connect multiple tents together)
- Solar shade nets
- Camouflage nets (Barracuda)



COMPACT
HEATER 4000



Ny design! Mindre och lättare.
Flera bösor i 12V och 220V
utförande

Utrustad med den senaste
Dieselocher Air-logic värmare.



SAAB Role 1

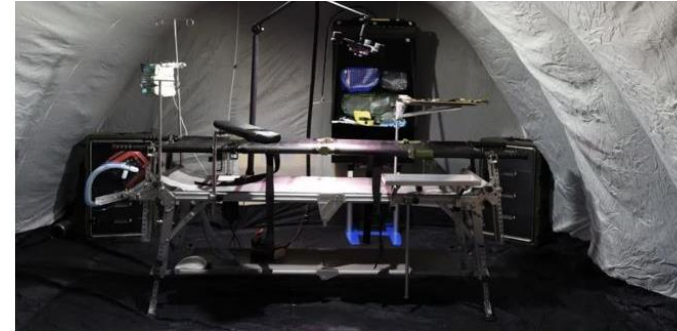
SAAB Role 1 Medical Treatment Facility

The primary role of the Role 1 facility is to provide Damage Control Surgery. The SAAB solution is based on TCCC (Tactical Combat Causality Care) guidelines to provide a rapid resuscitation response to trauma, close to the point of injury and within the NATO timelines of care (the Golden Hour).

The facility can also function to provide primary healthcare to support troop health (company / battalion aid station) and prolonged casualty care (PCC) in the event of an inability to evacuate.

Includes:

- Saab Medical and Emergency Shelter
- Medical kits, including
 - Trauma Set
 - Mascal Set
 - PCC Set
 - Oxygen
 - Blood
 - Stretchers



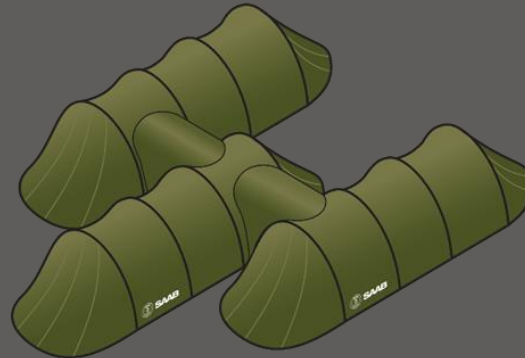
SAAB Role 2 Forward

SAAB Role 2 Forward Medical Treatment Facility

The Role 2 Forward facility is a multi-module field hospital used to provide surgical interventions in addition to the resuscitation capabilities of the Role 1 facility. A patient holding ward is also included to allow for the peri-operative care of surgical patients.

Includes:

- Resuscitation Module
 - Shelter
 - Trauma and Resuscitation Kits (as per Role 1)
- Surgical Module
 - Shelter
 - Surgical bed and light
 - Anaesthetic equipment
 - Surgical equipment
 - Oxygen supply
- Ward Module
 - 4-6 ward beds
 - Ward medical equipment
 - Prolonged field care equipment



Medical Kits

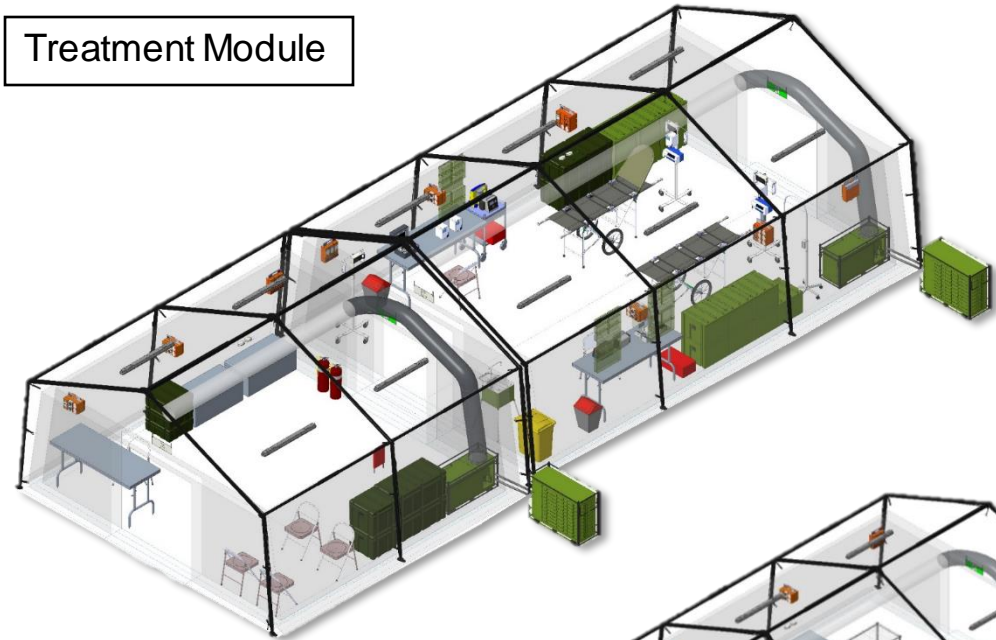
- Trauma Set
- Mass casualty Set
- Prolonged Care Set
- Oxygen
- Blood
- Stretchers



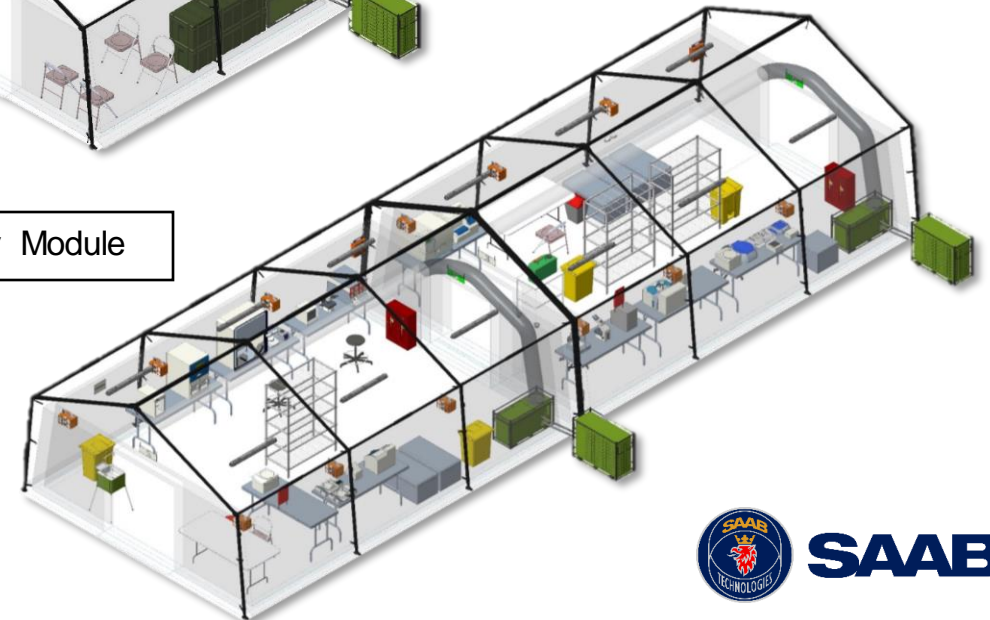
Mobile Health Infrastructure Options

- Mental health and emergency crisis care, diagnosis, therapy and pharmaceuticals
- Quarantine, general health facilities
- Treatment clinics, blood donation centres, and laboratory modules

Treatment Module



Laboratory Module



Decentralise Health Responsibilities from Urban Centres

Support emergency evacuation during disaster management.

Physical delivery of mobile medical infrastructure:

- Multi-functional health care clinics
- Mobile triage
- Surgery
- Blood donation centres
- Laboratories
- Dialysis facilities
- Vaccination clinics

Enhanced regional capabilities.

Prioritising health areas

Childcare

Maternal health

Family planning

Aged care

Chronic and infectious disease management.

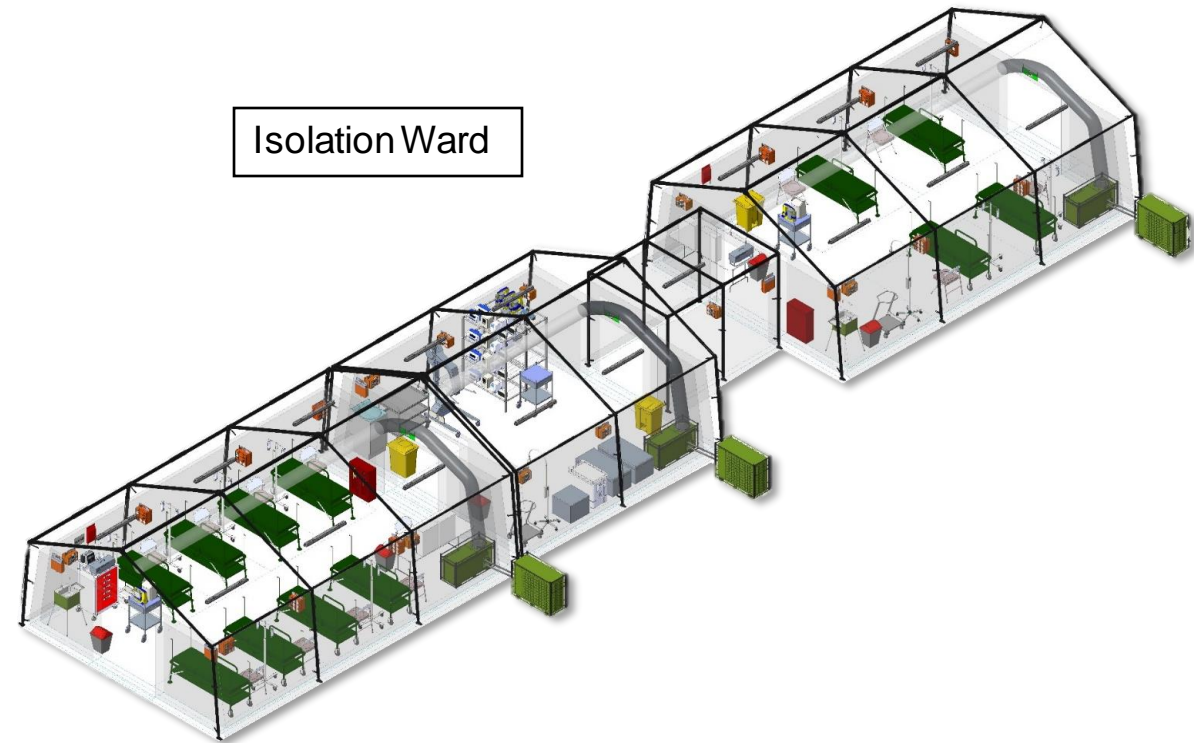
Enhancing pandemic preparedness and response

- Diagnostics and testing
- Clinical and therapeutic capacity
- Providing vaccines and preventative measures, masks, PPE
- Responding to signals of early disease outbreaks, and preventing major outbreaks



Solutions for pandemic preparedness and response

- Provide quarantine facilities, treatment modules
- Providing care and vaccine infrastructure, refrigeration, clinics, medication
- Strengthening laboratory systems

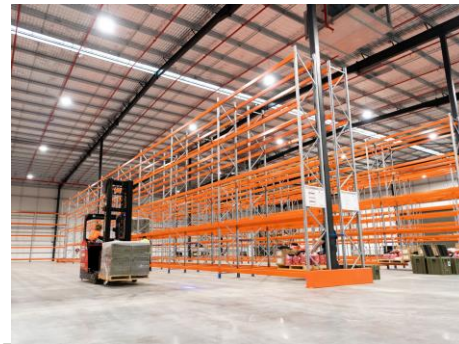
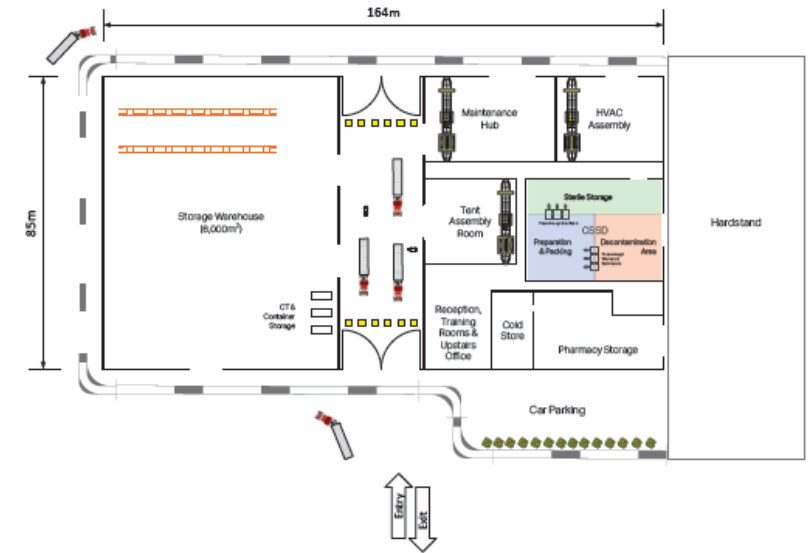


Deployable Health Support Centre

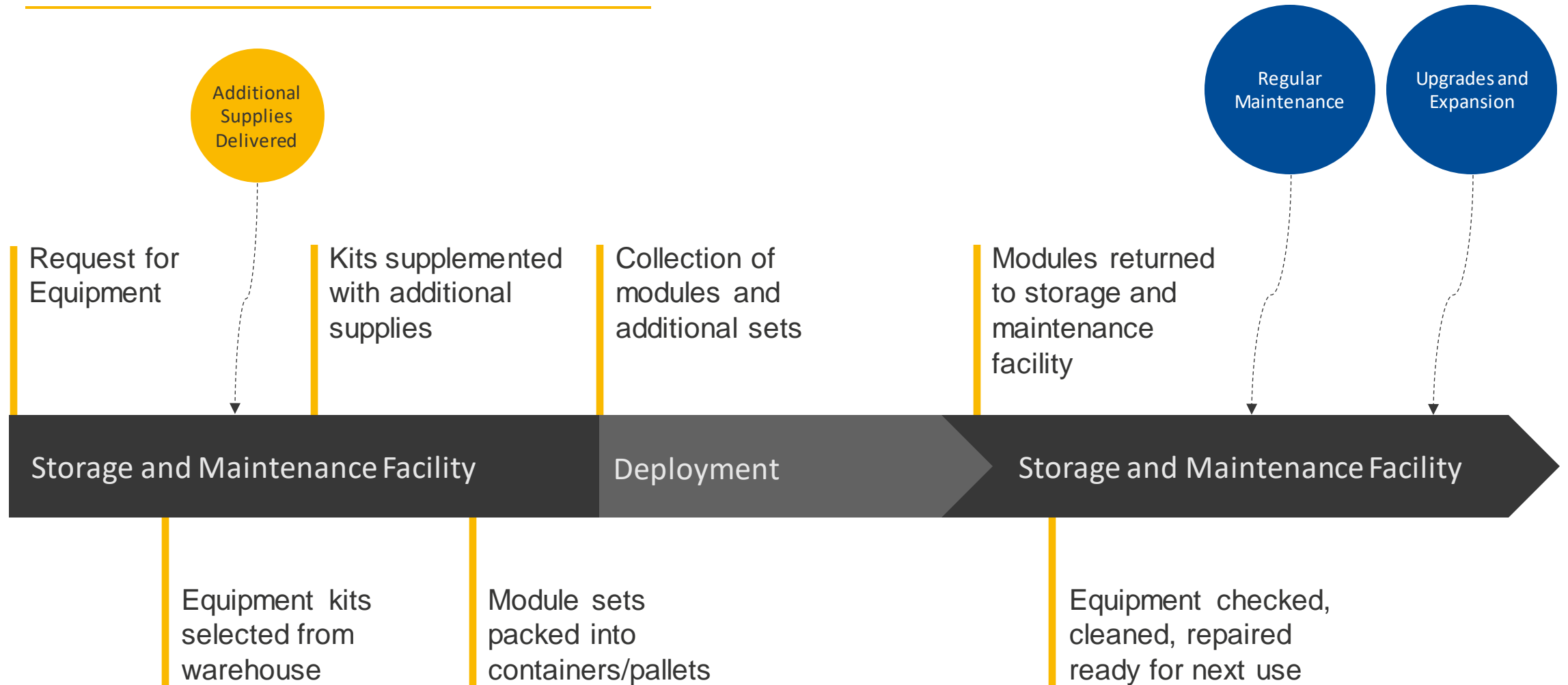
Total building area
12,346m²



Saab Service Concept



Supply Chain & Support



Deployable Health Support Centre

Warehousing, Engineering, Maintenance, Supply and Training.

- Surge capacity to allow for incoming/outgoing equipment;
- Areas to unpack modules on return from deployment/training;
- Area to Clean Dirty Equipment;
- Fully certified sterilisation capability;
- Maintenance Areas for HVAC and Shelters;
- Area to Pack and Consolidate Modules for Despatch;
- Storage of Hard Shelters both undercover and on Hard standing;
- Provision of Pharmacy and Cold Chain storage;
- Space to Store Spare Pallets; and
- Office Space including meetings rooms, training room and colocation of Commonwealth representatives.

Mobile Medical Infrastructure in Health and Facilities Management

Centrally located to Transport Hubs

- Storage of modules
- Maintenance
- Sterilisation
- Training Facility

Strengthening health care supply chains



Thank you

