



MDU.

The gold standard of rapid deployment mobile units, the Civitas MDU (Mobile Diagnostic Unit) is designed to deliver fast, mobile and patient centred care to your local community.

A study into Diagnostic Services for the NHS by Professor Sir Mike Richards in October 2020 has detailed the need for radical investment and reform of diagnostic services in England and Wales.

Amongst other recommendations, the Report places emphasis on the need for mobile units allowing for remote diagnostics and screening services away from hospitals and in local communities.

Without intervention, the ever increasing demand on the NHS will reach a tipping point with many patients waiting months on end before having access to screening or treatment services.

With the addition of the Covid-19 pandemic, the strain on the diagnostic services is clear cut and urgent action is required.

"Community diagnostic hubs (CDHs) are needed to accomodate the major expansion required over the next five years, as potential for expansion on acute hospital sites is very limited."
(Prof. Mike Richards, 2020)

MDUs provide a viable solution to reduce the overwhelming backlog by taking healthcare into the heart of local communities.



Healthcare with community in mind.



Community Healthcare

Mobile units can be placed within the base of communities and close to those who are at a geographical disadvantage allowing for better access to medical assistance.



Test and Trace

With emphasis placed on the Test and Trace system to ensure infections are identified and isolated, our vehicles create a practical solution to combat the pandemic.



Laboratory

Our vehicles have a designated laboratory area within the unit that accommodates space for sample testing equipment with multiple power points contained within the trunking.



Vaccination

As the government's pledge to vaccinate the country continues with full force, our vehicles can serve as mobile vaccination centres even for those in the most remote areas.

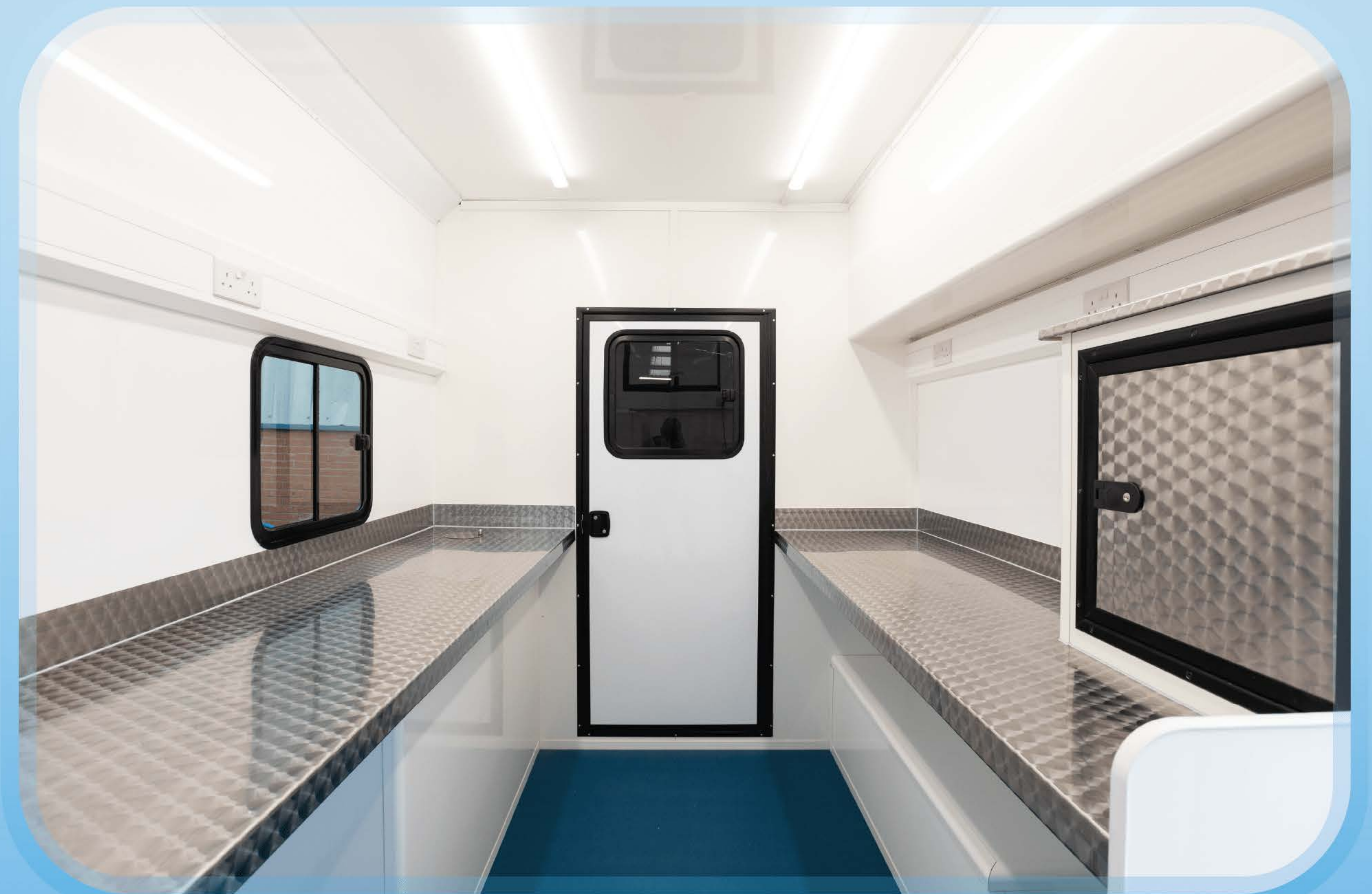
Designed to your specification.

Civitas MDU's can be manufactured to your requirements, specific to your chosen application and intended usage.

Fabricated to your choice of usage - integrated technologies will ensure maximum hygiene, accuracy and longevity of investment.

Each MDU can be fully equipped with market-leading integrated devices and three power sources keeping you on the go when all others fail.

With the ability to function totally off grid when needed, the CIVITAS MDU is built for rapid deployment and standalone operation if required.



Making healthcare accessible.

Having designed, developed and manufactured the gold standard of MDUs, our mission is to make remote healthcare accessible in an effort to aid both national and global medical services.

Following the recommendations made in 'Diagnostics: Recovery and Renewal (2020)' our MDUs provide a pragmatic solution to the growing pressure on services within the NHS and a viable option allowing healthcare services to adapt to a much more modern approach.

Diagnostic and screening services are important in early intervention of patient care but are often inaccessible due to lack of appointments, inability or reluctance to travel to hospitals and long waiting room times.

Our MDUs allow for viral diagnostics to be carried out in a safe but remote setting therefore negating the above and providing a viable alternative.

If there is a COVID 19 outbreak, our MDU can be rapidly deployed to carry out testing and vaccinations safely.

Civitas's vision is far-sighted and believes the scope for the MDU is endless.

Cardiovascular

- Stroke / Head
- Heart
- Sleep

Fitness

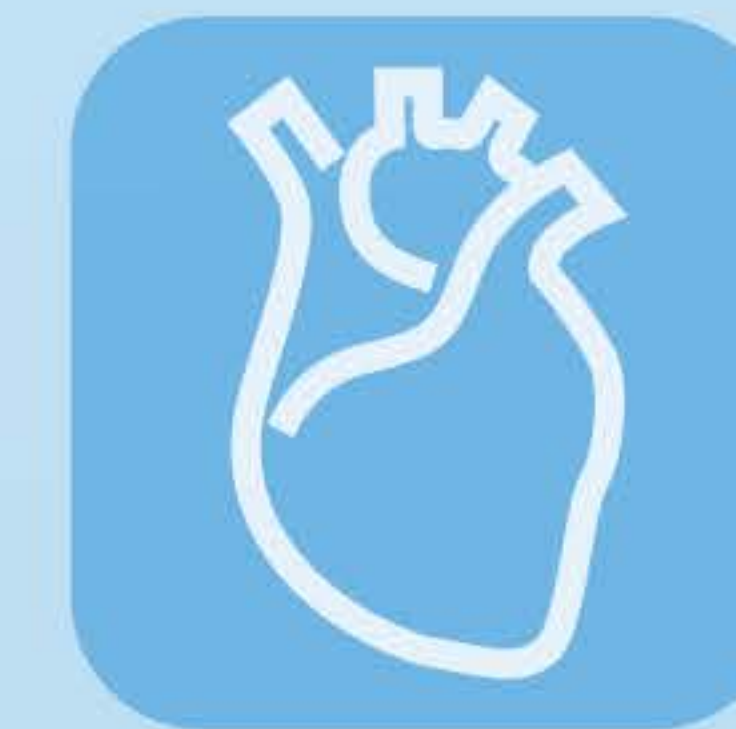
- Heart
- Musculo-skeletal
- Pulmonary

Wellness

- Breast
- Osteoporosis
- Heart
- Gynae
- Bowel
- Prostate
- Liver

Health

- Mental Health
- Sleep



Making healthcare accessible (continued).

What is the current situation?

There has been a massive increase in the need for diagnostic services within England and Wales in recent times with the NHS anticipating that there are approximately 5.6 million¹ patients waiting for treatment. This record number is ever increasing and with illnesses such as Cancer increasing at a rate of 2% per year, healthcare services are being put under immense pressure. At this rate by 2035 there will be 742 cases per 100,000 people². The need for diagnostic reformation is emphasised by the NHS Commissioned report by Sir Mike Richards dated October 2020³.

The ever-increasing backlog

The Health Secretary confirmed that the NHS backlog is expected to grow up to around 13 million⁴ in the coming months. This fluctuation stems from pre COVID 19 waiting lists, patients not presenting themselves for medical assistance during the pandemic and also due to complications arising from the Coronavirus.

As per the Organisation for Economic Co-operation and Development (OECD) averages, the United Kingdom is behind the mean number of imaging scanners per million population⁵. When coupled with the increase in need for effective diagnostics and staffing shortages, this is worrying and an area for concern that needs rapid intervention.

What is the NHS Long Term Plan?

The NHS Long Term Plan is set to transform the way the NHS operates. Its aim is to create and develop a service fit for the future. A pivotal focus of the plan is around diagnostics and screening which need to be reformed allowing for a patient focused and efficient service.



Often, the waiting times once referred to a hospital by a GP have led to delays of weeks and even months before diagnostic tests are carried out. The COVID 19 pandemic has allowed for all those involved within the healthcare system to revise methods of working and adapt new ways to reduce this waiting time.

The Solution

One of these ways as referenced to by Professor Sir Mike Richards in his report is the implementation of community based diagnostic services. Diagnostic services can be spread directly to the community without the need of hospital attendance. The benefits ultimately include efficiency with less people having to travel to a hospital.

Socio and geographic issues such as inequalities in respect of healthcare within communities can easily be dealt with. The wave of patients returning to hospitals who had previously held off seeking medical assistance due to the COVID 19 pandemic can be managed effectively with the CIVITAS MDU.

Professor Richards discusses the importance of investment of new service delivery models, equipment and facilities.

The provision of mobile diagnostics units allow for treatment close to patient's homes. These units can include various departments and separate areas such as Radiology or Cardiology. Each CIVITAS MDU is built for rapid deployment and can be effectively moved to a different area whereby services are required. The units can hold within them not only diagnostic equipment but also those machines relating to dentistry or audiology.

¹. <https://www.standard.co.uk/news/uk/nhs-sajid-javid-england-health-secretary-stephen-powis-b954574.html>.

². <https://www.cancerresearchuk.org/health-professional/cancer-statistics/incidence/>

³. <https://www.england.nhs.uk/wp-content/uploads/2020/11/diagnostics-recovery-and-renewal-independent-review-of-diagnostic-services-for-nhs-england-2.pdf>.

⁴. <https://www.theguardian.com/politics/2021/jul/10/sajid-javid-warns-nhs-waiting-lists-backlog-could-reach-13m>

⁵. <https://www.england.nhs.uk/statistics/statistical-work-areas/diagnostics-waiting-times-and-activity/monthly-diagnostics-waiting-times-and-activity/>

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Diagnostic Landscape

NHS
LONG TERM PLAN



CIVITAS

The Civitas MDU is designed to deliver **fast, mobile & patient-centred care** to your **local community**. This **gold standard** rapid deployment mobile unit can host a wide range of applications including laboratories, diagnostic & treatment clinics, as well as waiting areas for patients.



GIRFT



Getting It Right First is a national programme designed to improve the treatment and care of patients.

Professor Sir Mike Richards



Diagnostics: Recovery and Renewal -
Report of the Independent Review of
Diagnostic Services for **NHS England**.

Diagnostic Landscape (continued).

NHS Long Term Plan

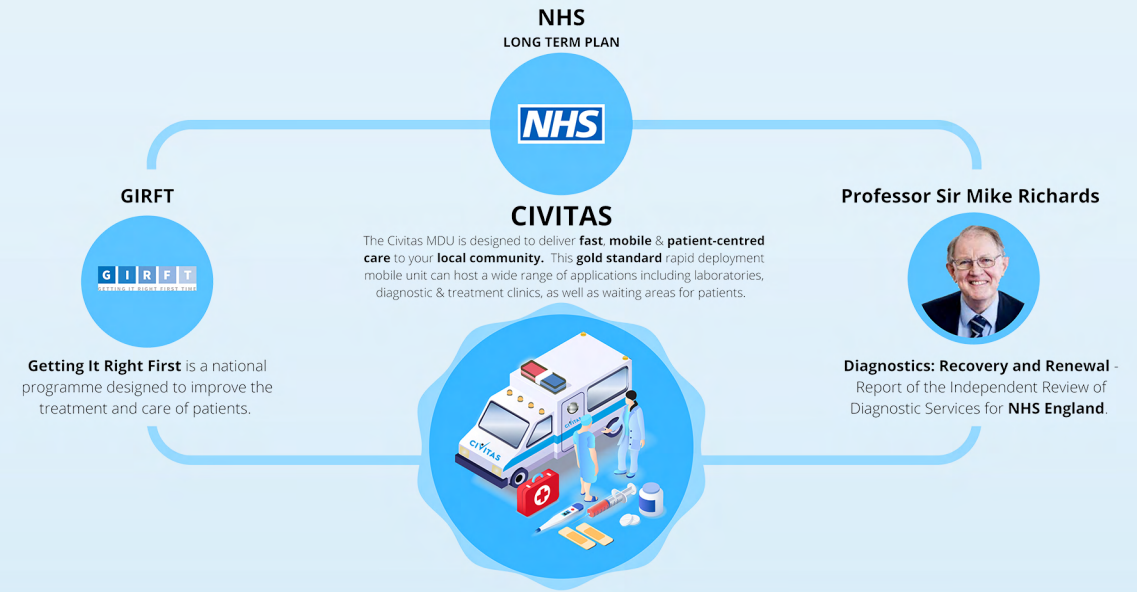
NHS England has a Long-Term Plan set out to transform the capacity and responsiveness of clinical services. This transformation will be integrated into the new models of care and will require close integrations across patient pathways

Previously more traditional approaches were provided for diagnostics in acute settings, i.e hospital-based. This followed the pathway of a GP referral to a hospital consultant. Several weeks would ensue between referrals, diagnostics and tests, not including the additional delays with further tests and appointments.

Now faced in a post-pandemic landscape, opportunities to redesign patient pathways are available. The needs of primary care and commissioners must be taken into account as well as improved access and productivity in secondary care all provided in new environments.

Getting It Right First (GIRFT)

GIRFT recommends diagnostics and tests to be delivered in a community-based setting, with increased and appropriate use of GP direct access. In order to reduce the number of journeys to hospitals, reduce 'Referral To Treatment' times and drive productivity and efficiency, it is essential to join up primary and specialist follow-up care in settings that are closer to patients homes.



'Hot & 'Cold' sites

In the Post-pandemic landscape, patients will need to be given confidence in being able to re-access care safely. The future landscape needs to ensure there is no compromising in care provisions with any future waves of pandemics. This can be done by the separation of elective and non-elective care with 'hot' and 'cold' clinical mobile sites.

Addressing health inequalities

In order to address the issue of long-term health inequalities, community-based healthcare, especially in areas of deprivation, is essential. These issues have been amplified by the pandemic, and to ensure post-pandemic reduction of these inequalities, Mobile Units are essential.

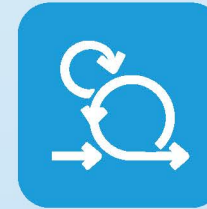
Why go mobile?

"Major expansion of diagnostic capacity was already clearly identified as being needed before the pandemic. Community diagnostic hubs should be rapidly established to provide COVID-19 minimal, highly productive diagnostic centers" (Prof. Sir Mike Richards, 2020)



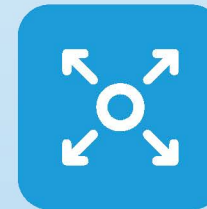
Accessibility

Flexible for patients, the MDU can be taken into the heart of communities.



Agile

MDU's have a rapid response and can be directed to hotspots within minutes.



Capacity

Designed for patients, awnings can be set up on three sides of the MDU.



Off Grid

With three different power sources - the MDU can be run independently anywhere in the world.



Efficiency

More patients can be seen, saving time for the healthcare professionals and institutions. Overall saving costs to the NHS.

MDU components.



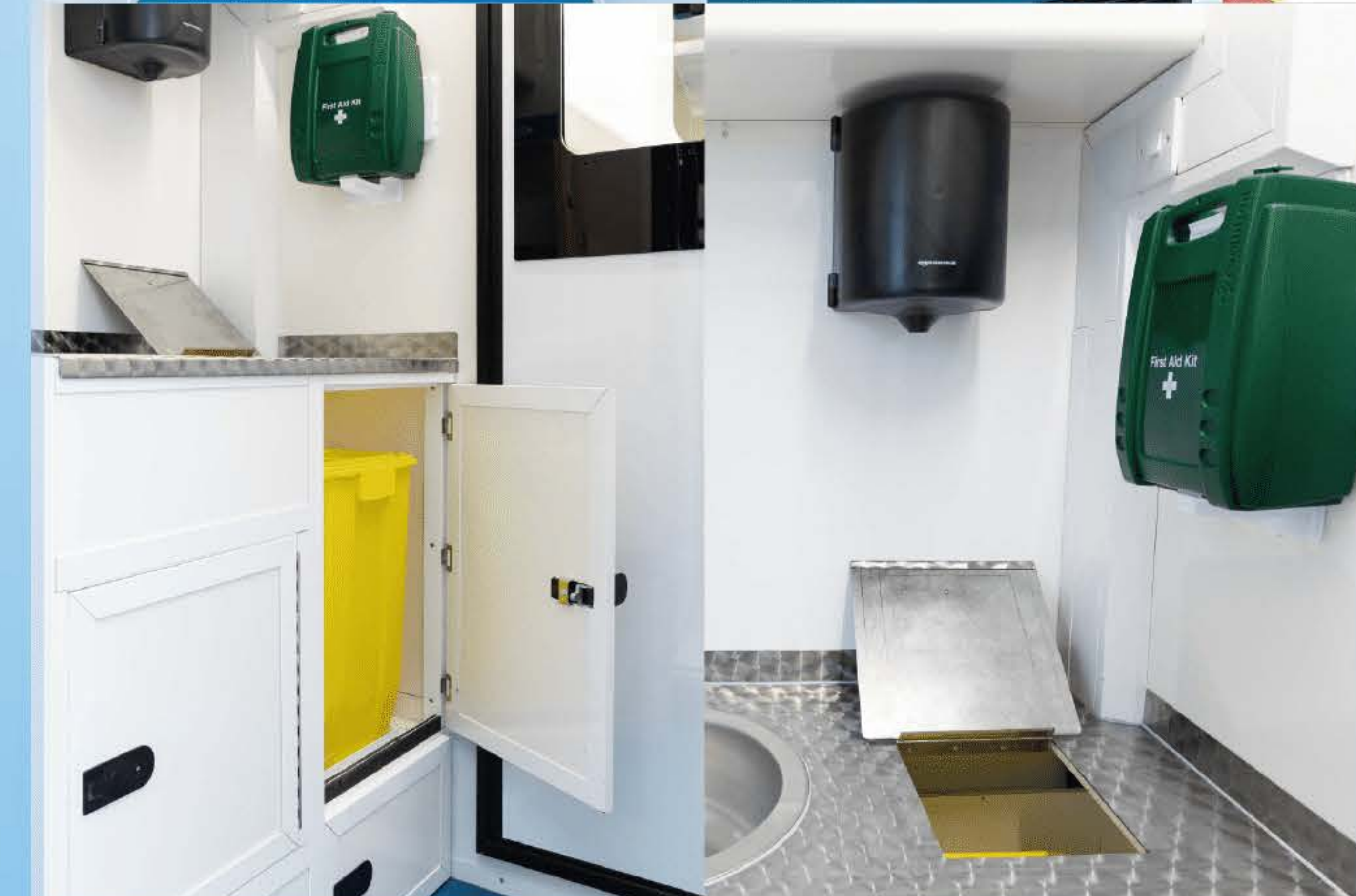
Infection Control

Seamless walls and ceilings, high gloss (RAL9016) gel coated finish. All cabinets are finished in Biocoat antibacterial paint to ISO22196:2011 and worktops are finished with hospital grade stainless steel and hospital grade vinyl flooring.

State of the art air filtration system accommodates for 10 air changes per 10 minutes - perfect for controlling toxic and infectious substances.

COVID-19 Sample Transfer

Built-in lockable locker door and cabinet to place live COVID-19 samples into laboratory area without the need to open doors or windows - containment within a sealed spaced.



Welfare Cubicle

Staff changing area 1.2m x 1.2m, with hot and cold running water administered via a stainless steel sink with hospital paddle handles for contact-less operation.

Fan assisted roof ventilation skylight, fold down seat and pull-out waste bin for contaminated waste.

Easy access and egress using the electric fold out steps.

Additionally wheelchair access can be added.

MDU components (continued).



Climate Control

Telair air conditioning unit mounted into the ceiling, with full range of settings to ensure a controlled working environment for both hot and cold climates, operational via a remote control handset.



Hazardous Waste Control

2 Built-in contaminated waste bins. One containing (60 litre capacity) within the staff welfare cabin for disposal of gowns and other disposable PPE. The other a (60 litre capacity) fitted in the test lab area for disposal of live Covid-19 test waste, this can only be accessed for emptying from a sealed lockable locker outside.

Laboratory

3.5m x 2.2m x 2.3m high

Light, airy and a spacious working environment with 17 cubic metres of area to accommodate ample equipment to meet all test, trace, vaccination and laboratory applications including PCR or LFT COVID testing. This space can also be used as a pre-op facility depending on equipment installed.

Multiple configurations available dependent on choice of testing equipment.

Multiple power points around whole area contained within plastic data & power trunking, ideal for future servicing and additions.

All cabling is accessible by simple rewiring the front panels.

*Interior layout can be designed for many clinical uses, please see example layouts.

External components.

Solar Panels



Flood Lights



Electric Retractable Step



On Site Cameras



Hot + Cold Water Outlet



6 x 12.8v 100ah Lithium Iron Batteries



5.6kW Inverter Generator

Vehicle Options.

MDU's have been designed for specific diagnostic applications with the ability to implement equipment and machinery as per their intended use.

Available in two vehicle weight classes:

- 3.5 Tonne - Can be driven with a regular driving license.
- 4.5 Tonne - Requires a C1 category driving license.
- Other classes available upon request - Please enquire.

There are various vehicle brands and models to choose from including the options for diesel, petrol, gas and electric.

Optional extras are available upon request including medical and laboratory equipment, specialised lighting, and custom vinyl stickers on the exterior. Please discuss special requirements and extras with our sales team.

The vehicles weight class required will also depend on the optional extras chosen.

Available to purchase, finance, lease or hire.



Vehicle Layouts

Both the interior and exterior layouts of the Civitas MDU can be customised as per your specific instructions.

Our expert sales team are on hand to help design the layout to meet your requirements.

The Civitas MDU is well suited for use by multiple hospital departments including:

- Breast Screening
- Vaccinations
- Cardiology
- Ear, Nose, Throat (ENT)
- Gastroenterology
- Obstetrics and Gynaecology
- Hematology
- Neurology
- Oncology
- Ophthalmology
- Trauma, Orthopaedic and Physiotherapy
- Renal
- Urology
- Endocrinology and Diabetes
- Dermatology
- Respiratory
- Nutrition and Diet
- Wellbeing

Civitas has partnered with some of the leading brands in medical equipment, ensuring the latest technology is fitted safely and efficiently within the MDU.



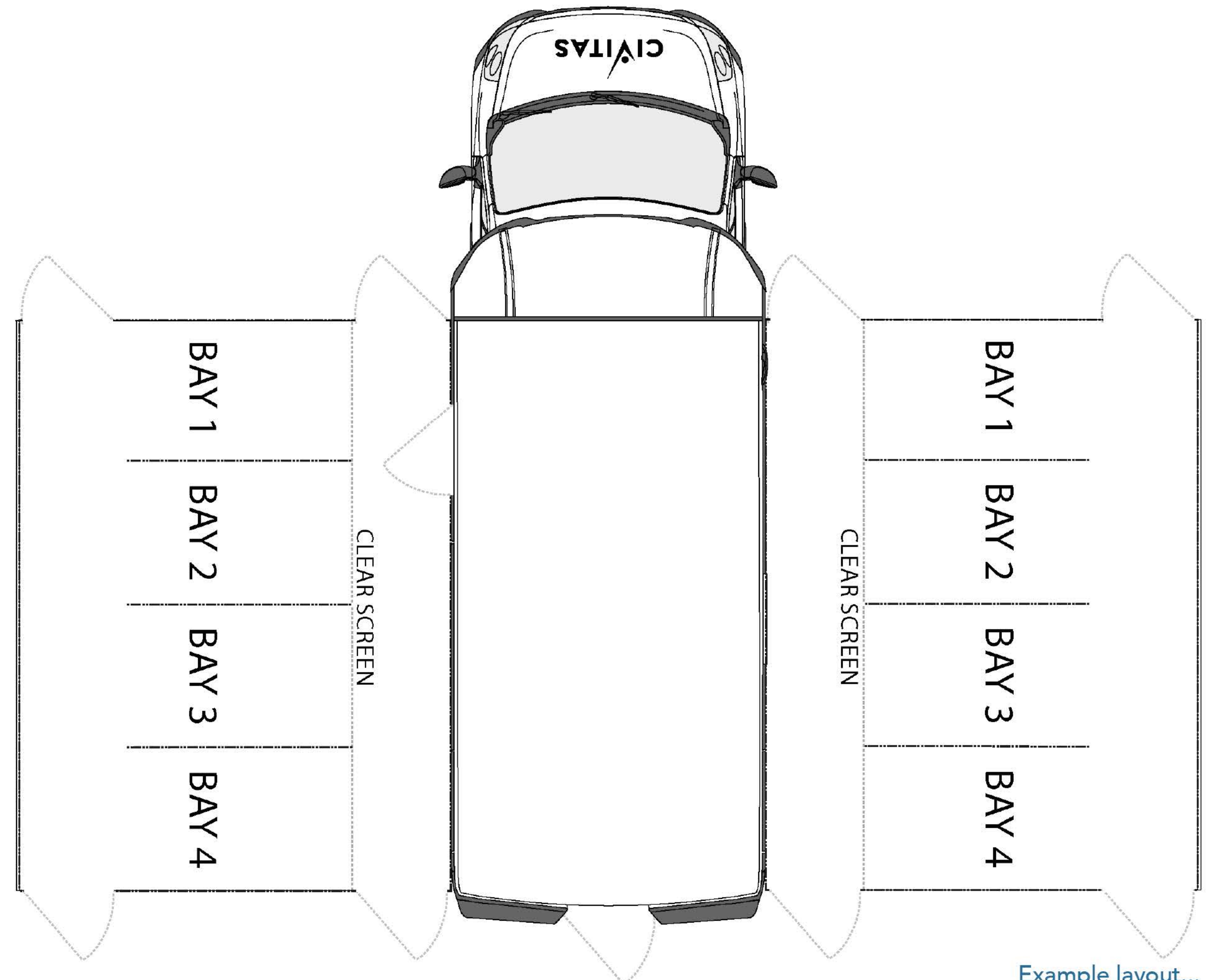
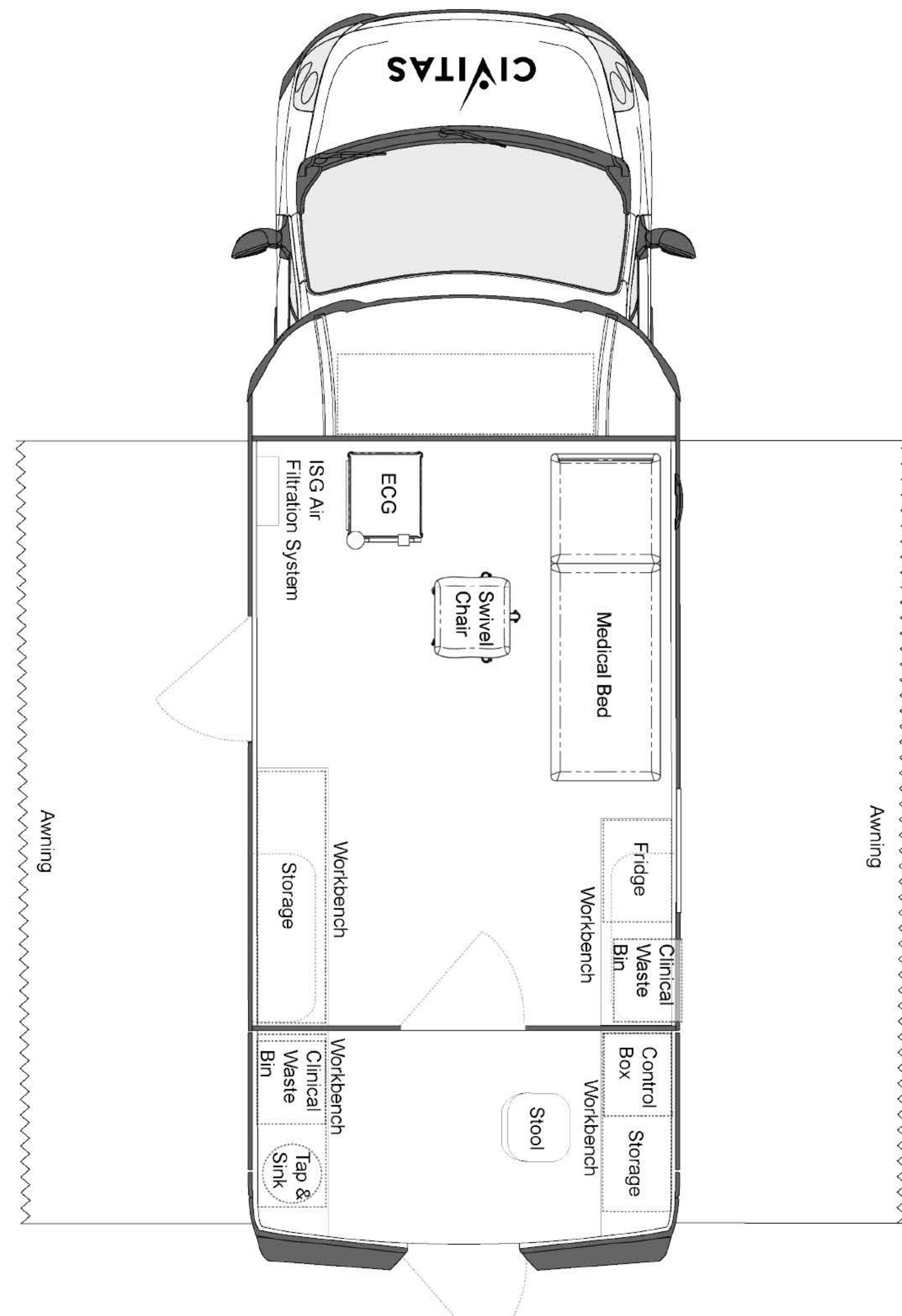
Suitable for a capacity of 8 patients
in the awning/waiting area, 1 patient
and 1 staff member inside the MDU.

Uses include:

- Pre-Operation
- ECG
- Vaccinations
- Screenings
- Diagnostic Testings

Example layout

Multi-Purpose + Welfare Cabin



Example layout...

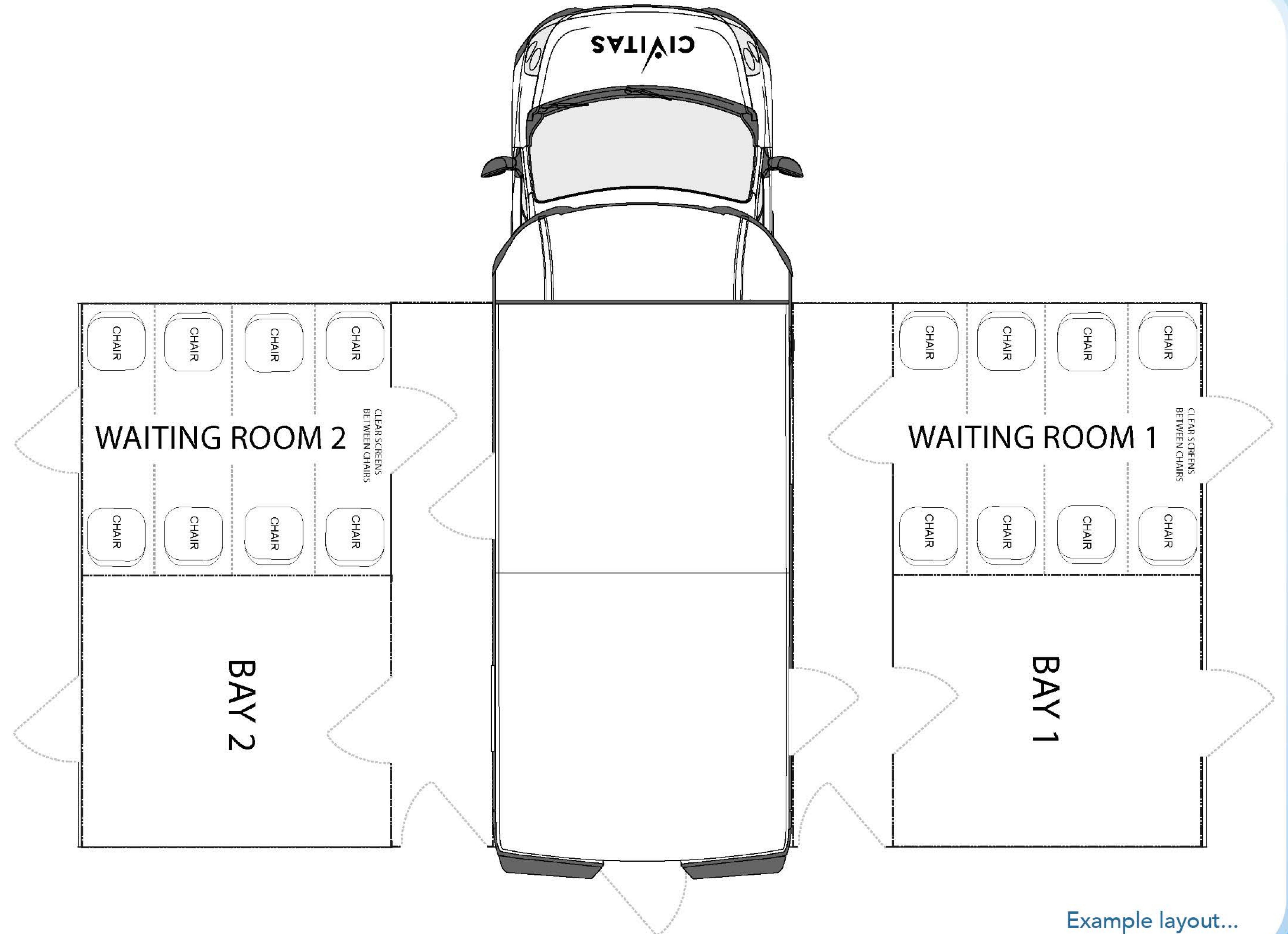
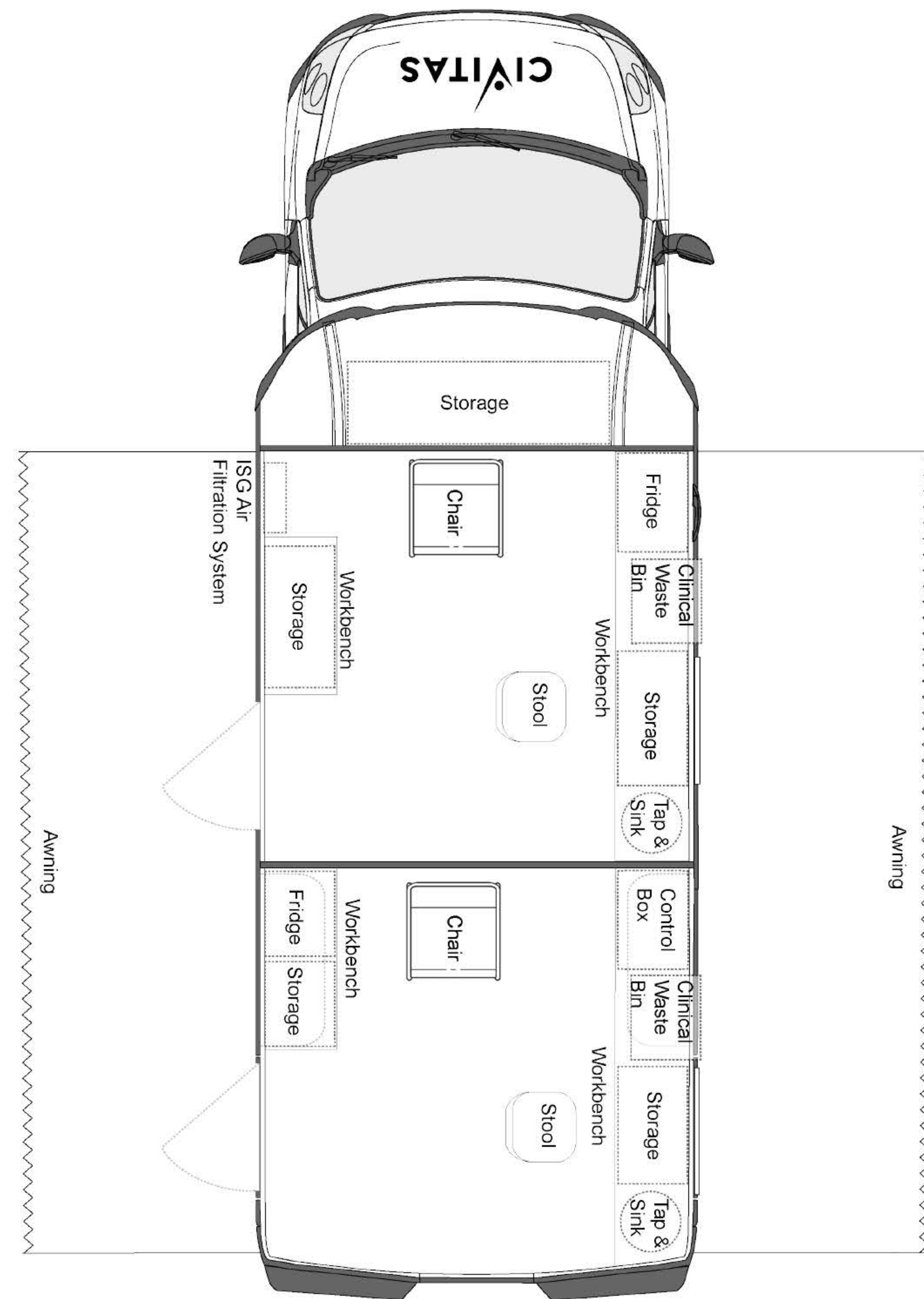
Example layout

Multi-Purpose Twin Room

Suitable for a capacity of 16 patients in the awning/waiting area, 2 patients and 2 staff members inside the MDU.

Uses include:

- Pre-Operation
- ECG
- Vaccinations
- Screenings
- Diagnostic Testings



Example layout...

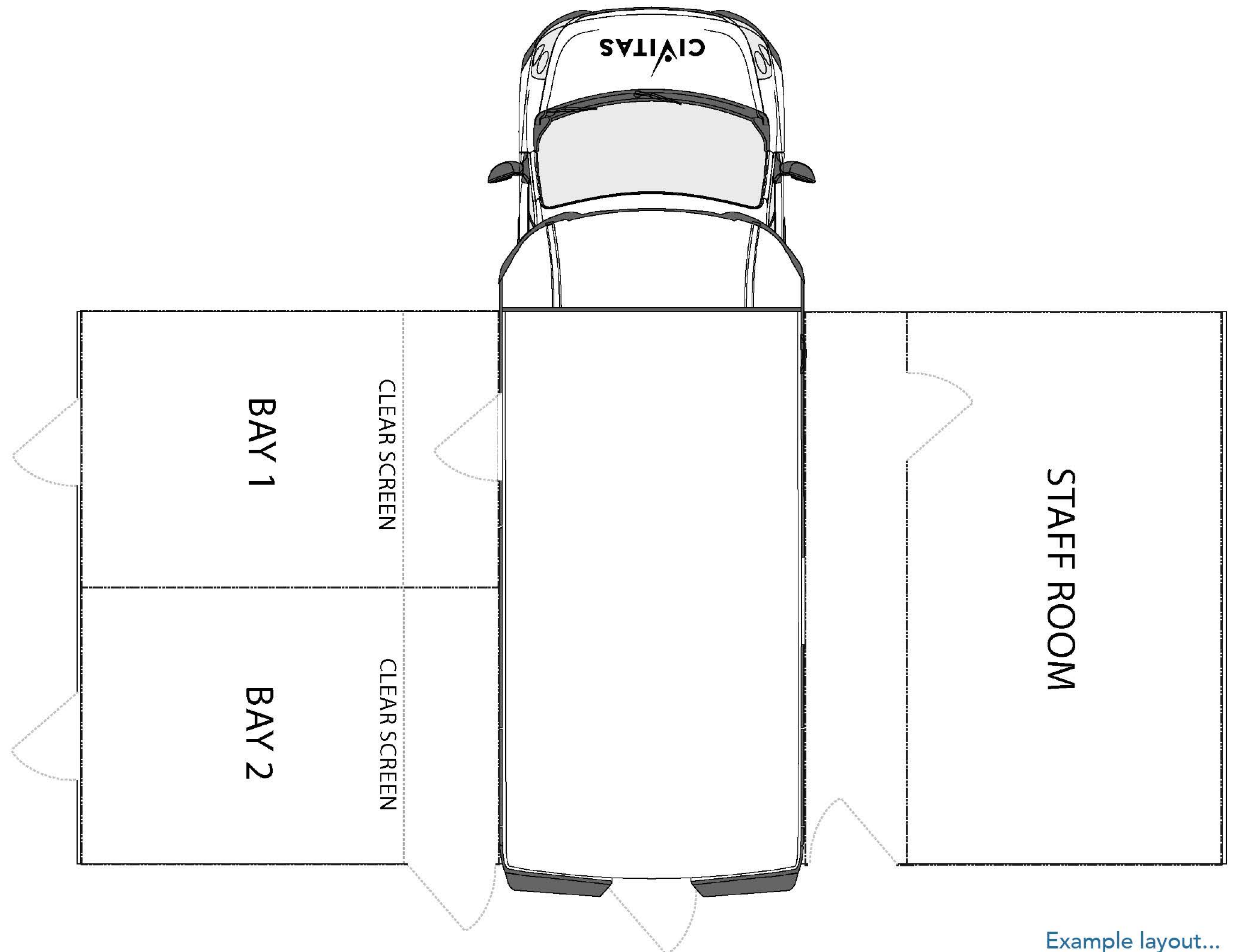
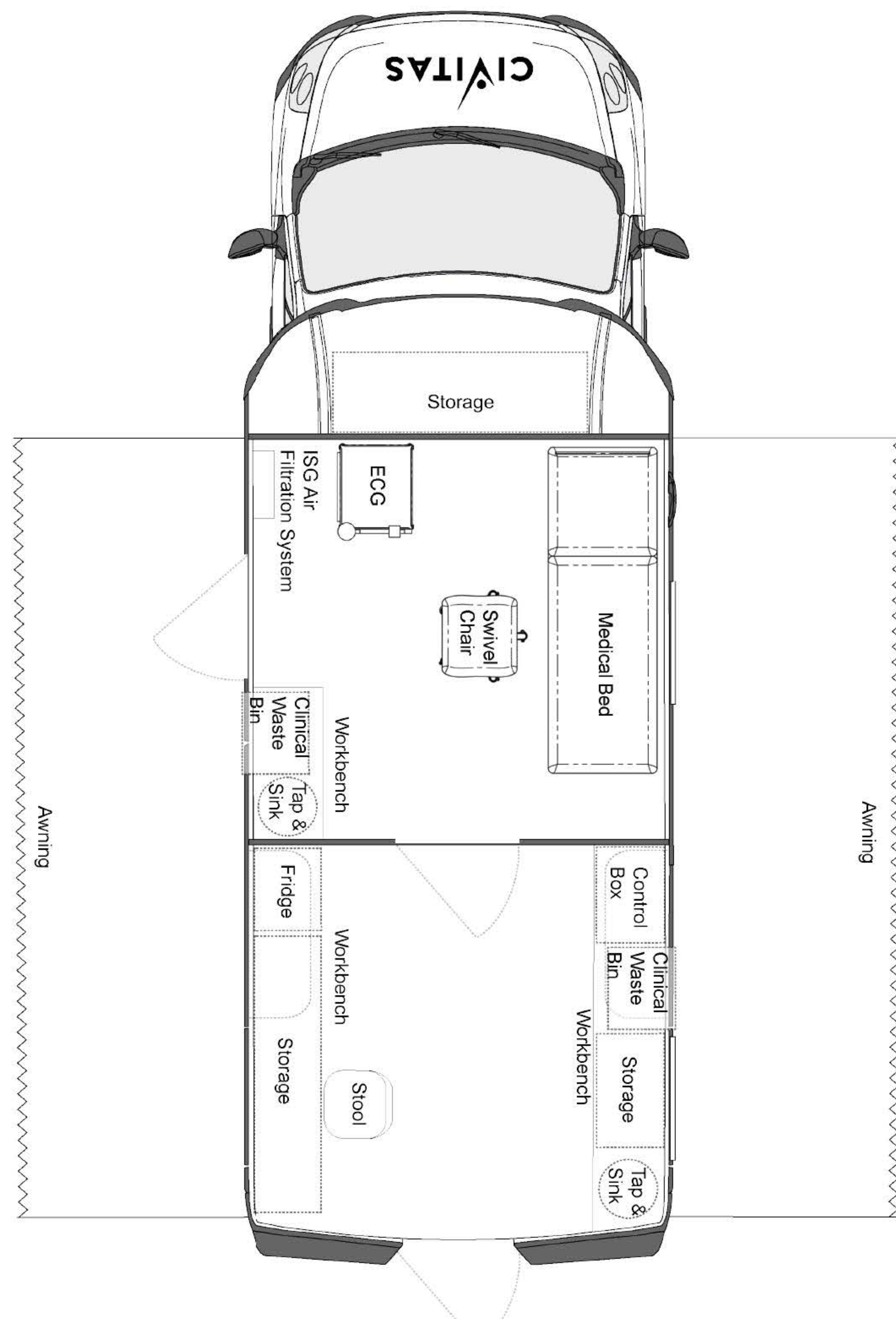
Example layout

Clinic + Patient Room

Suitable for a capacity of 2 patients in the awning area, 1 patient inside the MDU, along with 2 staff members.

Uses include:

- Pre-Operation
- ECG
- Vaccinations
- Screenings
- Diagnostic Testings



Example layout...

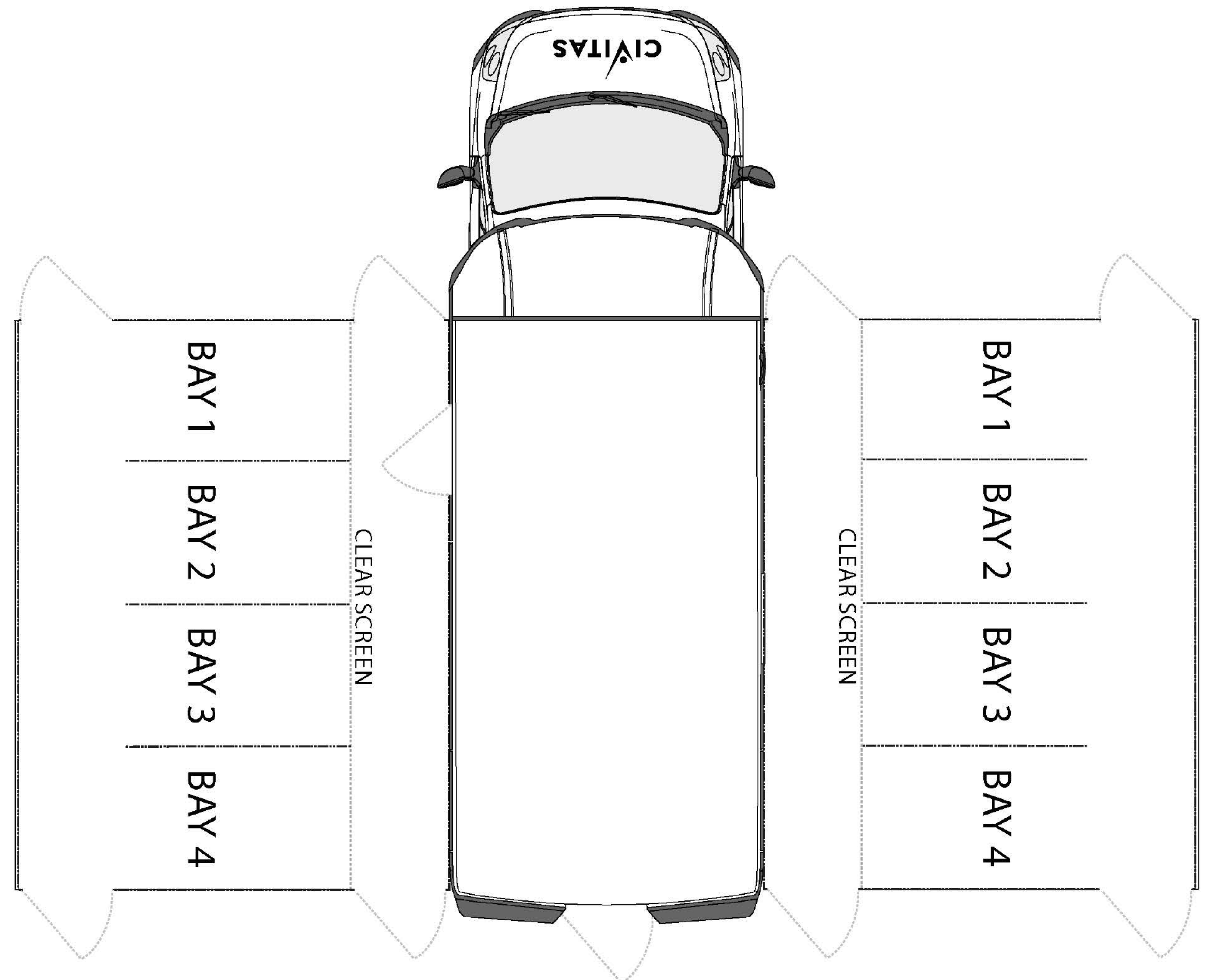
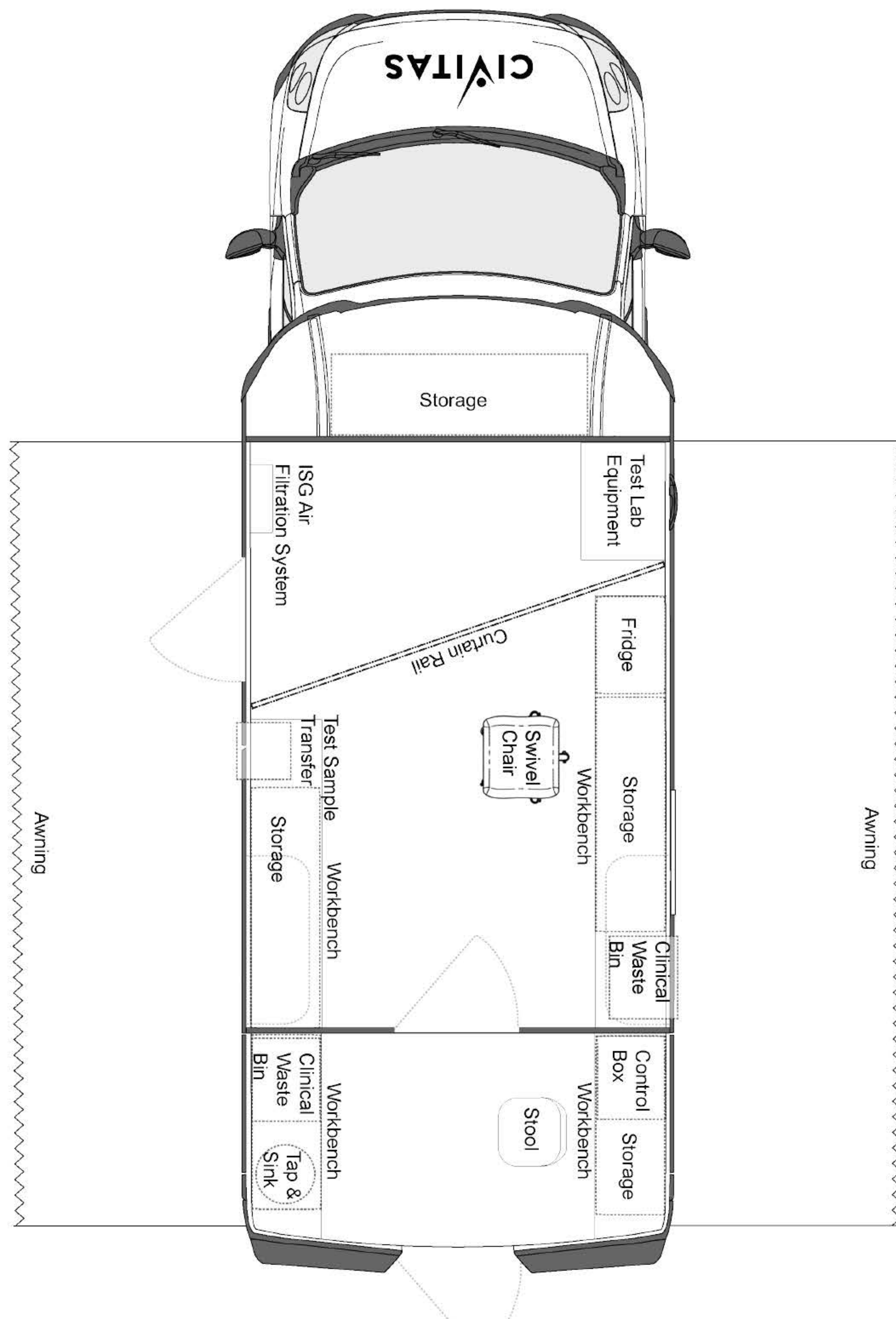
Example layout

Laboratory Testing

Suitable for a capacity of 8 patients in the awning/waiting area including one way systems and safe distancing, with 2 staff inside the MDU.

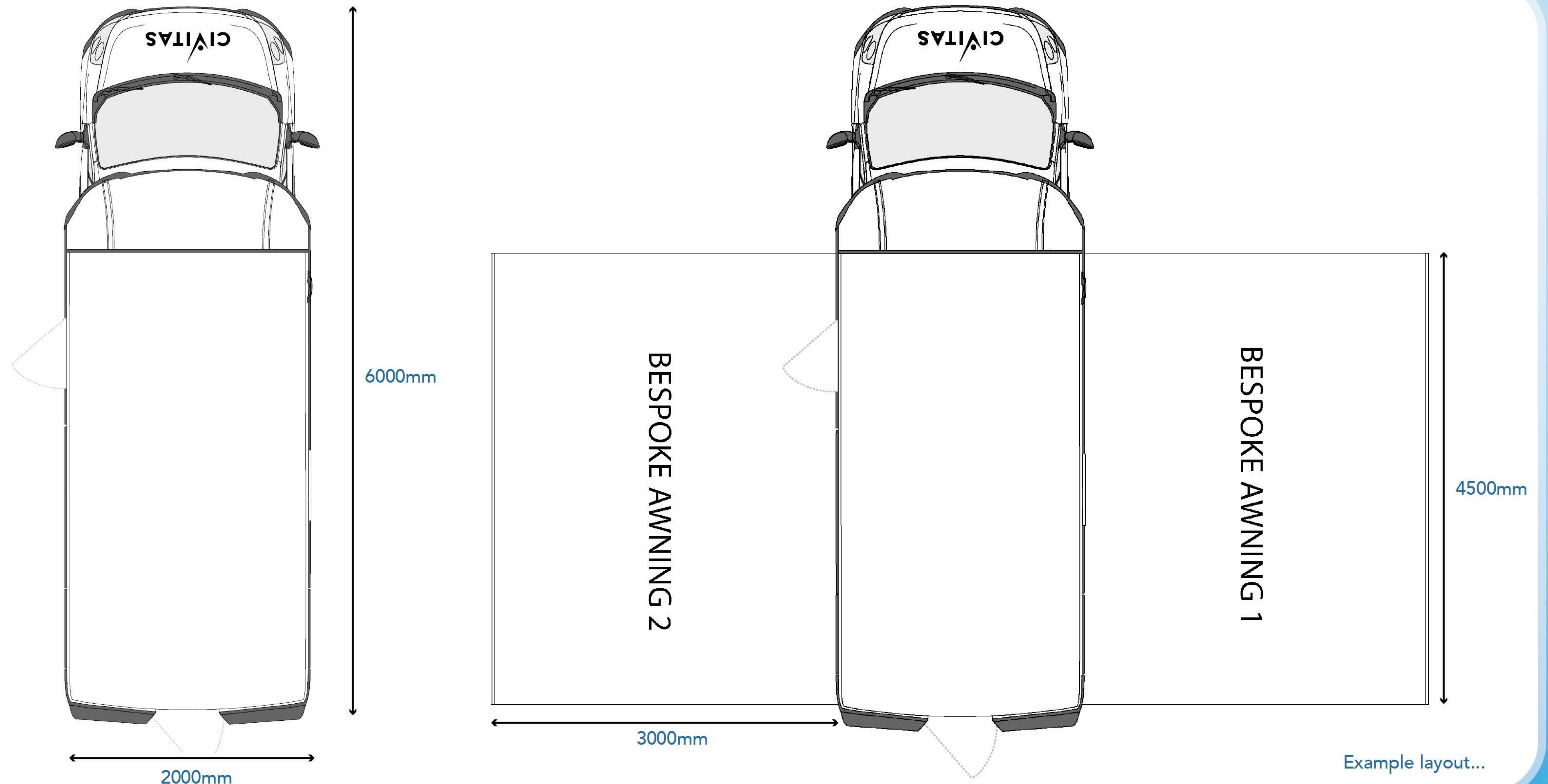
Uses include:

- Vaccinations
- Screenings
- Diagnostic Testings



Bespoke

MDU and awnings are manufactured bespoke to each customer's requirements. Various internal layouts including middle partitions/separations can be added. Multiple arrangements can be made to suit placements of specialised equipment. Contact our team to discuss all bespoke options. (See contact page for more information).



Vehicle Specification.

Example specifications: Fiat Ducato 42 Maxi Multijet 2.3 Litre Diesel

Interior Features

- 4 sensor ABS + EBD
- Advanced emergency braking + Lane departure warning system
- Athermic windows and electric front windows
- Black frame for front lights
- Blow by heater
- Cloth upholstery
- Cup holder
- Deadlocks
- Driver's seat with lumbar adjustment and armrest
- Eco pack - Ducato
- Electrical interface supply socket
- Electronic Stability Control (ESC)
- Ciao fiat sticker

- Exclude rear cab bulkhead
- Full size spare wheel
- Heated diesel fuel filter
- Height adjustable drivers seat
- Immobiliser
- Rake adjustable steering wheel
- Steering Wheel Controls for Radio-CD
- Remote central locking 3 button key
- Service indicator
- Servotronic PAS
- Side marker lights
- Spare wheel jack
- Special order electrics loom extension

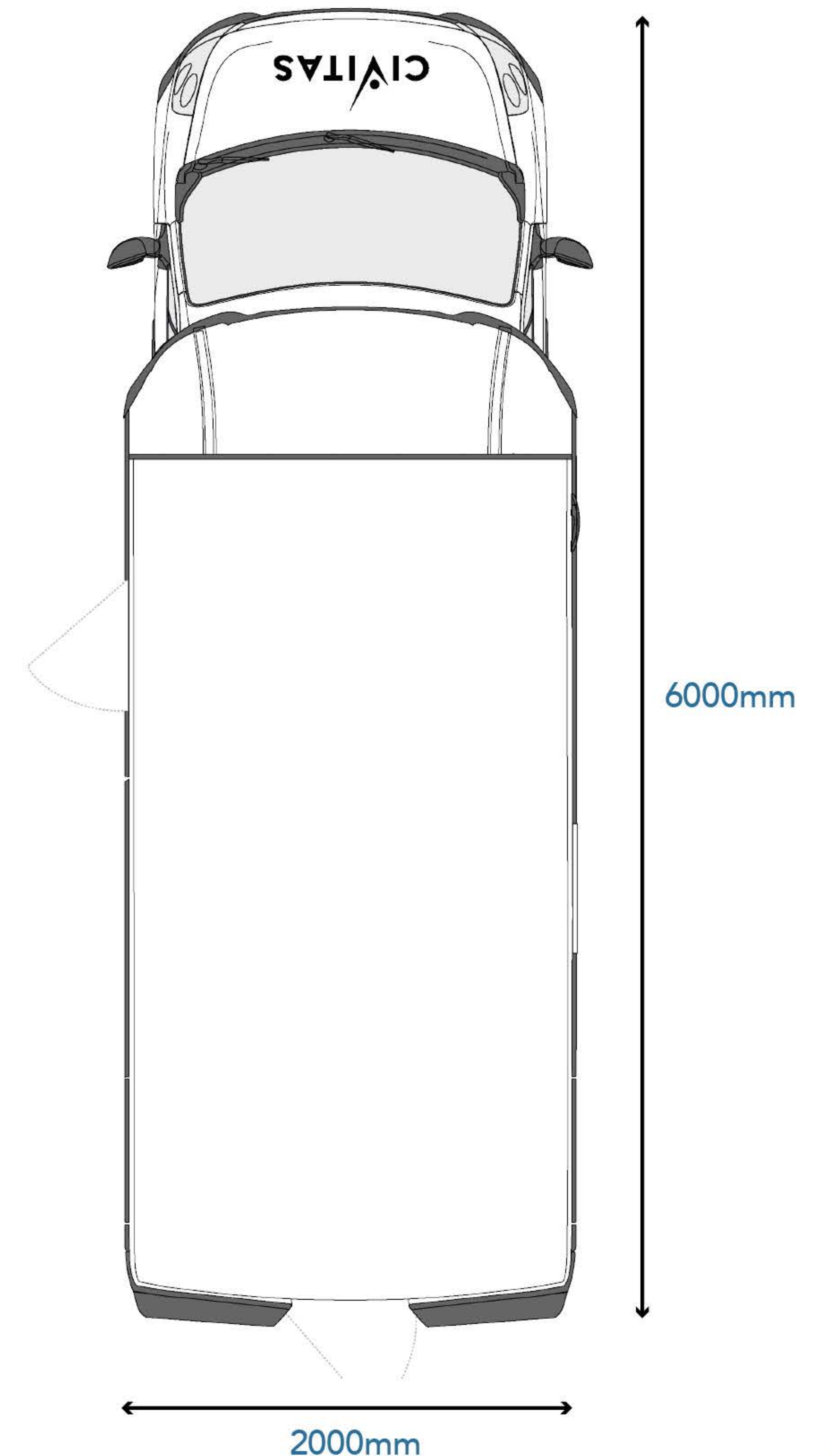
Driver convenience

- 12V Socket
- English Handbook
- Radio - Bluetooth - USB - AUX
- Trip Computer

Performance

- Top Speed - 93 mph
- Fuel Capacity – 75 Litres
- Gearbox – 6 Speed Manual
- Engine power - 177 bhp
- Engine torque - 285 lbs/ft

*Available in 3.5 and 4.5 tonne chassis. Various vehicle chassis available upon request.



Contact Us.

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