EVERYTHING YOU DO IS NOW FUN TO DO.

Introducing the fun-packed, all-new SUBARU XV. Featuring a combination of stylish urban design and rugged good looks, and new levels of capability that will have you tackling new places and experiences. You're now able to live the life you want. Whether it’s a night out on the town or a spur-of-the-moment weekend getaway, the SUBARU XV helps you do all the things you love, in style and in comfort. Every day can and should be, a joyful adventure.
You’ll notice it at first glance. An exciting blend of form and functionality, the all-new SUBARU XV is always ready for a good time—just like you. Ride the waves at the beach. Go for a walk, you can bike it. Or stay and discover all the hidden gems in the city. Whatever you do, you’ll make memories and make stories you’ll never forget.
Our goal is simple. It’s to maximise the fun, every time you ride the all-new SUBARU XV. It’s a capable SUV with smooth mobility and outstanding stability around turns that outshine those of passenger cars. Combined with Symmetrical All-Wheel Drive, the responsive steering of the SUBARU XV lets you turn and maneuver just as you intend. Get to your destination in comfort and peace, whilst sharing the fun with your fellow adventurers.
X-MODE helps to give you reliable control with a push of a button. The technology of X-MODE takes command of the engine, transmission, Symmetrical AWD, brakes, and other components to safely navigate through challenging conditions on any terrain. When X-MODE is activated, it automatically helps to maintain a constant speed when the SUBARU XV is travelling downhill. This makes it more fun to drive than ever before and adds a whole new range of possible destinations for all your weekend journeys, and gets you there with peace of mind.

The all-new SUBARU XV is always up for a challenge. The SUBARU XV instills confidence behind the wheel with its high driving position and excellent visibility, whilst conquering rough roads with Symmetrical All-Wheel Drive and its high ground clearance. Now, with the addition of X-MODE, it’s more fun to drive than ever before and adds a whole new range of possible destinations for all your weekend journeys, and gets you there with peace of mind.

CITY STYLE, COUNTRY CAPABLE.
The all-new SUBARU XV adds more utility to your enjoyable drive. The wide, almost square luggage compartment opening makes larger items easier to load and unload. Inside, there’s even more space between the wheel housings. When you need more space, use the easy-to-use roof rails*1*2 to carry larger items.

Shine your skis, polish your surfboards, and oil your bikes, because you’ll be needing them. The all-new SUBARU XV features outstanding cargo capacity so you can bring all your life’s accessories along. The SUBARU XV is ready when you are, to support you on all your urban and weekend outings.

LOAD IT WITH ADVENTURE, FILL IT WITH MEMORIES.

*1 Optional.
*2 Requires purchase of an attachment to load cargo on the roof rails.

SMART CARGO SOLUTIONS
The all-new SUBARU XV adds more utility to your enjoyable drive. The wide, almost square luggage compartment opening makes larger items easier to load and unload. Inside, there’s even more space between the wheel housings. When you need more space, use the easy-to-use roof rails** to carry larger items.

** Optional.
02. FRONT SEAT STITCHING
The ultra-comfortable contoured front seats come with exciting new orange stitching that adds to the all-new SUBARU XV’s fun factor.

03. POWER-SLIDING, TILT-ADJUSTABLE GLASS SUNROOF*
The all-new SUBARU XV comes with a sunroof to allow light in the cabin for a pleasant and comfortable ride for all.

01. REAR SEAT CENTRE ARMREST*
The interior of the all-new SUBARU XV offers comfort for all passengers, with cup holders in the rear seat centre armrest.

Optional.

When you open the doors of the all-new SUBARU XV, you’ll immediately notice its refined and sporty styling. More spacious and polished than ever before, the contoured seats provide a comfortable and enjoyable experience for you and all your passengers, even on those long rides.

YOUR JOURNEY BEGINS INSIDE.
The all-new SUBARU XV is equipped with a completely redesigned next-generation infotainment system that keeps you connected wherever you go. An available 8-inch*1 touchscreen head unit display provides intuitive access to navigation*1 and listening content whilst a redesigned multifunction display informs drivers on key vehicle stats. Connectivity between the head unit display, meter display*2, and multifunction display helps improve convenience, safety, and enjoyment in touch and in control—that’s how you’ll always feel inside the SUBARU XV.

01. APPLE CARPLAY® AND ANDROID AUTO™
Use today’s most popular apps with Apple CarPlay® and Android Auto™. Voice recognition capabilities allow hands-free use keeping everybody safe whilst reducing distractions when you’re on the road.

02. MULTIFUNCTION DISPLAY*1
The 6.3-inch LCD multifunction display at the top of the instrument panel provides you and your passengers with useful information in an easy-to-understand view. When the navigation system is in use, it connects to the multifunction display and shows turn-by-turn information when approaching intersections or turns.

03. METER DISPLAY*1
Now easier to see with its larger screen, the 4.2-inch full-colour LCD meter display helps you understand useful driving information with a quick glance so you can keep your eyes on the road.

04. REAR VIEW CAMERA*1
Conveniently manoeuvre the all-new SUBARU XV in tight city spaces with ease. When you shift into reverse gear, the camera displays a live colour image on the head unit display along with guidelines to assist you with parking.

*1 Optional.
*2 Connectivity function only available in models with the 4.2-inch premium meter display.
*3 Apple CarPlay is a trademark of Apple Inc., registered in the U.S. and other countries.
*4 Android™ and Android Auto™ are trademarks of Google Inc.
Driver is always responsible for safe and attentive driving. Please refrain from operating the touchscreen whilst driving.
**SUBARU CORE TECHNOLOGY**

Subaru’s core technologies identify the Subaru brand and give you the unique driving feel you can find only in a Subaru. These core systems allow Subaru vehicles to live up to its standards in performance, comfort, safety, and reliability whilst keeping its promise to deliver enjoyment and peace of mind to all passengers.

01 **SUBARU BOXER ENGINE**

A boxer engine, or a horizontally opposed engine, is an engine configuration in which its pistons move toward each other in a horizontal direction. Subaru has been solely committed to the SUBARU BOXER engine for over 50 years for its many advantages over other engine types, providing durability and reliable performance in vehicles.

02 **SYMMETRICAL ALL-WHEEL DRIVE (AWD)**

Subaru’s Symmetrical AWD distributes power to all wheels for better traction on wet and slippery roads. Laid out in a horizontally symmetrical plane, this system helps to distribute weight or torque to the wheels or axles. This improves the stability of the vehicle and prevents any of the wheels from spinning, even on slippery or uneven surfaces. The all-wheel drive system allows the vehicle to maintain traction and control even in adverse weather conditions.

03 **LINEARTRONIC + ACTIVE TORQUE SPLIT AWD**

Lineartronic adjusts to any ratio in its range for smooth and stepless gear changes that keep the engine in its most efficient range for fuel efficiency. It is paired with Subaru’s active torque split AWD system. Its default torque of 60% front & 40% rear is adjusted up to a 50/50 split in response to real-time traction conditions.

04 **SUBARU GLOBAL PLATFORM**

The Subaru Global Platform (SGP) is the underlying platform that will underpin the next generation of Subaru vehicles. Enhancing all-around safety and performance, it goes beyond better performance to offer a driving that you can only find in a Subaru. It’s the future of Subaru and it drives more enjoyment and peace of mind to all drivers and passengers.

1. **More Fun to Drive**

More responsive handling allows the driver to steer the car more efficiently. This system enhances the vehicle’s stability and responsiveness, providing better control and handling, even in challenging driving conditions.

2. **Ride Comfort**

Suspension improvements and a highly rigid chassis allow for a comfortable and enjoyable ride. Even on long trips or over uneven surfaces, the vehicle remains stable and comfortable.

3. **Comfortable Cabin Space**

Unpleasant vibrations or noise have been minimised to ensure all passengers enjoy the ride. Improvements in chassis rigidity, suspension, and stabilisers efficiently absorb shocks from the road and hide uneven surfaces, allowing more comfort and less fatigue on long rides.

**SUBARU BOXER ENGINE**

Subaru’s core technologies identify the Subaru brand and give you the unique driving feel you can find only in a Subaru. These core systems allow Subaru vehicles to live up to its standards in performance, comfort, safety, and reliability whilst keeping its promise to deliver enjoyment and peace of mind to all passengers.

01 **SUBARU BOXER ENGINE**

A boxer engine, or a horizontally opposed engine, is an engine configuration in which its pistons move toward each other in a horizontal direction. Subaru has been solely committed to the SUBARU BOXER engine for over 50 years for its many advantages over other engine types, providing durability and reliable performance in vehicles.

02 **SYMMETRICAL ALL-WHEEL DRIVE (AWD)**

Subaru’s Symmetrical AWD distributes power to all wheels for better traction on wet and slippery roads. Laid out in a horizontally symmetrical plane, this system helps to distribute weight or torque to the wheels or axles. This improves the stability of the vehicle and prevents any of the wheels from spinning, even on slippery or uneven surfaces. The all-wheel drive system allows the vehicle to maintain traction and control even in adverse weather conditions.

03 **LINEARTRONIC + ACTIVE TORQUE SPLIT AWD**

Lineartronic adjusts to any ratio in its range for smooth and stepless gear changes that keep the engine in its most efficient range for fuel efficiency. It is paired with Subaru’s active torque split AWD system. Its default torque of 60% front & 40% rear is adjusted up to a 50/50 split in response to real-time traction conditions.

04 **SUBARU GLOBAL PLATFORM**

The Subaru Global Platform (SGP) is the underlying platform that will underpin the next generation of Subaru vehicles. Enhancing all-around safety and performance, it goes beyond better performance to offer a driving that you can only find in a Subaru. It’s the future of Subaru and it drives more enjoyment and peace of mind to all drivers and passengers.

1. **More Fun to Drive**

More responsive handling allows the driver to steer the car more efficiently. This system enhances the vehicle’s stability and responsiveness, providing better control and handling, even in challenging driving conditions.

2. **Ride Comfort**

Suspension improvements and a highly rigid chassis allow for a comfortable and enjoyable ride. Even on long trips or over uneven surfaces, the vehicle remains stable and comfortable.

3. **Comfortable Cabin Space**

Unpleasant vibrations or noise have been minimised to ensure all passengers enjoy the ride. Improvements in chassis rigidity, suspension, and stabilisers efficiently absorb shocks from the road and hide uneven surfaces, allowing more comfort and less fatigue on long rides.

**SUBARU BOXER ENGINE**

Subaru’s core technologies identify the Subaru brand and give you the unique driving feel you can find only in a Subaru. These core systems allow Subaru vehicles to live up to its standards in performance, comfort, safety, and reliability whilst keeping its promise to deliver enjoyment and peace of mind to all passengers.

01 **SUBARU BOXER ENGINE**

A boxer engine, or a horizontally opposed engine, is an engine configuration in which its pistons move toward each other in a horizontal direction. Subaru has been solely committed to the SUBARU BOXER engine for over 50 years for its many advantages over other engine types, providing durability and reliable performance in vehicles.

02 **SYMMETRICAL ALL-WHEEL DRIVE (AWD)**

Subaru’s Symmetrical AWD distributes power to all wheels for better traction on wet and slippery roads. Laid out in a horizontally symmetrical plane, this system helps to distribute weight or torque to the wheels or axles. This improves the stability of the vehicle and prevents any of the wheels from spinning, even on slippery or uneven surfaces. The all-wheel drive system allows the vehicle to maintain traction and control even in adverse weather conditions.

03 **LINEARTRONIC + ACTIVE TORQUE SPLIT AWD**

Lineartronic adjusts to any ratio in its range for smooth and stepless gear changes that keep the engine in its most efficient range for fuel efficiency. It is paired with Subaru’s active torque split AWD system. Its default torque of 60% front & 40% rear is adjusted up to a 50/50 split in response to real-time traction conditions.

04 **SUBARU GLOBAL PLATFORM**

The Subaru Global Platform (SGP) is the underlying platform that will underpin the next generation of Subaru vehicles. Enhancing all-around safety and performance, it goes beyond better performance to offer a driving that you can only find in a Subaru. It’s the future of Subaru and it drives more enjoyment and peace of mind to all drivers and passengers.

1. **More Fun to Drive**

More responsive handling allows the driver to steer the car more efficiently. This system enhances the vehicle’s stability and responsiveness, providing better control and handling, even in challenging driving conditions.

2. **Ride Comfort**

Suspension improvements and a highly rigid chassis allow for a comfortable and enjoyable ride. Even on long trips or over uneven surfaces, the vehicle remains stable and comfortable.

3. **Comfortable Cabin Space**

Unpleasant vibrations or noise have been minimised to ensure all passengers enjoy the ride. Improvements in chassis rigidity, suspension, and stabilisers efficiently absorb shocks from the road and hide uneven surfaces, allowing more comfort and less fatigue on long rides.
The driver is always responsible for safe and attentive driving and observance of traffic regulations. Please do not depend solely on the Advanced Safety Package features for safe driving. There are limitations to the features of this system. See Owner’s Manual for complete details on system operation and limitations. Please ask your retailer for more details.

WHIPLASH-MITIGATING FRONT SEATS
- Designed to enhance comfort and help the driver feel more planted for more control, these seats can also help reduce the possibility of whiplash resulting from certain types of collisions.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)*3 AIRBAGS
- Front SRS*3 airbags, front side SRS*3 airbags, curtain SRS*3 airbags, and a knee SRS*3 airbag come standard on the all-new SUBARU XV to give all passengers a higher level of protection in the event of a collision.

LOCKING-TONGUE SEATBELTS
- Designed to enhance comfort and help the driver feel more planted for more control, these seats can also help reduce the possibility of whiplash resulting from certain types of collisions.

RING-SHAPED REINFORCEMENT FRAME
- The ring-shaped reinforcement frame makes better use of high-tensile steel panels and rear-Nose impacts are distributed for more efficient energy absorption from impacts in all directions.

HAZARD AVOIDANCE
- Made possible by the SGP, the lower centre of gravity design, enhanced suspension system, and rigidity improvements provide a vehicle that responds immediately when evasive actions are taken, helping avoid obstacles on the road.

VEHICLE DYNAMICS CONTROL SYSTEM & ACTIVE TORQUE VECTORING
- High Beam Assist increases visibility and safety when driving at night by toggling the high beams on and off automatically depending on driving conditions.

ADVANCED SAFETY PACKAGE: ADVANCED VEHICLE I SENSORS
- Sensors placed around the vehicle detect if objects are in your path that you may not have noticed. It also warns of potential collision danger whilst driving in reverse into a street with a parked car.

POSITIVE SAFETY
- The SGP's advancements throughout the chassis—higher rigidity, higher strength, lighter weight, better rollover resistance and improved steering—particularly benefit these safety systems.
At Subaru, we believe in ALL-AROUND SAFETY, and an important part of that is pre-collision safety, making every effort to ensure an accident never happens. That’s why we created EyeSight®, Subaru’s cutting-edge driving support system. Like a second pair of eyes for the road ahead, EyeSight uses two stereo cameras to capture three-dimensional colour images with excellent image recognition, nearly as capable as the human eye.

Using images from both cameras to determine the shape, speed, and distance, it not only detects vehicles but also motorcycles, bikes, pedestrians. When potential danger is detected, it warns the driver and even applies the brakes on your vehicle to help avoid an accident.

That’s why we created EyeSight®, Subaru’s cutting-edge driving support system. Like a second pair of eyes for the road ahead, EyeSight uses two stereo cameras to capture three-dimensional colour images with excellent image recognition, nearly as capable as the human eye. Using images from both cameras to determine the shape, speed, and distance, it not only detects vehicles but also motorcycles, bikes, pedestrians. When potential danger is detected, it warns the driver and even applies the brakes on your vehicle to help avoid an accident.

**ADAPTIVE CRUISE CONTROL**

EyeSight® doesn’t only maintain the speed the driver sets as traditional cruise control does. When it senses a vehicle in front, Adaptive Cruise Control adjusts the speed to keep a safe distance from the lead vehicle by monitoring the distance and the difference of the speed. It adjusts the engine, transmission, and brakes to keep the speed approximately the same as the lead vehicle’s speed. Not only is it a convenient feature for highway driving, but it can help keep a safe distance from other vehicles. It’s designed for use on freeways, highways, and similar roads.

**PRE-COLLISION BRAKING SYSTEM**

When EyeSight sees an obstacle in front of you and you put the vehicle in Drive instead of Reverse, Pre-Collision Throttle Management sounds several short beeps, turns on a flashing indicator and cuts the engine output to help you avoid a frontal collision. When it senses an impending collision with a vehicle or other obstacle in front, the Pre-Collision Braking System can warn the driver with a buzzer and light on your dash. If the driver still does not take evasive action to avoid the collision, the system can automatically apply the brakes to reduce any impact or, if possible, prevent the collision.

**LEAD VEHICLE START ALERT**

When you’re at a stop and EyeSight senses that traffic has started moving again, Lead Vehicle Start Alert prompts the driver to take action with a buzzer and flashing indicator.

**LANE SWAY AND DEPARTURE WARNING**

When you are distracted by fatigue and are wandering or drifting in a lane, Lane Sway Warning helps you stay alert with a buzzer and a flashing indicator. However, Lane Sway Warning only activates at speeds of approximately 60 km/h or more. When travelling at speeds of approximately 50 km/h or more and you accidentally drift to the edge of your lane and begin to depart your lane without signaling, Lane Departure Warning warns you with a buzzer and a flashing indicator before you leave your lane.

**PRE-COLLISION THROTTLE MANAGEMENT**

Pre-Collision Throttle Management may not operate optimally under all driving conditions. The driver is always responsible for safe and attentive driving and observance of traffic regulations. System effectiveness depends on many factors such as vehicle maintenance, weather, and road conditions. See Owner’s Manual for complete details on system operation and limitations for EyeSight including functions in this brochure.

**PRE-COLLISION BRAKING SYSTEM**

Pre-Collision Braking System may not work in all situations. Depending on the speed difference from objects, the object’s height, and other conditions, every situation may not meet the necessary conditions for EyeSight to work optimally.
**SEAT MATERIAL**

- **GREY LEATHER** (2.0i / 1.6i)
- **GREY FABRIC** (2.0i / 1.6i)

---

**EXTERIOR COLOURS**

- **CRYSTAL WHITE PEARL**
- **CRYSTAL BLACK SILICA**
- **ICE SILVER METALLIC**
- **DARK GREY METALLIC**
- **PURE RED**
- **SUNSHINE ORANGE**
- **QUARTZ BLUE PEARL**
- **DARK BLUE PEARL**
- **CRASTAL BLACK SILICA**
- **COOL GREY KHAKI**

---

**FEATURES**

- **01. Steering Responsive Headlights (SRH)**
- **02. 18-inch Aluminium-alloy Wheels**
- **03. Roof Rails**
- **04. Rear Fog Lamps**
- **05. 17-inch Aluminium-alloy Wheels**
- **06. Dual-zone Automatic Air-conditioning System**
- **07. Keyless Access and Push-button Start System**
- **08. USB and Auxiliary Audio Inputs**

---

**01. Steering Responsive Headlights (SRH)**
After rounding a curve or driving straight, the illumination direction of the headlights moves left or right according to the steering wheel to ensure visibility.

**02. 18-inch Aluminium-alloy Wheels**
You’ll immediately tell the all-new SUBARU XV apart from any other vehicle by its fun new wheel design. These durable and lightweight wheels show the SUBARU XV’s powerful, sporty, and unique personality.

**03. Roof Rails**
Ready to support your life’s accessories, roof rails on the all-new SUBARU XV add more utility to your enjoyable drive.

**04. Rear Fog Lamps**
Increase your car’s visibility to vehicles behind in poor weather. The rear fog lamps are installed in the bumper and protected by claddings, exhibiting the stylish and powerful look of the all-new SUBARU XV.

**05. 17-inch Aluminium-alloy Wheels**
These stylish wheels are durable and lightweight, and enhance the all-new SUBARU XV’s functionality and unique personality.

**06. Dual-zone Automatic Air-conditioning System**
The redesigned air-conditioning system distributes air efficiently and silently with improved wind directional flow for a more comfortable cabin in any weather.

**07. Keyless Access and Push-button Start System**
Your key fob gives you easy keyless access into your vehicle and allows you to start the engine with a simple push of the start button.

**08. USB and Auxiliary Audio Inputs**
Plug your iPhone® or other music device into the standard AUX and USB input jacks, and you can play music through the audio system of the all-new SUBARU XV. Plus, with USB input trims, you can charge two devices at once.

---

*1 Optional.
*2 Requires purchase of an attachment to load cargo on the roof rails.
*3 Apple, iPhone, and iPod are registered trademarks of Apple Inc.
LINEUP

SUBARU XV 2.0i-S / 2.0i-S EyeSight
DIMENSIONS: L x W x H: 4465 x 1800 x 1615* mm
ENGINE: Horizontally opposed, 4-cylinder, DOHC 16-valve petrol direct injection
CAPACITY: 1995 cc
MAX OUTPUT: 115 kW (156 PS) / 6,000 rpm
MAX TORQUE: 196 Nm (20.0 kgfm) / 4,000 rpm
TRANSMISSION: Lineartronic, AWD

SUBARU XV 2.0i
DIMENSIONS: L x W x H: 4465 x 1800 x 1615* mm
ENGINE: Horizontally opposed, 4-cylinder, DOHC 16-valve petrol direct injection
CAPACITY: 1995 cc
MAX OUTPUT: 115 kW (156 PS) / 6,000 rpm
MAX TORQUE: 196 Nm (20.0 kgfm) / 4,000 rpm
TRANSMISSION: Lineartronic, AWD

SUBARU XV 1.6i-S / 1.6i-S EyeSight
DIMENSIONS: L x W x H: 4465 x 1800 x 1615* mm
ENGINE: Horizontally opposed, 4-cylinder, DOHC 16-valve petrol
CAPACITY: 1600 cc
MAX OUTPUT: 84 kW (114 PS) / 6,200 rpm
MAX TORQUE: 150 Nm (15.3 kgfm) / 3,600 rpm
TRANSMISSION: Lineartronic, AWD

SUBARU XV 1.6i
DIMENSIONS: L x W x H: 4465 x 1800 x 1595 mm
ENGINE: Horizontally opposed, 4-cylinder, DOHC 16-valve petrol
CAPACITY: 1600 cc
MAX OUTPUT: 84 kW (114 PS) / 6,200 rpm
MAX TORQUE: 150 Nm (15.3 kgfm) / 3,600 rpm
TRANSMISSION: Lineartronic, AWD
PERSONALISE YOUR RIDE.

While every SUBARU XV comes generously equipped, Subaru accessories are the perfect way to take your Subaru to the next level. With a wide range of options, enhance functionality, personalize your SUBARU XV, and express your individuality. To provide the same high-quality as your Subaru vehicle, please check your local dealer for the accessory brochure or visit your nearest Subaru retailer.

SUBARU INTERACTIVE EXPERIENCE

To help you explore all things Subaru, we offer various digital materials with a wide range of exciting, interactive content such as 360-views and videos.

eBrochure
Experience the Subaru dynamic architecture for more details, including videos, photos and more. subaru-global.com/e-brochure

Web Homepage
Visit our global homepage for complete information and news about Subaru and our vehicles. subaru-global.com

YoutTube
Subscribe to our channel to see all the latest videos and join the conversation about Subaru.

Facebook
Stay connected to our diverse Subaru community and be the first to hear the latest news directly from Subaru.

To help you explore all things Subaru, we offer various digital materials with a wide range of exciting, interactive content such as 360-views and videos.

SUBARU INTERACTIVE EXPERIENCE

Dimensions are measured in accordance with standard measurement of SUBARU CORPORATION. SUBARU CORPORATION reserves the right to change specifications and equipment without notice. Dimensions and all other specifications are designed and the accessory items are subject to local conditions and requirements. Please consult your local dealer for details of any changes that might be required for your area.

Not all features, options, or packages are available for all models and regions. See your specification sheet for availability. Please contact your local authorized Subaru retailer for more details.

ACCESSORIES

01. Front Cover Insert (Black/Orange)
02. Door Visor
03. Center Console Tray
04. Splash Board (Front/Rear)
05. Centre Console Tray
06. STI Shift Knob CVT

Please check your local Subaru retailer for applicability.

01. Front Grille Winglet (Black/Orange)
02. Door Visor
03. Cargo Step Panel (Stainless)
04. Splash Board (Front/Rear)
05. Center Console Tray
06. STI Shift Knob CVT

Please check your local Subaru retailer for applicability.

DIMENSIONS

Dimensions are measured in accordance with standard measurement of SUBARU CORPORATION. SUBARU CORPORATION reserves the right to change specifications and equipment without notice. Dimensions and all other specifications are designed and the accessory items are subject to local conditions and requirements. Please consult your local dealer for details of any changes that might be required for your area.

Not all features, options, or packages are available for all models and regions. See your specification sheet for availability. Please contact your local authorized Subaru retailer for more details.