









PRODUCT INFORMATION				
FRAME SIZES	-	M (50cm)	S (45cm) - M (50cm) - L (55cm)	M (44cm) - L (48cm)
WEIGHT	Approx. 24 Kg	Approx. 27 Kg	Approx. 28kg	Approx. 25kg
MAXIMUM BIKE & RIDER WEIGHT	150kg	120Kg	120kg	120kg
PAINTING	Powder Painting Scratch Resistant With Matte Varnish	Powder Painting Scratch Resistant with Matte	Powder Painting Scratch Resistant with Matte or Glossy Varnish	Powder Painting Scratch Resistant with Matte or Glossy Varnish
COLOUR(s)	Moon Grey with matte finish Desert Sand with matte finish	Black Suit with Matte Finish		White Star with glossy varnish Happy Blue with matte finish Black Suit with matte finish
FRAME				
FRAME	Aluminium High Step	Aluminium High Step	Aluminium Low Step	Aluminium Low Step
SUSPENSION	-	Sr SUNTOUR Mobie E25 Air 75mm	-	-
FORK	Rigid Alloy 28"	-	Rigid Alloy 28"	Rigid Alloy 28"
HEADSET	SHIS 1-1/8"	FSA 1.5" to 1-1/8" Tapered SHIS	FSA 1.5" to 1-1/8" Tapered SHIS	Acros 1.5" to 1-1/8" Tapered SHIS
E-BIKE SYSTEM	·	, ,	, ,	, ,
	DAFANO III/ OOD Daarii Miraal / Falisa	PROCE PRIME C ALLICONIC	DDOCE DDIVE O ALLIEON	CHINANIO STERS EFOOD (ONL)
DRIVE UNIT BATTERY	BAFANG H400B Rear Wheel 45Nm 360Wh 36V - Integrated on Downtube		BROSE DRIVE C ALU 50Nm 504Wh 36V - Integrated on Downtube	
Bullet	- Non Removable	Downtube - Removable	- Removable	downtube - Removable
RANGE	40km to 100km	40km to 100km	40km to 100km	40km to 100km
BATTERY LOCK KEY	2A E house total above the	Yes	Yes	Yes
CHARGER	2A - 5 hours total charge time	4A - 3 to 6 hours total charge time	2A - 7 hours total charge time	2A - 6 hours total charge time
DISPLAY	BAFANG DP.C11	BROSE Allround	BROSE Allround	SHIMANO SC-E6100
СОСКРІТ				
HANDLEBAR	AL 660mm / 31.8mm (Straight)	AL 660mm / 31.8mm (Straight)	AL 660mm / 31.8mm (Curved)	AL 660mm / 31.8mm (Curved)
STEM	AL 100mm - 31.8mm - 7º	AL 90mm - 31.8mm - adjustable 0- 90°	AL 90mm - 31.8mm - adjustable 0- 90°	AL 90mm - 31.8mm - adjustable 0- 90°
GRIPS	HERRMANS DD36 Ergonomic	ERGON GA30	ERGON GP1	HERRMANS DD36
WHEELSET				
TYRES	CONTINENTAL Double Fighter III 29''x2,0''	CONTINENTAL Double Fighter III 29''x2,0''	CONTINENTAL Contact Cruiser 28"x2,2"	CONTINENTAL Ride Cruiser 28"x2,0"
WHEEL SIZE	29''	29''	28''	28"
RIMS	Alloy Double Wall 25mm	Alloy Double Wall 25mm	Alloy Double Wall 25mm	Alloy Double Wall 25mm
SPOKES	Stainless Steel	Black Stainless Steel	Black Stainless Steel	Black Stainless Steel
FRONT HUB	SHIMANO HB-TX506 9x100mm QR	SHIMANO HB-MT400 100 Thru Axle 15mm	SHIMANO HB-MT400 100 Thru-axle 15mm	SHIMANO HB-MT400 100 Thru-axle 15mm
REAR HUB	BAFANG H400B 135mm	SHIMANO Deore M6000 135mm	SHIMANO Nexus SG-C6001-8D	SHIMAN0 FH-TX505 135mm
DRIVETRAIN & BRAKES				
BRAKES	ALHONGA Hydraulic HJ-HT474	SHIMANO Hydraulic MT200	SHIMANO Hydraulic MT200	SHIMANO Hydraulic MT200
BRAKE ROTOR - Front	ALHONGA HJ-DXR1806 180MM	SHIMANO SM-RT10 180mm	SHIMANO SM-RT10 180mm	SHIMANO SM-RT 180mm
BRAKE ROTOR - Rear		CUINANIO CNA DTAO 100		
REAR DERRAILEUR	ALHONGA HJ-DXR1806 180MM	SHIMANO SM-RT10 180mm	SHIMANO SM-RT10 180mm	SHIMANO SM-RT 160mm
	ALHONGA HJ-DXR1806 180MM SHIMANO Altus 9S	SHIMANU SM-RT 10 180mm SHIMANO Deore 10S	SHIMANO SM-RT10 180mm	SHIMANO SM-RT 160mm SHIMANO Altus 9S
CASSETTE			SHIMANO SM-RT10 180mm - -	
CASSETTE SHIFTERS	SHIMANO Altus 9S	SHIMANO Deore 10S	-	SHIMANO Altus 9S
	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T		SHIMANO Altus 9S SHIMANO Altus 9S 11-36T
SHIFTERS	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S	- - SHIMANO Nexus 8	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S
SHIFTERS CHAINRING	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T	- SHIMANO Nexus 8 MIRANDA BCD 104 38T	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T
SHIFTERS CHAINRING CRANK	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175
SHIFTERS CHAINRING CRANK CHAIN	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-H653
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-H653
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg)	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg)	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg)	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg)
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector ATRANVELO Dux	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector ATRANVELO Dux	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S 11-36T SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector ATRANVELO Dux	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector ATRANVELO Dux SKS	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S 11-36T SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS
SHIFTERS CHAINRING CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL BOTTLE CAGE	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector ATRANVELO Dux SKS -	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector ATRANVELO Dux SKS Yes	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S 11-36T SHIMANO SN-CRE50 38T SHIMANO SN-CRE50 38T SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector ATRANVELO Dux SKS - Not included. Sold separately.	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector ATRANVELO Dux SKS Yes Not included. Sold separately.	- SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately.	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Frame not prepared. SELLE ROYAL Rio Gel
SHIFTERS CHAINRING CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL BOTTLE CAGE SADDLE SEAT POST	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector ATRANVELO Dux SKS - Not included. Sold separately. SELLE ROYAL Essenza Moderate Gel AL Black 300mm 31,6mm/15mm	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Essenza Moderate Gel AL Black 350mm 31,6mm/15mm	SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Rio Gel AL Black 350mm 31,6mm/15mm	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S 11-36T SHIMANO SN-CRE50 38T SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Frame not prepared. SELLE ROYAL Rio Gel AL Black 350mm 30,9mm/15mm
SHIFTERS CHAINRING CRANK CHAIN CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL BOTTLE CAGE SADDLE	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S MIRANDA ChainFlow BCD104 38T MIRANDA JIS 170 SHIMANO CN-HG53 Yes - MIRANDA ATRANVELO City AVS (max.: 25Kg) AXA Ecoline 15 with reflector AXA Slim with reflector ATRANVELO Dux SKS - Not included. Sold separately. SELLE ROYAL Essenza Moderate Gel	SHIMANO Deore 10S SHIMANO Deore 10S 11-42T SHIMANO Deore 10S 11-42T SHIMANO Deore 10S SAMOX BCD 104 36T SAMOX Shape 175/0 SHIMANO CN-E6090 10S E-Bike Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector AXA Slim with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Essenza Moderate Gel	- SHIMANO Nexus 8 MIRANDA BCD 104 38T SAMOX Shape 175/0 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Rio Gel	SHIMANO Altus 9S SHIMANO Altus 9S 11-36T SHIMANO Altus 9S SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Frame not prepared. SELLE ROYAL Rio Gel

^{*} We reserve the right to modify product information that appears on this website without prior notice, including equipment, specifications, models, colors and materials.