

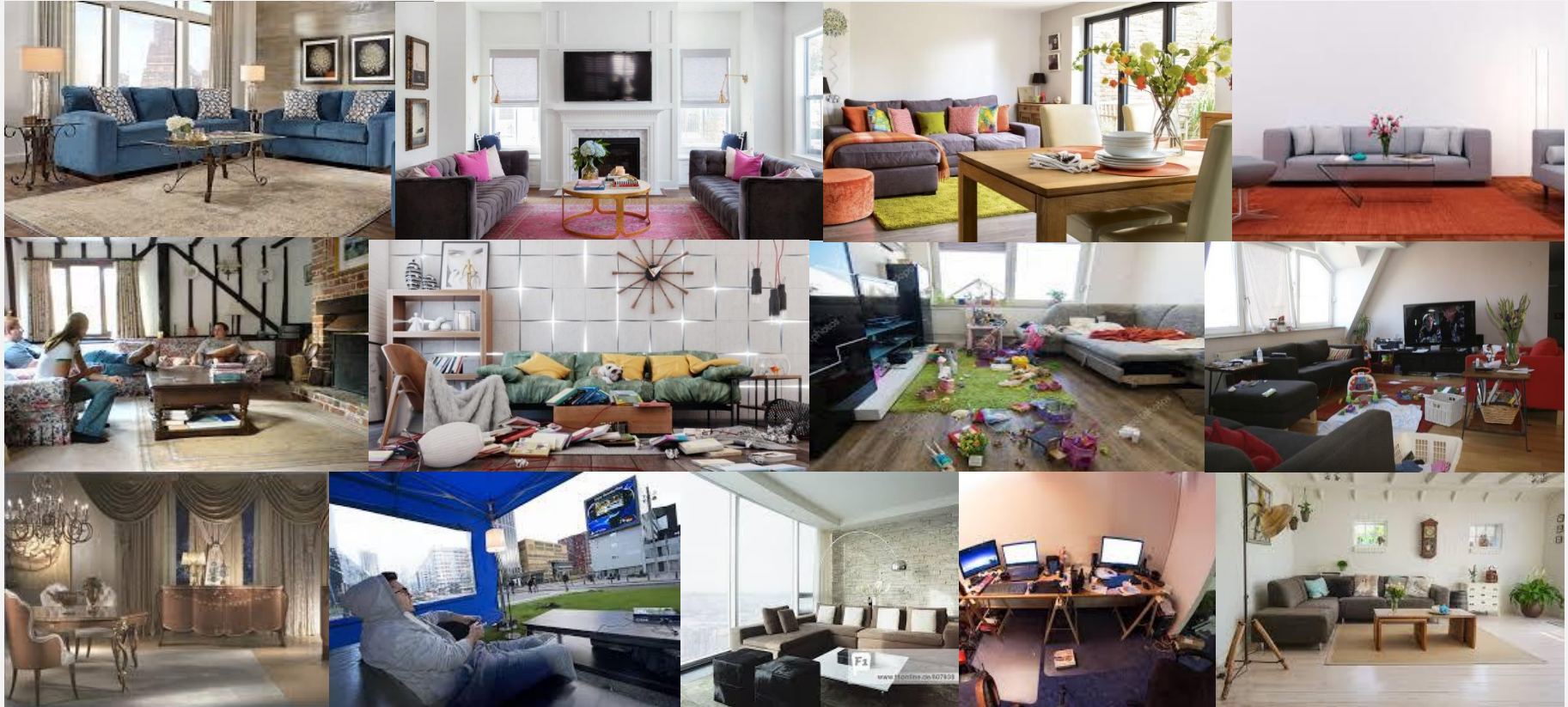


gestigon
a Valeo brand

AutonomousTech Conference, Tel Aviv, Oct 31/Nov 1, 2018

Mobile Livingroom 2.0

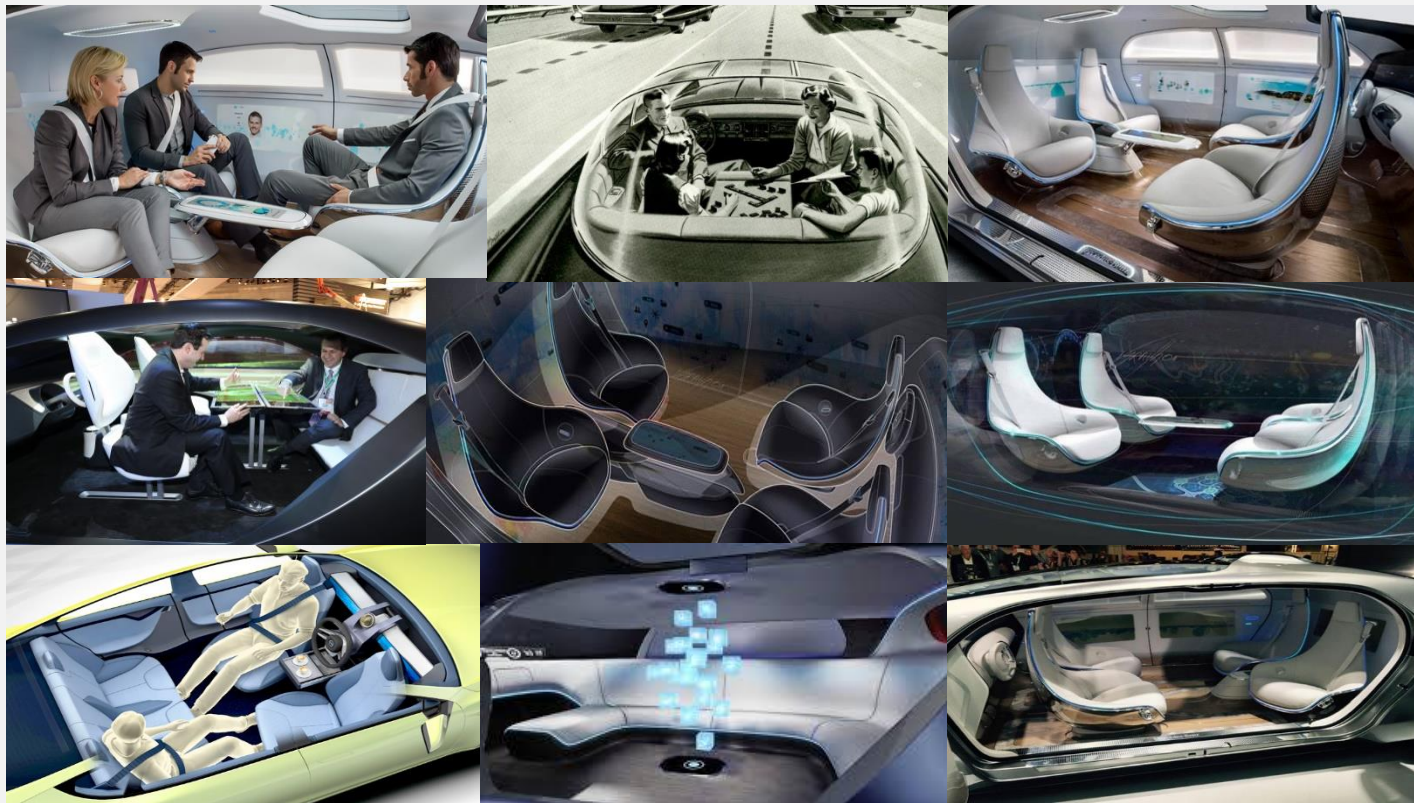
Styles of Living differ



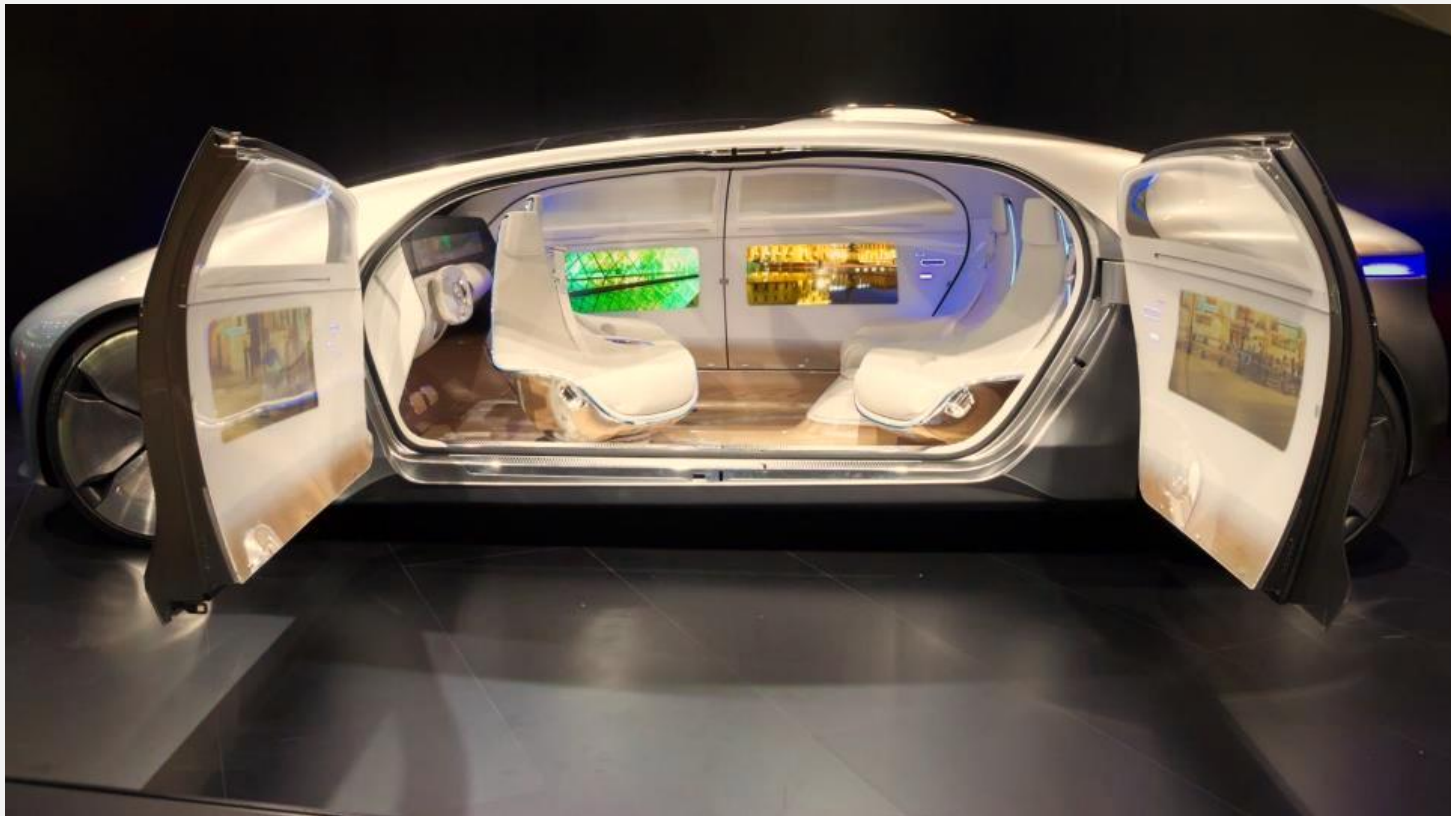
Mobility is Standardized



This will change



Concepts are rethought



Work Partner Home Eat Music
Friends Movies Kids Drink
Gaming Family Joga Reading
Conversation Facetime Politics
Sex Food Education Religion
Drive Relaxing Sports Travel
Write Non-Profit Arts Discussions
Sleep Draw Experience Call

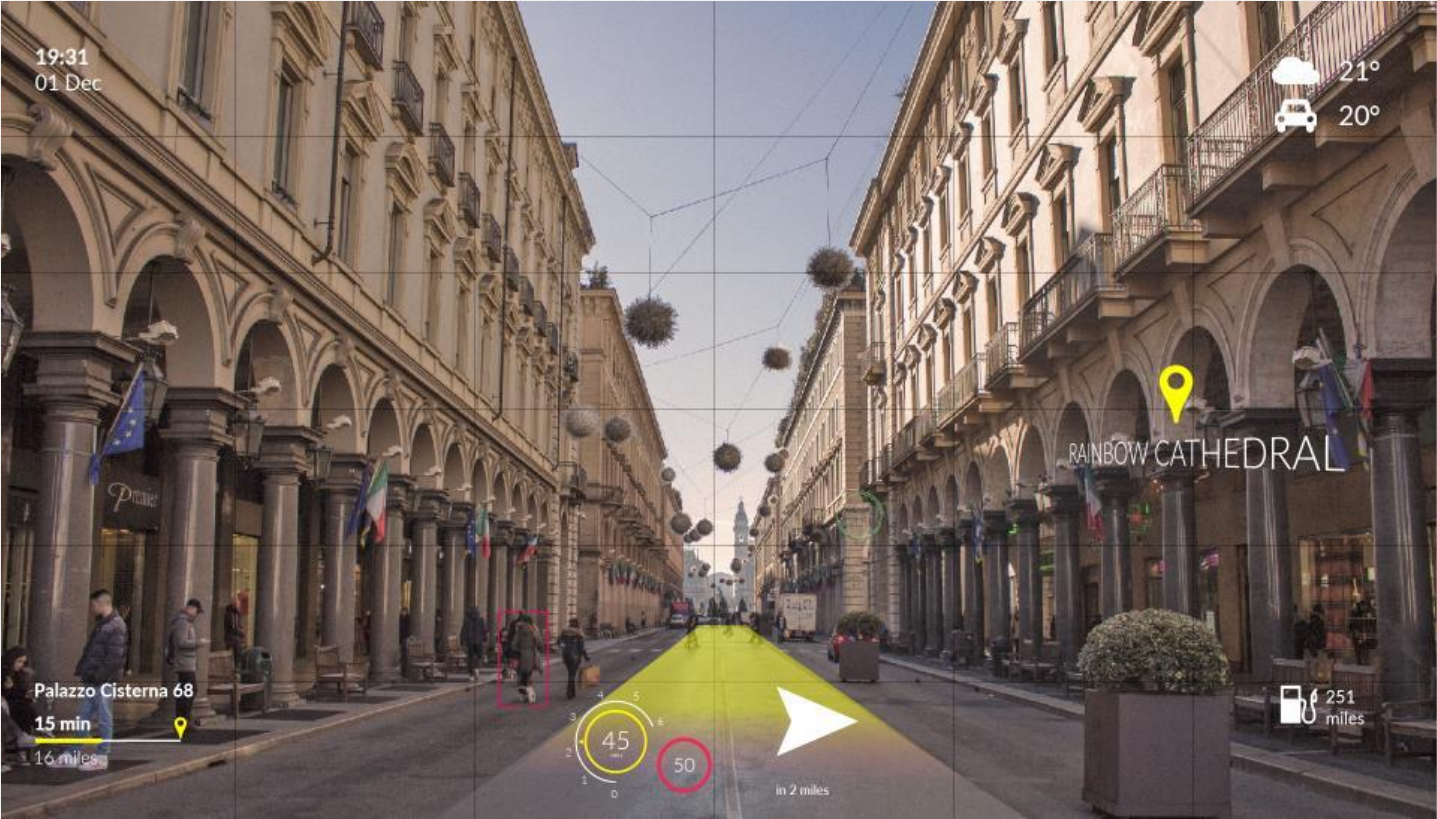
Entertainment



Work



Location



Safety



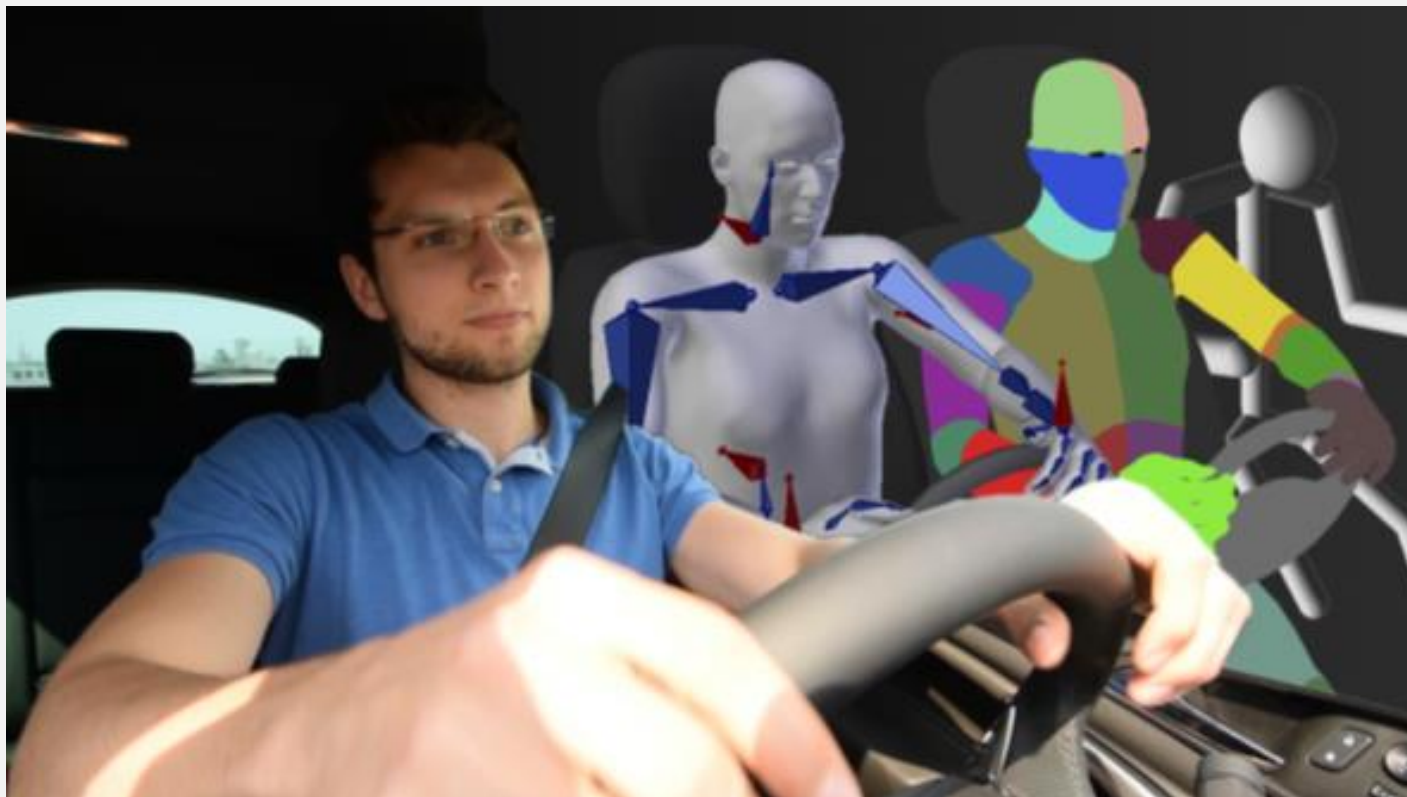
Drive Information





Good User Experience
= Natural Interaction

Who & Where?



Pick & Interact

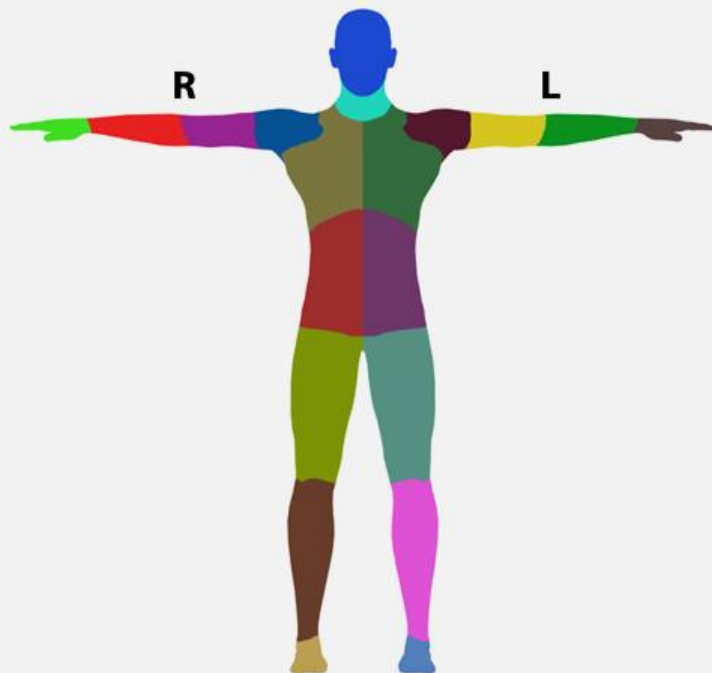


Styles of Living differ



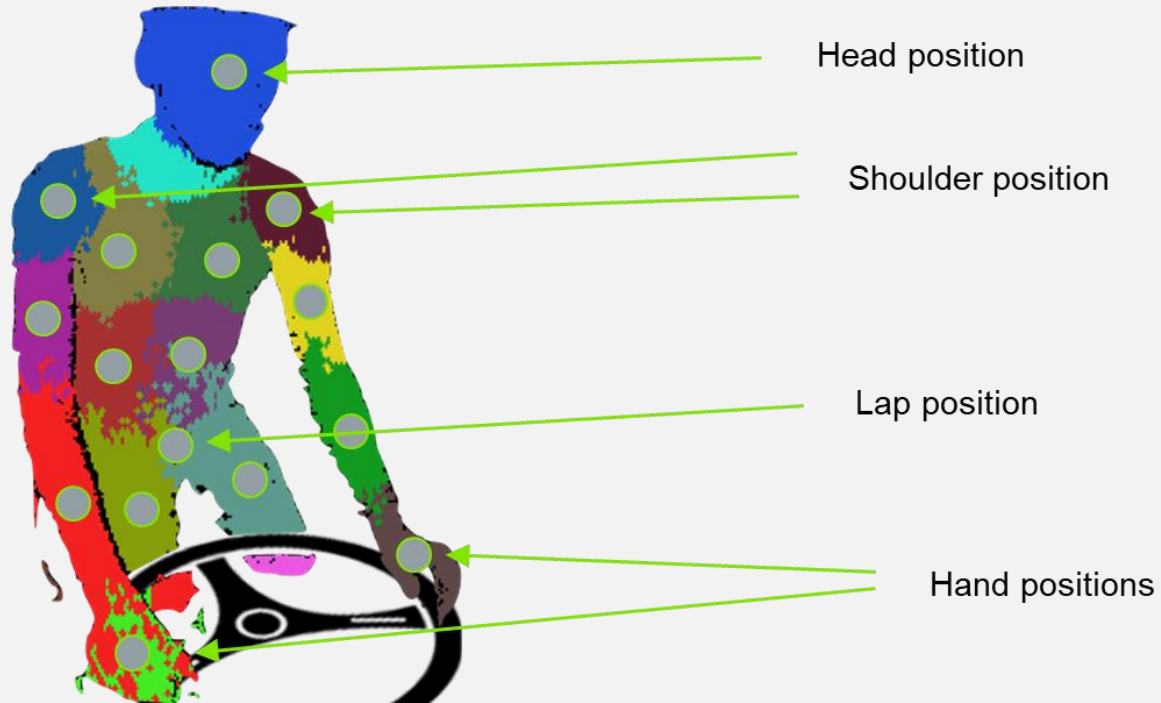


Body Part Labeling

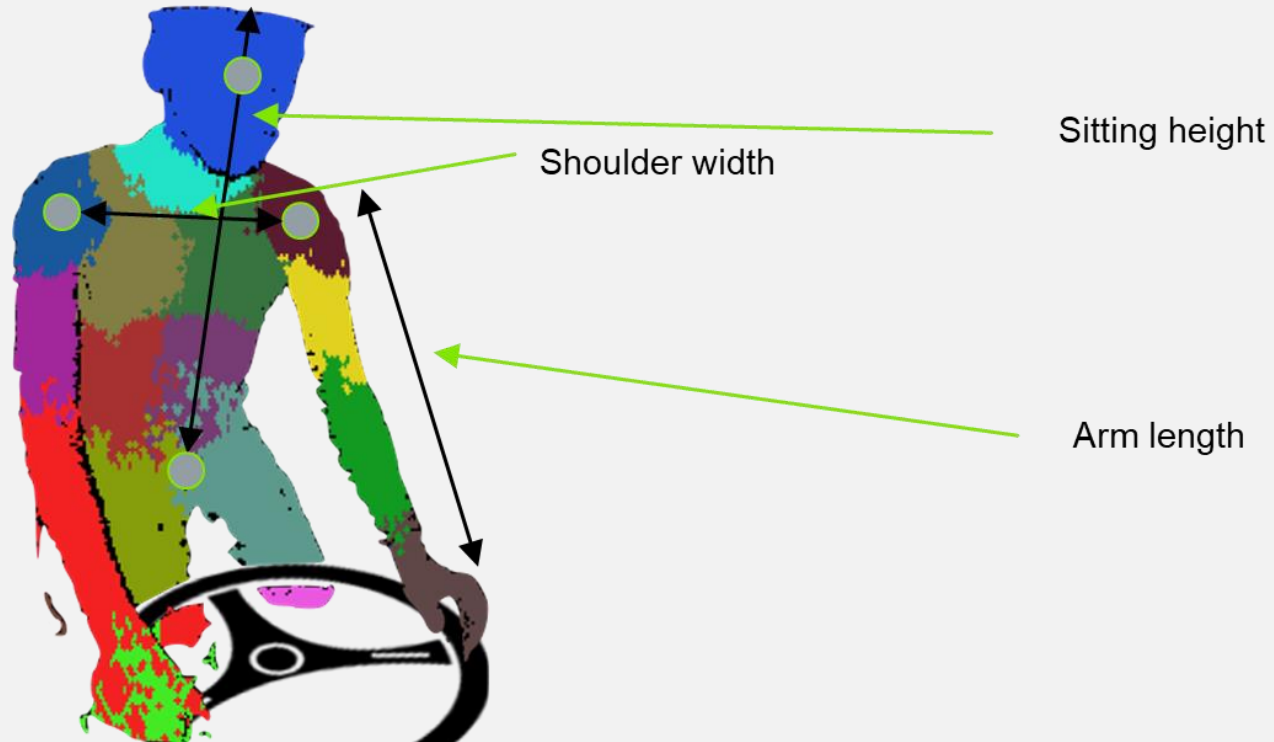


Labels	R	G	B
Head	30	79	219
Neck	33	225	199
Clavicle-L	92	25	50
Humerus-L	225	209	33
Radius-L	13	154	33
Hand-L	95	71	71
Torso-Up-L	56	116	65
Torso-Down-L	118	60	115
Femur-L	93	154	140
Tibia-L	234	88	225
Foot-L	90	136	198
Clavicle-R	7	88	157
Humerus-R	162	39	155
Radius-R	243	35	35
Hand-R	69	234	37
Torso-Up-R	131	126	68
Torso-Down-R	167	50	50
Femur-R	134	157	7
Tibia-R	111	65	47
Foot-R	198	169	90
Car-Seat	42	42	42

3D Body Joints Determination



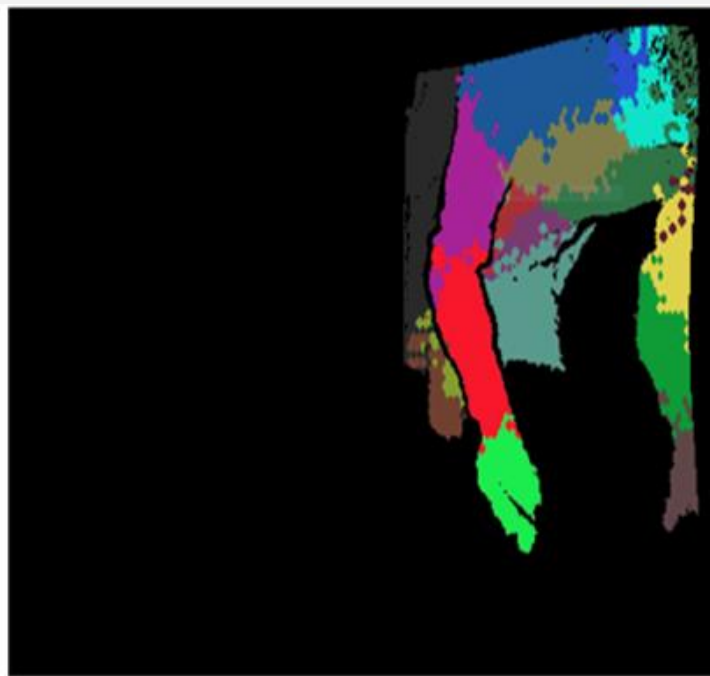
Anthropometry Determination



Oyster Example



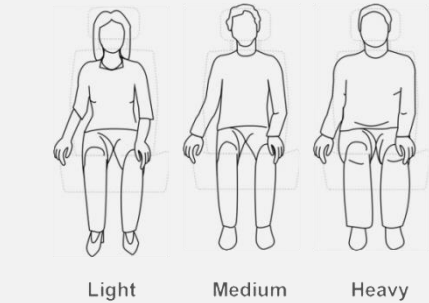
Confidence image



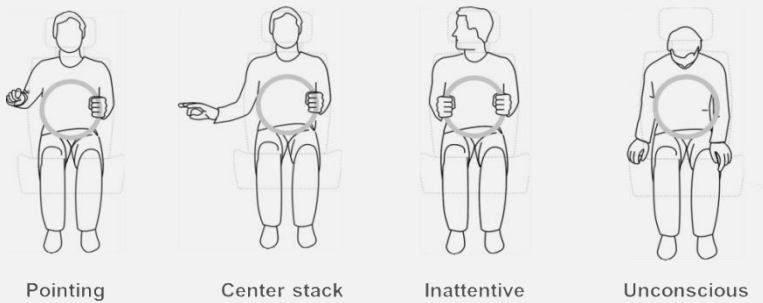
OYSTER output

Classifications

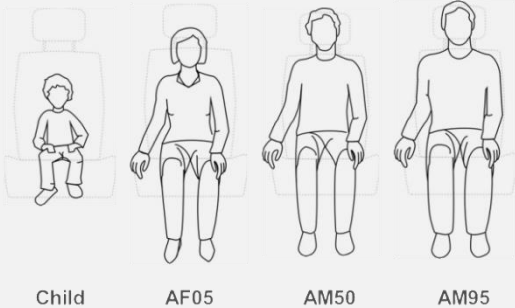
Body weight classification for airbag deployment



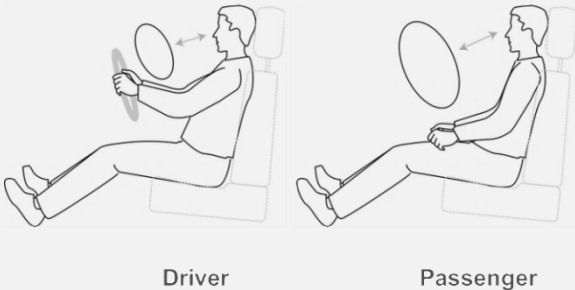
Driver monitoring



Body type classification for airbag deployment



Body-Airbag distance for airbag deployment



Validate and test Seat Occupancy

- ▶ Test protocol according to SOTIF
- ▶ Child seats/person distribution is huge
- ▶ Mix and ratio of synthetic and real data







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