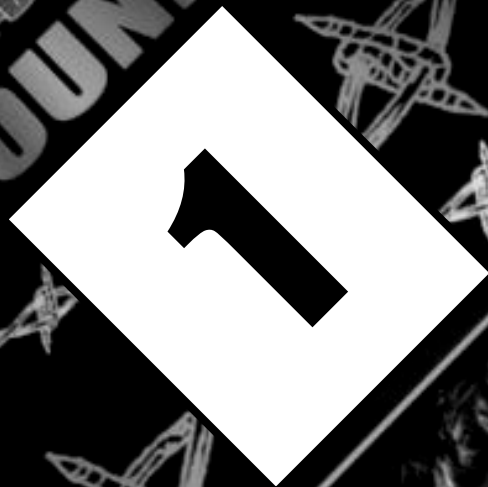


ARPRO®



visibly safe

UFC
MMA
ROUND



weight vs. safety



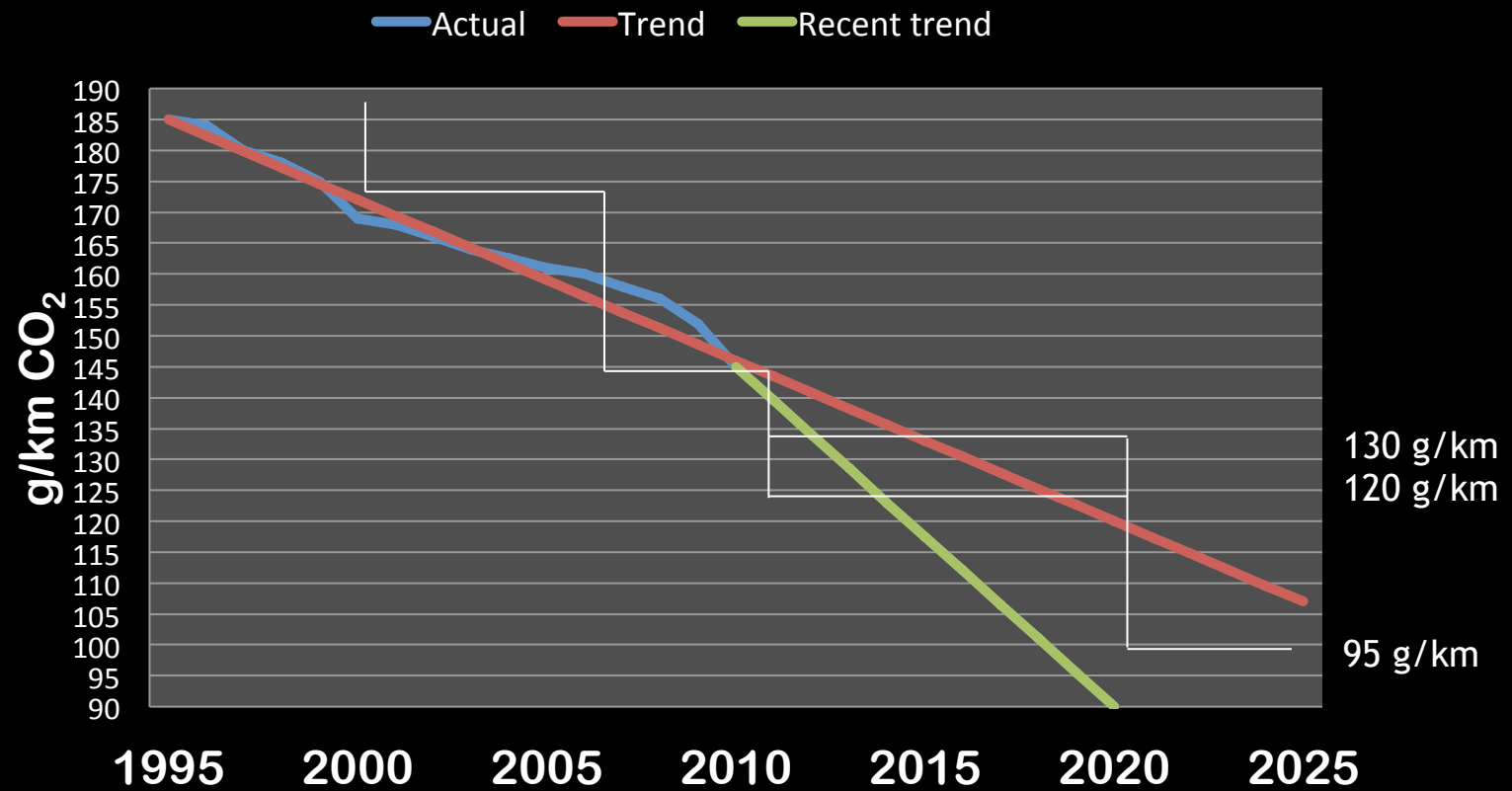






$$-100 \text{ kg} \approx -10 \text{ g/km CO}_2$$

EU CO₂ emissions targets



thinking clearly?



$$-1 \text{ kg} \approx + 3\text{km}$$





MMA
Mayhem-Boxing
ROUND

2

strongest vs. fittest



energy absorption → metal fits



A close-up photograph of a dense cluster of bright pink grass and long, pointed leaves against a white background. The grass has a soft, feathery texture, while the leaves are more rigid and elongated.

low weight

large 3D shapes



low cost tooling

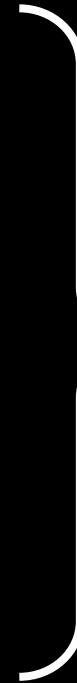


energy absorption

low weight

large 3D shapes

low cost tooling



→ EPS & PUR also fit

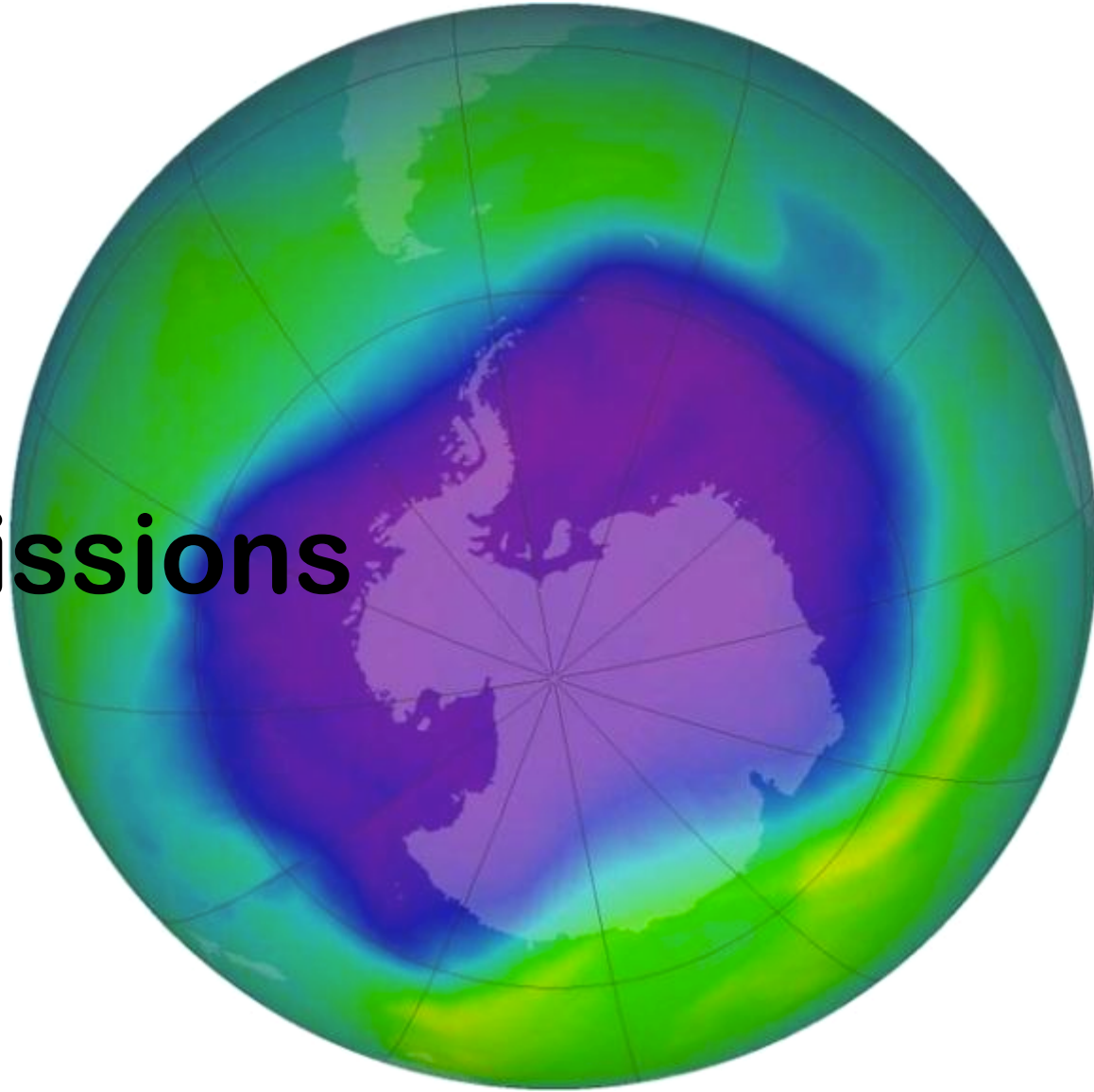
A close-up photograph of a ball of tangled rubber bands. The bands are in four colors: red, blue, yellow, and green. They are woven together in a complex, interlocking pattern, forming a spherical shape. The lighting is bright, highlighting the texture of the rubber bands.

resilience

A woman with dark hair is sitting on a wooden bench in a sauna. She is wearing a white towel wrapped around her waist. The sauna has wooden walls and benches. The text "temperature resistance" is overlaid in white on the image.

temperature resistance

emissions



energy absorption

low weight

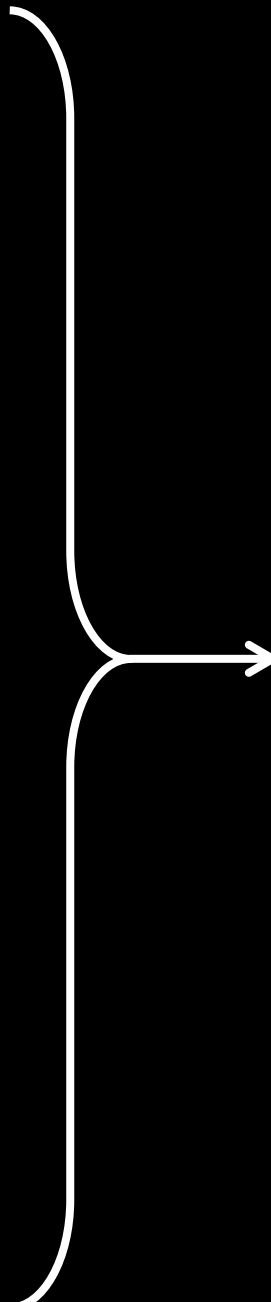
large 3D shapes

low cost tooling

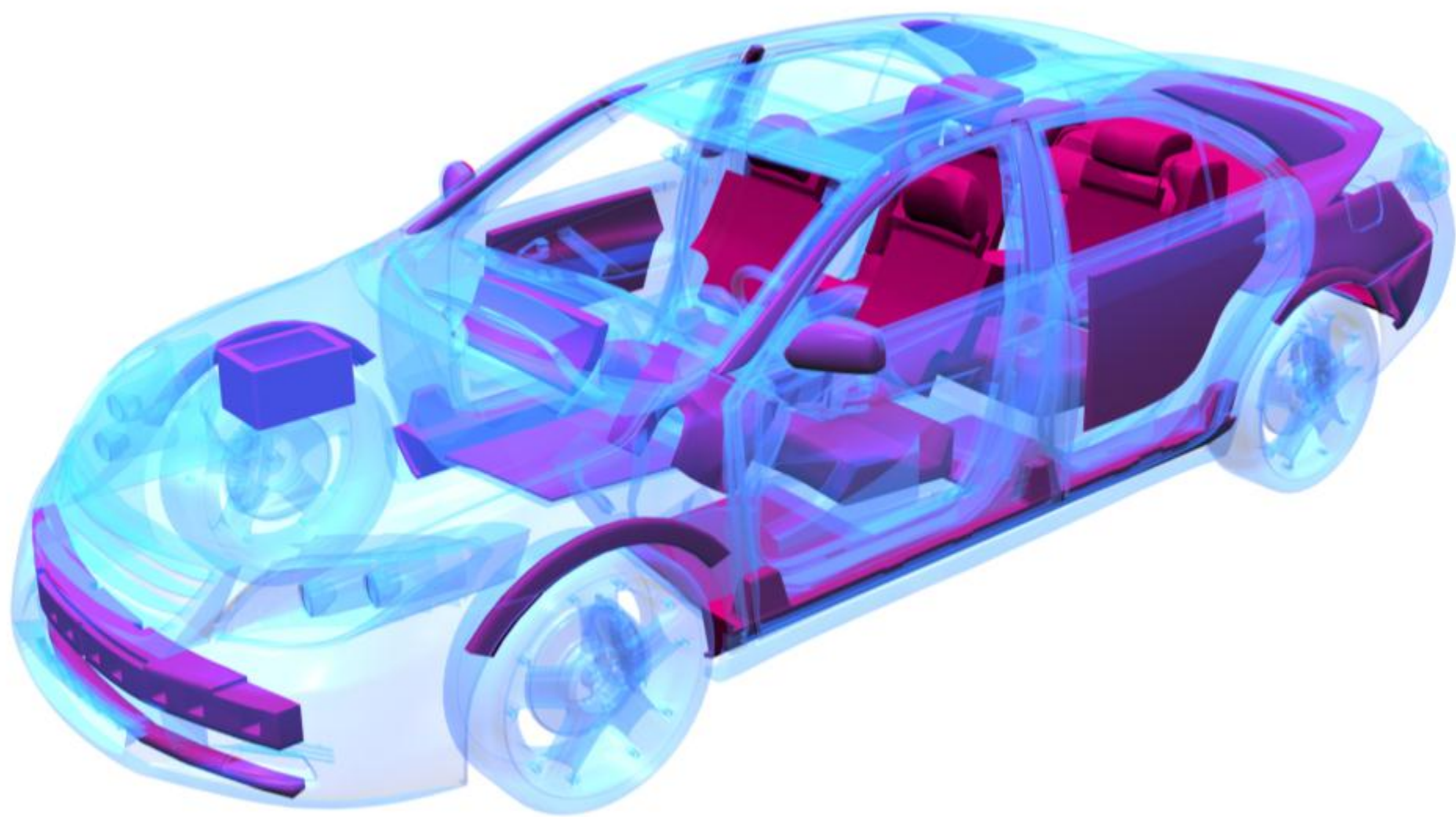
temperature resistance

resilience

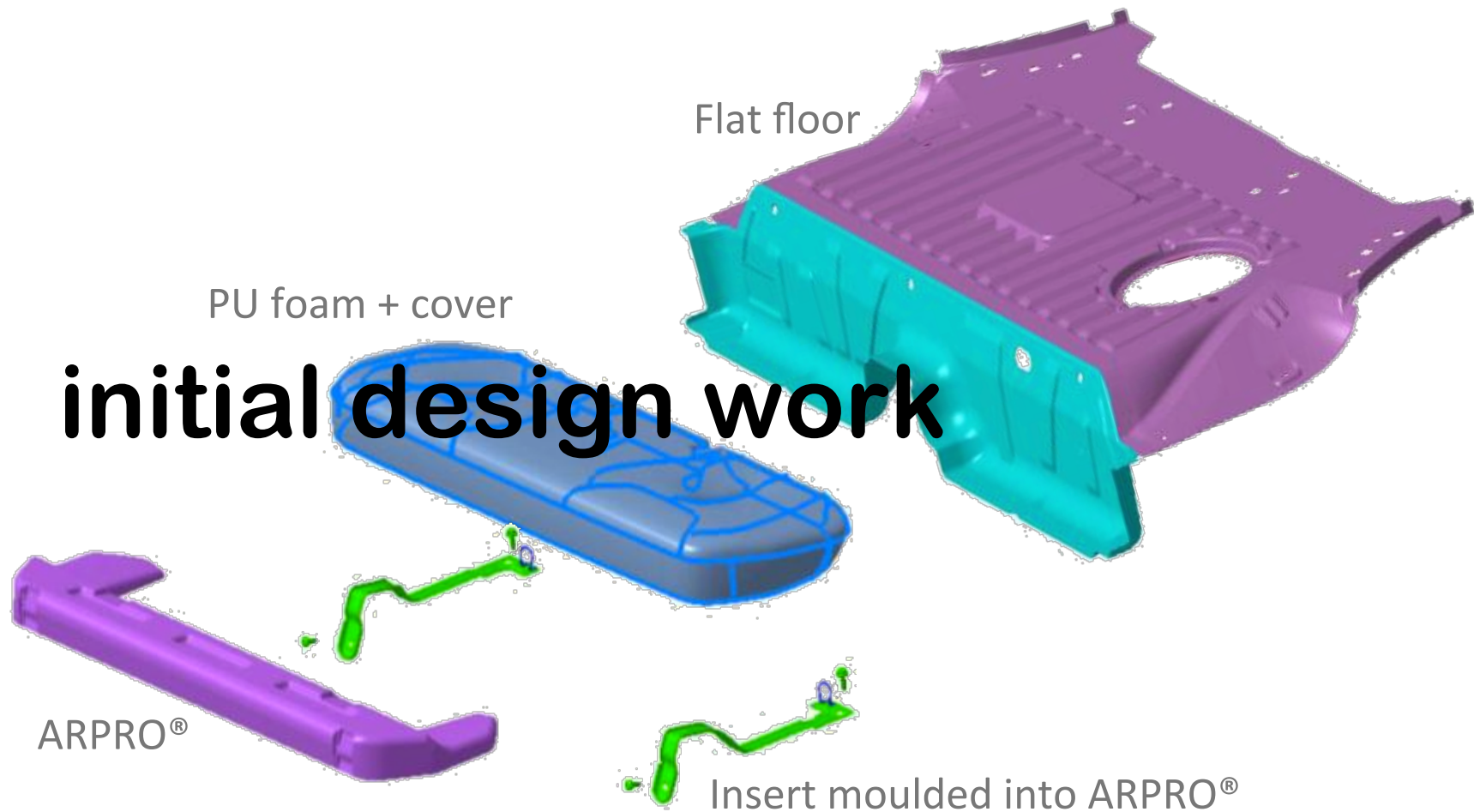
emissions

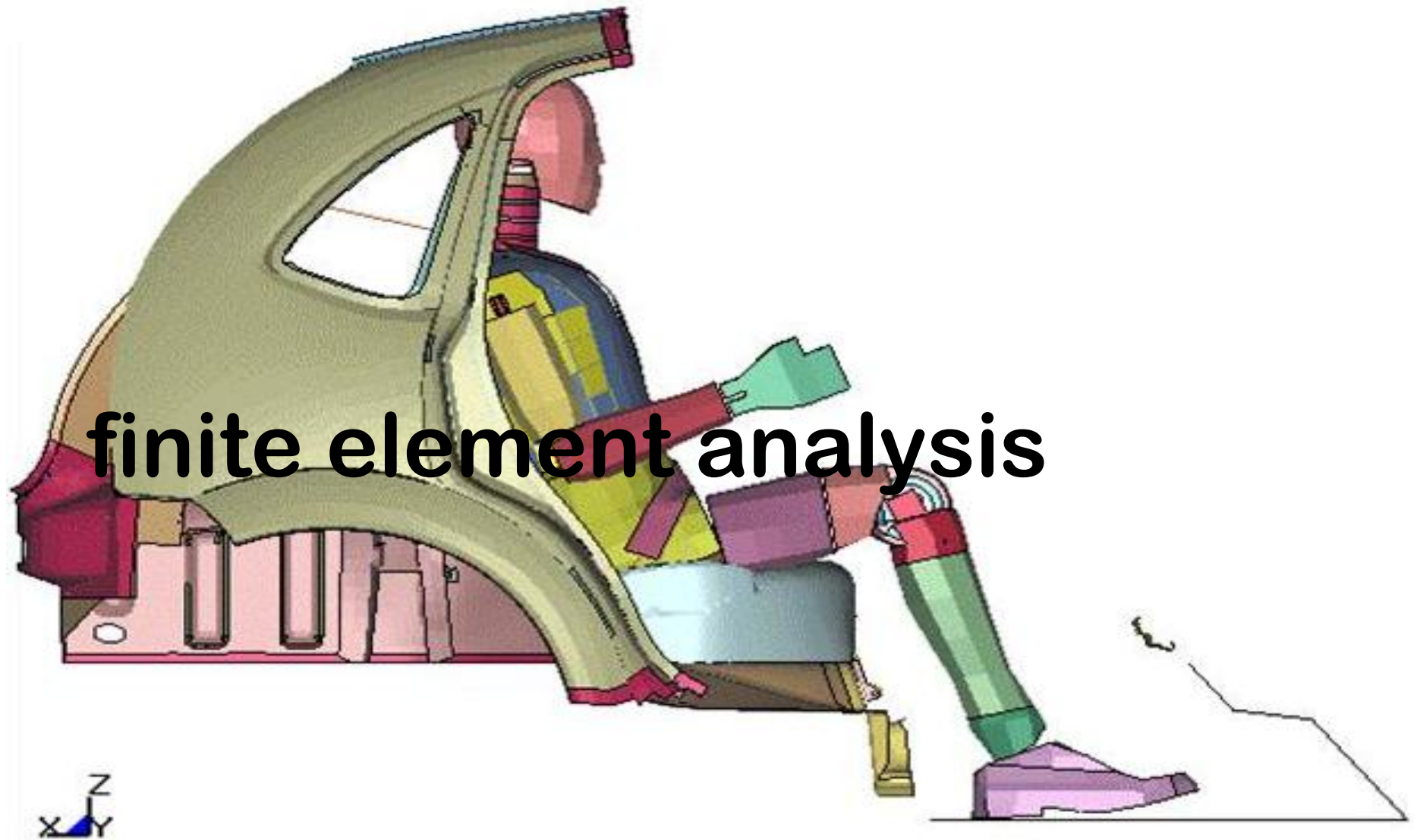


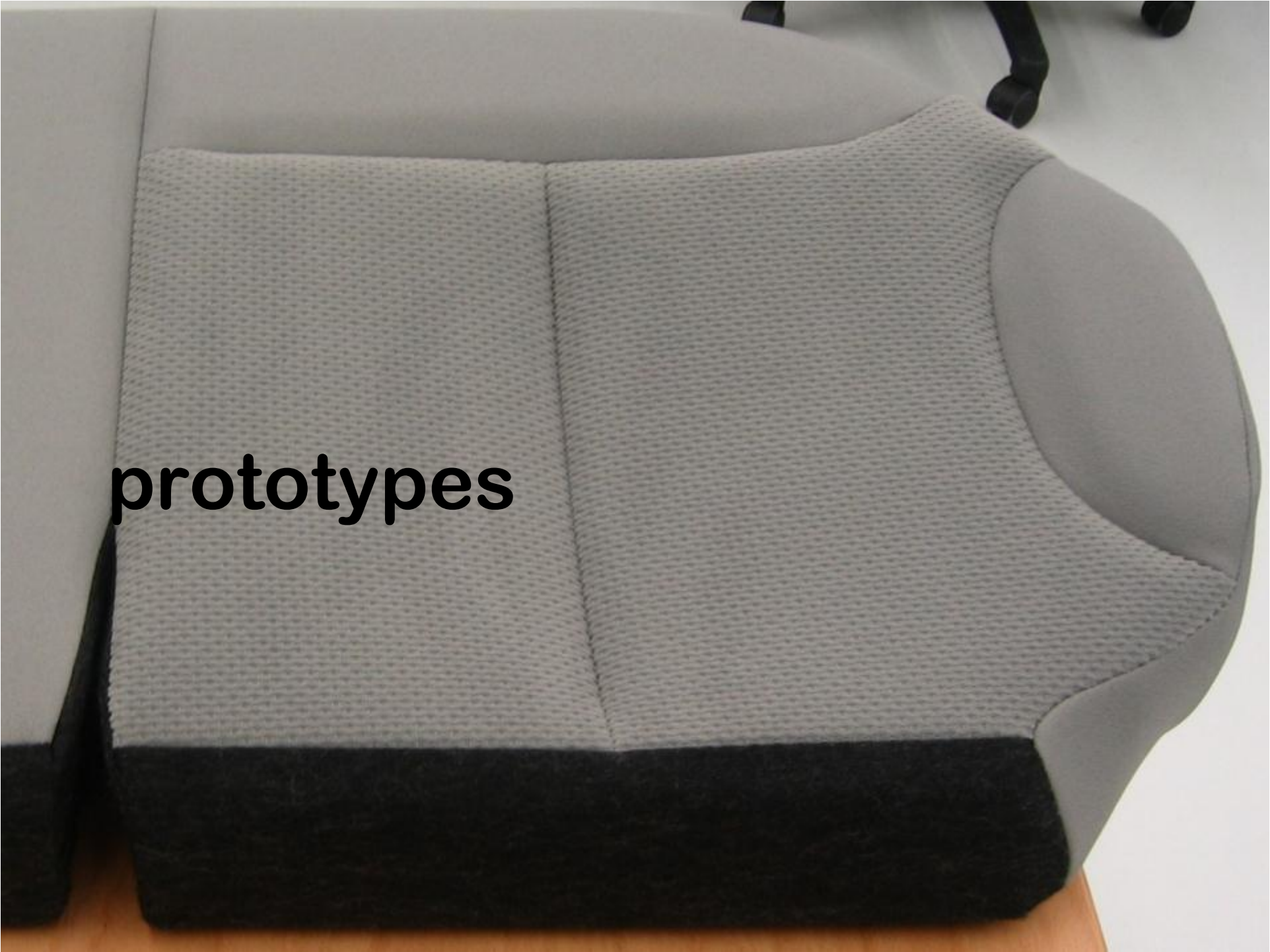
need EPP



initial design work







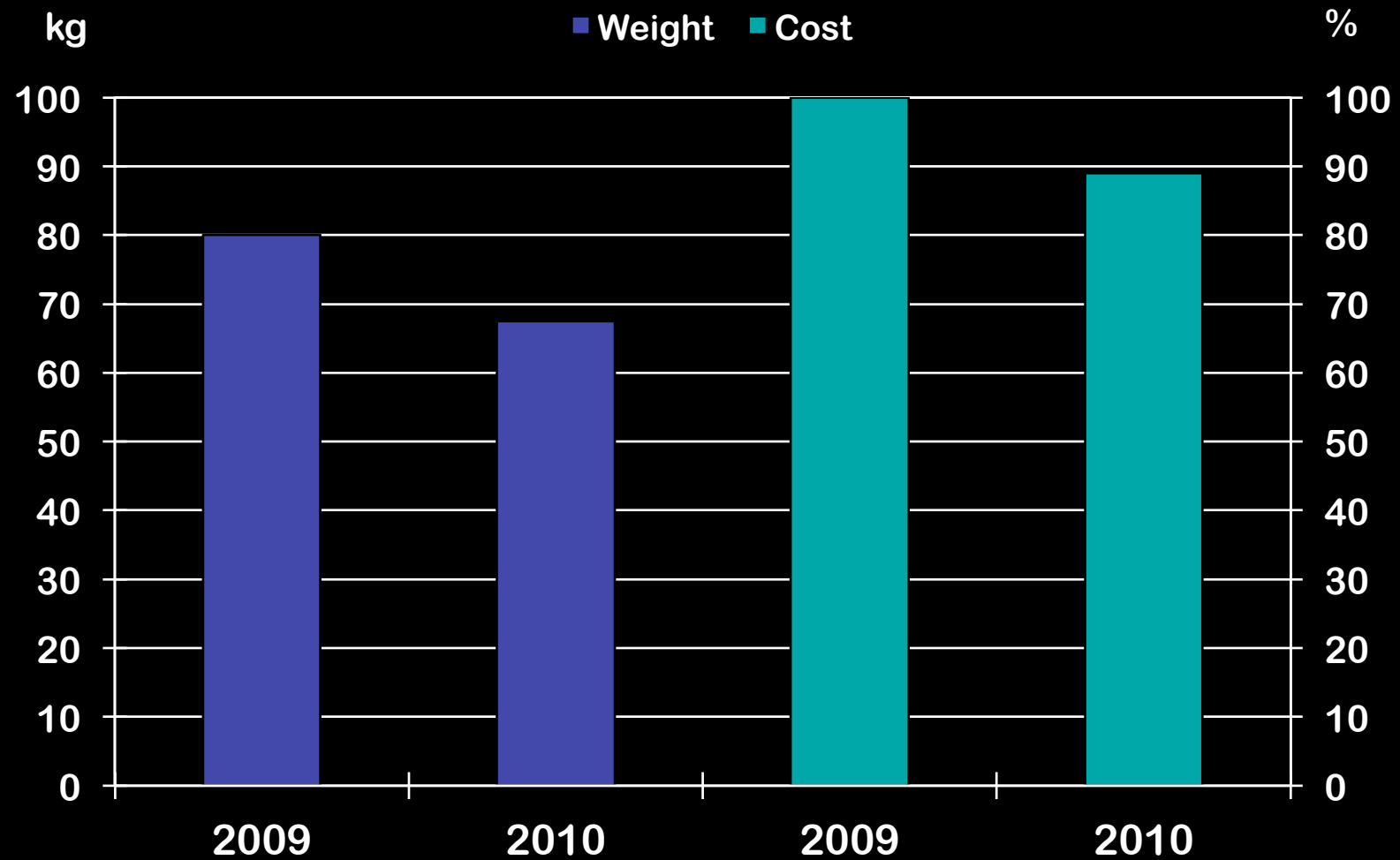
prototypes

A photograph showing a white car body part, likely a front fender or bumper area, being tested by a robotic arm. The arm is yellow and red, with a silver, curved impactor head. The text "crash testing" is overlaid in white. The background shows a workshop or testing facility with various equipment and cables.

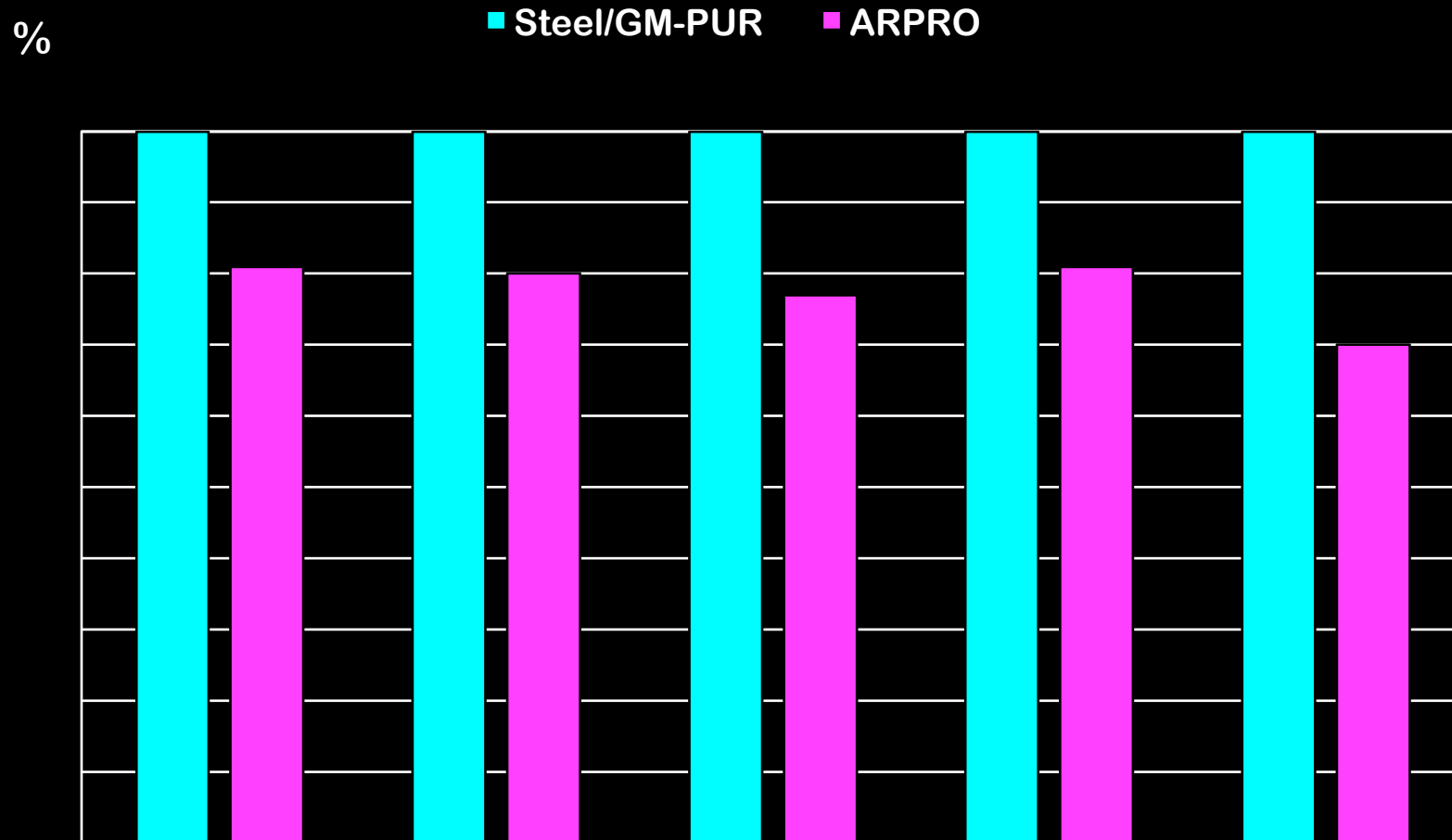
crash testing



Weight and Cost Saving BMW 5 Series



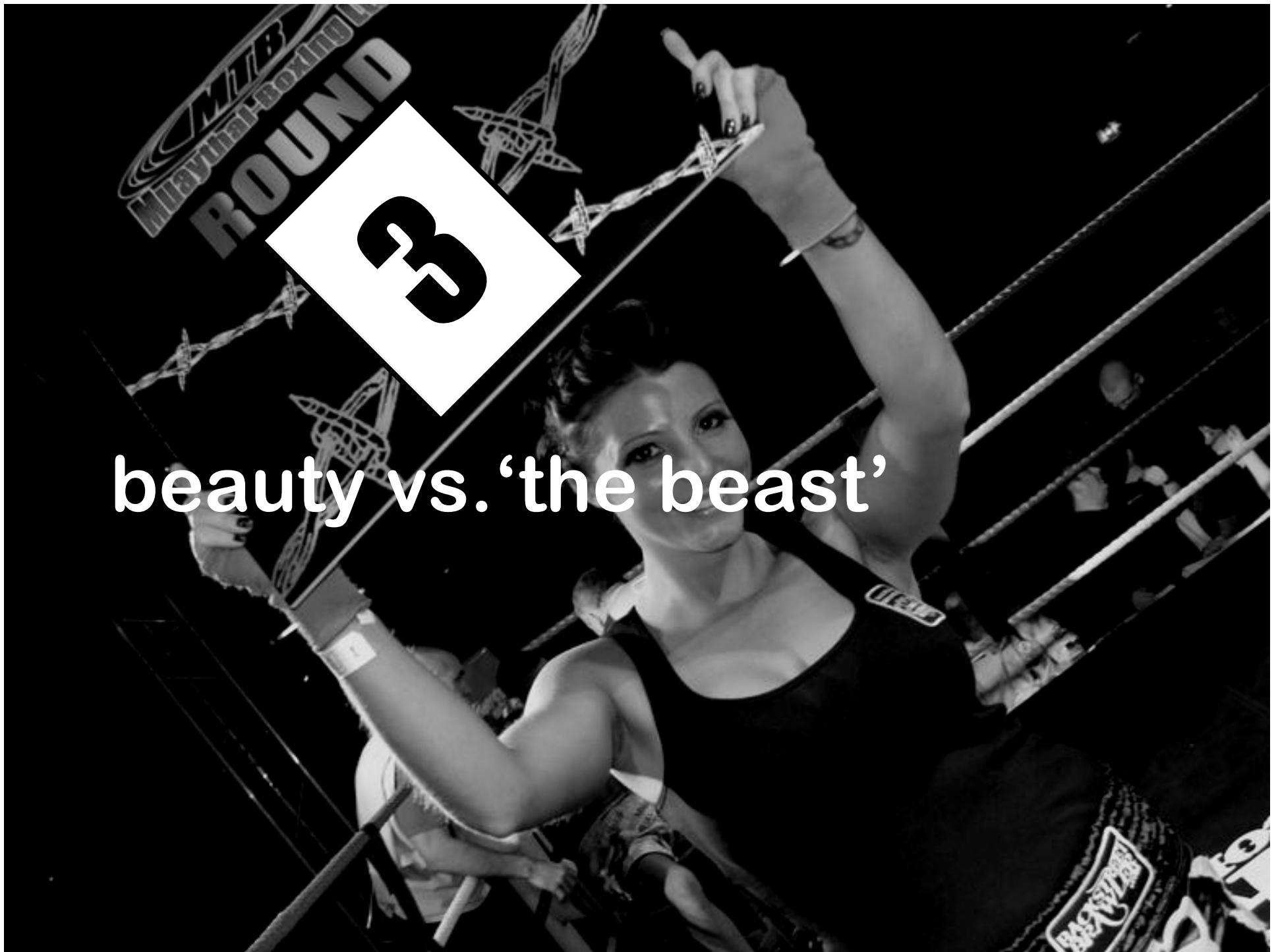
Life Cycle Analysis Comparison



MTB
Martial-Boxing
ROUND

3

beauty vs. 'the beast'



A black and white photograph of the interior of a Mazda car, viewed from the driver's perspective. The image shows the steering wheel with the Mazda logo, the instrument cluster, the center console with a gear shifter, and the front seats. The text "hide/manage" is overlaid in white on the left side of the image.

hide/manage



**Bead
Gaps
Seal
Vents
Mottle**



INNOVATION



eureka!

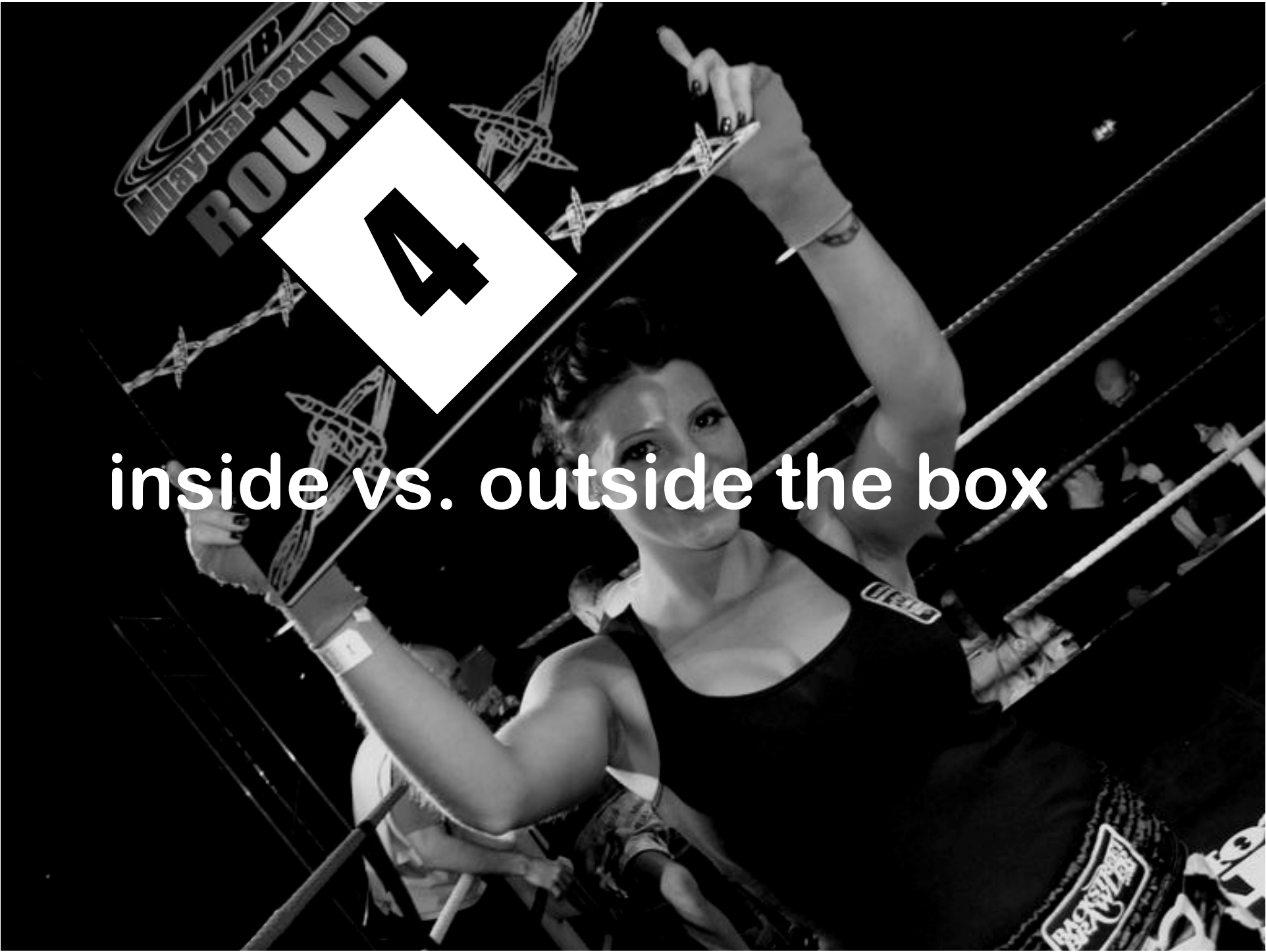








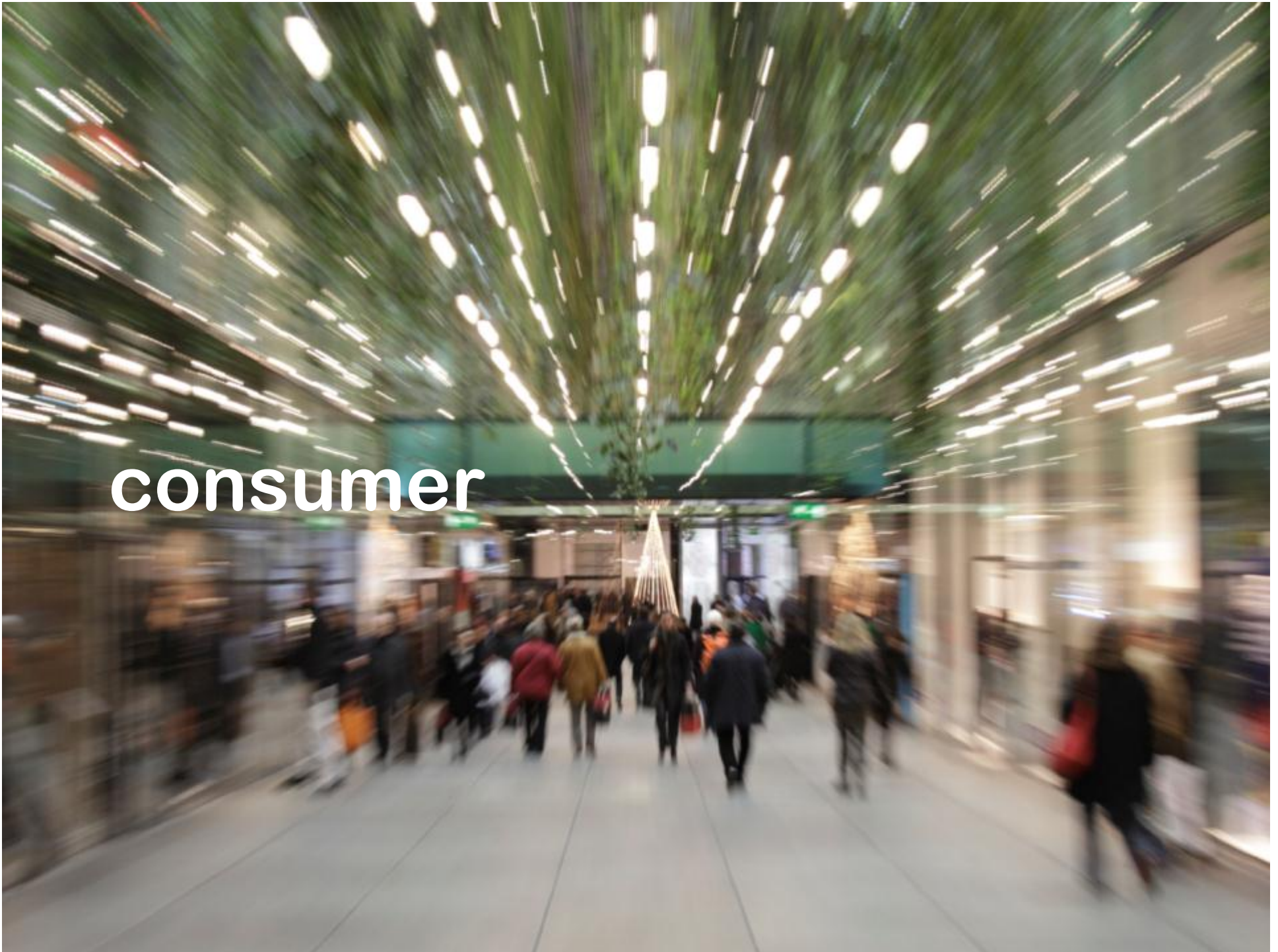
closed-
surface
impermeable
puncture &
abrasion
proof
warm-feel
3d
grain



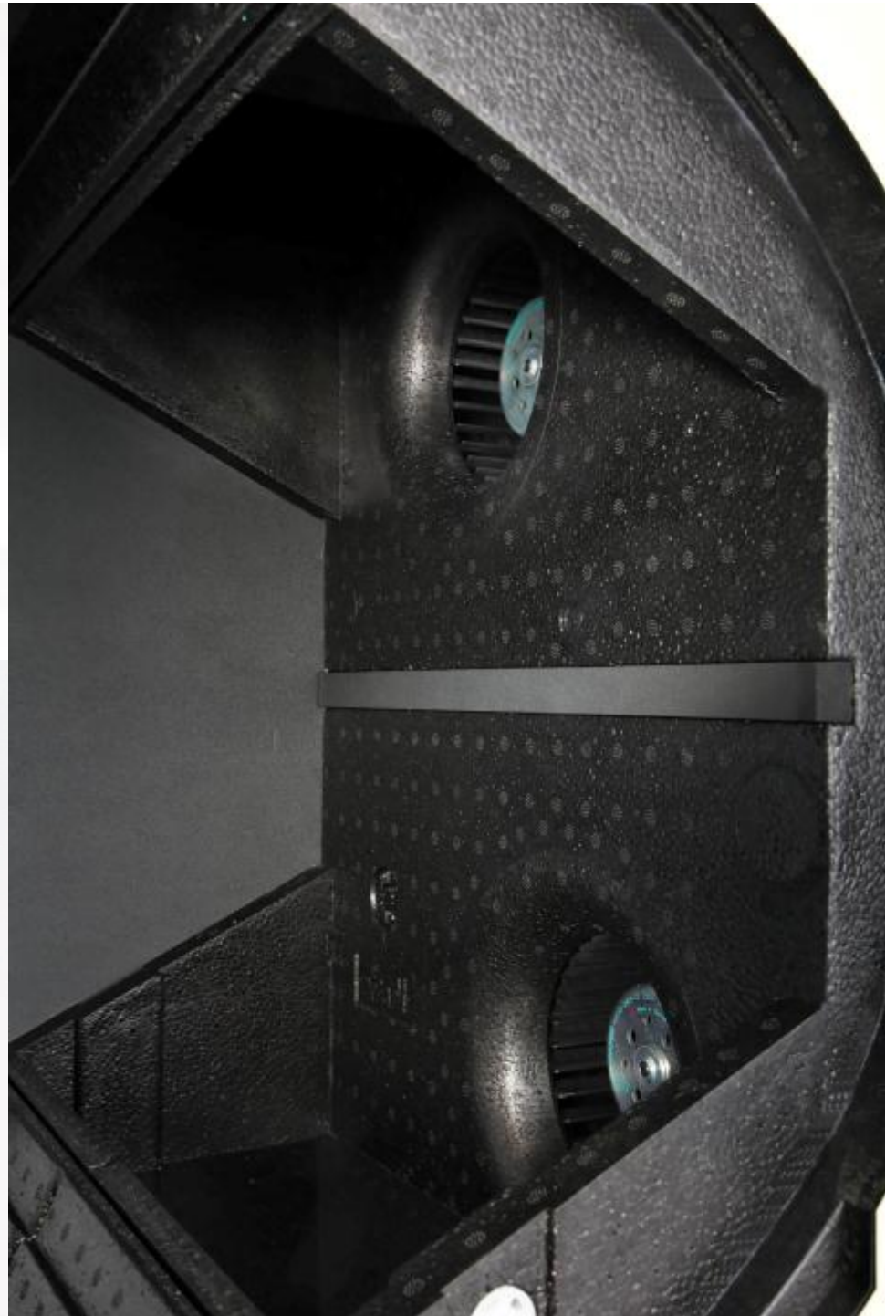
4

inside vs. outside the box

consumer





















UFC
MAYNARD-BOXING
ROUND

5

you vs. innovation







