Combining the Processes for the Future

1

DESIGN

ENGINEERING

MANUFACTURING

AUTOMATION

Current Way of Assembling a Vehicle



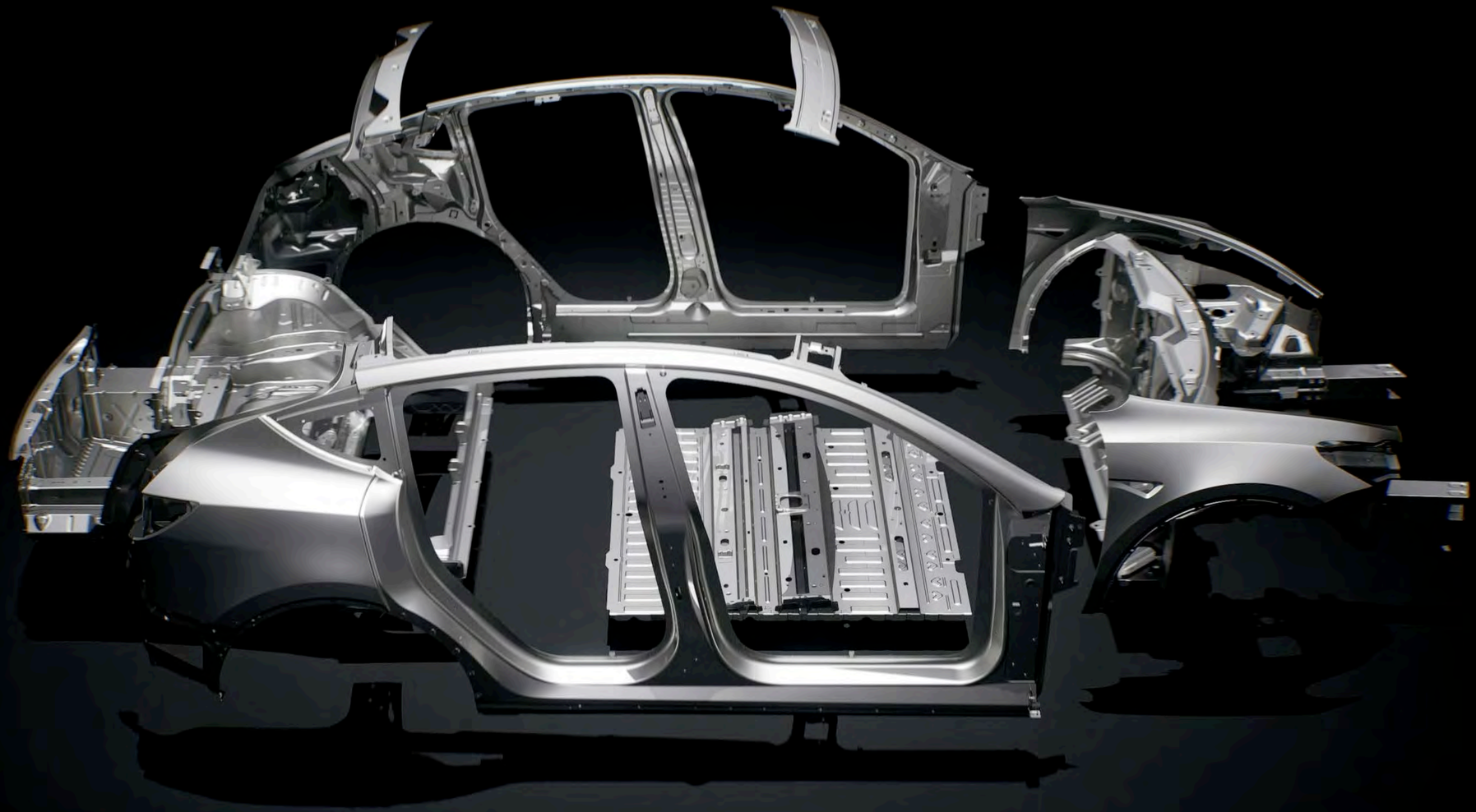
Stamp

Body

Paint

Final Assembly

Current Way of Assembling a Vehicle



Current Way of Assembling a Vehicle

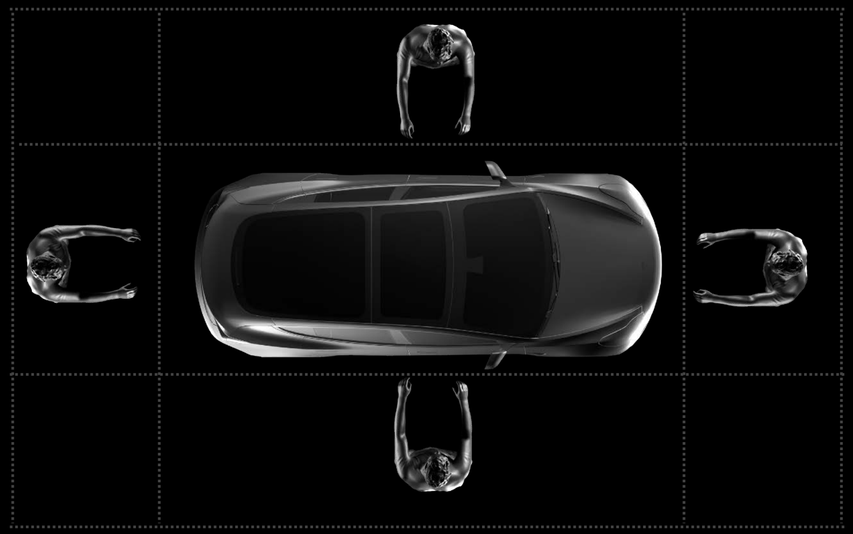


Structural Pack Sub-Assembly

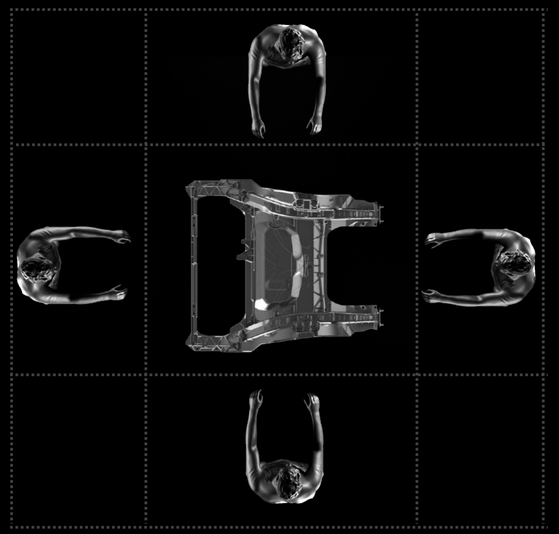


More People Can Work Simultaneously on Next Generation Vehicle

Model 3



Next Gen Vehicle



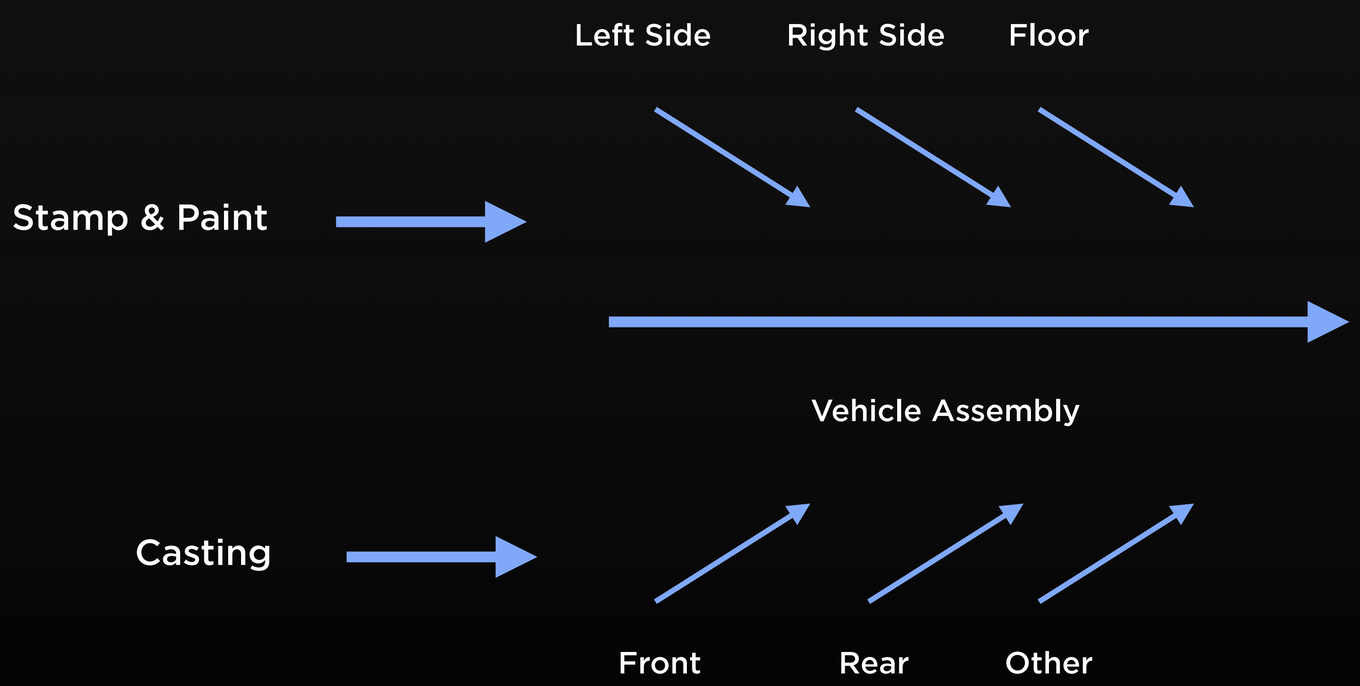
44%

Operator Density Improvement

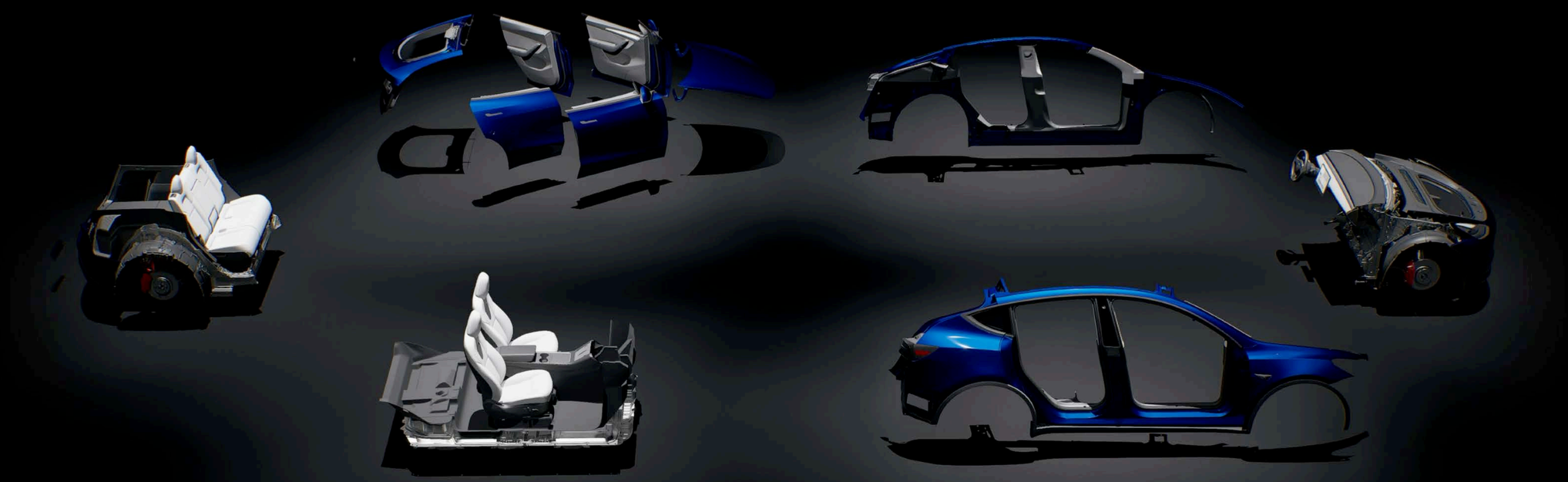
30%

Space Time Efficiency Improvement

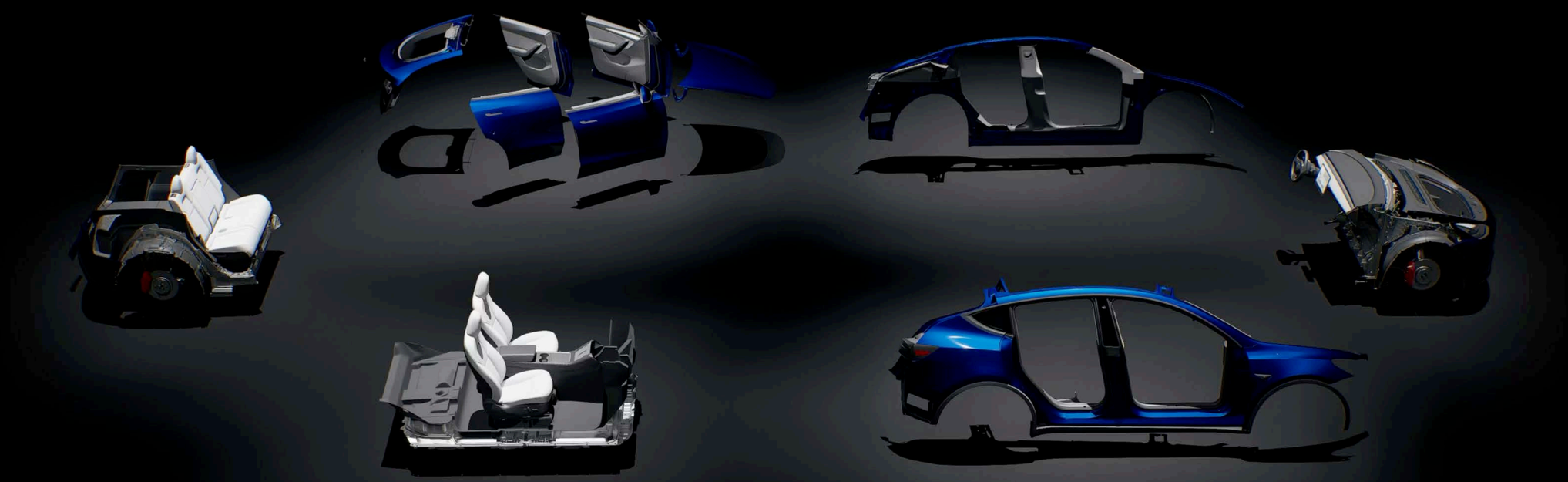
Parallel & Serial Assembly



Unboxed Process



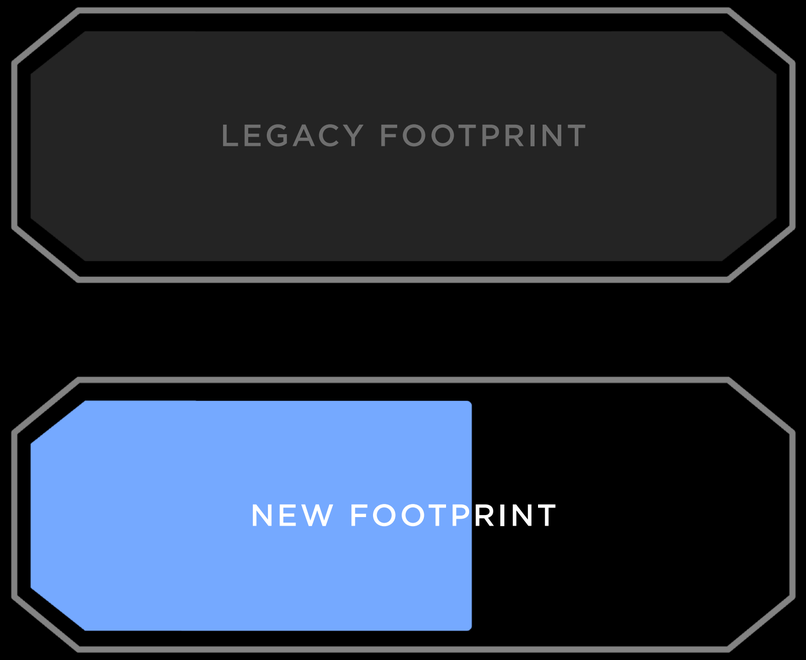
Unboxed Process

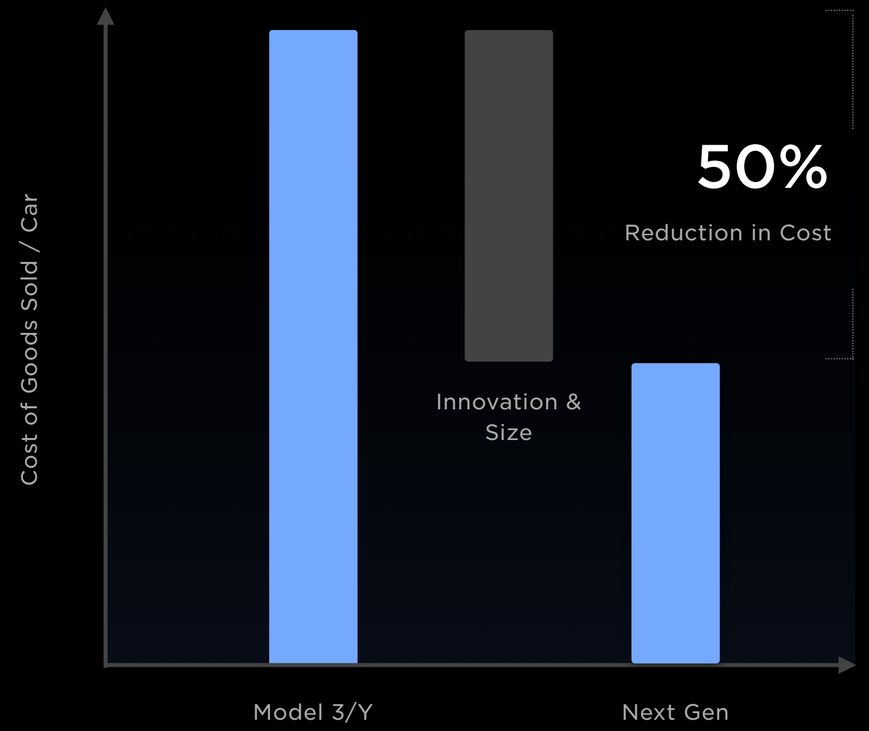


Next Generation Vehicle Manufacturing Efficiencies

>40%

Reduction In Manufacturing Footprint





50%

Reduction in Cost