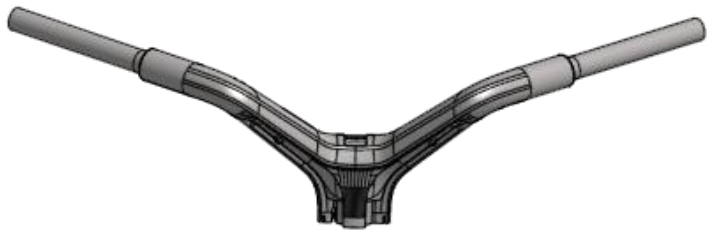


— Plastic Innovation

HANDLEBAR

CAD-MODEL



Initial Idea

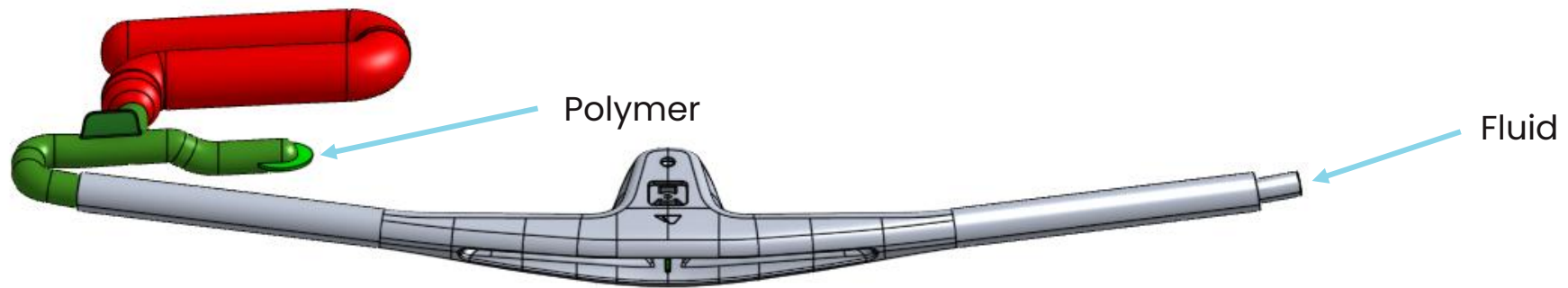


Intermediate Design



Final design

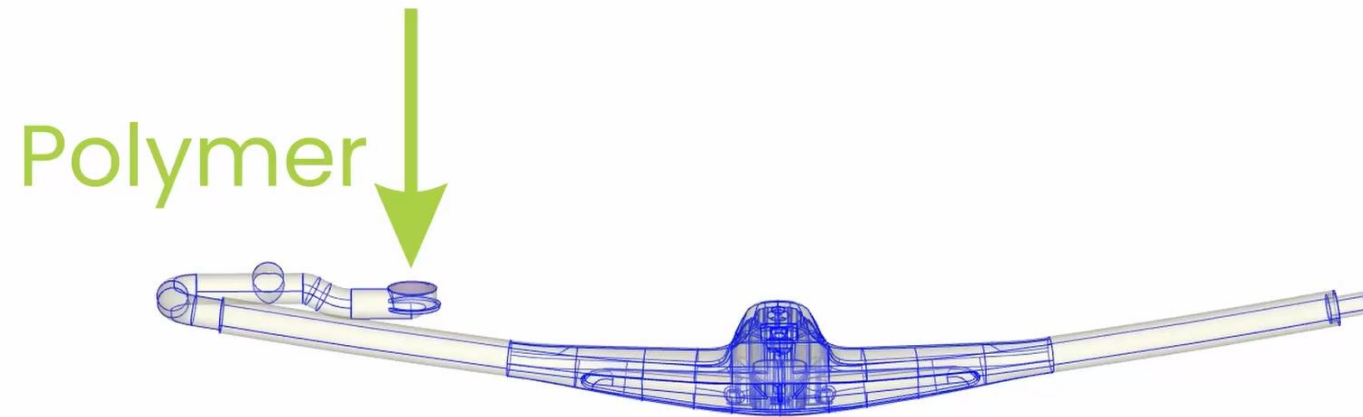
MOLDING CONCEPT



Two processing types realized in one mold:

- Melt-Pushback
- Side-Cavity

PROCESS SIMULATION – RESULTS

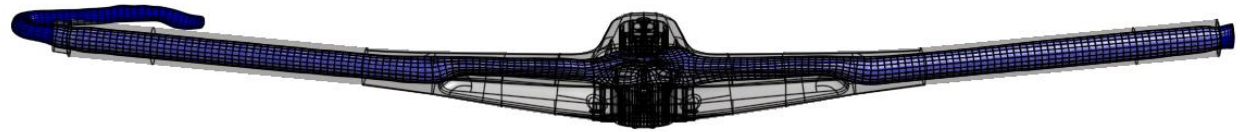


HOLLOW GEOMETRY

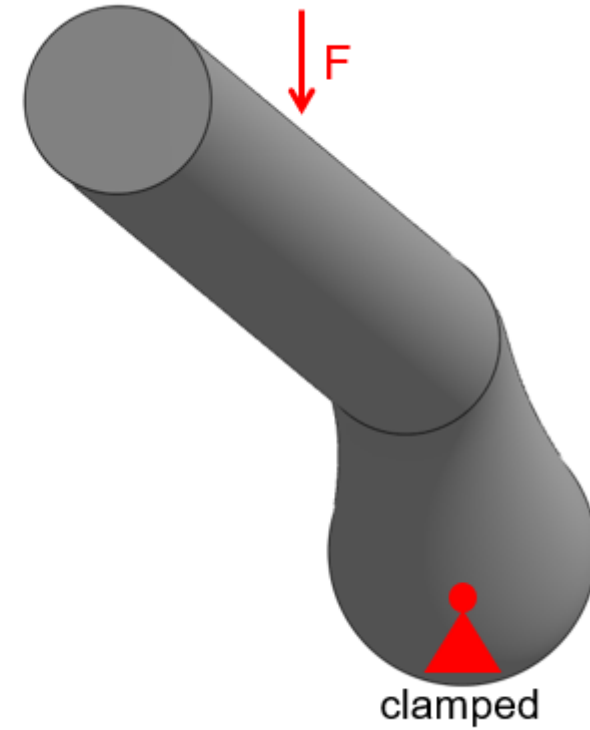
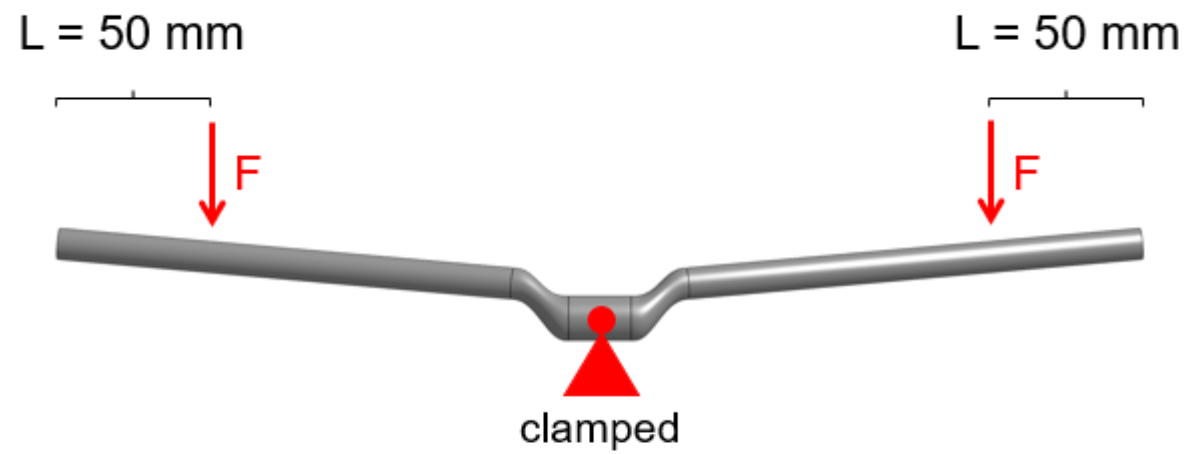
Fluid channel



Fluid channel extracted
from CAD-model to
create hollow geometry



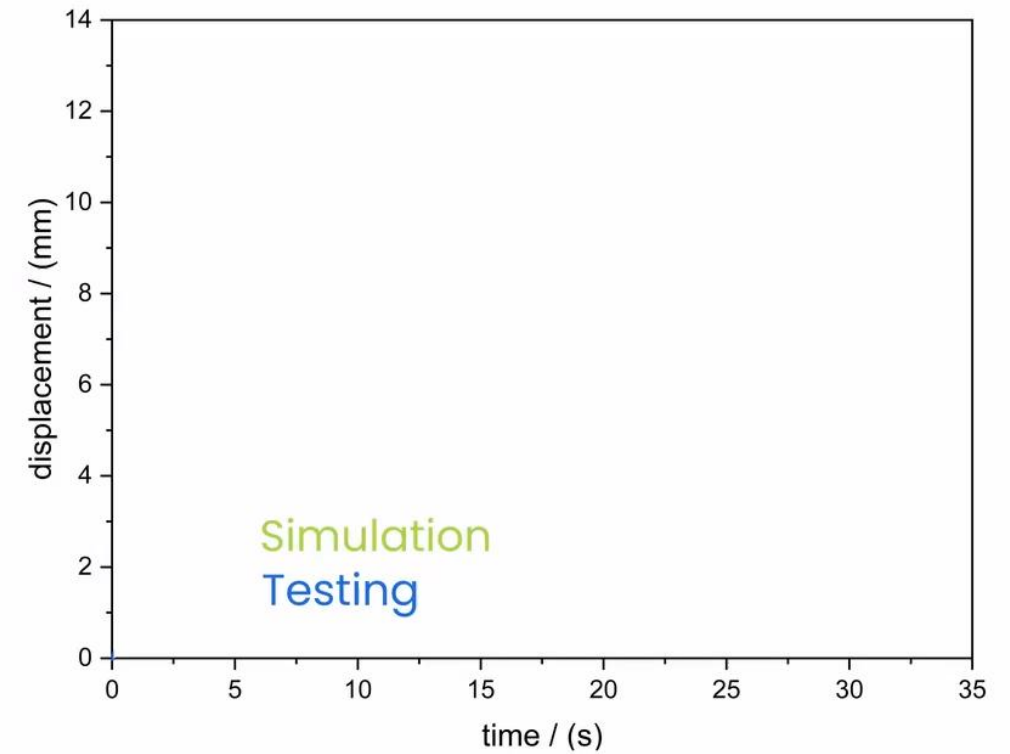
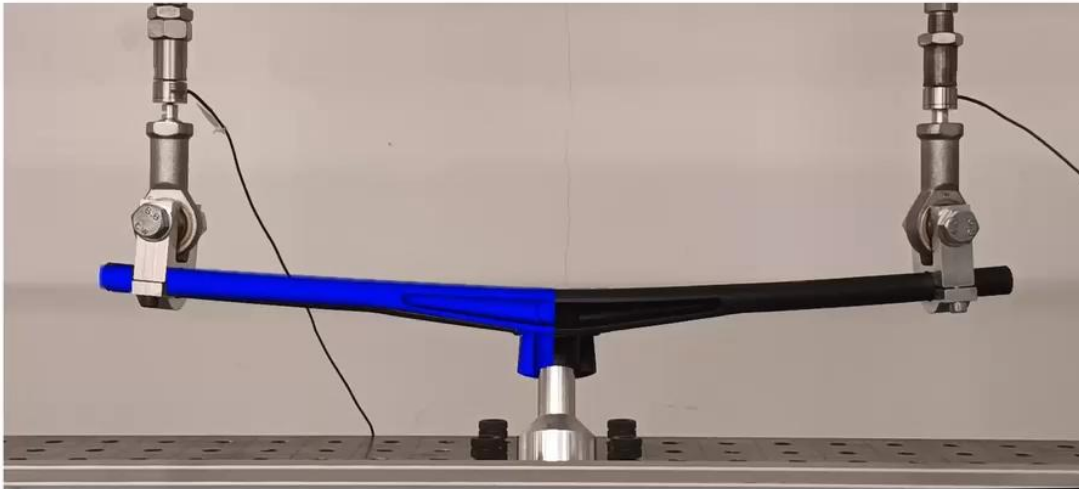
LOAD CASE



TEST BENCH – SETUP

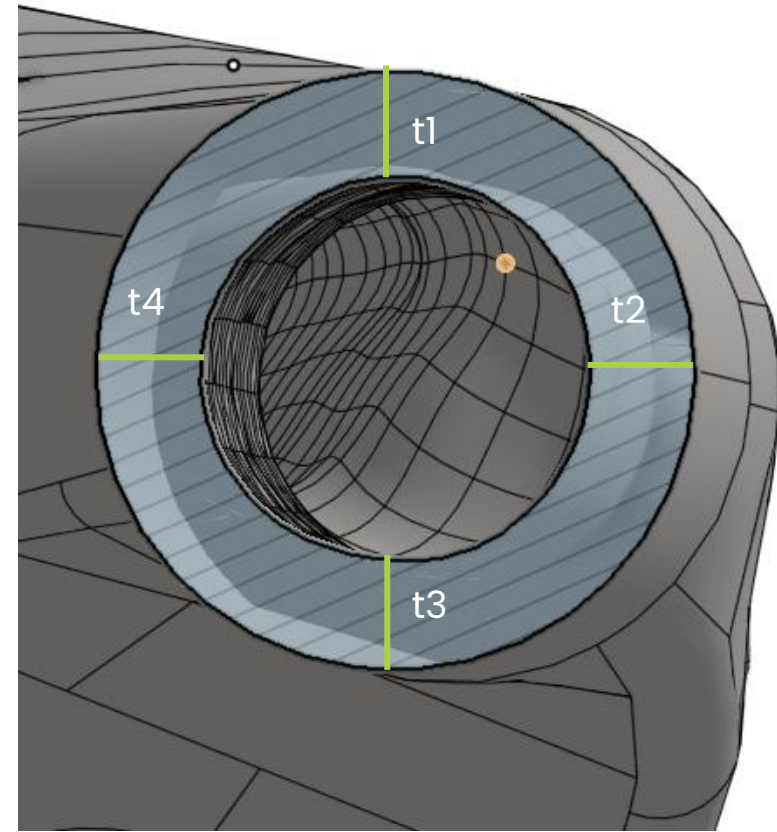


COMPARISON – SIMULATION & EXPERIMENT

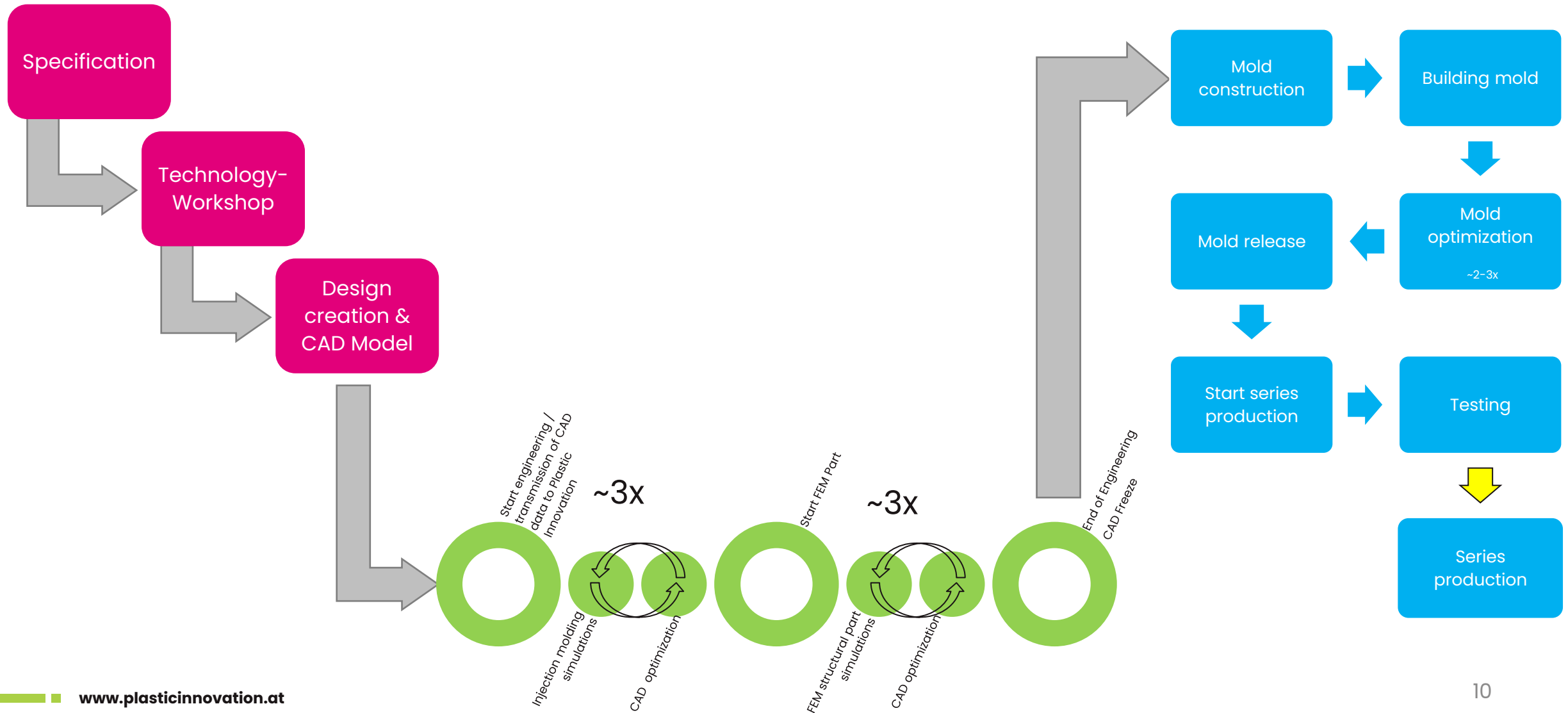


COMPARISON – SIMULATION & EXPERIMENT

	Weight	t1	t2	t3	T4
	g	mm	mm	mm	mm
EXP	424.8	5.5	4.7	4.6	5.3
SIM	414.5	4.2	3.2	3.7	4.1



SUMMARY



PROJECT PARTNERS

ARTEFAKT

DOMO

ENGEL

PLASTIC
innovation

Simoldes
since 1959

CANYON

FEEL FREE AND CONTACT US



Umut Cakmak
Managing Partner



Markus Wimmer
Digital Product Engineer

