

alsim  
**Washing**

simulate and optimize  
your cleaning treatments



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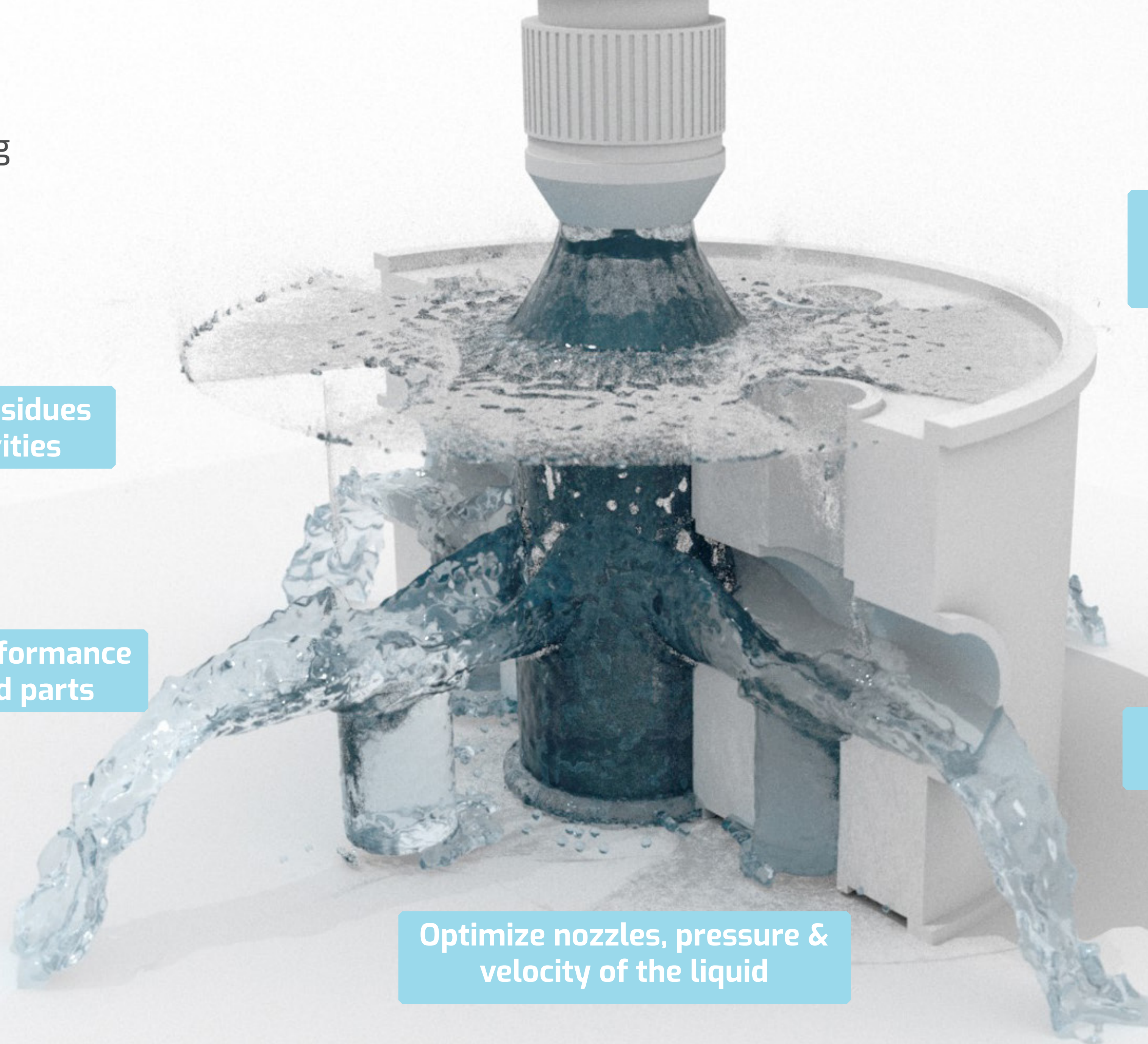
Simulate cleaning  
treatments of all  
parts

Get rid of residues  
inside cavities

Improve performance  
of finished parts

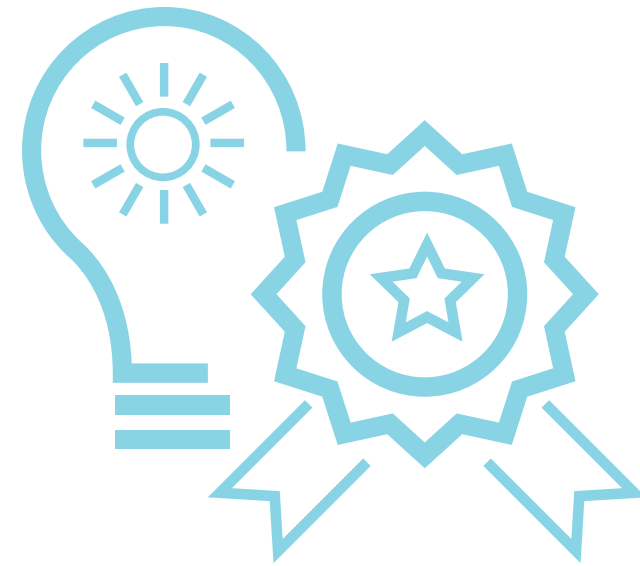
Save cost &  
resources

Optimize nozzles, pressure &  
velocity of the liquid





- ❖ In manufacturing washing of parts is required
- ❖ 80 million cars are produced worldwide annually; each car contains several parts that need to be washed
- ❖ If cycle time, energy, and water consumption can be reduced and the quality of the washing can be increased, both product and producers profit
- ❖ This can be achieved by optimizing the design of the lines, the nozzle position, the pressure and the velocity of the liquid input



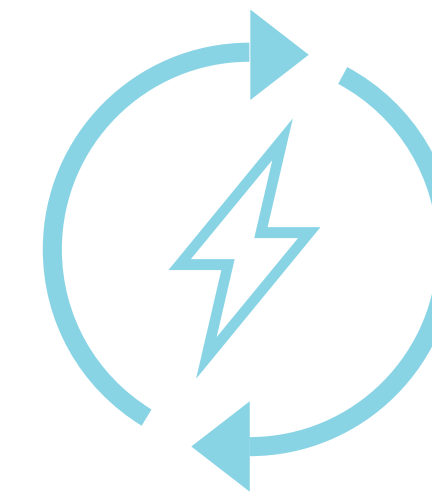
## INNOVATE

- ❖ reduce cycle time, energy & water consumption
- ❖ increase quality of washing
- ❖ increase profit for the manufacturer and from the product
- ❖ validate new geometries in the design phase



## OPTIMIZE

- ❖ verify & optimize the design of the washing lines
- ❖ optimize the nozzle position, the pressure and the velocity of the liquid input
- ❖ decrease long-term costs by curtailing risk
- ❖ detect issues & enhance existing geometries



## ACCELERATE

- ❖ accelerate decision making
- ❖ suggestions for enhancements in the design phase
- ❖ validate new washing machines before they are purchased



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