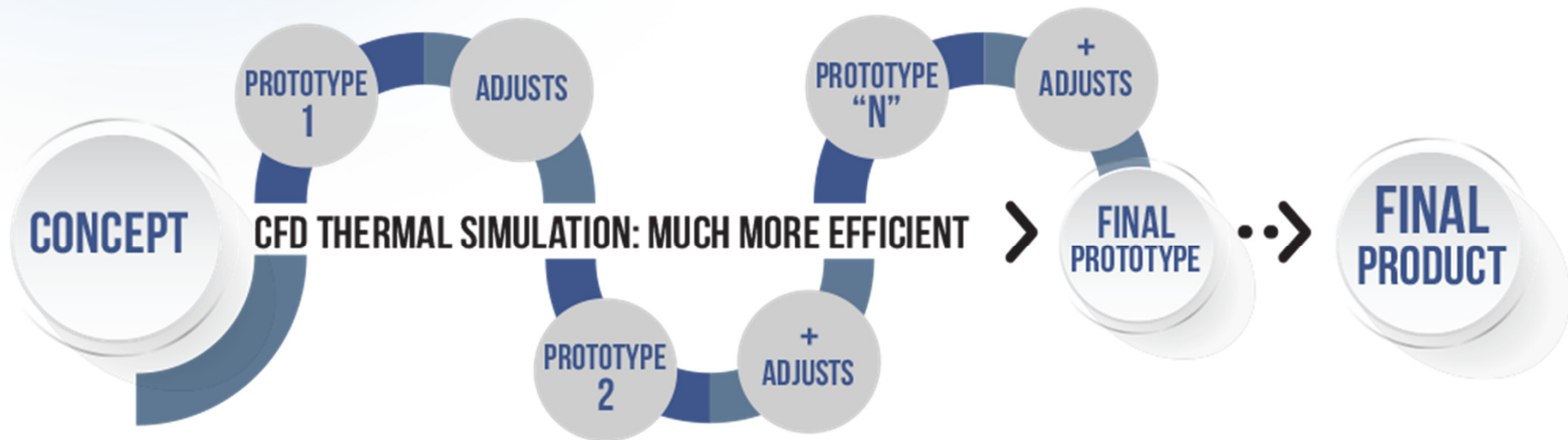


CFD Thermal Simulations for LED Applications

New Product Development Cycles



Why is it important to use a CFD?



Cost reduction, eliminating or substantially decreasing the need for multiple prototypes



Predict the thermal behavior of the LED fixture under different operating conditions (temperature, sun, etc.)

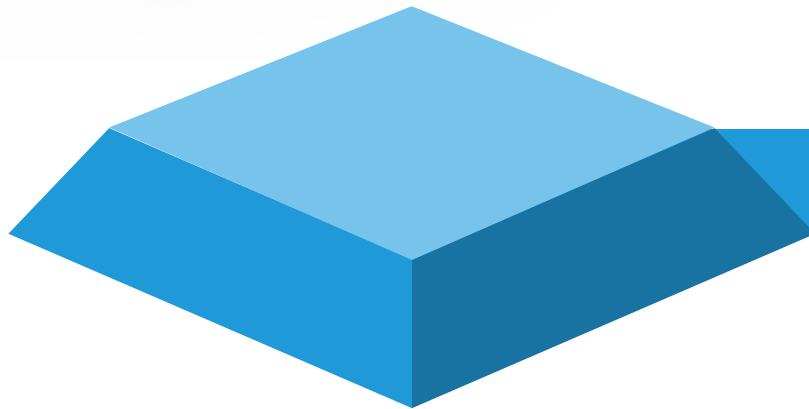


Validation of the thermal behavior of the new application, under different design scenarios (different components, weather conditions, etc)



Shorter time-to-market cycles for new products

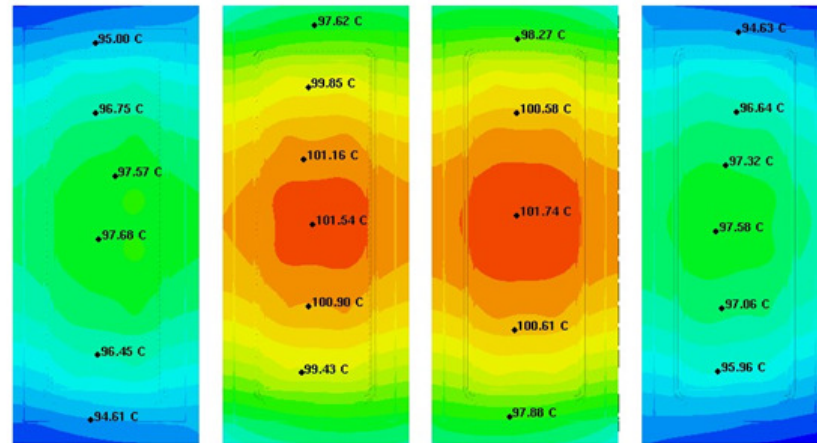
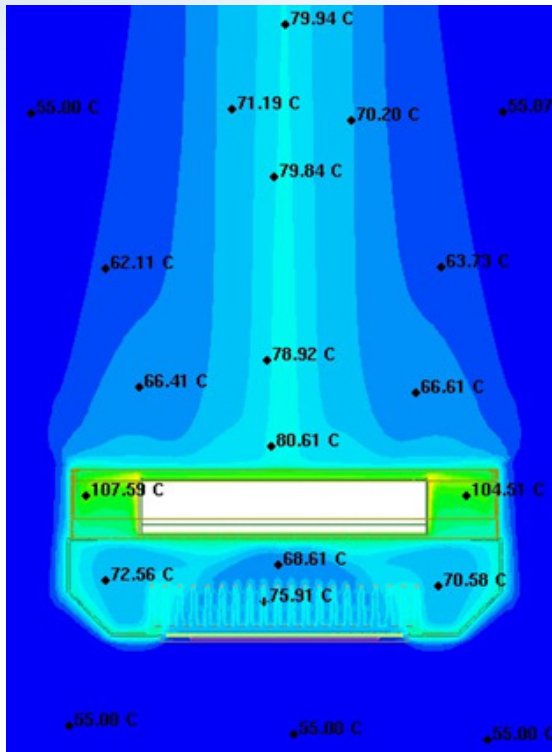
What can our CFD Solution do for you?



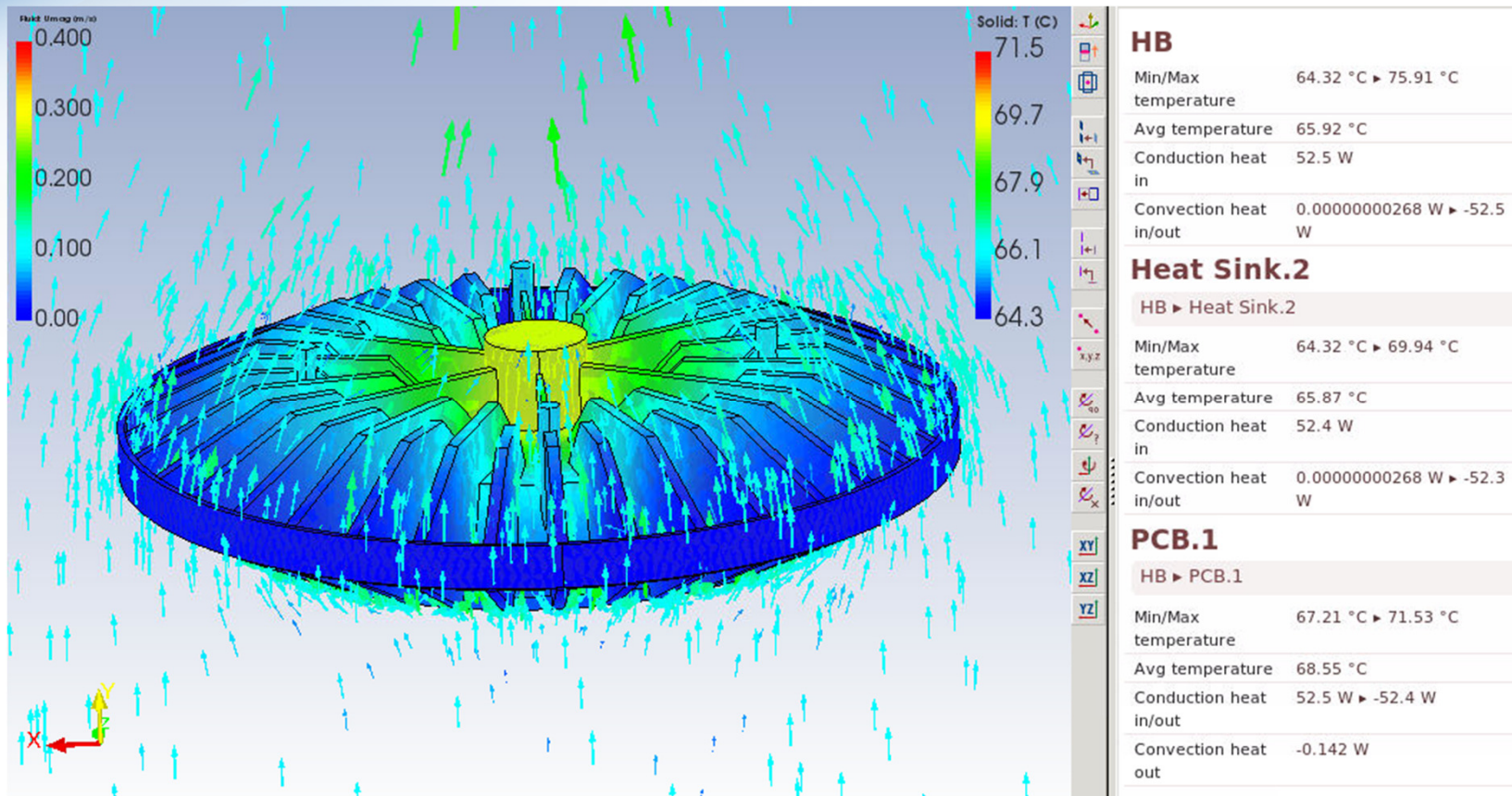
01

Thermal Profile of each one of the thermal system components (e.g. LED, HS, etc)

What can our CFD Solution do for you?



What can our CFD Solution do for you?



What can our CFD Solution do for you?



02

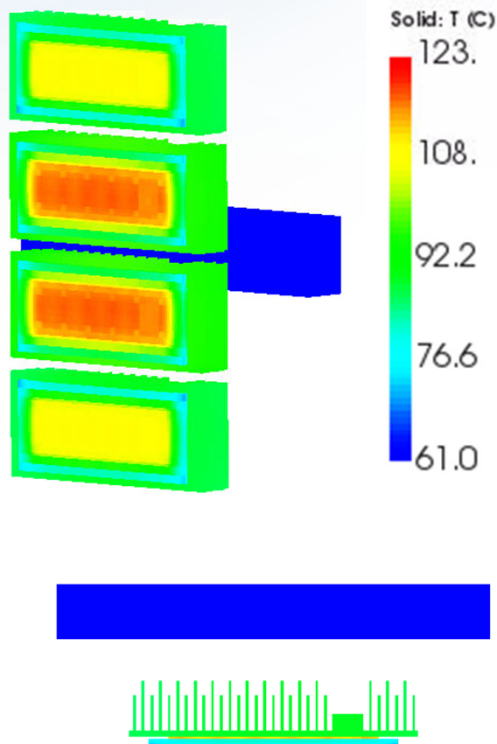
"What if scenarios" for different components, designs (driver positioning) ambient conditions, etc

01

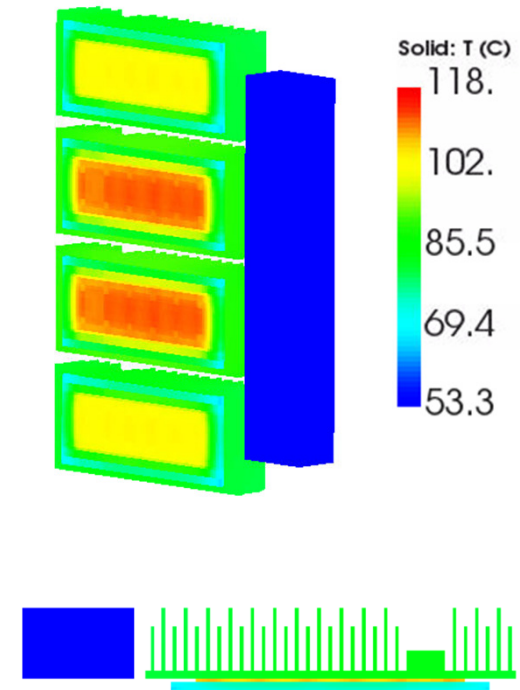
Thermal Profile of each one of the thermal system components (e.g. LED, HS, etc)

What can our CFD Solution do for you?

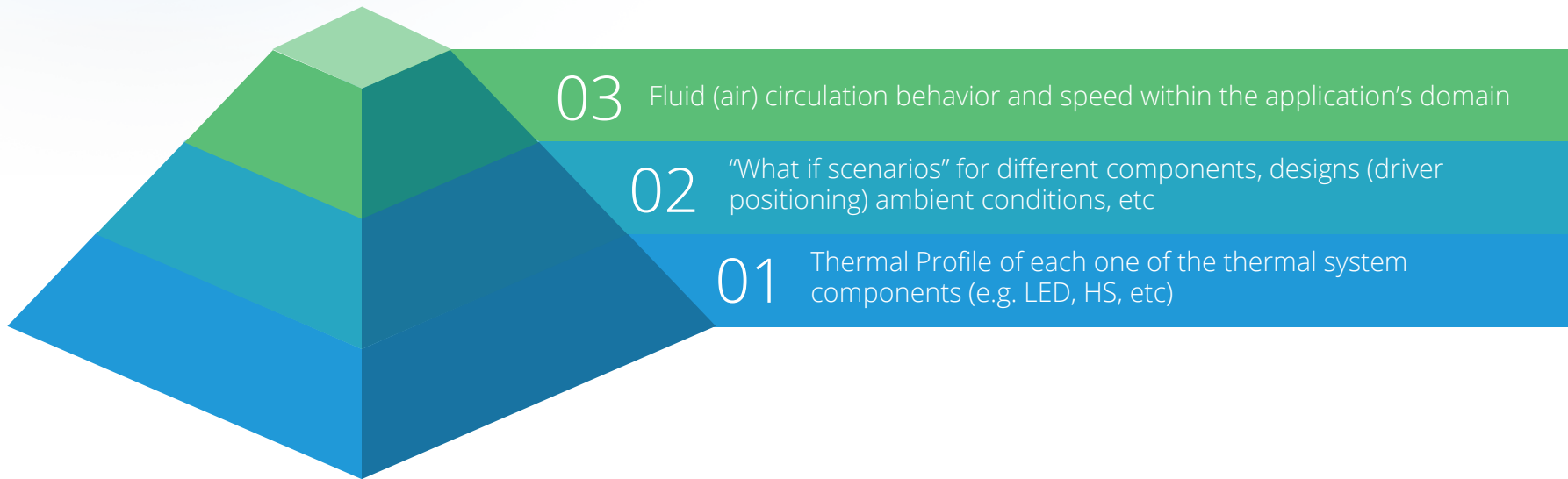
Driver - Position 1



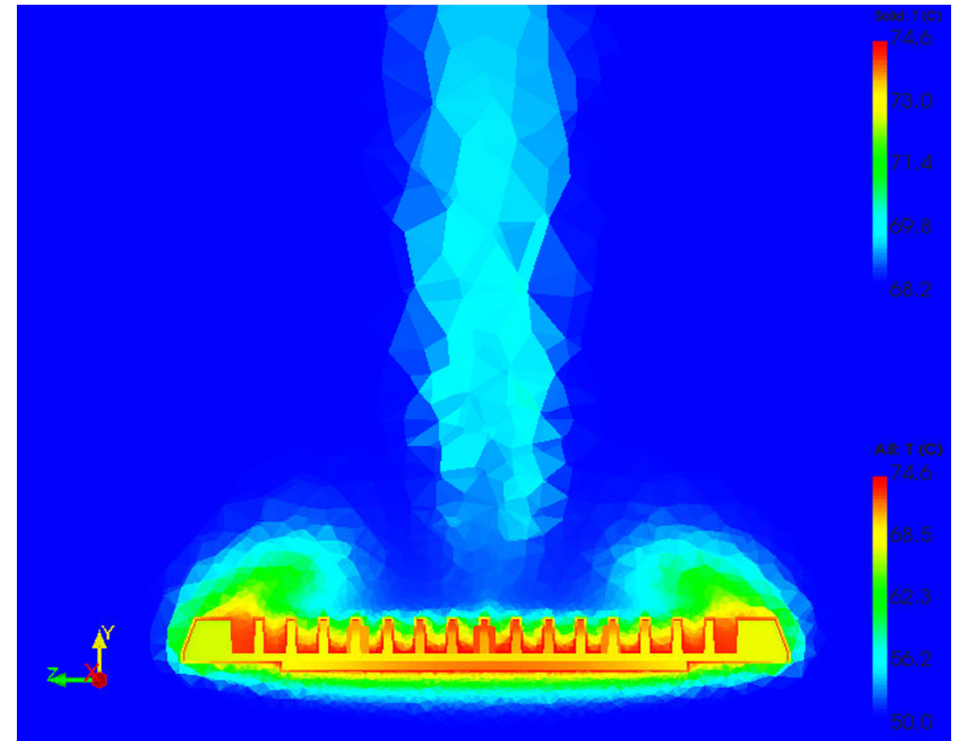
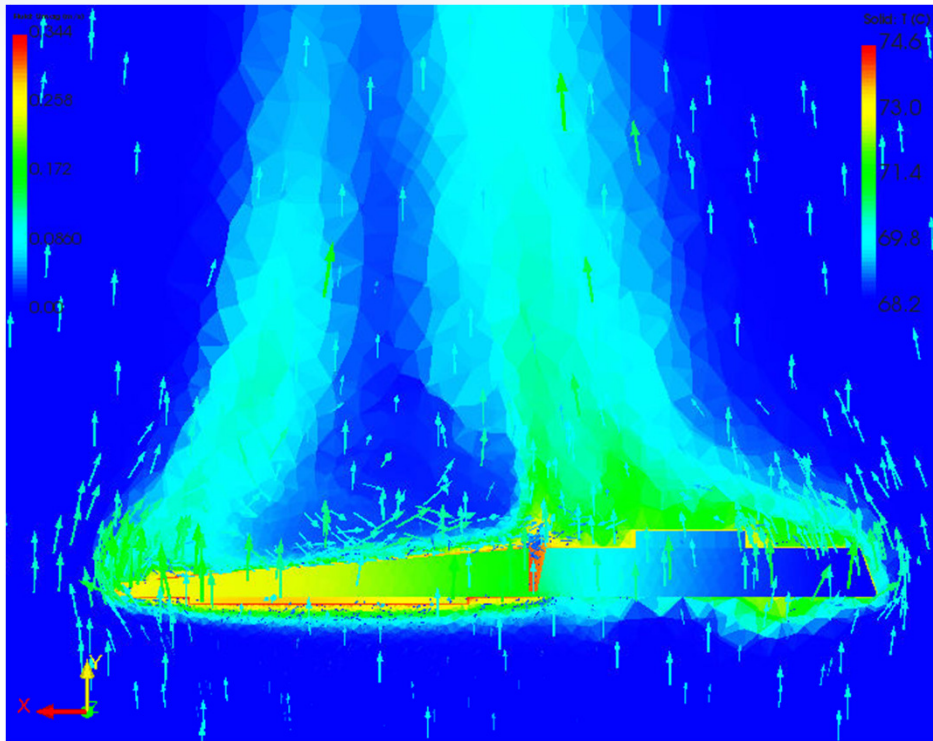
Driver - Position 2



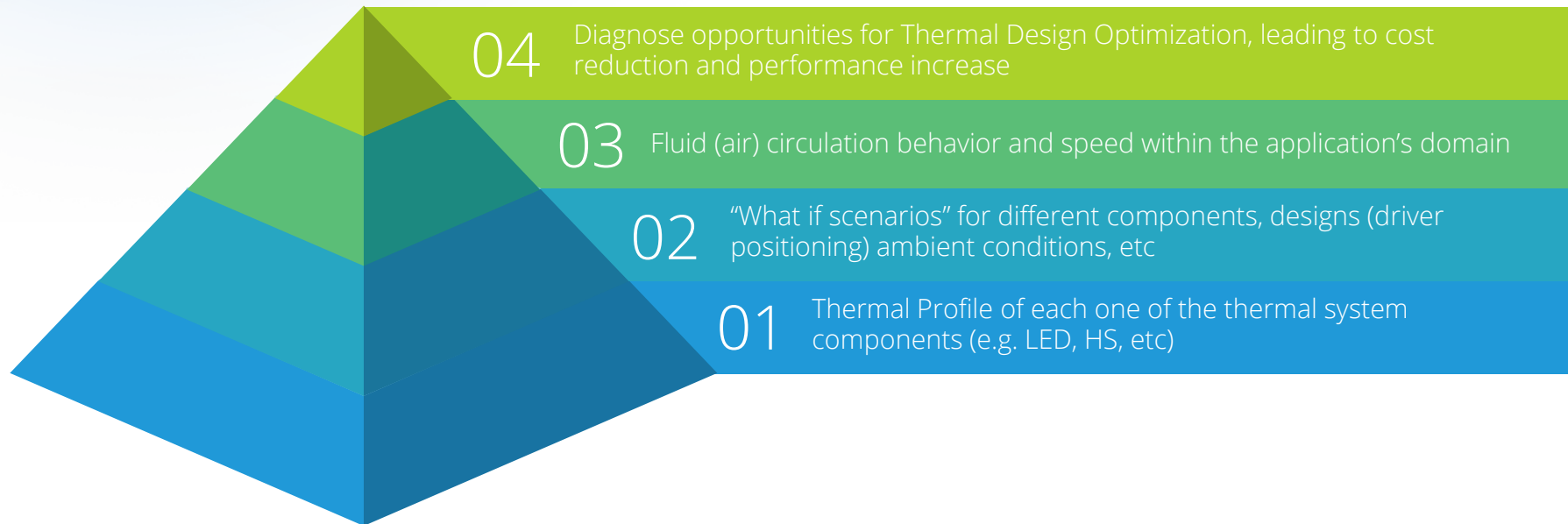
What can our CFD Solution do for you?



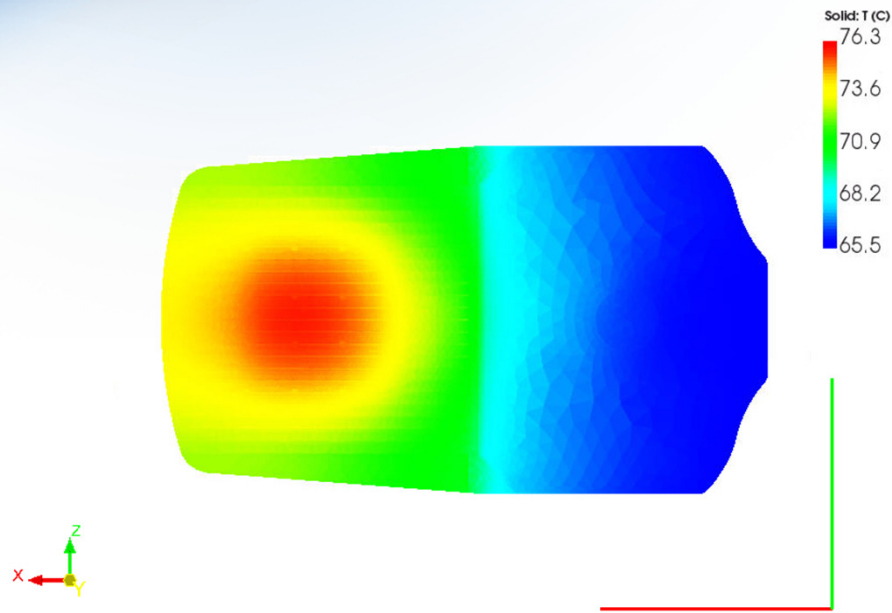
What can our CFD Solution do for you?



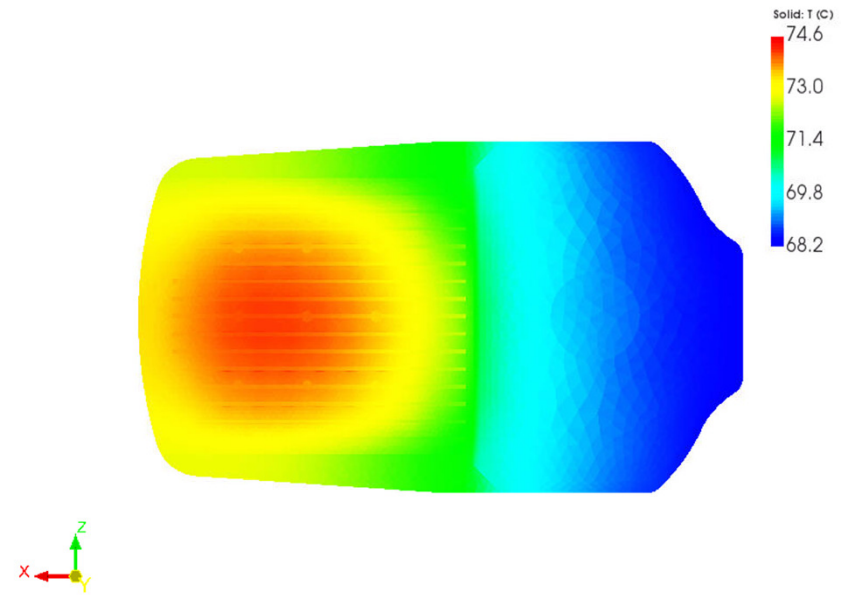
What can our CFD Solution do for you?



What can our CFD Solution do for you?



Design I
T_{max} 76,3°C



Design 2
T_{max} 74,6°C

How does it work?

