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# ROHDE & SCHWARZ

## THE CASE FOR SIMULATION

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The logo for 6SigmaET consists of a white icon of a pair of scissors cutting through a square, with a small circle at the end of the top-right corner of the square.

**6SigmaET**

## Simulation doesn't have to be slow

6SigmaET's research has found that many thermal engineers are unhappy with traditional simulation packages. One of the most common reasons cited for this dissatisfaction, is the slow speed at which many packages solve their simulations.

One organisation that struggled with the slow speeds associated with traditional simulation packages was international manufacturing and test brand, **Rohde & Schwarz...**

30%

of thermal engineers must spend over a day building their simulation models

41%

say that they will typically spend over an hour gridding their designs

66%

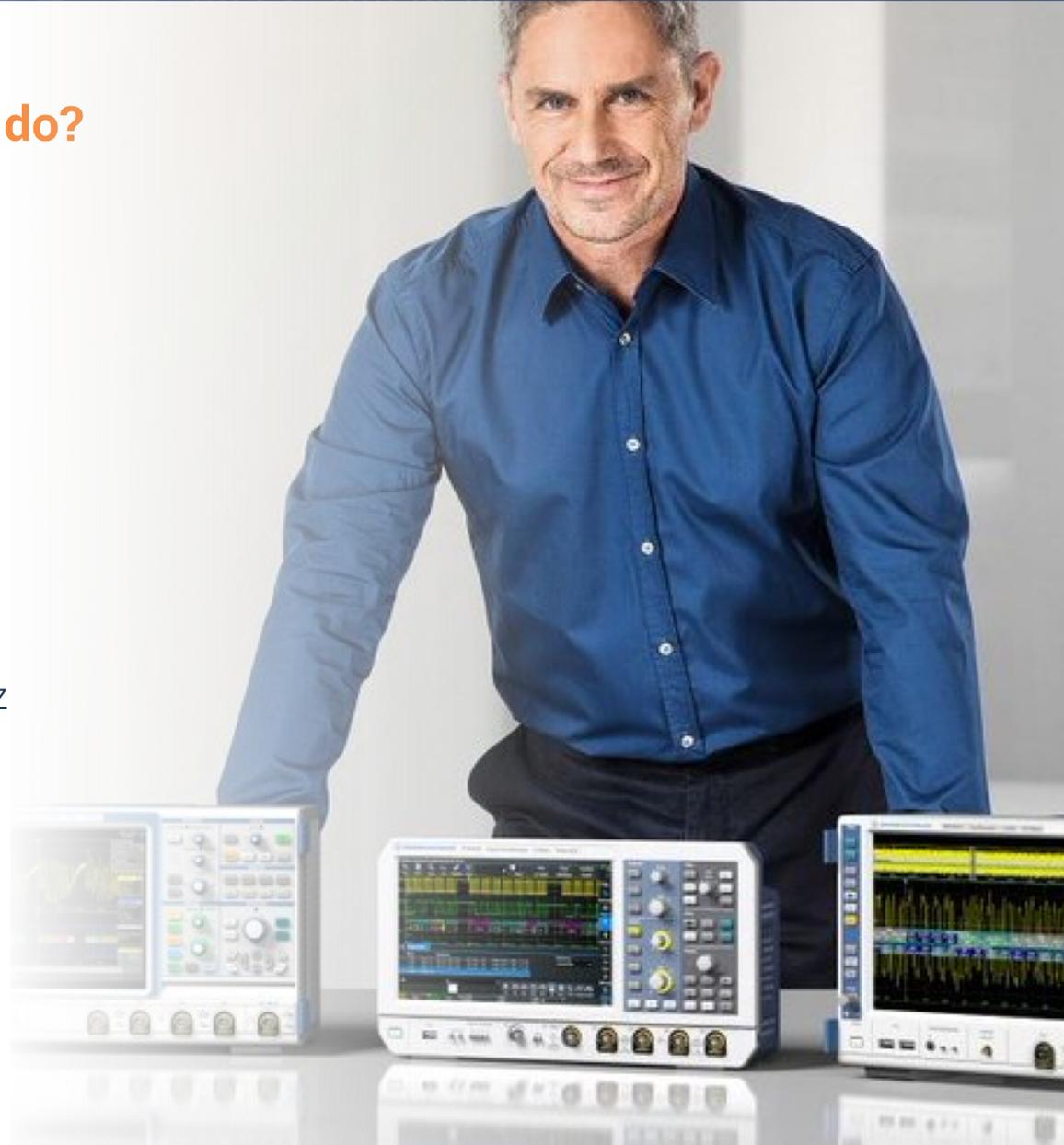
of thermal engineers spend a day or more solving their simulations

## What does Rohde & Schwarz do?

Founded more than 80 years ago, Rohde & Schwarz is one of the world's leading manufacturers of information and communications technology products. Initially focusing on RF engineering, test and measurement, the company has expanded to include radio-communications, IT security and broadcasting hardware.

In manufacturing such a wide array of products and devices, Rohde & Schwarz must guarantee that all of its products meet the highest standards of quality, precision and innovation.

And that's where thermal simulation comes in...

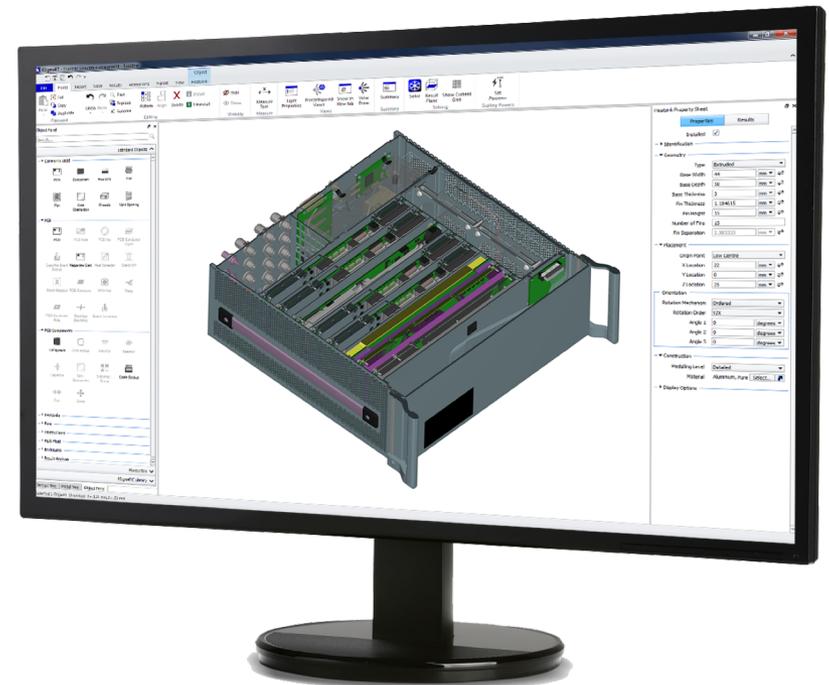


## How is Rohde & Schwarz using thermal simulation?

Rohde & Schwarz adopted 6SigmaET for use in its device designs, as well as some assembly use cases and chip designs.

With devices getting both smaller and more powerful, Rohde & Schwarz understood that thermal management was vital to ensure its products are reliable and meet the highest quality standards.

Having been let down by the limited functionality, and slow speeds, offered by previous simulation tools, Rohde & Schwarz turned to Future Facilities' 6SigmaET to offer a faster and more complete solution.



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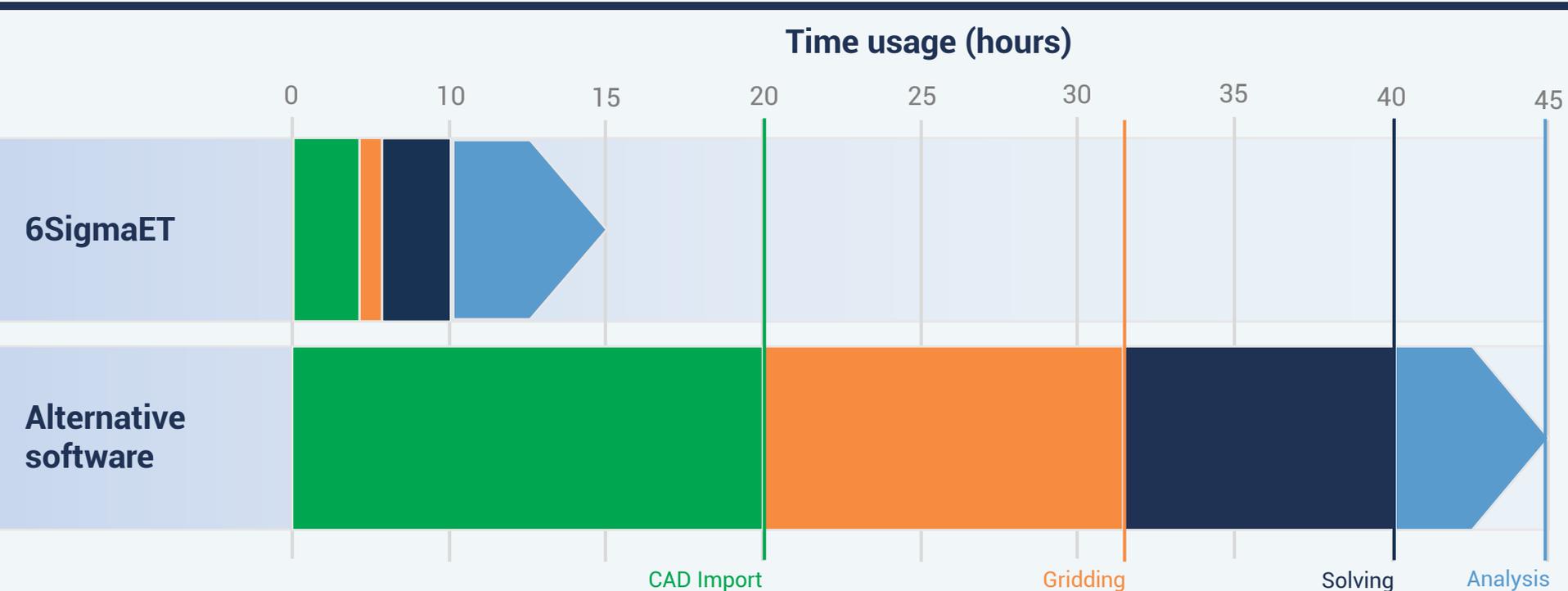
"The thermal simulation tools have to be accurate and should reduce the time of setting up the thermal model. Speed and accuracy are mandatory. Nevertheless, the tools also have to be user friendly, stable and have to have very good support."

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Raimund Blankenburg,  
Rohde & Schwarz

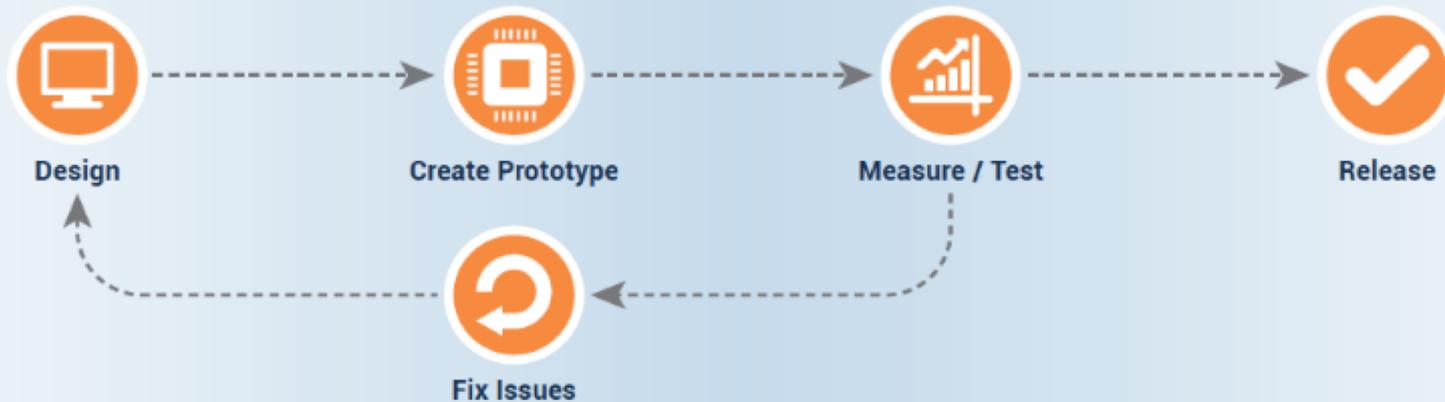
## 6SigmaET speeds up simulation...

In a side-by-side comparison conducted by Rohde & Schwarz, 6SigmaET was found to provide faster preparation time, faster pre-processing and faster solving times than a comparable thermal simulation software. This meant a total increase in efficiency of 35%.



## Simulation speeds up design...

The selection of 6SigmaET helped Rohde & Schwarz to significantly increase the speed of its thermal simulations. In turn, these simulations help to decrease the time required for prototyping and testing – ultimately improving the overall time-to-market.



## Simulation driven design



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"We wanted to have a tool that could directly use our CAD model in order to increase our productivity. It was a big surprise for us to see the functionality of 6SigmaET. Due to our comparison, it is definitely the best tool for R&S in the field of thermal simulation"

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Raimund Blankenburg,  
Rohde & Schwarz

[www.6sigmaet.info](http://www.6sigmaet.info)

 **6SigmaET**

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