

# YOU'RE IN GOOD HANDS.

With the calibration you can trust.

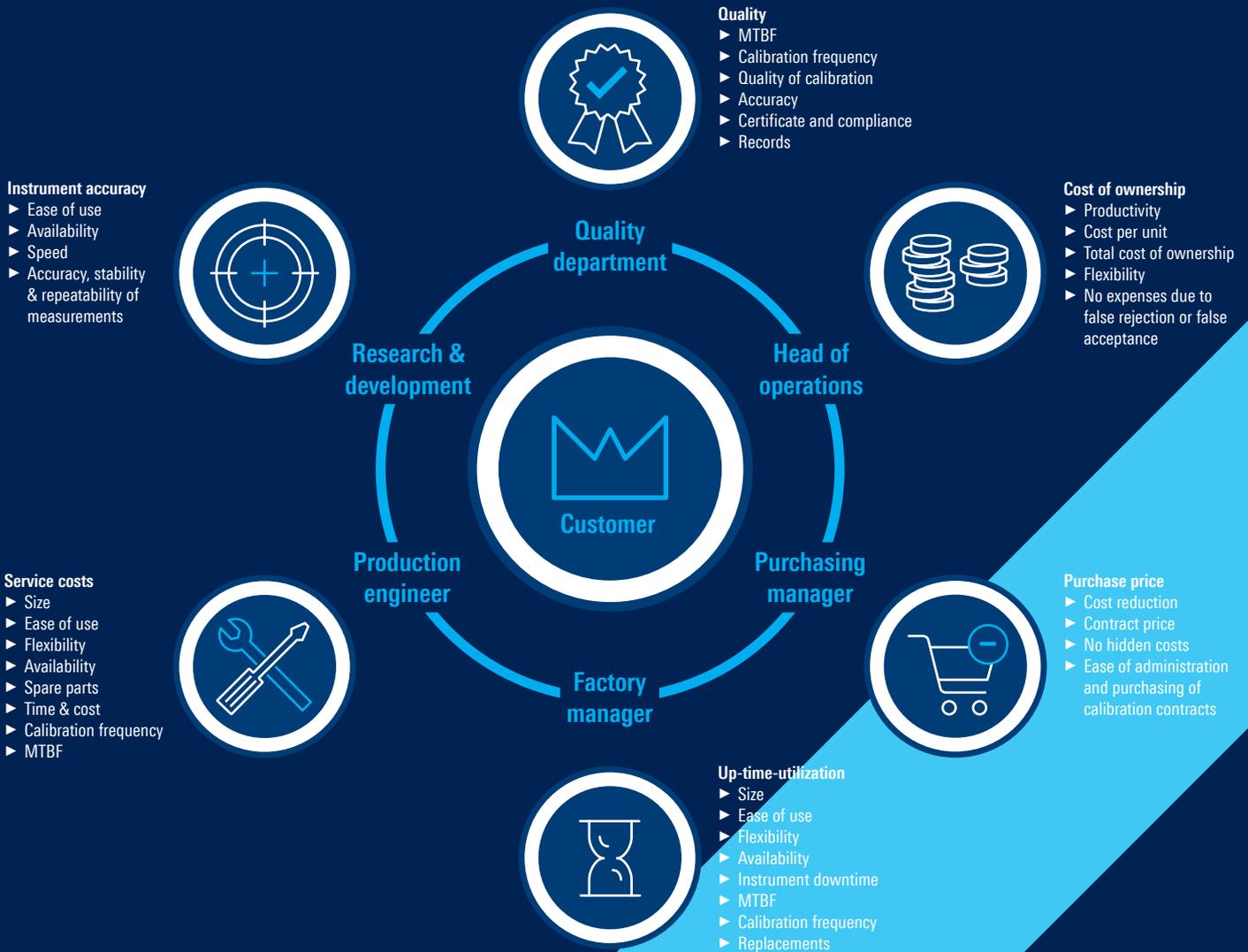


**ROHDE & SCHWARZ**

Make ideas real



# CHALLENGES AND COMPLEXITY ASK FOR ORIGINAL EQUIPMENT MANUFACTURER CALIBRATION



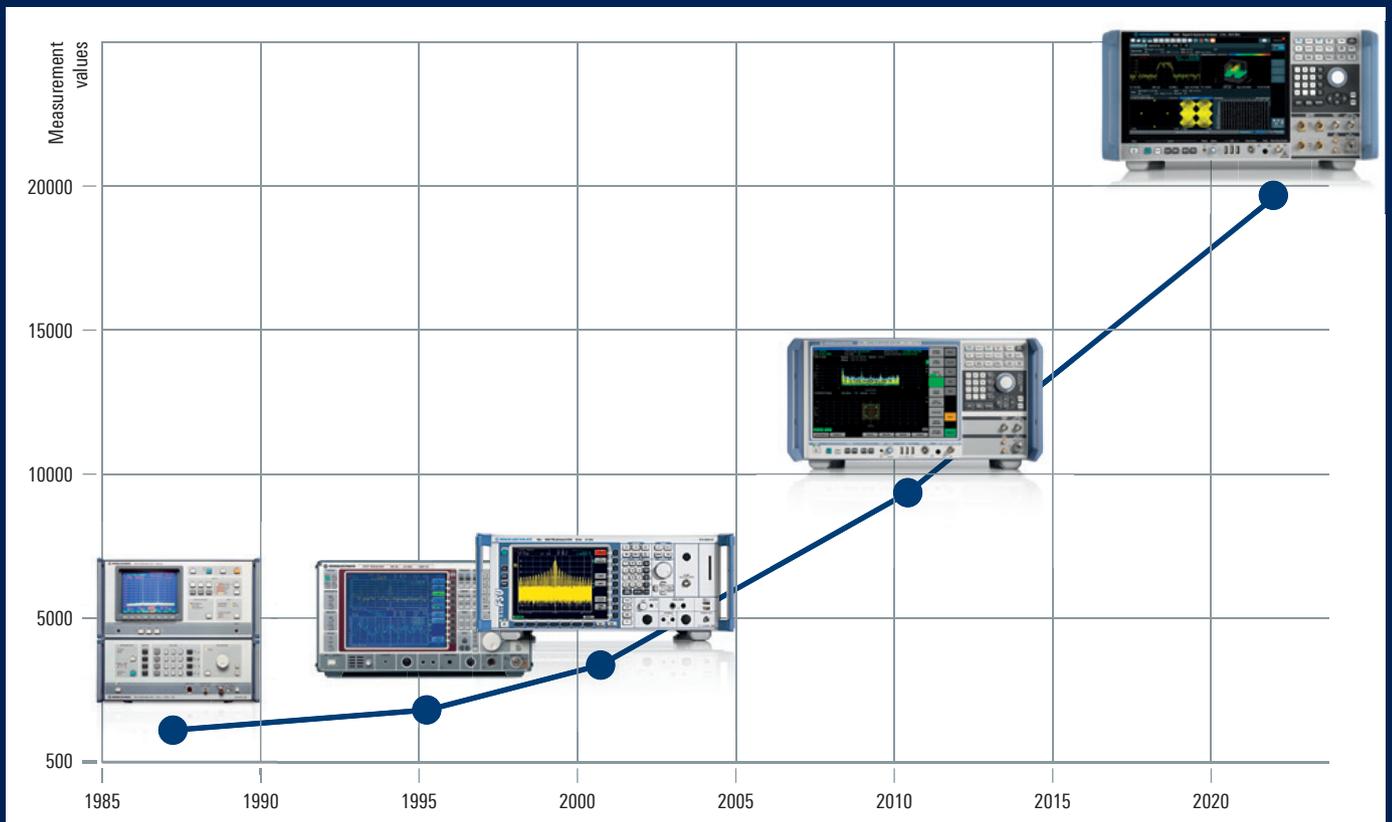
OEM = Original Equipment Manufacturer  
 MTBF = Mean Time Between Failure  
 ISO = International Organization for Standardization



### Complexity

Together with the performance of the instrument, so has the complexity grown. The number of measurement values to be tested doubled on average over the past 10 years. The margin for error is lower than ever, precision and high-quality measurements are a top priority. High-end calibration equipment in combination with automated procedures are needed to perform a comprehensive, high-quality calibration efficiently.

### History of R&S spectrum analyzers



# R&S CALIBRATION VERSUS 3RD-PARTY CALIBRATION



There are two aspects that together determine the quality of a calibration service:

- ▶ compliance to relevant standards
- ▶ coverage of technical parameters.

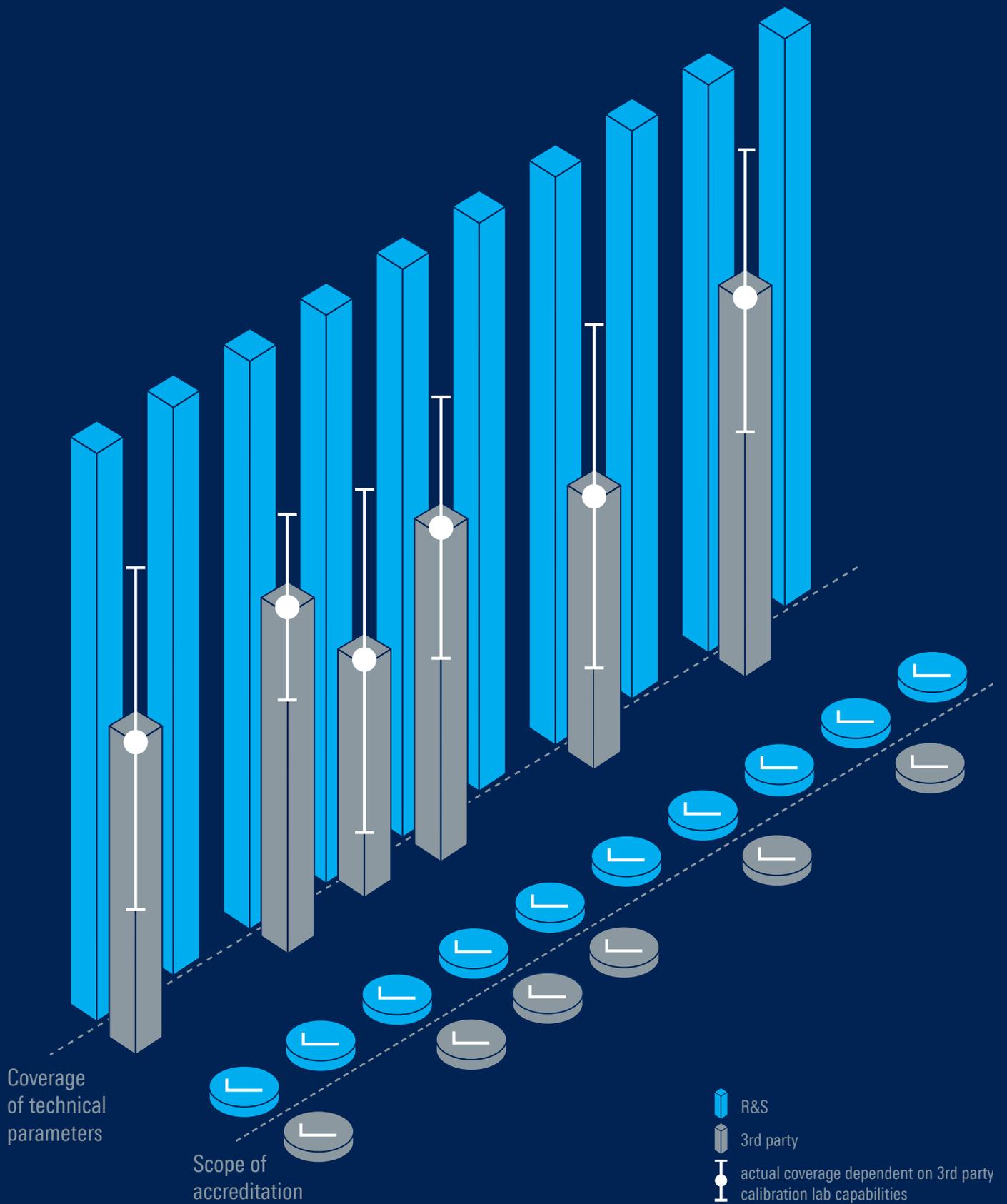
You have selected a Rohde&Schwarz instrument due to the fit of its technical capabilities and parameters to your needs. It is necessary that the calibration process covers all the technical parameters in the full performance range as specified in the data sheet.

Reviewed third-party calibration reports have shown that not all relevant parameters have been tested.

This can lead to serious and unpredicted gaps in your instrument's performance.

The scope of accreditation has to cover all parameters, if an accredited calibration is needed.





Check out the full infographic

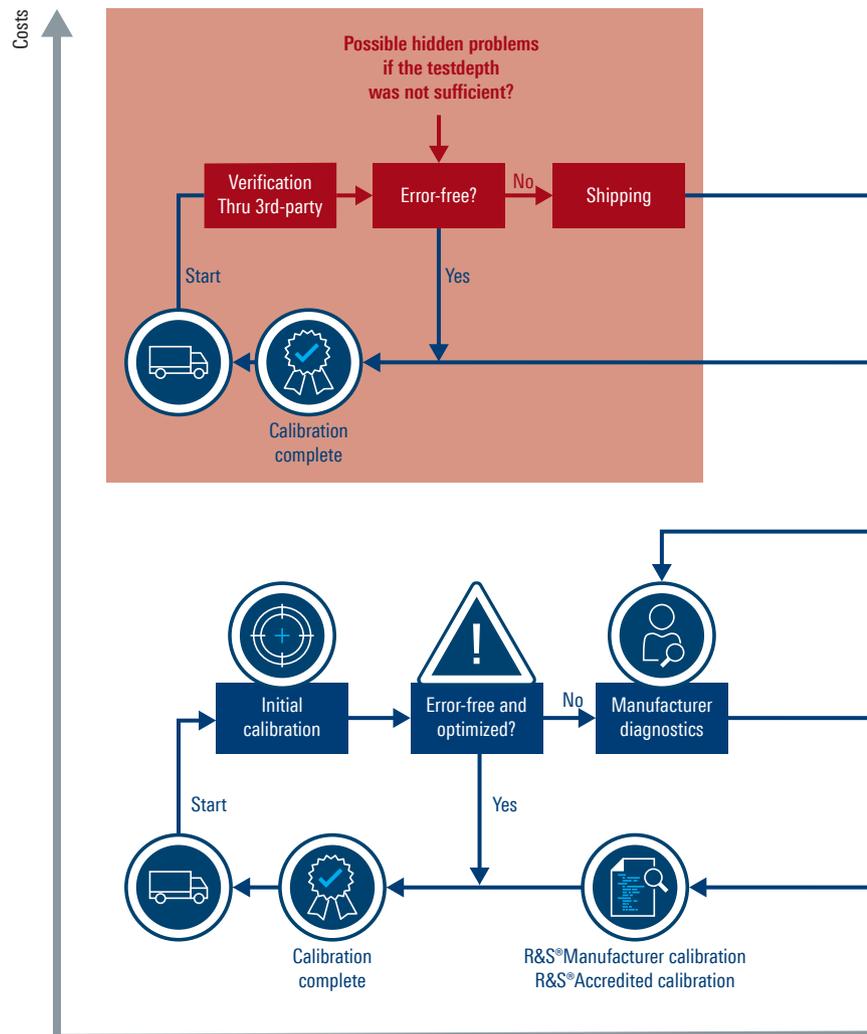
# THE OPTIMAL CALIBRATION PROCESS

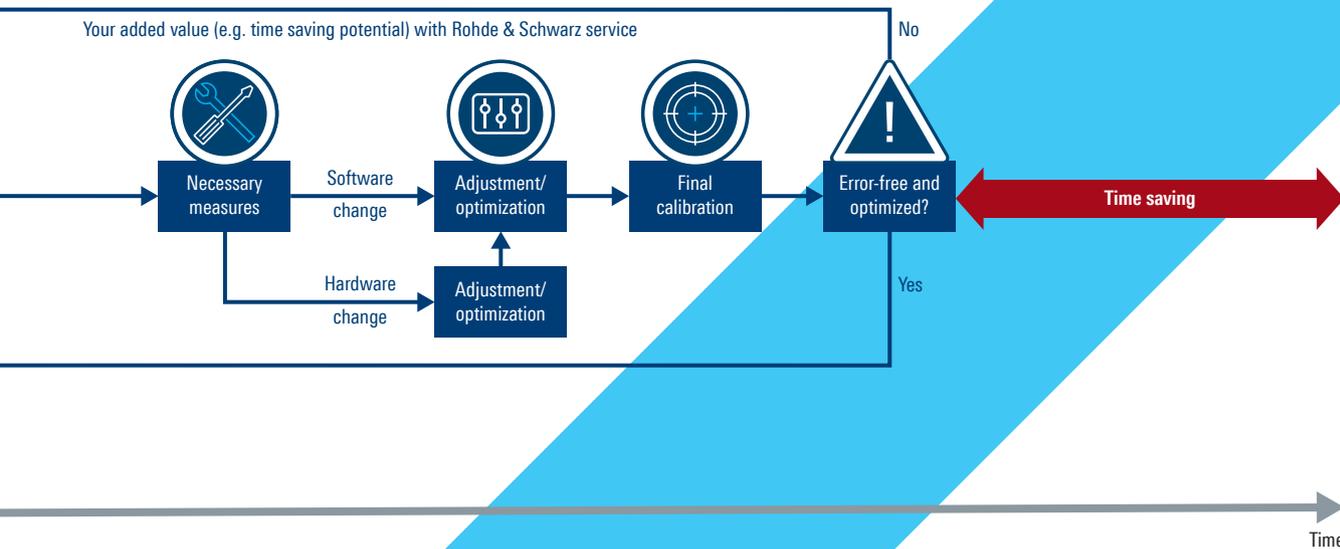
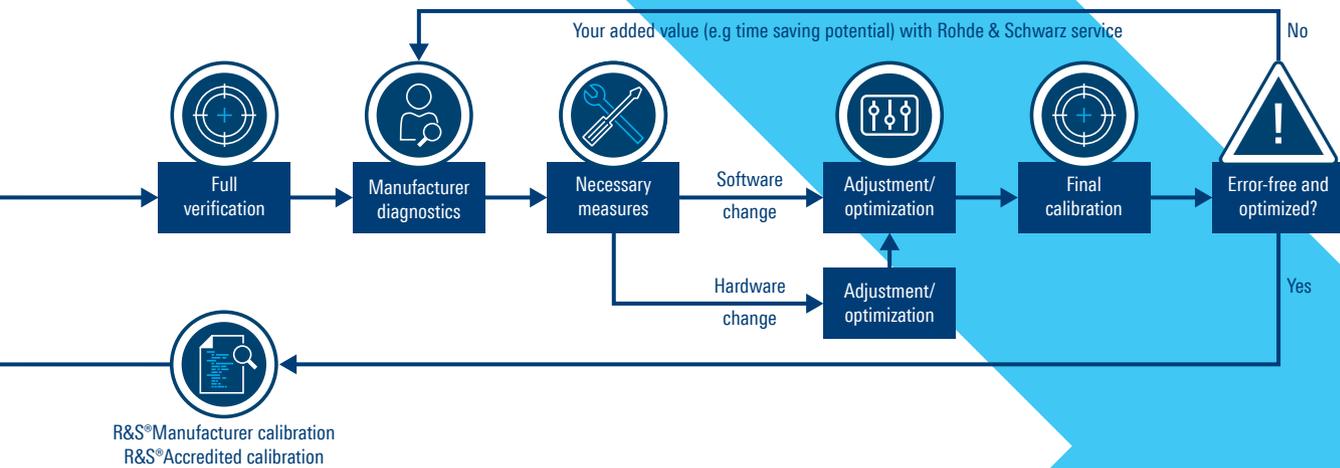
## Third-party calibration process

The red background represents potential third-party calibration actions – limited without specialized access to the OEM tools. Shipping to the manufacturer increases instrument's downtime and associated costs.

## R&S® Manufacturer Calibration process

The OEM process ensures that the instrument delivers the specified performance. It is also simpler, faster, cheaper, and more accurate.





# ENSURING THAT YOUR INVESTMENT PAYS OFF...

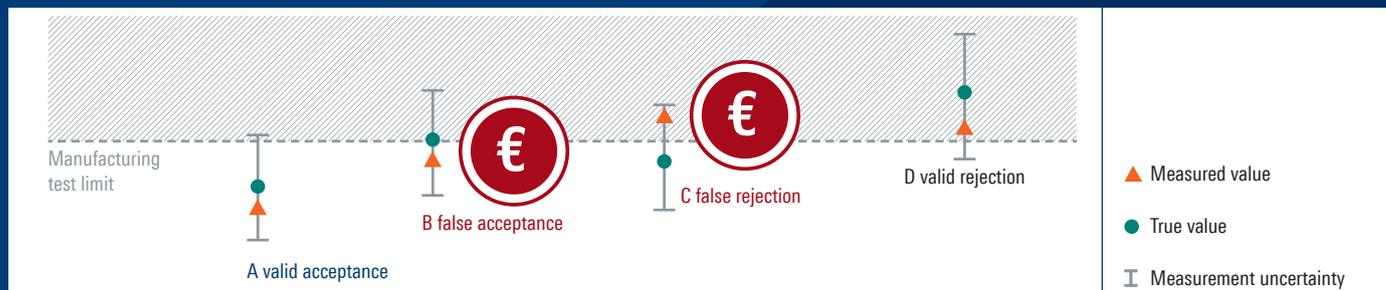


## You decided to buy Rohde & Schwarz test & measurement instruments for good reasons:

- ▶ You had a specific application/solution?
- ▶ There were specific normative/standard requirements?
- ▶ You required leading-edge measurements performance?

## Ask yourself:

- ▶ Why risk the performance and accuracy of such a valuable instrument?
- ▶ How can you improve your calibration process efficiency (reduced downtime and smoothed administrative processes) and ensure your investment?
- ▶ How can hidden and subsequent costs and efforts be avoided?



# ...BY PRECISION GUARANTEED WITH AUTOMATIC ADJUSTMENT



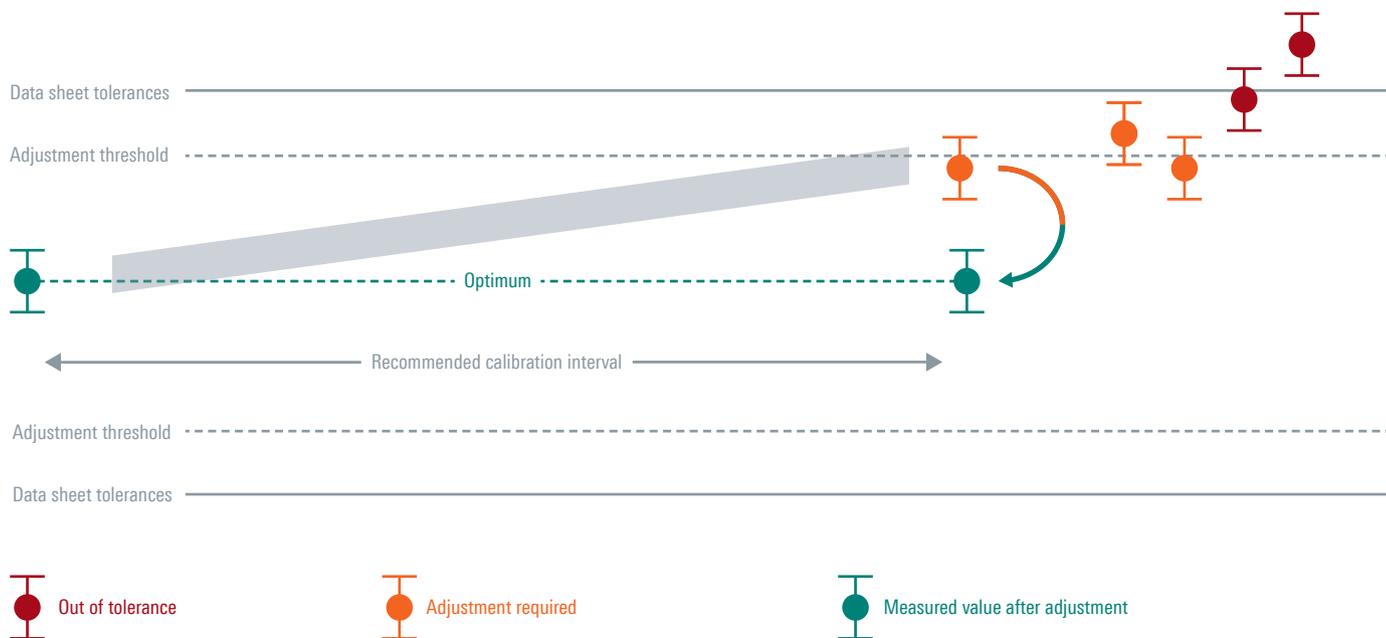
## Our ISO compliant calibrations help minimize:

- ▶ Measurement errors
- ▶ Scrap rates or rework during production
- ▶ Development times

## Keep your investments in shape

During the R&S<sup>®</sup>Manufacturer-Calibration, your instruments are checked for deviations and automatically adjusted to their optimal performance.

Not only do we make adjustments when values fall outside the tolerance range – we also optimize deviating values even when they fall within the acceptable tolerance range.



Case	Measured value	True value	Research & development	Production
A	Pass	Pass	No action	No action
B	Pass	Fail	Troubleshooting & further costs	Recalls, warranty and liability costs
C	Fail	Pass	Troubleshooting	Decreased productivity yield (reworked and discarded)
D	Fail	Fail	No action	No action

# ON-SITE CALIBRATION TO MINIMIZE DOWNTIME



**Service solution tailored to your specific needs**

**Maximum** availability, minimum downtime

Professional calibration and **maintenance** to keep your valuable investment in the best shape

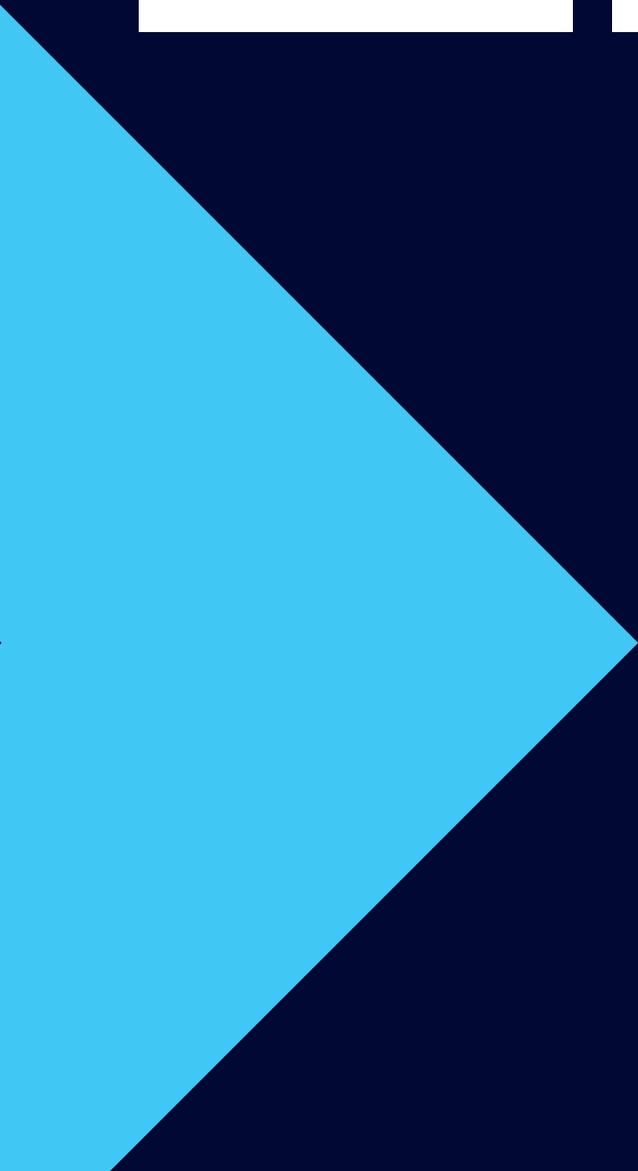
**Accredited calibrations**, manufacturer and performance calibrations

**Flexibility to fulfill your individual requirements**

**No transportation risks** or costs

Precise and **traceable measurements**

**Highly qualified staff** to support you with all technical issues



## Service at R&S

### You're in good hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

## Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)

## Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

**ISO 9001**

Certified Environmental Management

**ISO 14001**

## Rohde & Schwarz training

[www.training.rohde-schwarz.com](http://www.training.rohde-schwarz.com)

## Rohde & Schwarz customer support

[www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support)



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You're in good hands

Data without tolerance limits is not binding | Subject to change

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