

# YOU'RE IN GREAT HANDS

Calibration  
you can trust

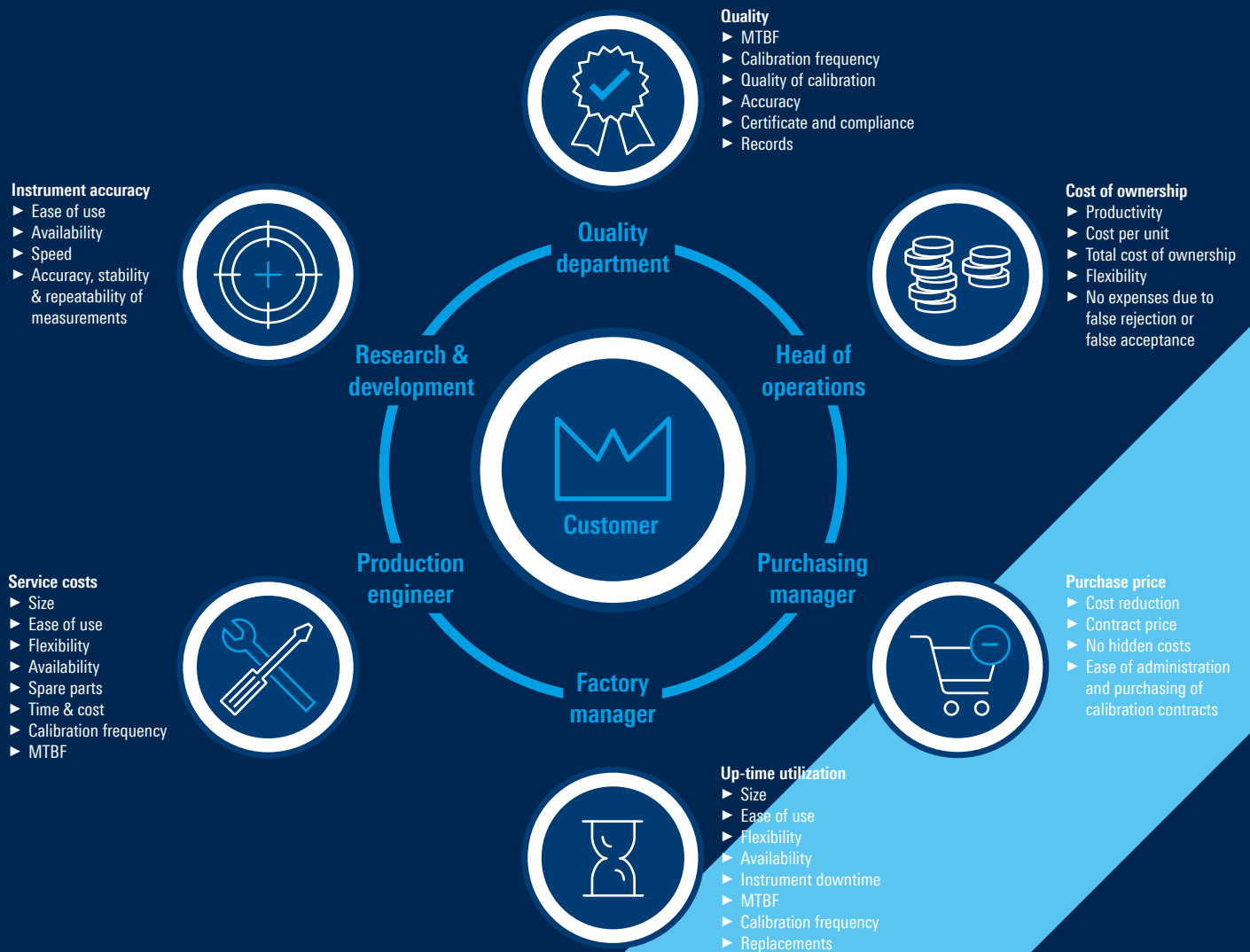


**ROHDE & SCHWARZ**

Make ideas real



# CHALLENGES AND COMPLEXITY DEMAND ORIGINAL EQUIPMENT MANUFACTURER CALIBRATION



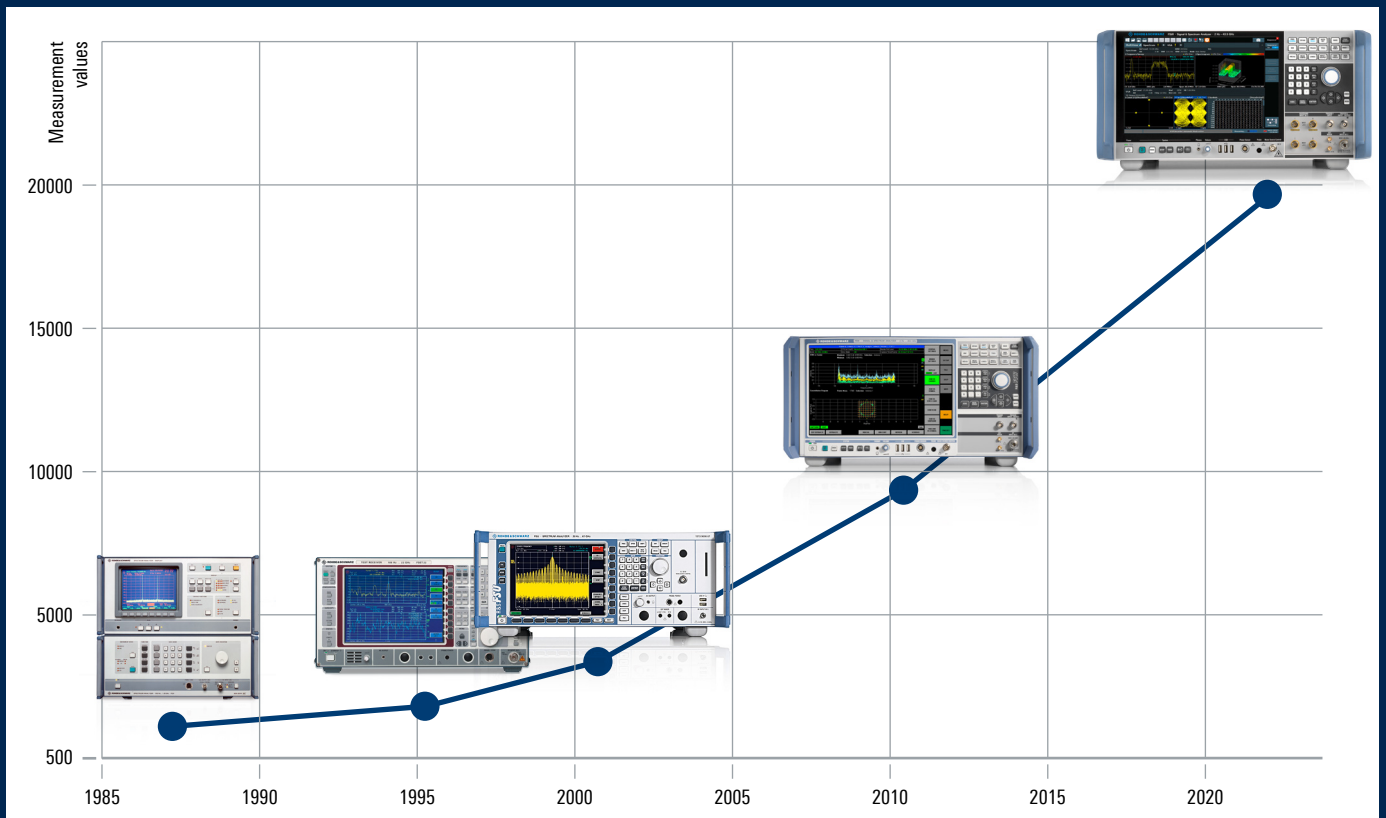
MTBF = Mean Time Between Failure  
 ISO = International Organization for Standardization



### Complexity

Instrument performance has steadily improved, but with better performance comes greater complexity. On average, the number of measurement values requiring testing has doubled every ten years. Margins of error are narrower than ever, and precise, high-quality measurements are a top priority. High-end calibration equipment in combination with automated procedures is a must for efficient, comprehensive and high-quality calibration.

### Rohde & Schwarz spectrum analyzer history



# ROHDE & SCHWARZ CALIBRATION VS. THIRD-PARTY CALIBRATION



Many factors determine the quality of a calibration service, e.g., such as:

- ▶ Compliance with relevant standards
- ▶ Coverage of technical parameters-test depth

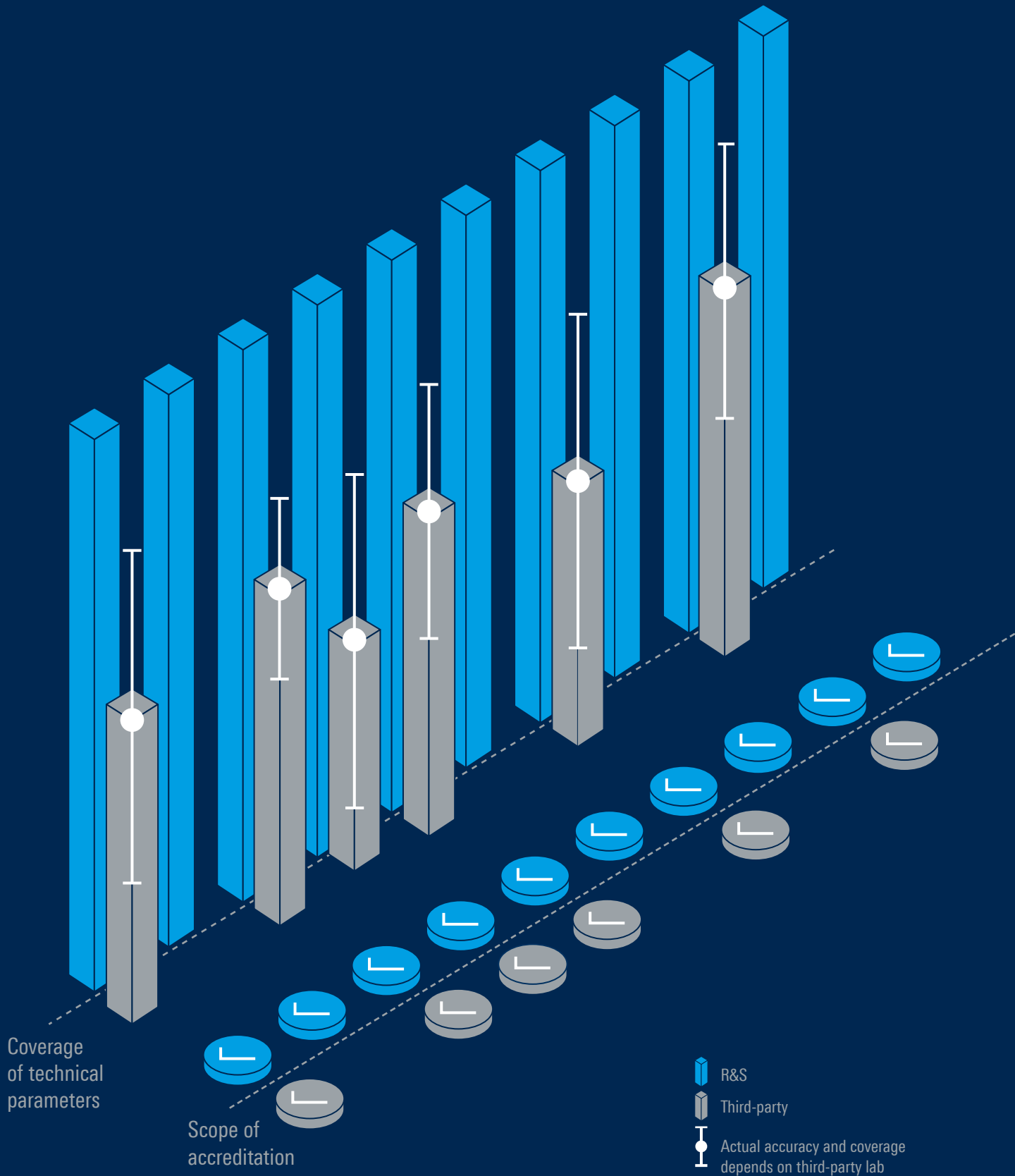
A Rohde&Schwarz instrument has the technical capabilities and parameters to meet your needs. So, the calibration process has to cover all the technical parameters over the full performance range specified in the data sheet.

A review of calibration reports from third-party providers reveals that they do not always test all the relevant parameters.

This can lead to serious, unpredictable gaps in instrument performance.

Accredited calibrations should cover the scope of accreditation for every parameter.



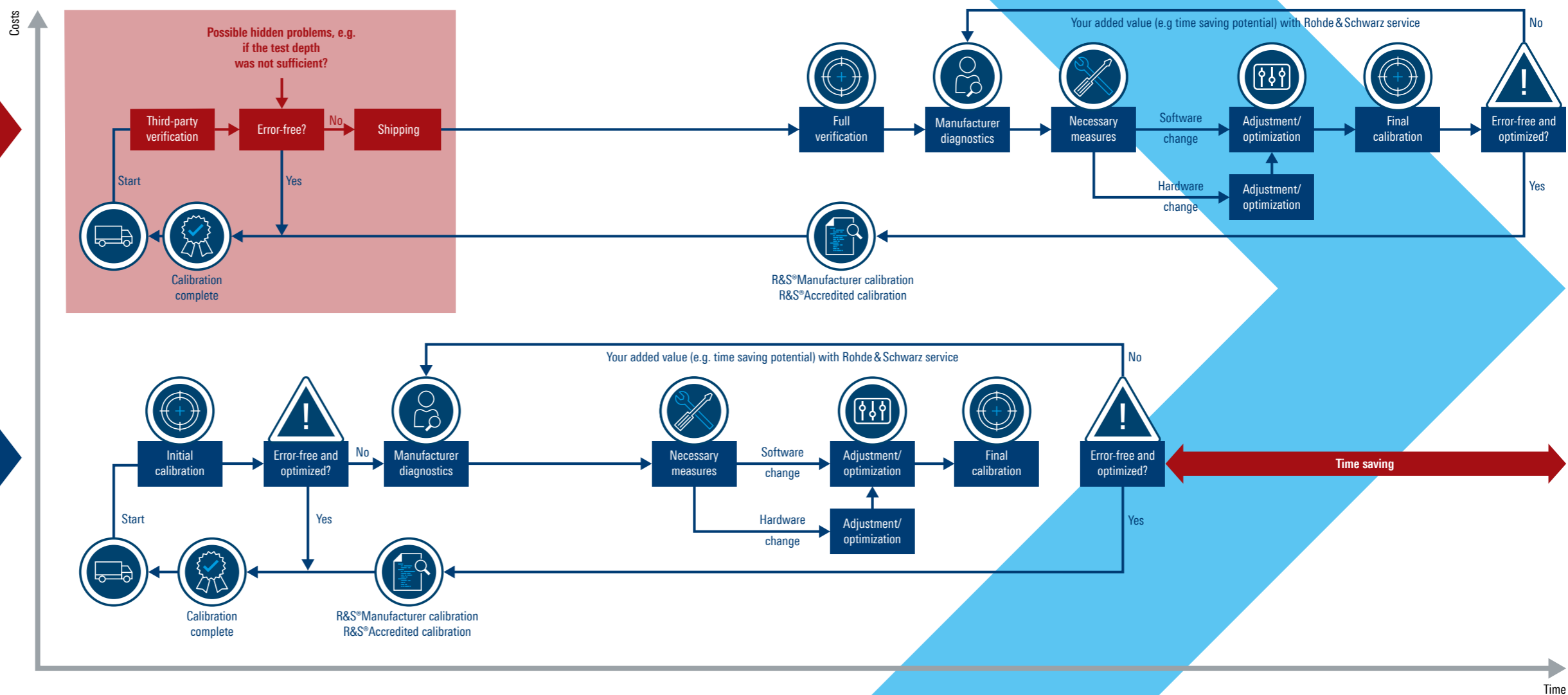


Check out the full infographic

# THE OPTIMAL CALIBRATION PROCESS

**Third-party calibration process**  
 The red background represents potential calibration steps performed by third-party providers with no specialized access to OEM tools. Shipping to the manufacturer increases instrument downtime and associated costs.

**Rohde & Schwarz OEM calibration process**  
 The OEM process ensures that the instrument is tested and performs as specified. It is also simpler, faster, cheaper and more accurate.



OEM = Original Equipment Manufacturer

# ENSURE YOUR INVESTMENT PAYS OFF...

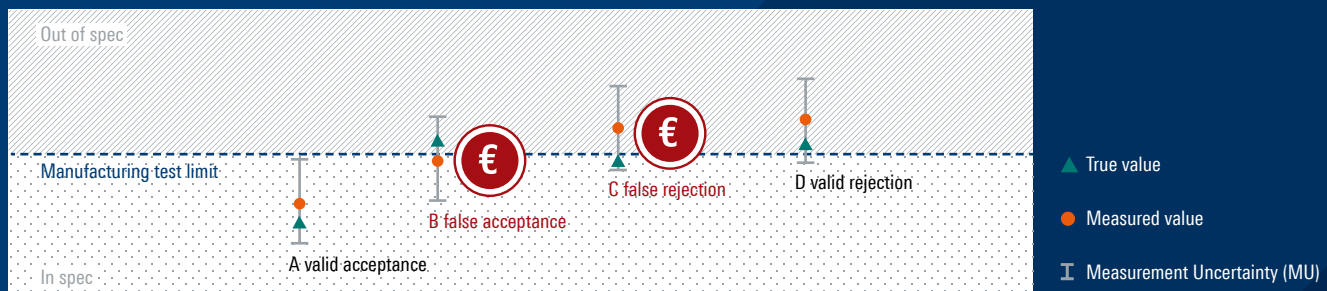


## There are many good reasons to buy Rohde & Schwarz test and measurement instruments:

- ▶ You need specific applications or solutions
- ▶ You want to comply with a specific standard
- ▶ You expect leading-edge measurement performance

## Why Rohde & Schwarz calibration services:

- ▶ To ensure maximum performance and accuracy of your instrument
- ▶ To improve calibration efficiency (reduced downtime and streamlined administrative processes) and secure your investment
- ▶ To avoid hidden costs and added work



# ...WITH GUARANTEED PRECISION AND AUTOMATIC ADJUSTMENT

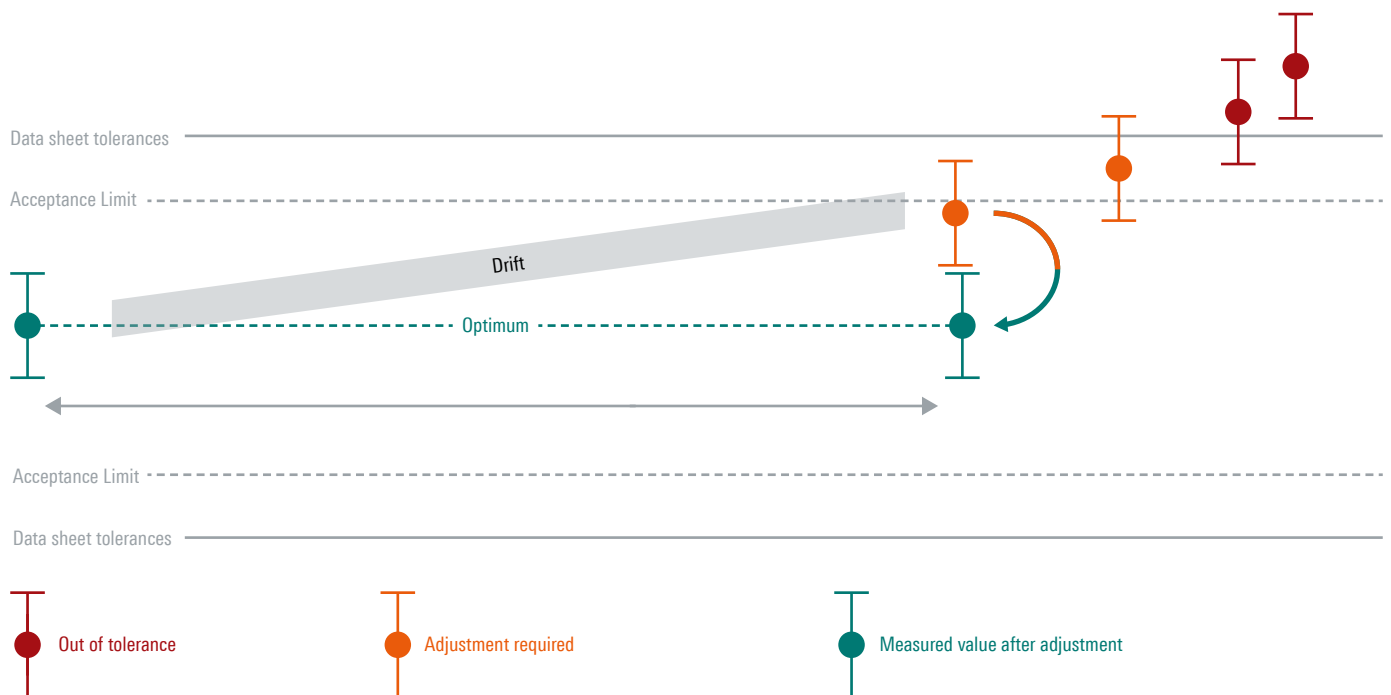


## Our manufacturer calibration helps minimize:

- ▶ Measurement errors
- ▶ Scrap rates and rework in production
- ▶ Development times

## Protect your investment

In the Rohde & Schwarz manufacturer calibration process, your instruments are checked for deviations and automatically adjusted to optimize performance. We make adjustments when values fall outside the tolerance range and even optimize deviating values when appropriate.



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

**01** Get in touch with your sales engineer

**02** Provide equipment list and specify individual requirements

**03** Kickoff planning meeting for campaign e.g. environmental requirements, alignment of schedule

**04** R&S on-site calibration campaign takes place

**05** Handover of calibration certificates

**06** Review meeting and final report

**07** Reserve your slot for next year's campaign now

## Service solution tailored to your specific needs

**Maximum** availability,  
minimum downtime

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

**Calibration products**  
matching your needs

## Optimized time, costs and content

Mutually agreed timing  
allows **perfect planning**

Precise and **traceable**  
**measurements**

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

**Service at Rohde & Schwarz**  
**You're in great 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 90 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 great hands

Data without tolerance limits is not binding | Subject to change

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