



HOW DO YOU LEVERAGE MATERIALS SCIENCE TO GAIN A **COMPETITIVE EDGE?**

 eurofins

EAG  
Laboratories

# HOW DO YOU TURN GREAT CHALLENGES INTO GREAT SOLUTIONS?

## SERVICES



### **SURFACE ANALYSIS**

Understanding the composition, cleanliness, contaminant levels and roughness of surfaces to investigate issues with adhesion, corrosion and surface chemistry

### **MATERIALS CHARACTERIZATION**

Information about material properties include interface sharpness, depth distribution of a particular element, morphology, crystal structure and component identification

### **COMPOSITIONAL ANALYSIS & MATERIAL IDENTIFICATION**

To determine the components of an unknown, confirm the identity of a suspect material or identify differences between similar materials

### **CONTAMINANT IDENTIFICATION**

From determination of a chemical family to complete structure elucidation, to determine the source and measure the effectiveness of contaminant removal and cleaning

### **TRACE ELEMENTAL ANALYSIS**

Determination of the chemical purity of materials to identify and eliminate contamination in advanced materials, typically categorized as mass fractions from 1 – 100 ppm

### **ADVANCED MICROSCOPY**

Imaging techniques to investigate sample microstructure, morphology, particle size, grain size, particle coatings and defects

### **FAILURE ANALYSIS**

To investigate fractures, corrosion, discoloration, wear, adhesion/bonding and stress-related issues

### **DEFORMULATION**

Also known as reverse engineering: the separation, identification and quantitation of ingredients in a formulation

### **METALLURGICAL ANALYSIS**

Metallurgical analysis of various metallic and non-metallic products and components used in the aerospace, transportation, consumer products, construction and medical device industries

### **POLYMER CHEMISTRY**

Plastic and polymeric material testing for physical and mechanical properties, thermal properties and chemical composition analysis

### **EXTRACTABLES & LEACHABLES**

Identification of chemicals released or migrated from a product under normal or stressed conditions

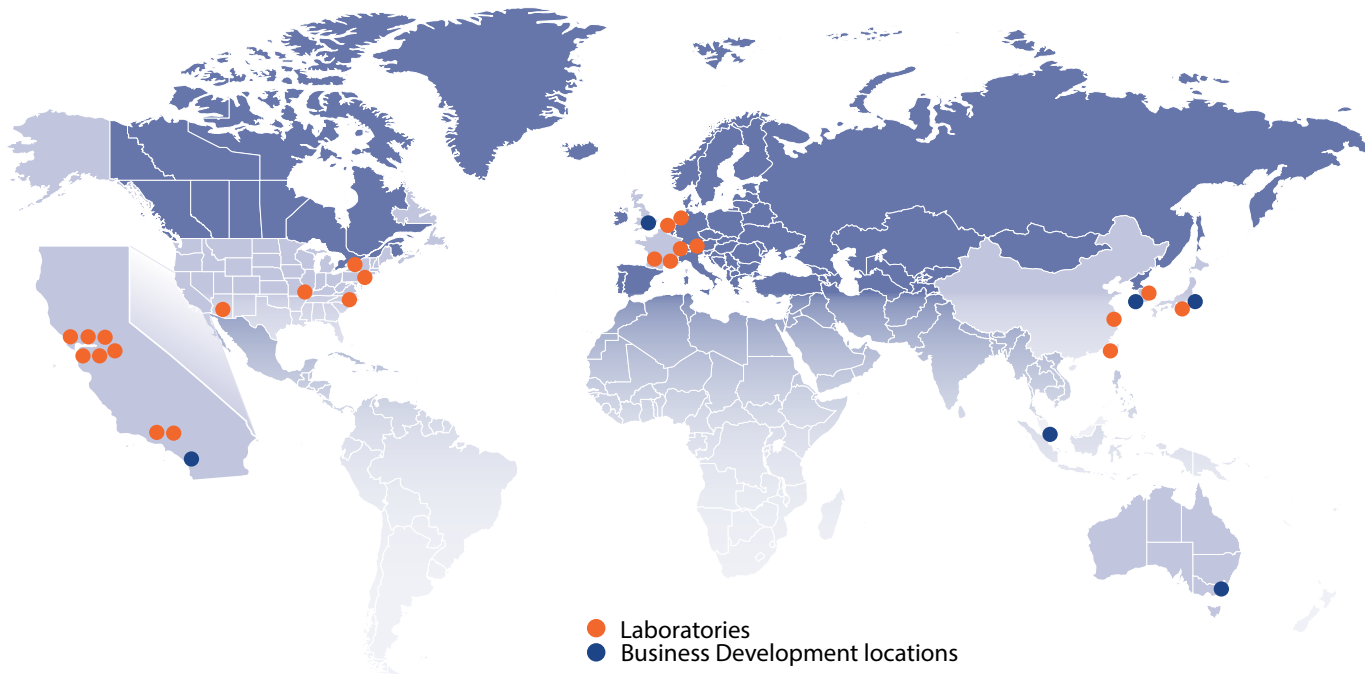
### **CUSTOM SYNTHESIS**

Research of synthetic routes, as well as design and preparation of small organic molecules in the milligram to kilogram scale

### **LITIGATION SUPPORT**

When your need for scientific expertise extends beyond the laboratory and into the courtroom, you can count on Eurofins EAG Laboratories' team of experienced expert witnesses to support intellectual property and product liability challenges

## BRING THE REVOLUTIONARY POWER OF MATERIALS SCIENCE TO YOUR COMMERCIAL SUCCESS



When it comes to understanding the physical structure, chemical properties and composition of materials, no other scientific services company offers the breadth of experience, diversity of analytical techniques or technical ingenuity of Eurofins EAG. We don't just perform testing, we drive commercial success—through thoughtfully designed investigations, technically superior analyses and expert interpretation of data.

- 20+ facilities located in the US, Europe and Asia
- 1,000+ highly-educated employees,
- Serving more than 5,000 clients worldwide
- Revenue sourced from more than 50 countries

### EVERY STEP OF THE WAY

Whether you're evaluating high technology materials, composites, polymers, superalloys or something entirely unique, ask Eurofins EAG Laboratories. We bring the power of materials sciences to every phase of your product life cycle.



PRODUCT INNOVATION & IMPROVEMENT



INVESTIGATION & TROUBLESHOOTING



QUALITY ASSURANCE



REGULATORY COMPLIANCE



MANUFACTURING & SUPPLY CHAIN SUPPORT

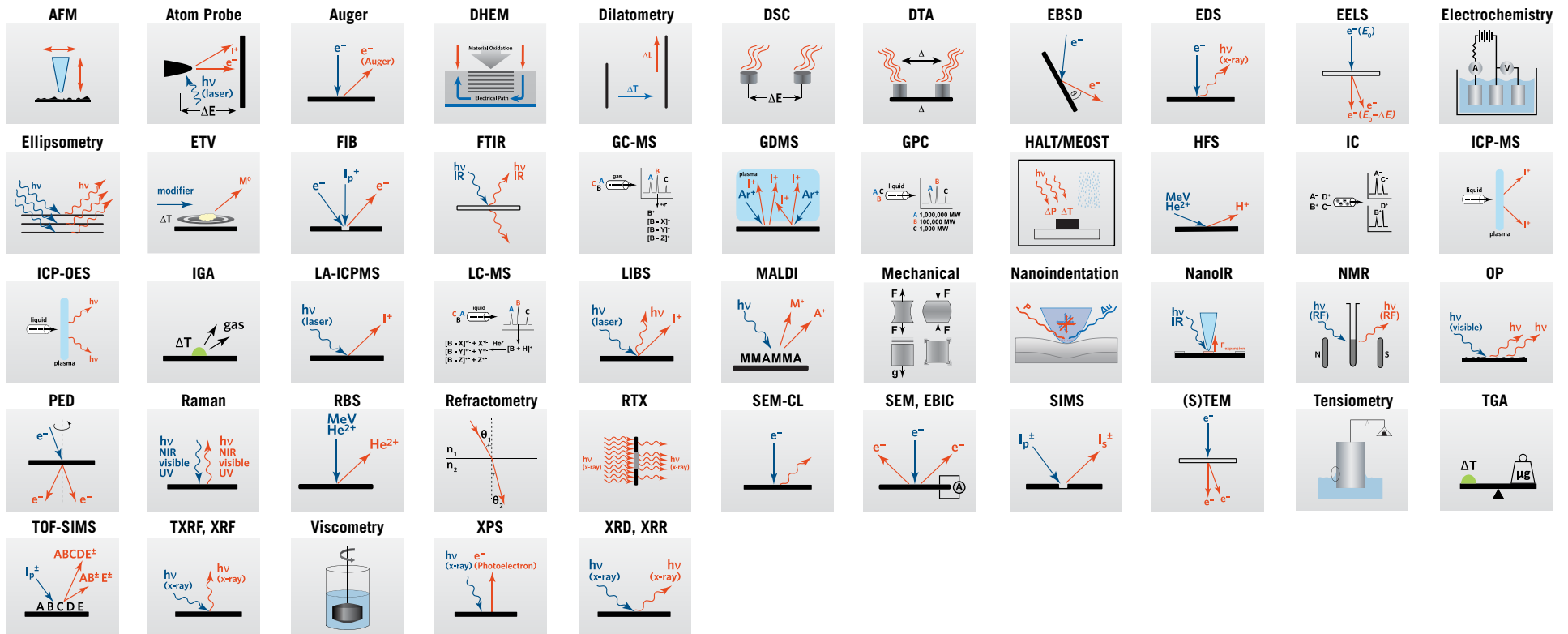
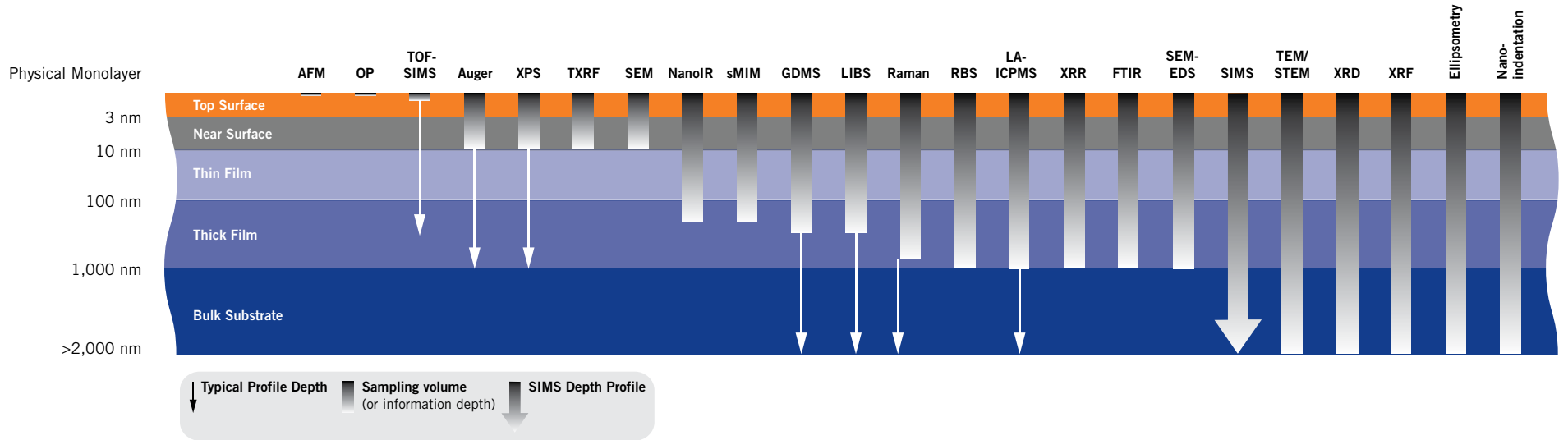


CONSULTING & LITIGATION SUPPORT

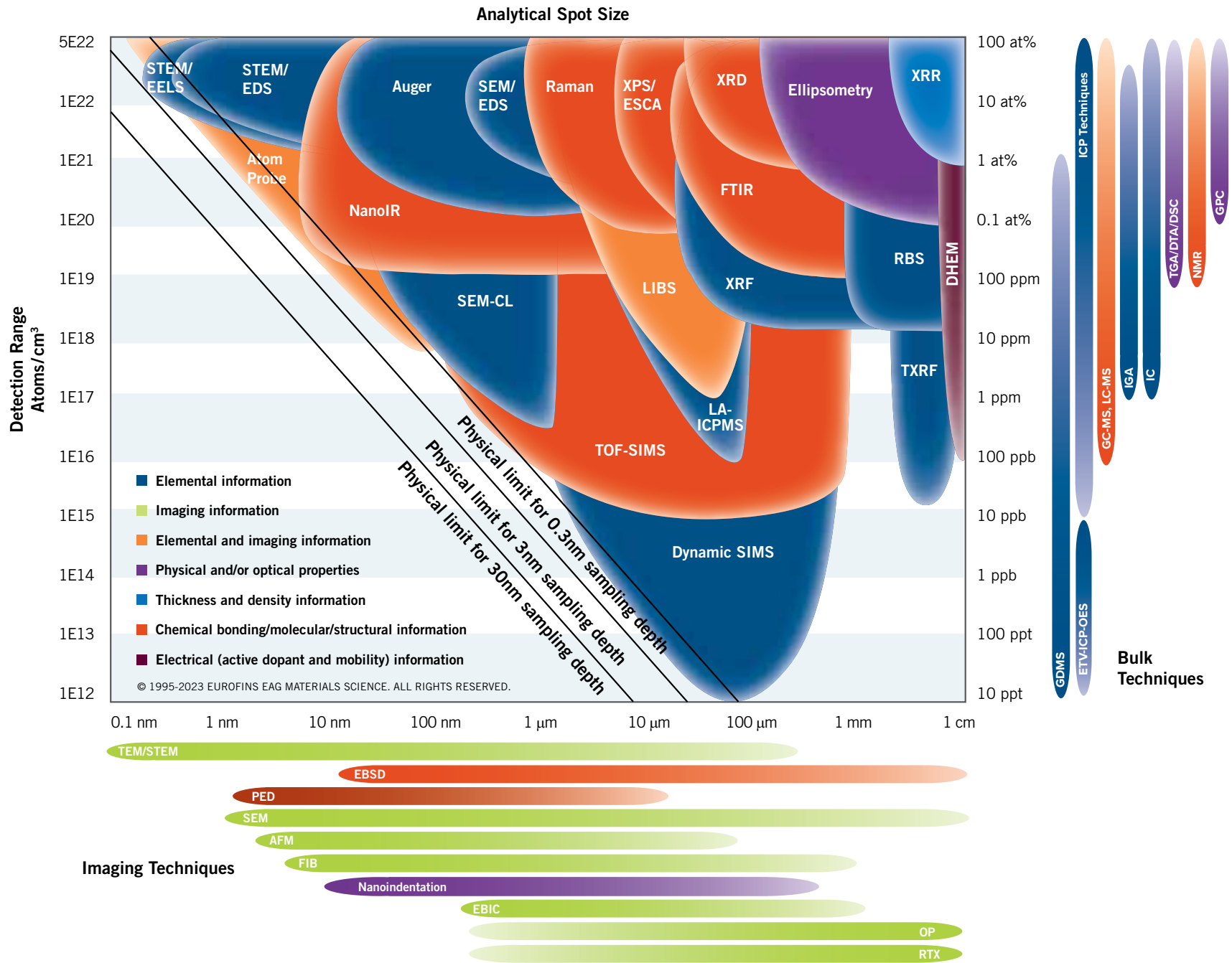


In 2017, EAG Laboratories became part of the Eurofins Scientific global network, with more than 45,000 employees in 650 locations in 45 countries worldwide.

# TYPICAL ANALYSIS DEPTHS FOR TECHNIQUES



# ANALYTICAL RESOLUTION VERSUS DETECTION LIMIT





[WWW.EAG.COM](http://WWW.EAG.COM) +1 800 366 3867