

## Chem-Bio-Rad Intelligence and Analysis

The ELAB is a radical transformation of the business of environmental analysis and testing for the radical and changing news of our society today.

New types of ENERGY and FUEL demand changes in methods and responsiveness for analysis and problem-solving.

It is not only about Compliance or Emissions and it is not only something in the plant or in the neighborhood around it.

Today, with very real global climate changes, with increased and unpredictable global conflict and terrorism of all brands and types, with economic competition and rapid shifts in supply, demand, and product alternatives, companies and communities need more than just the conventional lab. We employ and have expertise in:

- ◆ GC and HPLC
- ◆ GC/MS
- ◆ AA and ICP
- ◆ AFM and Raman
- ◆ FTIR and UVS
- ◆ PCR and Immunoassay
- AND -

Base Lab  
+  
Mobile Pod Labs

We provide Intelligence, Investigation and Informatics. We do all the conventional sample testing but More. We specialize in working with you to identify and solve Problems even Before they Start, and we work to give you Solutions for Tomorrow, not only Today.

Contact us for:

- ◆ Comparative Studies and Reports
- ◆ Cost Plans, Schedules and Quotations

### Clients and Partners include:

Boeing Intel  
Solutia Wal-Mart  
Aegis Ontario Power  
Global Information Systems  
Dept. of Defense (USA)  
Dept. of Homeland Security (USA)  
Dept. of Energy (USA)



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# TETRAD INNOVATION

**Discovery**  
**Adaptation**  
**Reaction**  
**Evolution**



## ELAB

### Rapid-Deploy, Mobile Environmental Analysis

**HRVOC, IDLH, Trace Compounds  
and Elementals Testing in order to  
provide Process Solutions**

## PROBLEM Examples

Hydrogen production – too-high sulfur content, an issue to meet performance and regulatory specs

Nitrogen – hardly innocent, if workers are in a tank or chamber and there is no more oxygen.

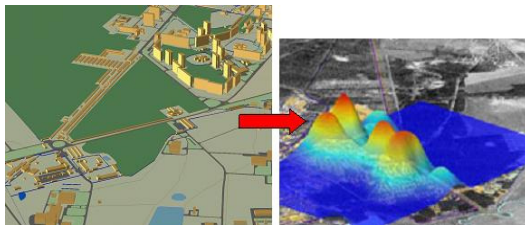
HRVOCs of all sorts and types – what in years before may have been seen as only a problem of compliance with EPA can now be an indicator of a cost overrun in production or an alternative fuel source work additional processing.

Biofuels – poorly understood and controlled processes by many new producers are causing risks to workers and environments as well as a waste of valuable fuel-source commodities.

Pyrolysis for recycling – what were before excess syn gases of insignificance are now sources of fuel to drive turbines and create a positive cash flow on fuel and energy budgets for the plants, putting power into the grid in excess of plant usage.

Corrosion and wear in pipes, tubing, fittings, blades – not only for the petrochem industry but also for the growing wind and solar field.

Community-wide, open-ended passive diffusive testing – with systems like Nomad Eyes™ and CyberSense™ our ELAB can design, engineer, and set up field testing stations that are autonomous, robotic, and Anywhere.



## SOLUTION Examples

TETRAD Innovation has developed and refined a remarkably simple yet technically superior technical methodology for serving the needs of customers – private-sector, institutional, or civilian/defense governmental – where there may be multiple and diverse needs for chemical, explosive, biological and radioactive sensing, tracking and control.

Sampling and testing is only part of the Solution but we do everything and we can provide the Right Solution by several means depending upon Your Situation. We fit us to You, not the other way around.

**The BASE LAB** – Full suite of analytical equipment and personnel, on-site or managed directly by TETRAD with services provided at distributed sites including major university labs with the latest instrumentation. We guarantee using the best and most appropriate technology for your problem.

**The POD LAB** – Totally mobile, this trailer-based laboratory can go wherever you need it and for however long you need our services on-site. We have multiple Pods and can respond faster than anyone to your requirements.

**The FIELD LAB** – We use the CEBIT family and other instrumentation to provide deployable wireless networks of field sensing and monitoring wherever and whenever you need the data coming straight from the very wide and open Site.

**The INTELLIGENCE CENTER** – Think of this as the CIA + NSA + CSI of environmental analysis. We take the same approach. This is the growing field of Environmental intelligence and Forensics and we are the leading Pioneers.

## ELAB Business Model

First and foremost, our People are trained, certified, and experienced, not only by the book but across multiple disciplines and with years of working in a diversity of laboratory, research, and administrative settings.

We look upon You, our Customer, as being someone with an important need demanding attention. You are not just a statistic or a checklist on a queue. Each customer has an assigned member of our technical staff and each project, whether one sample or a long-term applied R&D project, has cross-checking and matrix-level monitoring by management.

Our principle of doing business as a lab and as an applied R&D provider – whether to solve a specific problem or to develop and commercialize your product – is spelled out in one easy word:

## ACCORD

Accurate  
Consistent  
Coherent  
On-Time  
Reliable  
Defensible

TETRAD's personnel consist of fully trained and certified (ASTM, NELAC) technicians and managers who have an understanding backed up by experience. However, the testing is only one part of the solution. Knowing what are the causes and the remedies for something being too high or too low is what makes *La Difference*. We add "intelli-gredients" to our work-formula. That is what sets us Apart.