

# NORTH AMERICAN TESTING, INSPECTION, CERTIFICATION & COMPLIANCE (TICC)

2023 OVERVIEW

## Understanding the North American TICC landscape



Companies in the TICC sector provide a wide range of essential services, from auditing and inspection, to testing, verification, quality assurance and certification. The TICC sector is supported by strong secular tailwinds that will drive long-term growth across end markets.

North America Testing, Inspection, Certification & Compliance Market Overview

#### Services Value Proposition **Key Trends** End users are increasingly focused on quality Cost Efficiency Increasing Endand transparency, demanding that Laboratory- or field-based testing that Maintaining in-house expertise capable of User Demand companies produce and trade high-quality involves testing materials, components and managing and servicing complex products in an ethical manner. finished goods in order to assess equipment is costly for companies. compliance with specifications set by Aging infrastructure across the built customers, accreditation bodies or Outsourcing TICC solutions enables clients environment is driving the need for predictive regulatory authorities. Aging Infrastructure to service their products/services/systems monitoring/inspection to verify asset integrity while minimizing costs. and maintain safety. On-site examination of products, components or the built environment to New or evolving government regulations and determine compliance with specifications industry standards often create the need for set by customers, accreditation bodies or new or more frequent testing and/or Regulations Liability Management regulatory authorities. inspection and associated TICC activities. As companies attempt to reduce Certification environmental, personnel-related and Cost and risk management pressures drive financial liabilities, they are increasingly The provision by an independent body of Outsourcing and outsourcing efforts and increase appreciation outsourcing to specialists. written assurance (a certificate) that the for the independence, expertise and integrity Privatization product, service or system in question inherent in third-party TICC providers. meets specific requirements. Certification is also known as third-party conformity Universal geographic service coverage is assessment. Access to Specialized Workforce Shift to Larger increasingly desired given customers' scaled operations and realization of the TICC Compliance TICC service customers across end markets company value proposition. are subject to an aging and retiring Services to assist companies in establishing workforce, limiting their abilities to perform practices and monitoring status of or solutions in-house. progress toward being in accordance with M&A has been a consistent growth driver existing regulations, guidelines, or historically with significant remaining market

Fragmentation

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specifications.

1

fragmentation across sub-verticals.

## TICC taxonomy



The following groupings can include activity across various sub-sectors/end markets, each with a varying level of attractiveness and fragmentation.

### TICC Industry Market Segments

Buildings & Infrastructure	<ul> <li>Commercial, Residential and Civil Inspection</li> <li>Outsourced Building Management</li> <li>Construction Materials Testing</li> </ul>	<ul><li>Design Review</li><li>Structure Integrity Analysis</li><li>Project and Construction Management</li></ul>
Consumer	<ul><li>Consumer Products Testing</li><li>Environmental Impact Testing</li><li>Expert Witness Services</li></ul>	<ul><li>Product Failure Analysis</li><li>Trade Certification and Auditing</li></ul>
Energy	<ul> <li>Oil, Fuel, Liquids and Chain of Custody Testing</li> <li>Energy Infrastructure Inspection and Testing</li> <li>Corrosion Monitoring</li> </ul>	<ul><li>Production Analytics and Measurement</li><li>Integrity Management</li></ul>
Food & Agriculture	<ul><li>Chemical and Nutritional Testing</li><li>FDA Audit and Compliance</li><li>Food Contaminant Testing</li></ul>	<ul><li>Food Production Assessments</li><li>Pesticide, Soil and Seed/Crop Testing</li></ul>
Environmental	<ul><li>Emissions Monitoring and Testing</li><li>Environmental Consulting</li><li>Industrial Hygiene</li></ul>	<ul><li>Soil, Water and Air Testing</li><li>Stormwater Management</li></ul>
Life Sciences	<ul><li>Antibody Drug Conjugate Testing</li><li>Ecological Toxicology</li><li>Medical Device Testing</li></ul>	<ul><li>Pharmaceuticals Testing</li><li>Residue and Analytical Chemistry</li><li>Soil, Plant and Animal Metabolism</li></ul>
Power & Utilities	<ul><li>Electrical Inspection and Testing</li><li>In-Plant Inspection</li><li>Reliability Services</li></ul>	<ul><li>T&amp;D Inspection and Testing</li><li>Renewables Testing and Inspection</li></ul>
Transportation/ Aerospace	<ul><li>Third-Party Assessments</li><li>Aerospace and Automotive Parts Testing</li><li>Manufacturing Inspection</li></ul>	<ul><li>Performance Management Services</li><li>Supplier and Supply Chain Audits</li></ul>

### Key themes



### Essential, Recurring, and Growing



- TICC services are typically nondiscretionary, regulation driven, recession resistant, and predictable, which makes this sector a priority investment opportunity for
  private capital and strategic investment from current market participants
- As government regulations have become increasingly stringent over the past several years, businesses are more likely to outsource TICC activities, as it is
  expensive, inefficient, and difficult for them to perform this work in-house
- As end customers become increasingly focused on quality and transparency, the need for complex and efficient TICC capabilities are in high demand

### Interest Rates



- In December, the Fed raised benchmark interest rates by half of a percentage point and indicated it will continue hiking rates well above the current level
- The Fed sees higher interest rates, slower growth, and softer labor market conditions as the catalyst to bring down inflation, but also recognizes the corresponding pain that households and businesses will experience
- In order to achieve price stability, a sustained period of below-trend growth may ensue, and businesses will need to make strategic organic and inorganic investments to achieve outsized growth

### Supply Chain Disruptions



- Initial supply chain impacts stemming from COVID-19 disruptions have been followed by additional issues tied to the war in Ukraine, trade wars and protectionism, and extended pandemic-related lockdowns
- Supply chain relocation has been an area of focus as the global economy seeks new supply sources to meet the demand for goods and services that have been
  impacted by the current geopolitical landscape
- Given the complex and disjointed nature of the current global supply chain, TICC services are of increased importance as providers must ensure imported equipment and products are safe and dependable, particularly with alternative or new suppliers

### New Technologies



- The trend toward digitalization is acting as a disruptor across the TICC landscape as large industry players are increasing investment in this area to achieve better efficiency and profit potential
- COVID-19 aided the market shift toward digital adoption as lockdowns and restrictions forced essential industries to pursue alternative measures and break the mold to stay in compliance and operate safely
- Digital maturity within TICC lags many other industries but impacts from COVID-19 in the short-term and a greater desire for digital integration from clients have been key themes as the TICC sector advances technologically

### A&M



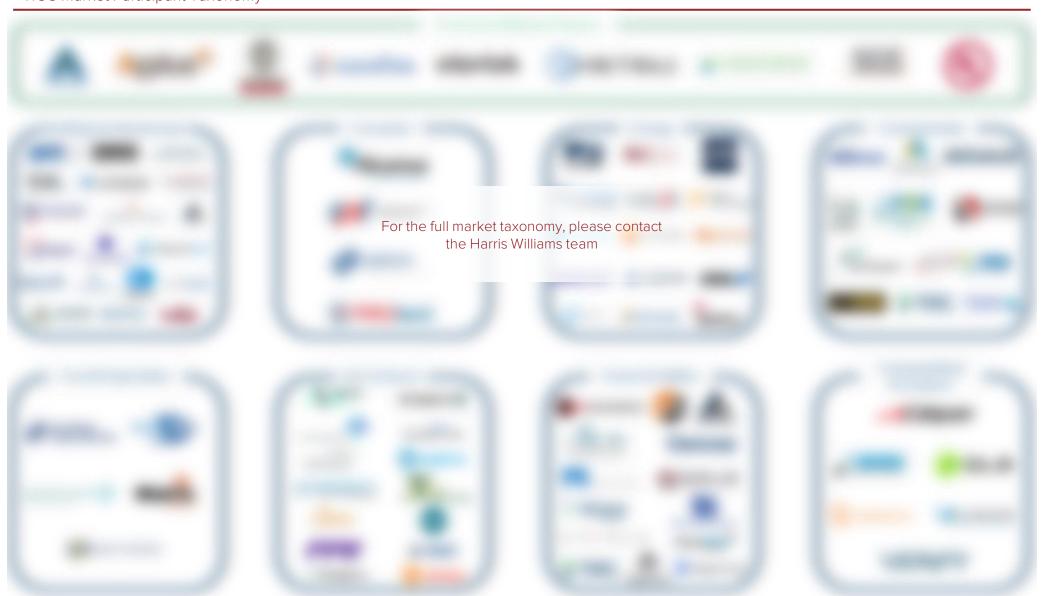
- Numerous deals in the privately owned or private equity-backed space have been announced in 2022, and it is expected that M&A momentum will continue through 2023 and beyond
- Acquirers are increasingly targeting businesses that will perform well during times of economic uncertainty. Given the nondiscretionary and recurring nature of the TICC market, this sector remains popular among a vast universe of buyers and maintains characteristics that will continue to be desired by M&A participants

## Current market landscape



Market participants provide industry-specific testing, inspection and certification-based services across a wide range of industry verticals.

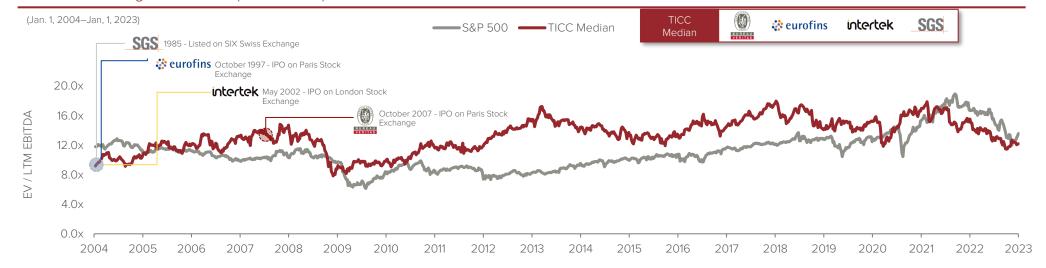
TICC Market Participant Taxonomy



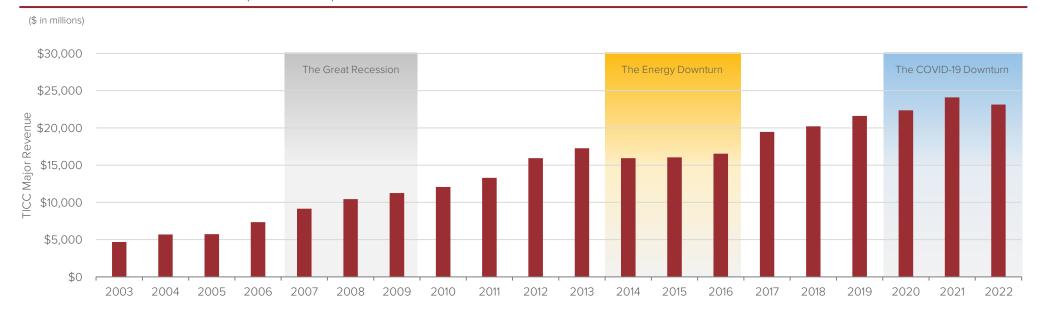


# In the last two decades, the TICC majors have displayed resilience through economic and commodity cycles

### Historical Trading Performance (2003–2022)<sup>1</sup>



### Historical Financial Performance (2003–2022)<sup>1</sup>

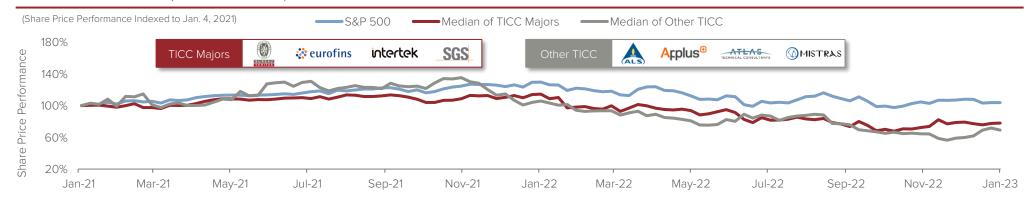






# Market performance shows TICC is reflective of the current global economic pressures

### Market Performance (2021-2022 YTD)<sup>1</sup>



What have the TICC majors said about the current macroeconomic shifts?



• In a continuing volatile macro and geopolitical environment, Bureau Veritas has maintained a strong growth trajectory in the third quarter. The diversity of its portfolio, solid sales pipeline, and leadership in terms of sustainability and ESG solutions, position BV well to grow in a sustained manner in the medium term.



 Due to inflationary pressures and broader economic uncertainty, Eurofins is working diligently on pricing initiatives and productivity measures while aiming to continue providing the best quality of services to their clients. COVID-19 has provided a hedge to compensate for the slight underperformance due to geopolitical disruptions.

### intertek

 Notwithstanding the impact of lockdown restrictions in China, Intertek delivered strong revenue growth of 9.5% in 1H 2022.
 For the year, they are expecting strong top line growth, but margin to be slightly below 2021 reflecting the impact of the lockdowns in China.

### SGS

 Through the investment and acquisitions SGS is making in its areas of focus, the company is becoming an even more resilient, sustainable and data-driven company delivering on its strategic objectives to combat global macroeconomic pressures.

What have other TICC providers said about current macroeconomic shifts?



 ALS has again delivered strong organic growth, margin accretion, and made several strategic acquisitions during 1H 2022.
 Volumes have continued to grow despite the challenging economic backdrop and earnings were supported by pricing strategies that offset inflationary challenges.

### Arplus<sup>⊕</sup>

 Despite record inflation, the company has been successful in passing on higher costs to customers, driving higher margins for three of four business units in 1H 2022 compared to 1H 2021. Inorganic growth is essential to Applus's growth, and management is focused on finding new acquisition targets that fit within their strategic vision.



 Atlas continues to closely monitor the factors impacting the broader macroeconomic environment and how they would impact demand for services. Nearly 2/3 of the business is tied to services that are nondiscretionary in nature, including regulatory compliance, ongoing testing and maintenance of existing infrastructure.



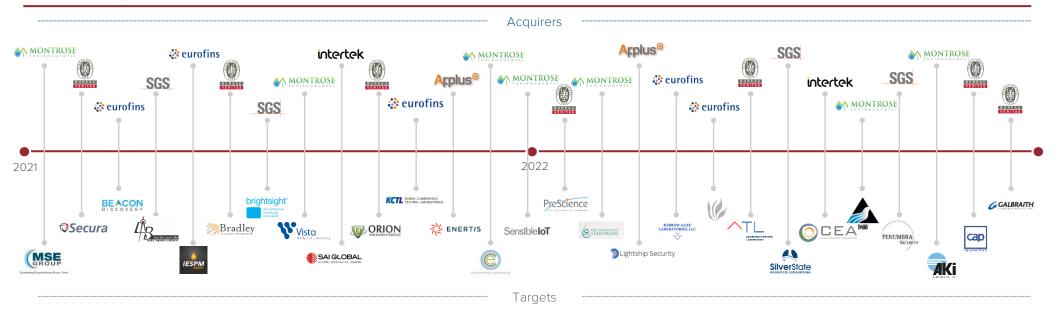
 Mistras is taking a hard look at companywide overhead to identify efficiency and productivity improvements that accompany price increases to help the business achieve its financial projections given the difficult macroeconomic backdrop.



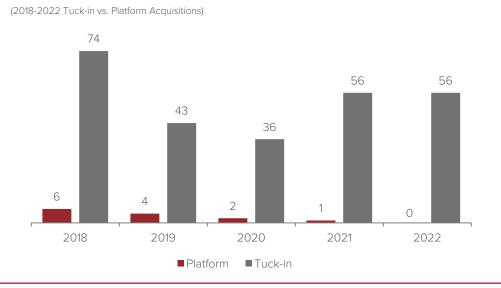


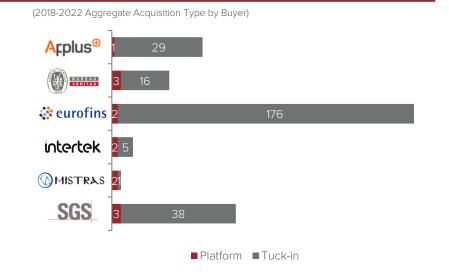
# Strategic buyers have relied heavily on inorganic growth, focusing primarily on smaller tuck-in acquisitions

Select Strategic TICC Investments since 2021<sup>1</sup>



### Strategics Predominantly Focused on Tuck-in Acquisitions<sup>1</sup>







# M&A has remained a consistent growth driver for TICC majors

Number of M&A Acquisitions (2000–2022)<sup>1</sup>

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
VERTICAS	NA	NA	5	3	6	6	5	16	1 1 15	1	8	11	14	7	8	9	9	9	6	5	0	3	5	151
eurofin	3	3	1	1	1	8	10	3	6	3	1	2	20	10	17	21	27	60	50	26	26	38	38	375
intertek	7	5	1	2	2	12	7	16	14 	3	7	5	6	7	3	4	3	2	4	1	0	1	0	112
SGS	1	2	3	5	5	7	8	7	14	2	10	22	18	12	10	10	19	12	8	11	6	9	3	2014
Total	11	10	10	11	14	33	30	42	   49 	9	26	40	58	36	38	44	58	83	68	43	32	51 <b>– – –</b>	46	842

### M&A Acquisition Spend (2000–2022)<sup>1</sup>

(\$ in millions)

			1																	- 1				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	20222	Total
PUREAU YERIFAN	NA	NA	\$99	\$18	\$49	\$202	\$63	\$287	   \$467	\$39	\$752	\$97	\$317	\$220	\$792	\$111	\$210	\$186	\$168	\$78	\$0	\$41	\$60	\$4,256
eurofin	6	10	4	3	9	49	73	97	   48 	31	12	211	102	116	387	695	222	1,730	1,480	192	204	550	203	\$6,434
intertek	3	1	1	13	49	85	68	200	147	48	63	738	63	191	71	353	47	35	517	22	0	660	0	\$3,375
SGS	7	28	37	27	171	76	195	67	181	10	325	117	188	111	118	107	196	41	62	186	576	113	18	\$2,957
Total	\$16	\$39	\$141	\$61	\$278	\$412	\$399	\$651	   \$843	\$128	\$1,152	\$1,163	\$670	\$638	\$1,368	\$1,266	\$675	\$1,992	\$2,227	\$478	\$780	\$1,364	\$281	\$17,022

Early 2000s Recession

The Great Recession

The Energy Downturn

The COVID-19 Pandemic



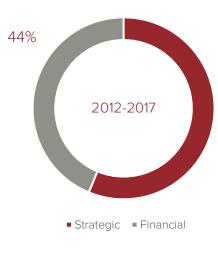
Company annual reports & CapIQ
 Only inclusive of spend in 1H of 2022

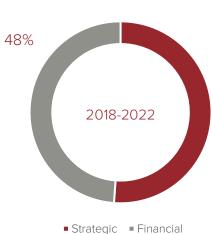


# Private equity continues to increase its presence in the sector in recent years...

### Robust Private Equity Interest in TICC Platforms<sup>1</sup>...

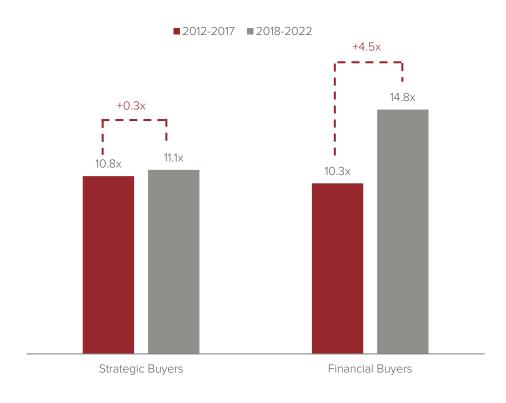
(% of deals over \$100MM in TEV by buyer type)





### ...and More Aggressive Valuations<sup>1</sup>

- Financial buyers have been more aggressive in relevant sectors over the past three years
- Median EBITDA multiples across the comparable set of transactions have increased 4.5x for financial buyers over the past nine years while only increasing 0.3x for strategics

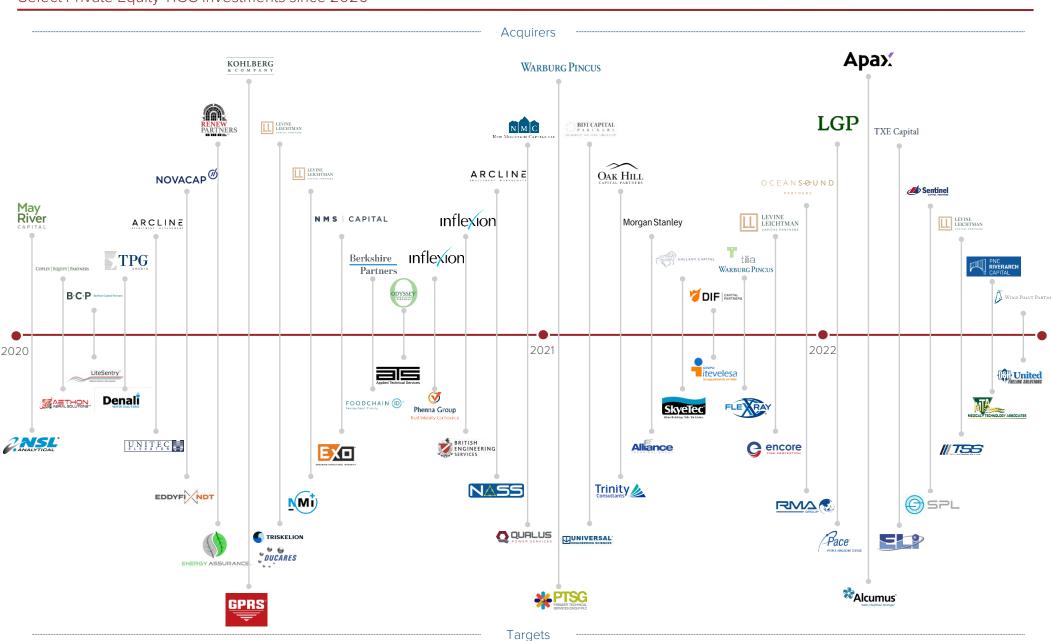




## $\mathbf{H}$

## ...and has a long history of building attractive platforms

Select Private Equity TICC Investments since 2020



## TICC landscape scorecard



Key Marko	et Segments	Market Drivers	Level of Consolidation	Market Outlook
	Buildings & nfrastructure	<ul><li>Aging infrastructure</li><li>Non-residential construction</li><li>Increased public spending</li></ul>		
	Consumer	<ul><li>Consumer demand</li><li>FDA regulation</li><li>Technological innovation</li></ul>	0	
	Energy	<ul><li>Capital expenditures</li><li>Maintenance and repair spend</li><li>Outsourcing penetration rates</li></ul>	0	
98 98 98 98	Food & Agriculture	<ul><li>FDA regulation</li><li>Foodborne health incidents</li></ul>		
Er	nvironmental	<ul><li>EPA regulation</li><li>Aging waste infrastructure</li><li>Rising environmental expenditures</li></ul>		
	Life Sciences	<ul><li>FDA regulation</li><li>Federal/state reform</li><li>Pharmacology R&amp;D spend</li></ul>	0	
***************************************	Power & Utilities	<ul><li>Maintenance of existing power plants</li><li>New, efficient power generation facilities</li></ul>	0	
	ansportation/ Aerospace	<ul><li>Recalls/adverse events</li><li>Alternative fuel legislation</li><li>Supplier/OEM partnerships</li></ul>	•	



## Considerations for investors in the North American TICC market

### What Should Investors Be Looking For?













Critical-path service offering

Turnkey solution offerings

Depth of customer relationships

M&A capabilities

Technologyenabled services

Technical expertise













End market diversity

Dedicated training and workforce development Proven track record of organic and inorganic growth

Safety performance Sales pipeline development and conversion

National scale



### Strong momentum in TICC in 2022



Harris Williams closed numerous TICC deals in 2022, selling businesses serving a variety of end markets to both strategic and financial buyers.

### HW-Led TICC transactions in 2022



Company: Versa Integrity Group

End Market: Energy

Description: Provider of a full variety of inspection and maintenance services for all facets of industrial and petrochemical applications

Date Closed: November 2022



Company: D&H United Fueling Solutions

End Market: Energy

Description: Provider of testing, inspection, repair, and installation services for fueling stations and electric vehicle charging infrastructure

Date Closed: September 2022



Company: Alcumus

End Market: Buildings & Infrastructure, Consumer, Energy, Healthcare & Life Sciences

Description: Provider of technology-enabled business assurance and compliance risk management solutions

Date Closed: August 2022



Company: Jordi Labs

End Market: Healthcare & Life Sciences

Description: Provider of regulatory, quality, clinical, and laboratory services, supporting market access throughout the entire product lifecycle for medical devices and diagnostics

Date Closed: July 2022



Company: Technical Safety Services

End Market: Healthcare & Life Sciences

Description: Provider of testing, inspection, certification, and calibration servicers to healthcare and other life sciences end markets

Date Closed: June 2022



### Sector expertise through industry focus



### Harris Williams TICC Sector Focus Area

### Buildings & Infrastructure

- Design Review
- Commercial, Residential and Civil Inspection
- Project and Construction Management
- Construction Materials Testing
- Structure Integrity Analysis

### Food & Agriculture

- Pesticide, Soil and Seed/Crop Testing
- FDA Audit and Compliance
- Chemical and Nutritional Testing
- Food Production Assessments
- Food Contaminant Testing

### Consumer

- Product Failure Analysis
- Environmental Impact Testing
- Consumer Products Testing
- Trade Certification and Auditing
- Expert Witness Services

### Life Sciences

- Pharmaceuticals Testing
- Medical Device Testing
- Ecological Toxicology
- Residue and Analytical Chemistry
- Soil, Plant and Animal Metabolism

### Energy

- Oil, Fuel, Liquids and Chain of Custody Testing
- Energy Infrastructure Inspection and Testing
- Integrity Management
- Corrosion Monitoring
- Production Analytics and Measurement

#### Power & Utilities

- T&D Inspection and Testing
- Electrical Inspection and Testing
- Renewables Testing and Inspection
- In-Plant Inspection
- Reliability Services

#### Environmental

- Stormwater Management
- Emissions Monitoring and Testing
- Soil, Water and Air Testing
- Environmental Consulting
- Industrial Hygiene

### Transportation & Aerospace

- Supplier and Supply Chain Audits
- Third-Party Assessments
- Performance Management Services
- Aerospace and Automotive Parts Testing
- Manufacturing Inspection

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### Select Recent Harris Williams TICC Transactions





















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Aerospace, Defense & Government Services



Business Services



Consumer



Energy, Power &
Infrastructure



Trai &



83% Managing directors promoted from within the firm

Revenue from











Healthcare & Life Sciences



Industrials



Technology



Transportation & Logistics

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