## PRIVATE EQUITY INVESTMENT COMMITTEE PAPER ON MESA LABORATORIES, INC.

- COMPANY AND MARKET ANALYSIS

TIM BORNECK | 33793

A Project carried out on the Master in Finance Program, under the supervision of:

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Abstract: The following paper examines the company Mesa Laboratories ("Mesa"). A focus is set on the analysis of the company's products, historical financials, historical M&A activity, management team and competitive advantages. Further the markets in which the company operates in are described and characterized. Moreover the respective competitive positioning is analyzed in-depth. The paper concludes with an overview of the end-user markets of the company.
Keywords (up to four): Investment proposal, Private equity challenge, Mesa Labs, Leveraged buy-out
This work used infrastructure and resources funded by Funda9&o para a Ciencia e a Tecnologia (UID/ECO/00124/2013, UID/ECO/00124/2019 and Social Sciences DataLab, Project 22209), POR Lisboa (LISBOA-01-0145-FEDER-007722 and Social Sciences DataLab, Project 22209) and POR Norte (Social Sciences DataLab, Project 22209).



## Preparation of an IC Memo comes with an extensive learning curve in diverse areas

## Soft skills



## **Functional skills**



## Course knowledge



## **Lessons learnt**



#### Communicative:

- Professional communication of complex topics to professors, company representatives (inc. C-level management) and functional advisors
- Alignment of targets, work packages with all team members to ensure project success
- Motivation of team members over a long time horizon

#### Presentation skills:

 Presentation in front of a professional committee thus improving presentation skills



- In-dept company analysis based on historical financials, management facts and identification of potential red flags
- Market analysis with regards to drivers, trends and competitive positioning
- Application of various valuation techniques
- LBO Modelling beyond course scope with implementation of (i) different debt structures, (ii) M&A targets and (iii) an alternative purchase price structuring



Functional skills on a real-life PE level

- Improvement of knowledge with regards to all office programs, through extensive modelling and creation of professional illustration material
- Usage of common databases: CaplQ, Bloomberg, Thompson Reuters for company and market data
- Professional project management with efficient resource deployment, and quality assurance leading to a on-time delivery



Mastering essential business tools and methodology

- PE course has set the basis for the IC memo preparation, covering general PE knowledge, technical as well as functional aspects
- Financial modelling/ Excel as a background for modelling and efficient handling of office programs
- FSA sharpened the understanding of relevant accounting positions and treatment of such
- Applied corporate finance helped during preparation in a business analytical sense



Combination of knowledge from several courses set the basis for thesis preparation

- Key factors:
- Team motivation through comprehensive communication is essential to ensure the project success
- 3<sup>rd</sup> party advise from external advisors helps to stay objective with regards to target and market estimations
- A continuous feedback culture helps to deliver a project on time and maintains high quality standards

## Room for improvement:

 Focusing on key aspects of a value creation strategy helps to maintain a good effort/ rewards ratio



External and 3<sup>rd</sup> advisors are essential for project success





# **EXECUTIVE SUMMARY**





## Mesa's unique niche positioning is the perfect basis for a combination strategy



## **Proposed** transaction

- Mesa Laboratories Inc. ("Mesa"), valued at an EV of \$352.8m or 12.5x 2020E EBITDA represents an attractive buy-out opportunity
- The purchase price will be structured into a base price of (i) \$332.8m equaling 11.7x EBITDA and (ii) an additional earn out in the amount of \$20.0m or 0.7x EBITDA
- The overall multiple is justified in light of current market prospects, stable cash flows and an exceptional growth pattern (14% sales CAGR 2015-2019)
- The total uses of \$341.3m will be financed with \$143.2m private debt through a stretched senior loan, \$188.3m of committed sponsor equity and \$9.8m Management Investment for 15% of equity share
- Mesa can be used as a platform for combinations. In this scenario the combined entity with a total of three add-ons (2021-2023) is expected to generate a 5y MM/IRR of 3.4x/29.4% mainly driven by consistent organic and inorganic growth with a strong EBITDA-Margin expansion
- In a stand-alone case the firm is expected to generate a slightly lower 5y MM/IRR of 2.8x/23.2%

#### OVERVIEW



60%

**Gross** 

margin

26%

**EBITDA** 

margin

Mesa is an US-based manufacturer of quality assurance tools, operating **worldwide** through **3 business units** with 7 manufacturing and 2 administration sites (63% of sales made in the US).

The company is **quality leader** in selected applications which help its customers to maintain business critical quality standards.

- Sterilization & Disinfection (S&D): Manufacturing and distribution of Biological and Chemical Indicators to detect residual debris in the medical sector (45% of sales)
- Instruments (INS): Production of various lines of Validation & Calibration Instruments mainly for the medical sector (35% of sales)
- Cold Chain Monitoring (CCM): Design and manufacturing of sensors and software to monitor aggregates (temperature, humidity a.o.) for facilities and transportation singularly in US mainly for the medical sector & food processors (13% of sales)

The company serves diverse markets which are small in size but have high potential in growth, further enhanced by strongly growing end-user markets mainly in the Medical sector. 37% of Mesa's sales are made in the Pharmaceutical industry, 13% with Medical Device manufacturers and 35% with Healthcare services as of 2019.



Mesa has a consistent history of M&A with ~2 acquisition p.a., which since 2017 is equally continued by a **new CEO**, who himself has a **strong M&A track-record** coming from his previous senior position at a medical conglomerate.

With moderate capex (c.6% of sales) and low working capital requirements Mesa shows an attractive financial profile at high operative cash conversion (c.65%).

## INVESTMENT RATIONALE



Riding the growth wave: Mesa's main markets are predicted to grow close to or above double-digits mid-term, further fueled by strong end-market user growth, more stringent quality control regulations and growth in emerging countries. Therefore, it is strongly believed that the firm can realize an exceptional organic growth of 10.5% Core Sales CAGR over the investment horizon.



**Building on a strong foundation:** Mesa is market and quality leader within its S&D and INS segment, having positioned itself uniquely in a high-margin niche. From this, Mesa has built a sticky customer base, leading to reliable revenues that can be expanded at a CAGR of 16.7% (organic & inorganic). Moreover, this positioning can be utilized upon positioning Mesa equally strong in the CCM market, hence realizing cost saving potential of ~900 bps.



Consolidating the market: Mesa's markets are partly fragmented with few big players and many small companies with different geographical focus. Especially small players can be acquired at lower multiples, representing attractive multiple arbitrage opportunities. Mesa can serve as the right consolidation platform due to the fact that the management is experienced in M&A in the medical sector. Actionable combinations with Germany-based Gke GmbH (\$19m Sales/\$11m EBITDA) & US-based Tisch Environmental (\$13m Sales/\$5m EBITDA) have been identified. Due to a partly overlapping footprint and diverging customers these companies are considered to be a perfect fit for Mesa.



Internationalizing the footprint: Currently, Mesa makes the majority of its sales in the US. Especially rising awareness for sterility assurance products in emerging countries and intensifying governmental regulations in Asia-Pacific are an untapped opportunity for the firm. Therefore, international expansion will lead to strong value creation at average 16.3% p.a. sales growth for S&D in APAC over near-term.



**Diversify product offering:** Mesa has the potential to expand along the value chain of Dialysate Control by adding Water testing instruments to its portfolio, hence increasing the share of wallet with their customers. An actionable target to add respective capabilities with high synergy potential has been identified with US-based Myron L (\$25m Sales/\$9m EBITDA).





## **COMPANY OVERVIEW**





## Mesa targets regulated, high-margin niche markets with its Quality Control products

# THE MesaWAY

Incorporated

Relocation to new 1995 Headquarter Lakewood, Colorado

> leader in industry

2014

Appointment

Announcement Divestiture Cold Chain Packaging **Business Unit** 

#### **BUSINESS MODEL**

**Control Tools** 

Sold into highmargin niche markets

Products are regulatory requirement

Mesa manufactures and markets Indicators for Sterility Testing, Calibration & Validation Instruments (Temperature, Pressure, Gas Flow) and Cold Chain Monitoring Software and Sensors Products are used in everyday sterilization and operations in Hospitals or during manufacturing of new Pharmaceuticals & Medical Devices

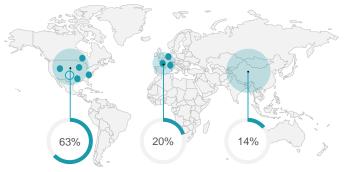
Total Product Portfolio consists of 7 different product lines after 27 strategic acquisitions

Total global addressable market size of all product lines is ~\$13bn

Relevant sub-markets per product are ~\$0.5-4bn total market size where its main End-Users consist of Hospitals, Pharma & Medical Device Manufacturers and Environmental agencies

Quality Control measures such as testing, calibration and validation are mandatory in many medical applications and regulated by the FDA among others (e.g. weekly spore testing for dental offices, calibration after each dialysate treatment)

#### **FOOTPRINT & KEY FIGURES**



% of Sales FY19

- Headquarter in Lakewood, Colorado (US)
- 7 Manufacturing & 2 Marketing Sites in the United States and Europe

- Sales of \$103m in FY2019 ending EoM March 2019
- CAGR of 14% between 2015-2019
- Gross Margin of ~59% in FY2019
- Normalized EBITDA margin of **26%** in FY2019
- **347 Employees**, in 9 Locations
- New Management since 2017

## **COMPETITIVE ADVANTAGES**

## **Superior product** portfolio of Quality **Control tools**

- Low cyclicality operations
- Leader Quality calibration dialysate meters and biological indicators

## **Products increasingly** required by regulations

- Very sticky customer base
- No investment focus by bigger players due to minor market size

## **New management with** strong M&A track record

- Top Management with high industry expertise
- Gary M. Owens Buy & Build success Danaher Corp. created high shareholder value

Mesa Medical Inc. by Luke Schmieder

> Acquisition of SGM Biotech, positioning Mesa as a market the Biological Indicator

Mesa Labs. #68 on Forbes Best Small Companies in US

> Gary Owens as new CEO

2017

2010

Source: Company filings



## Applications of Quality Control products drive market penetration opportunities

## 7 Key Product Lines across 3 major Business Units

For more detailed information see Appendix s. 47-49

## **Sterility Indicators** Biological, Chemical, Cleaning (since 2017)



#### **STERILIZATION & DISINFECTION (S&D)**

Detection of residual debris after sterilization which is signalled through colour coding.

## **DataTrace** Validation Data Loggers

software and various accessories).

## **DryCal** Gas Flow Calibrator

BGI Ambient Particulate Sampling



**VALIDATION & CALIBRATION INSTRUMENTS (INS)** 

Self-contained, wireless, high precision instruments that are used in critical manufacturing, quality

control and validation applications of sterilization, e.g. electronic device to record data over time at

pre-determined intervals (includes individual instrument, a personal computer ("PC") interface,

## **DialyGuard** Dialysate Meters



## SureCap Torque Testing systems



## **COLD CHAIN**

Stationary or transport control of various parameters to comply to regulations.

## ViewPoint

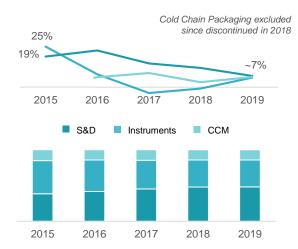
Monitoring Sensors and Software

YoY Growth

Sales by BU



## **Business Units Breakdown**



#### **Production**

#### R&D

R&D program with 29 employees & third-party consultants

## Manufacturing

Sourcing from several different suppliers (no significant dependency)

**S&D** products are manufactured in Montana (CA) and Munich (DE)

**INS** products in Lakewood (Hg.), Hanover (DE) and Butler (US)

**CCM** products in Lakewood (Hg.) and outsourced to third parties

#### Distribution

**Promotions** via trade shows. mail campaigns, Internet & others

#### S&D

110 Countries covered by distribution network | Direct sales model in US/EU

## INS

67 Countries covered bγ entire distribution network | Direct sales model only in North America

## CCM

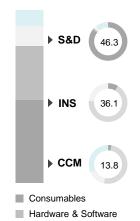
Only US/CA covered by distribution network | Direct sales model US/CA

#### **Customers**

- No customer >10% of sales
- Certain products have annual service contracts (unearned revenue \$4.4m as of 2019)
- Substantially most contracts are 12 months or less in duration (Backlog \$8.3m), nevertheless relationships are sticky in nature due to the fact that Mesa's products are used on a routine basis
- Various **Partnerings** e.g. with purchasing organizations of the dental industry



- Routine usage and longterm contracted Services lead to a very low cyclicality
- Calibration solutions are also critical to ongoing use of instruments (perpetual/ annual software licenses)
- Hardware and Software sales are driven by acquisition of new or replacement of existing equipment



Services

Contracted Services

Source: Company filings 3 January 2020



## Mesa excels through platform building to extend innovative product portfolio

## **Competitive Advantages**

## perior Produc Portfolio

- Leading provider of Biological Indicator for the Pharma & Medical Device industry and main provider of Dialysate Calibration Meters
- Major player in the global Sterilization Monitoring market
- Mesa's products are incorporated into the medical & drug manufacturing processes and on-going business in hospitals; Quality Control tools are essential for Pharma/ Med. Device companies to retain reputation

# Niche Markets required by Regulations

- Markets targeted by Mesa are innovation-driven & highly technological while remaining small-sized (< \$4bn addressable market size)</li>
- Direct sales force in US and Europe
- Revenue lines of \$5-10m are too small for Big Medical conglomerates to place innovative focus on
- Mesa uses strategic positioning to enforce market growth by building and expanding on strong specialised product portfolio

# Strong M&A History

- Success story of platform building with high-margin established companies enabled profitable market share expansion
- M&A was conducted into the two directions International expansion (through acquisition of distribution segments for Mesa products) and established companies operating in the Quality Control business with a recent focus on CCM to build a new platform

## Low Substitution Risk



Market Growth Enforcement



Profitable & Quickto-Market Expansion



## Run-rate revenue impact subsequent to acquisition<sup>1</sup>



- 58% of total revenue growth is inorganic
- Total growth 31.8m (45%) until 2019
- Concentration on complementary addon product lines

	_	Target	Operating Segment	Country	Date	Impact
	9	BGI Inc.	Particulate Air Sampling Equipment	US	Apr. 14	2.6m
	201	PCD-Process Devices	QC Ethylene Oxide Sterilization	US	Oct. 14	5.7m
S		ATI Atlas & 2 other <sup>2</sup>	Mesa BI Distribution	UK, DE	Feb. 15	3.7111
Corresponding Acquisitions		North Bay Bioscience	Dental Sterilizer Testing	US	Aug. 15	1
<u></u>	2017	Tiselab & 7 others <sup>2</sup>	Mesa BI Distribution	Various	-	2.7m
5		Autoclave Testing	P&S Dental Sterilizer Testing	US	Apr. 16	2.7
g A	N	HANSAmed Ltd.	BI & Mail-In Testing P&S	CA	Jul. 16	
din		FreshLoc Tec.	Wireless Temperature Control	US	Nov. 16	1.2m
spor		FreshLoc Tec.	Wireless Temperature Control	US	Nov. 16	0.4m
Le	$\infty$	Hucker & Hucker <sup>2</sup>	Mesa BI Distribution	DE	May 17	j
ပ္ပိ	201	Simicon GmbH	BI & Cleaning Indicator	DE	Oct. 17	2.3m
		BAG Health Care GmbH	BI, Chemical & Cleaning Indicator	DE	Nov. 17	
	_ ნ	BAG Health Care GmbH	BI, Chemical & Cleaning Indicator	DE	Nov. 17	3.0m
	2018	IBP Medical GmbH	Medical Meters and Sensors	DE	Mar. 18	3.0111
	.4	Point Six	Wireless Sensors	US	Mar. 18	0.4m



## Mesa has a management team experienced at running billion-dollar businesses

## **Executive Committee**

"Gary left as an executive in charge of a multi-billion dollar line of business to become CEO of a company with less than \$100 million in sales. It's not hard to imagine that (1) Gary has something to prove to his former Danaher colleagues and (2) he saw Mesa as the ideal company that would allow him to build a track record that could rival Danaher's." – Andvari Associates



Gary Owens, President and Chief Executive Officer (CEO), since September 2017



John V. Sakys Chief Financial Officer (CFO) since October 2012

Greg

DiNoia

Senior Vice

President.



Brian Archbold Senior Vice President, since January 2018



since November 2017

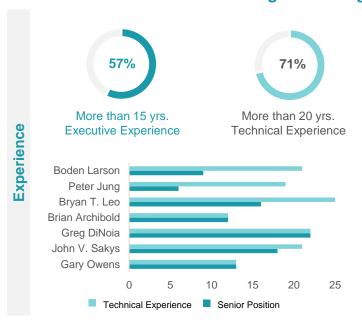




Boden
Larson, Vice
President of
Information
Services,
since 2010

Peter Jung, Vice President of Corporate Development and Strategy since February 2016

## **Management Insights**



- Mesa's management has substantial experience in their relevant field
- In 2017 replacement of former CEO by Gary Owens, former executive of Danaher, a multi-national medical player with an outstanding track record of success
- Core management successfully proved capabilities of identifying key markets, acquiring a platform and building on it and is now repeating it at Mesa

## Exit nonprofitable BU

## **Exit Cold Chain Packaging (2019)**

Profit margins for the Cold Chain Packaging division continued to lag behind other segments



M&A Expansion

Achievements

Purchase of BAG Health's hygiene business (Germany)

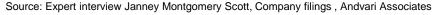
"This move is anticipated to give competitive edge to the company."



Operational Improvement

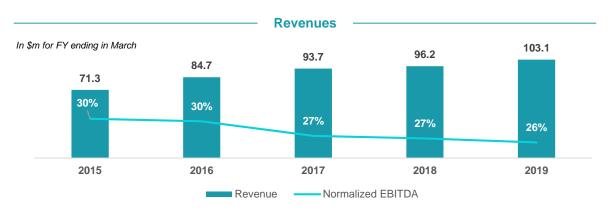
Substantial Reduction of Debt and Working Capital
Consolidation of Production Facilities



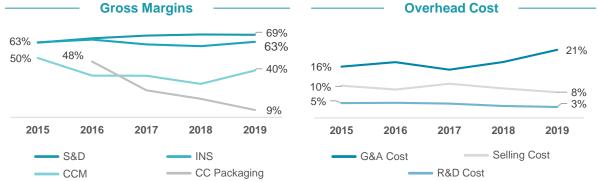




## Skyrocketing revenues came with a drop in EBITDA margin due to higher G&A Cost



Inc	come Statement	2015	2016	2017	2018	2019
	Sterilization and Disinfection Control	27.4	33.6	38.6	43.3	46.3
	Instruments	33.1	35.7	34.4	34.1	36.1
	Cold Chain Monitoring	10.9	11.6	12.6	13.0	13.8
	Cold Chain Packaging	-	3.8	8.0	5.8	6.9
1	Total Revenue	71.3	84.7	93.7	96.2	103.1
	Cost Of Goods Sold	(27.9)	(33.2)	(39.7)	(41.0)	(42.2)
2	Gross Profit	43.4	51.4	53.9	55.2	60.9
	Gross Margin	61%	61%	58%	57%	59%
3	Selling	(7.2)	(7.5)	(10.0)	(8.8)	(8.3)
3	General & Admin Exp.	(11.4)	(14.7)	(14.1)	(16.8)	(21.9)
4	R & D Exp.	(3.3)	(4.0)	(4.2)	(3.5)	(3.5)
	Normalized EBITDA	21.5	25.2	25.7	26.0	27.3
5	EBITDA Margin	30%	30%	27%	27%	26%



- Increase of revenues by 45% since 2015, of which S&D grew by 69%, Instruments by 9%, CCM by 27% and CC Packaging Segment was entered in 2016
  - Inorganic growth with 27 M&A transactions accounted for 58% of growth
- Overall Gross Margin decreased from 61% to 59% of sales between 2015-2019
  - Whereas the gross margins increased for the S&D segment due to insourcing of biological indicator supplies, the gross margins dropped for the CCM due to internal restructuring and especially CC Packaging due to fierce pricing and fix cost progression in relation to shrinking revenues
- Selling expenses consist of salaries and commissions for 94 sales employees (2019), cost related to distribution as well as marketing; Streamlined from 10% to 8% of sales
  - General and administrative expenses increased from 16% to 21%; Largest increment of \$5m during 2019 primarily due to increased stock-based/ short term incentive compensation and higher salary expenses for more admin employees preparing for future growth
- R&D Cost comprise mainly salaries of 27 employees; decreasing figures due to streamlining of necessary engineers and supplies required to support existing businesses
  - Extensive knowhow is acquired externally through strategic acquisitions
- EBITDA Margin decreased mainly due to drop in gross margins (CCM and Cold Chain Packaging) and increasing G&A cost

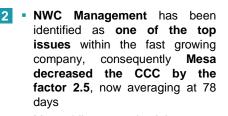
Source: Company filings 3 January 2020 11



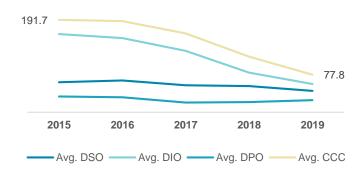
## Strong Cash flow generation based on stable business and NWC optimization

ash flow Statement	(in \$m for FY ending i	n March)	2015	2016	2017	2018	2019
Normalized EBITDA			21.5	25.2	25.7	26.0	27.3
Interest Expenses			(0.6)	(8.0)	(2.0)	(1.7)	(1.5)
Income Tax Expens	е		(5.8)	(4.4)	(3.1)	(3.3)	(1.1)
Other non-cash ope	rations		1.3	0.9	1.1	1.1	1.3
Change in Acc. Rec	eivable		(2.3)	(2.0)	1.0	0.7	1.6
Change In Inventori			(3.2)	(1.5)	0.1	2.3	2.6
Change in Acc. Pay			0.4	(0.2)	(0.7)	0.2	1.1
Change in Unearne			(0.6)	0.1	(0.2)	(0.2)	0.1
Prepaid Expenses			0.8	0.4	(0.8)	0.8	(2.9)
Accrued Liabilities a	and Taxes Payable		(0.9)	2.9	(3.1)	0.4	5.5
Change in NWC			(5.7)	(0.3)	(3.7)	4.1	7.9
Adj. Cash flow from	n Operations		10.7	20.7	18.0	26.3	33.9
Maintenance Capex			(2.8)	(7.7)	(11.6)	(2.8)	(1.3)
Expansion Capex (Cash Acquisitions)			(20.5)	(24.1)	(6.8)	(15.5)	(4.8)
Sale of Property, Plant, and Equipment			-	-	-	1.1	2.2
Divestitures			-	-	-	-	-
Cash from Investing			(23.4)	(31.8)	(18.4)	(17.2)	(3.9)
Adj. Free Cash flow	v (excl. Expansion (	Capex, Sale PPE)	7.9	12.9	6.4	23.5	32.6
Unlevered Free Cash	flow Margin		11%	16%	8%	25%	32%
						2.3x	
1.4x	1.4x		1.6	X			
	1.1x						
7.9	12.9	6.4	23.5	5		32.6	
2015	2016	2017	201	8		2019	
Adj. Fre	e cash flow (excl. ex	xpansion)	——Adj. Cas	sh Conve	ersion Ra	atio	

- Other Non-cash expenses are mainly comprised of Stock-based compensation, deferred taxes and foreign currency adjustments
  - In order to incentivize new management for long-term growth strategy stock-based compensation more than doubled from \$1.7m to \$4.2m in the last two fiscal years



 Meanwhile maintaining a satisfactory Quick ratio at avg. 1.1x

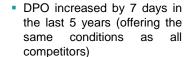


#### Receivables

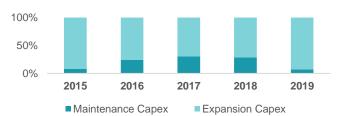
## In the last 5 years DSO have been decreased by 18 days from 62 to 44 days

Inventories
 Inventories have been decreased radically, hence

DIO shrank by 104 days



- Maintenance capex at 6% on average, mainly driven up due to an investment into a factory built up in Bozeman, MO (finished 2018)
  - Expansion capex is driven by frequent M&A activity and mostly covered by cash flows



- Free cash flow grew by 413% since 2015 supported by a strong cash conversion ratio at avg. of 1.6x and a high cash generating power ratio at avg. 47%, peaking in 2019 at 78%
  - Cash flows have consistently been stable, positive and predictable

Source: Company filings 3 January 2020





**MARKET OVERVIEW** 





## Quality Control Tools increasingly penetrate environmental & medical markets

## Sterilization & Disinfection (S&D)

"Materials processed in a sterilizer, dating from the sterilization cycle having the last negative biologic indicator, must be considered nonsterile and retrieved"

- CDC

## **Validation & Calibration Instruments (INS)**

"In the same way that you wouldn't trust going past a speed camera in a car that has a dodgy speedometer, you shouldn't conduct medical diagnosis on patients or clients using equipment that has not been calibrated."

- MHRA

## **Cold Chain Monitoring (CCM)**

"In 2017, a shipment from a single lot of Intralipid 20% IV fat emulsion (Baxter International, Inc.), was improperly exposed to subfreezing temperatures upon transportation. When frozen, the product can obstruct pulmonary circulation, leading to possible death. The company recalled this parenteral-nutrition product." - PMCIB

## **Biological Indicators (BI)**

Relevanc

egmentation

Spore Ampules, Spore Suspensions are placed on/ into representative unit of product to be sterilized

Viable Spores (Strips) are added to a carrier

**Self-contained Vials** are intended for incubation following the sterilization process

Chemical Indicators (CI) Class 1 - 5 Indicator Cleaning Indicators (Cl.I)

## **Medical Equipment Calibration & Laboratory Equipment Services**

#### **Pressure & Temperature Sensors Market**

High precision instruments that are used in critical calibration, manufacturing and validation

## **Air Quality Monitoring Systems**

Particulate concentrations in air as a measure of urban/ industrial air pollution, industrial hygiene

#### **Wireless Sensors (Data Logger)**

Battery-operated digital temperature sensor with programmable log rates and onboard memory

#### **Cloud-based Software**

from

port on

Monitors temperature parameters, humidity, differential Pressure, O<sub>2</sub> CO<sub>2</sub> Leak Detection, DC Voltage among others Accessible from anywhere with internet capability with customizable automated reports and alarming systems

## **Sterilization Cycle**

#### Chemical Indicators are exposed to a sterilization process placed inside autoclave) and tested to

detect residual

debris.

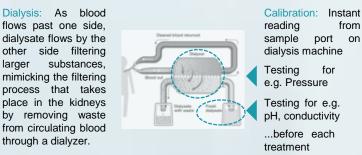
Biological

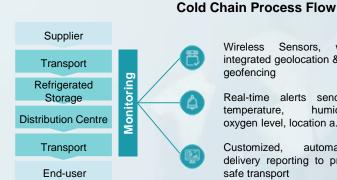
## Use **Analyzing** Disinfection Cleaning **Sterilization** Autoclave Care steam Sterilization. Dry Heat &

## Cleaning **Indicators**

are processed together with e.g. surgical instruments to verify cleaning efficacy of e.g. washerdisinfectors.

## **Dialysis Cycle**





Wireless Sensors, with integrated geolocation & geofencing

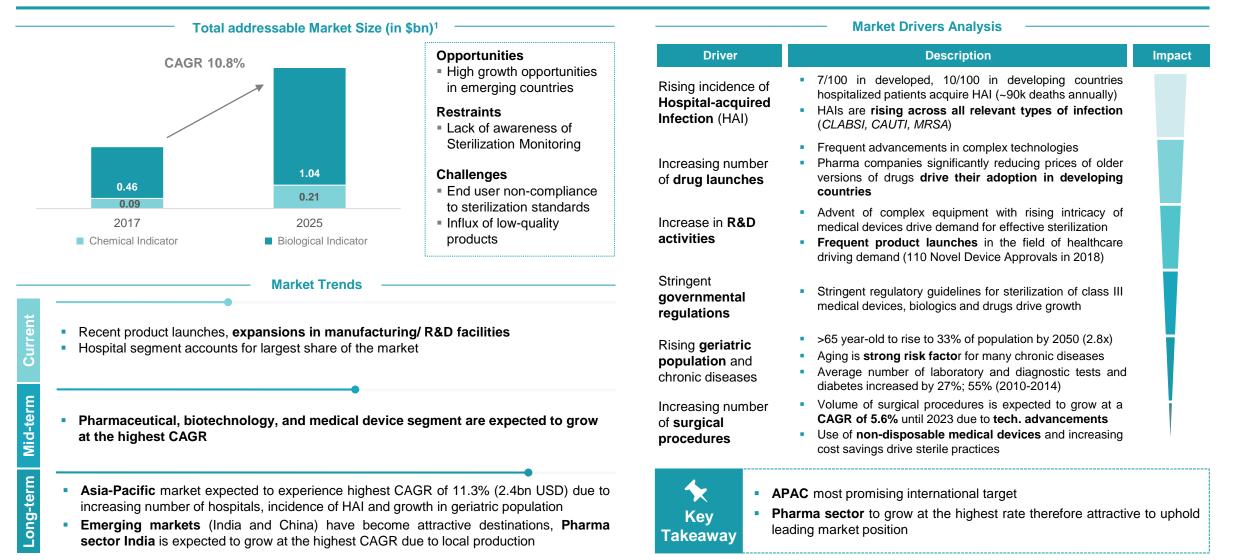
Real-time alerts sending temperature. humidity, oxygen level, location a.o.

Customized. automated delivery reporting to proof safe transport

others



## Adverse healthcare trends and increasing gov. regulations foster steady growth

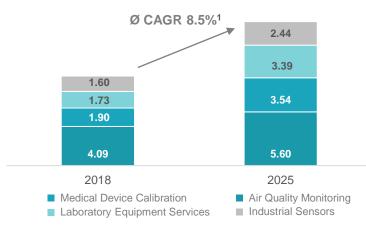


Source: Evercore, MarketsandMarkets, GrandViewResearch

## MesaLabs

## High growth and increased QC necessity cause higher market penetration





## **Opportunities**

- Laboratory automation
- Technologic advancement

#### Restraints

- High Cost of service contracts
- Technologies are premiumpriced

## Challenges

Shift to home-based/POC testing

#### **Market Trends**

- Europe largest market for Medical Equipment Calibration services, US 33% market share
- Companies enter into collaboration with hospitals for providing reagents pertaining to QC
- North America largest market for Air sampling & Laboratory Equipment Services
- Expansion of service portfolio is major focus area of market players
- Third-party calibration services are expected to grow at the highest CAGR
- More stringent government regulations are expected to drive the Asia Pacific and Europe medical equipment calibration services market
- Pharmaceutical & Biotech segment is expected to dominate the market
- **Emerging countries:** Companies focus on M&A for expanding their businesses in developing regions, expansion of pollution monitoring
- Asia-Pacific: fastest progressing regional market due to rising number of Contract Research Organizations & growing number of life science R&D activities

## **Market Drivers Analysis**

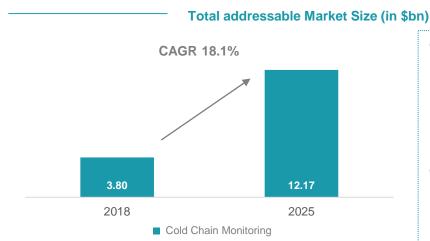
Driver	Description	Impact
Governmental regulations	<ul> <li>Strict rules enforced by governments related to medical equipment calibration and pollution control policies that require regulatory compliance for air pollution monitoring as well as data collection</li> </ul>	
Increasing research activities in pharma & biotech	<ul> <li>Rising investments and government research funding to support biomedical research activities</li> <li>Rising import of laboratory equipment</li> <li>Growing need of timely diagnosis of diseases</li> </ul>	
Rising pollution levels	<ul> <li>Increasing public awareness related to the environmental and healthcare implications</li> <li>Degradation of ambient and indoor air quality result in a higher risk of contracting respiratory infections</li> </ul>	
Demand <b>external</b> quality assessment <b>support</b>	<ul> <li>Fragile and expensive analytical equipment is requiring frequent servicing</li> <li>Timely servicing &amp; maintenance is crucial for accurate research outcomes to uphold quality</li> </ul>	
Enhanced accuracy, ease of use requirement	<ul> <li>Medical devices are needed to undergo extensive testing and examinations thus delivering competitive advantages to manufacturers</li> </ul>	
Rising frequency of product recalls	<ul> <li>Product recalls have increased by 56% 2009-2012</li> <li>To avoid recalls and subsequent reputation impacts, companies are laying strong emphasis on calibration of their machinery</li> </ul>	



- Emerging countries/ APAC most promising international market to expand into
- Laboratory Equipment Services (Maintenance, Calibration & Validation) highest growing market

## MesaLabs

## Double-digit growth offers opportunities for market players



## **Opportunities**

 Cold Chain Logistics in developing countries

#### Restraints

 High cost of installation (deploy sensors & connectivity network)

## Challenges

- Complexity involved in installation and monitoring
- Companies remain sceptical due to high investment

#### **Market Trends**

- More than 25 Product Launches in 2017-2019 & significant product development
- More than 10 substantial M&A Deals over the last 2 years
- Partnerships, collaborations and expansion
- North America as the largest regional market with facility CCM holding largest share
- CCM Transportation sector is expected to grow at the highest rate between 2018-2023
- Software Segment to grow at high CAGR due to adoption of cloud-based software
- U.S. and Canada are also expected to drive the growth of the market due to already well-developed transportation and distribution network
- Emerging countries: Companies focus on M&A for expanding their businesses in developing regions due to expansion of infrastructure (India fastest growing market over forecast period)
- APAC fastest progressing regional market for Pharma & Healthcare

Market	Drivers	Analysis

Driver	Description	Impact
Growing governmental focus	<ul> <li>High governmental efforts to extend healthcare coverage &amp; vaccinations across emerging countries (higher accessibility of vaccines and biologics)</li> <li>Stricter regulations in Europe</li> </ul>	
Increasing demand for temperature-sensitive drugs	<ul> <li>R&amp;D evolve to more complex large-molecule biologics that are highly sensitive to temperature, humidity, light</li> <li>More than half of the top 32 counterfeited drugs have strict temperature-control logistical requirements</li> <li>Global delivery of products in the traditional supply chain have increased the risk for counterfeit products</li> </ul>	ı
Increasing demand for generic drugs	<ul> <li>Owing to higher accessibility as infrastructure enhancement in more remote areas is accelerating</li> <li>Growing distribution networks enable more market coverage for Pharma requiring CCM to retain conditions</li> </ul>	
Rising demand for better food quality & reduce of wastage	<ul> <li>Dependence of Food &amp; Beverage industry on CCM is gradually increasing</li> <li>CCM vital for modern supply chain transporting larger volumes over greater distances</li> <li>Food wastage adversely increases cost for producer</li> </ul>	İ
Digital transformation	<ul> <li>Increasing penetration of wireless sensors due to enhanced efficiency of Cold Chain Management in terms of high precision &amp; control and fast execution covering reception, storage, release, transportation and distribution</li> </ul>	



- CCM is highest growing market due to technological advancements
- US/ Canada strong growth driver due to mature distribution network
- Transportation sector to grow highest due to increasing distribution network of established food & pharma companies



## Mesa serves main portion of market establishing strong selling position

#### **COMPETITIVE BREAKDOWN Specialized Big** Niche Player Pharma/ Med. Device **Player Market Share End-User** 🔼 Mesa Mesa >75% gke Crosstex ~15% CROSSTEX **⊠sterilucent**<sup>∗</sup> n/a others **SciCan** HIMEDIA ZHINVA **Healthcare @**PARASURE Hospital SAKURA SI **PMS** STERIS° #1 ЗМ n/a Pharma Tuttnauer Medical Dev. #2 others n/a ANDERSEN Clinical Labs GETINGE \* Mesa ~10% n/a others **Different Focus** Conglomerates Size of business

- Market separated into large medical conglomerates with Indicators as secondary product portfolio due to small market size and small dedicated manufacturers
- High historical consolidation efforts undertaken leave moderate market fragmentation and partly mature market
- Two-sided Market separated into End-users:
  - Pharma/Medical Device which require tests with highest reliability due to rigorous regulatory standards, nonchanging loads and sensitivity of and extensive capital investment in new drugs – 100% assurance quality control mechanisms
  - Healthcare rapid readouts matter more due to higher application frequency, changing loads and lower regulatory standards



#### S&D

- Dominant player of Sterilization Indicator worldwide in the Pharma & Medical Device Segment by 3x/4x of sales to the next biggest competitor Crosstex (subsidiary of Cantel Medical)
- In healthcare segment Mesa holds medium market share internationally, targeting countries with more rigorous testing standards in Hospitals (e.g. certain European countries); little coverage in US
- Mesa's offers most comprehensive portfolios of sterility monitoring products compared to its competitors
- Mesa's products offer 99.999% accuracy on sterilization testing, consequently longer readout time of 24 hours up to 2/3 days in some cases (3M rapid readout 98-99% accuracy)
- The positioning as a specialized quality player helps Mesa to maintain and attract market share; thus establishing Mesa as one of the major players in the Biological Indicator industry in the US



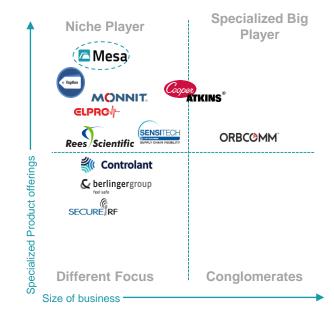
## Fragmented markets leave much room for consolidation & portfolio expansion

## **COMPETITIVE BREAKDOWN**

## Instruments Specialized Big **Niche Player Plaver** 🔼 Mesa Tektronix<sup>a</sup> Trescal VAISALA TISCH **FORTIVE** Mecmesin HORIBA Thermo **Amphenol** Conglomerates **Different Focus** Size of business

- Very mature markets with majority of players in the US
- Market players have very diverting focus areas in which they operate
- Large conglomerates do not place focus on QC instead offering respective products as side-line business
- Majority are specialised on single area of sub-markets
- Still highly fragmented market with consolidation possibilities for portfolio expansion & consolidation

## **Cold Chain Monitoring**



- Highly fragmented & strongly growing market
- Top 3 players consolidate around 25-35% of total Revenues
- Around ~40-50 provider make up entire market
- Small players locally bound around single operating location within US & internationally
- Disruptive market trend through innovative technology

#### **Mesa Market Share**



#### **INSTRUMENTS**

- Largest competitor in dialysate Calibration was acquired in March 2018 (IBP Medical)
- As major provider of Dialysate Calibration Tools Mesa can harvest growth in the market & expand its position as quality provider of quality control instruments through its more profound product portfolio
- **Strong market position** with >50% up to 75% share in other instrument segments (estimated as not covered by market studies due to small niche market)

## CCM

- Mesa only covers US/ Canada single division not operating internationally yet
- Locally bound business gives strong position in base location with high consolidation opportunities

**Porter's Five Forces** 



## Low substitution threat stands against competitive pricing among players

## **COMPETITION** HIGH Players engage in competitive pricing **BUYER POWER** ODERATE Large number of suppliers Differentiated products available **SUPPLIER POWER** ž Large number of suppliers High switching cost **NEW ENTRANTS** High initial capital investment Strong brand identity established

## SUBSTITUTION THREAT



High capital investment Highly differentiated products

**> 4 ★** 

create possible substitution

Price pressure from domestic

players can be strategically

Highly recurring customer base

More than one supplier for all

supplies available or is

expected to be found in a short

Instruments

require compliance with ISO

13485, ISO 17025, ISO 9001

Complex technology requires

high capital investment to

products

tackled through M&A

in most segments

and federal laws

timeframe

S&D.

 Adverse dynamics within industries such as accelerated changes in medical reimbursements or strategic collaboration among bigger players

Dependence on continuation of short-term contracts needs strong customer relations

• Unexpected decrease in regulations on quality control testing requirements within Medical device, Pharmaceutical manufacturing and Healthcare services

- Decline in legacy business and dependency on success of add-on acquisition targets
- Growth depends in part on the growth of the markets served with limited visibility

## **Regulatory Bodies & Guidelines**

	otorinzation control
AAMI	Medical Devices   Pharma Labs   Dental Offices are required to spore
	test on every load at least weekly, Hospitals spore test daily
(ST79)	AAMI ST79 recommends monitoring with a BI process challenge device

weekly, preferably daily (10.5.3.2) FDA Sterility conditions to be monitored using a combination of mechanical, chemical, and biological indicators (Mechanical monitors include daily

pressure)

1976 Medical Device **Amendment** to the FD&C Act

CDC

## **Quality Control**

Sterilization Control

Customers' quality control and regulatory environments require periodic repair and recalibration or certification of instrument products and cold chain monitoring systems.

assessment of cycle time and temperature and an assessment of

Storage area should constantly be controlled for temperature (max. 75°F) and relative humidity (30-60%)



Increased regulatory application necessity and high market entry barriers give strong selling position to established player Mesa



High sensitivity of reputational consequences upon issues with quality control increase pricing power for Mesa (towards customers) leading to 2.0-3.0% annual price increase in S&D, 0.5-1.5% in Instruments and less in CCM due tow lower maturity of business division



Through high historical & forecasted M&A efforts Mesa increases ability to tackle competitive pricing amongst well established players

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