



# Median Technologies

## The Imaging Phenomics Company®

Investor presentation  
Paris – 28 March 2019

**Fredrik Brag, CEO**

**Nozha Boujemaa, Chief Science and Innovation Officer**

**Bernard Reymann, Chief Financial Officer**



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# Median's executive team



**Fredrik Brag**  
*CEO, Chairman  
& Co-founder*



**Bernard Reymann**  
*Chief Financial Officer*



**Nozha Boujemaa**  
*Chief Science and  
Innovation Officer*



**Nicolas Dano**  
*Chief Operation Officer  
iCRO*



**Yan Liu**  
*Medical Director*

# Artificial Intelligence is our DNA



**Our Beginning:** Since 2002, pioneering the industry – extracting the most meaning out of medical images



**Our Value:** Precision medicine for the benefit of patients and payers



**Our strengths:** Technical robustness & interpretability of data science & Artificial Intelligence technologies to leverage the power of **Imaging Phenomics** improving **treatment innovation** and enhancing precision and repeatability of **diagnostics**



**Our People:** As of March 2019, 80+ employees worldwide across Europe, US and Asia



**Our Organization:** headquarters in Sophia Antipolis, France and subsidiaries in the US, Shanghai and Hong Kong. Two separate business units: **iCRO Business Unit (iSee®)** & **iBiopsy® Business Unit**

# Market potential

Global clinical trial imaging market size:  
\$790.5m in 2017 [1]

Global precision medicine market size:  
\$194.4b by 2024 [2]



**DRUG DEVELOPMENT**  
*Improve and optimize  
the assessment of  
new cancer drugs  
in clinical trials*



**PATIENT CARE**  
*Improve screening,  
diagnosis and  
monitoring standards  
of cancer patients*

**iSee**<sup>®</sup>  
*iCRO: Imaging solutions  
and services for oncology  
trials*



**iBiopsy**<sup>®</sup>  
*Pushing the boundaries of what imaging  
technology and AI can achieve to help  
develop the next generation treatments for  
precision medicine*

**Making Value  
From Data**

**Cloud  
computing**

**Machine Learning &  
AI Technologies**


**Transforming the science of medical imaging**

# Growth opportunities

	Median Revenues (2018)	Addressable market Median	Market trends
<b>iSee<sup>®</sup></b>	100%	<b>Imaging in oncology clinical trials</b> \$316m in 2017 \$448m by 2023	Volume: ↗↗ Value: ↗↗
<b>iBiopsy<sup>®</sup></b>	Non Applicable R&D	<b>AI-based medical image interpretation</b> \$2b by 2023	Volume: ↗↗↗ Value: ↗↗↗↗

Calculations for iCRO/iSee<sup>®</sup> market done from sources:  
<https://www.grandviewresearch.com/industry-analysis/clinical-trial-imaging-market> (Nov. 2018)  
<http://www.pharmtech.com/therapeutic-product-rd-market-trends>  
 Internal market study  
<https://www.signifyresearch.net/medical-imaging/ai-medical-imaging-top-2-billion-2023/>





**Median's mission is to push the boundaries of what imaging technology and AI can achieve to help develop the next generation treatments with the potential to save and improve the lives of cancer patients**

# iBiopsy<sup>®</sup> Business Unit

## The Imaging Phenomics Platform

*Leveraging cutting edge AI technologies to provide insights into novel therapies and treatment strategies for precision medicine*





# A fast changing landscape – Facts and figures

## Cancer

Is the second leading cause of death globally [1]

## Immuno-oncology

Is the big hope. However, most new immuno-oncology treatments only have about **20% responders** [2]

## >2b imaging exams per year

Most will have an AI post-processing component in the future



## Medical images

Are key in the entire cancer patient journey



## The data driven companies

In 2018 a new breed of data driven technology (-omics) companies have emerged

**\$70b by 2020**  
**\$141.7b by 2026**

The medicine of tomorrow will be personalized and predictive [3]



**AI for medical imaging: \$2b by 2023** [4]



### Sources

[1] WHO Cancer fact sheet – Sept. 2018: <https://www.who.int/news-room/fact-sheets/detail/cancer>

[2] <https://www.hopkinsmedicine.org/inhealth/policy-briefs/immunotherapy-precision-medicine-action-policy-brief.html>

[3] <https://bisresearch.com/blog/strategic-evaluation-precision-medicine/>

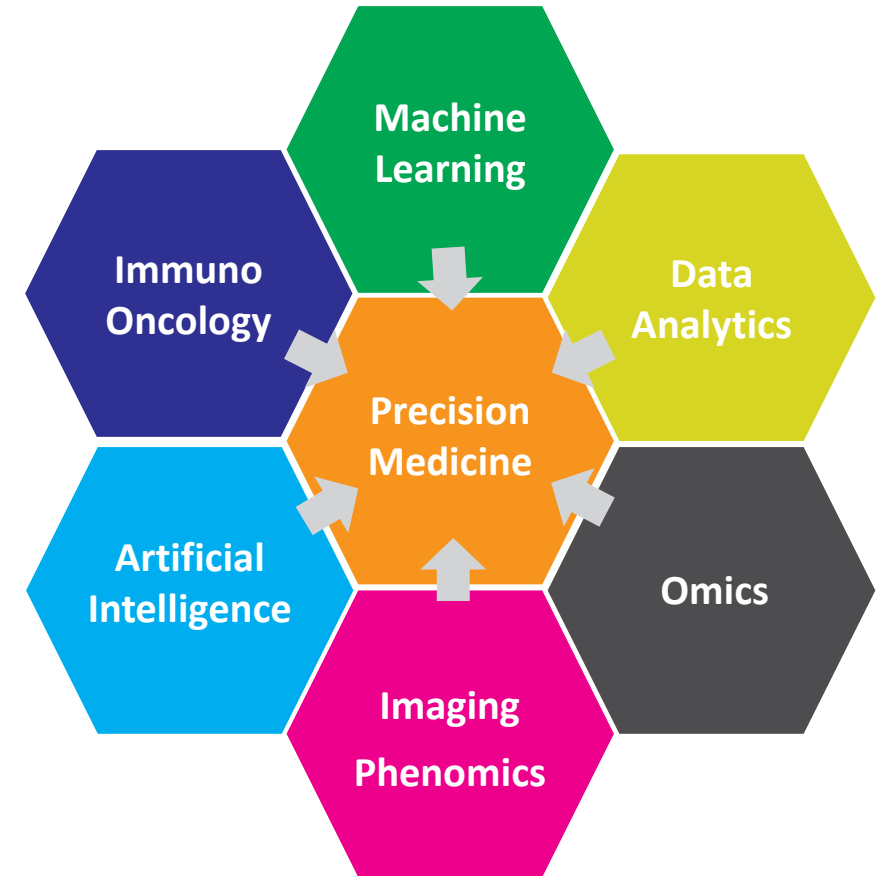
[4] <https://www.signifyresearch.net/medical-imaging/ai-medical-imaging-top-2-billion-2023/>

# Unmet medical needs

## *Unlocking the potential of precision medicine in oncology*

In order to develop drugs that can target specific patient profile it is vital to **have novel non-invasive biomarkers** that can:

- Analyze the heterogeneity of the tumoral landscape
- Identify hot, altered and cold tumors
- Map the complex tumor microenvironment (TME)



# Capitalize on the changing landscape



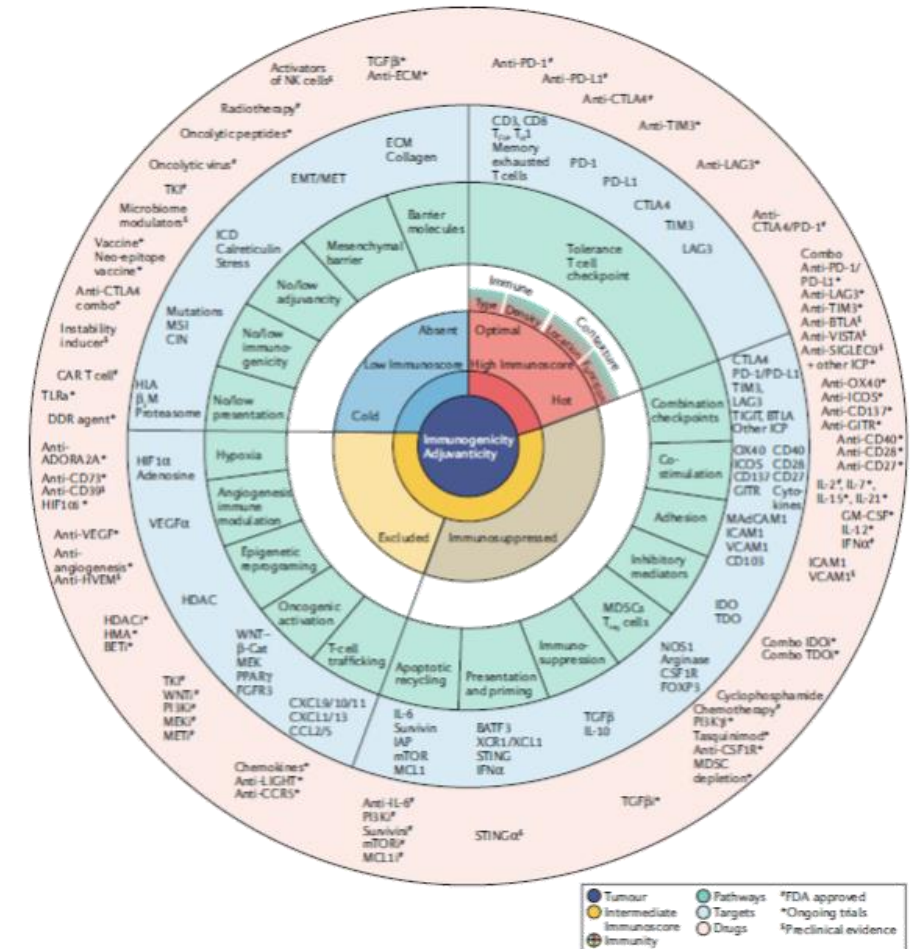
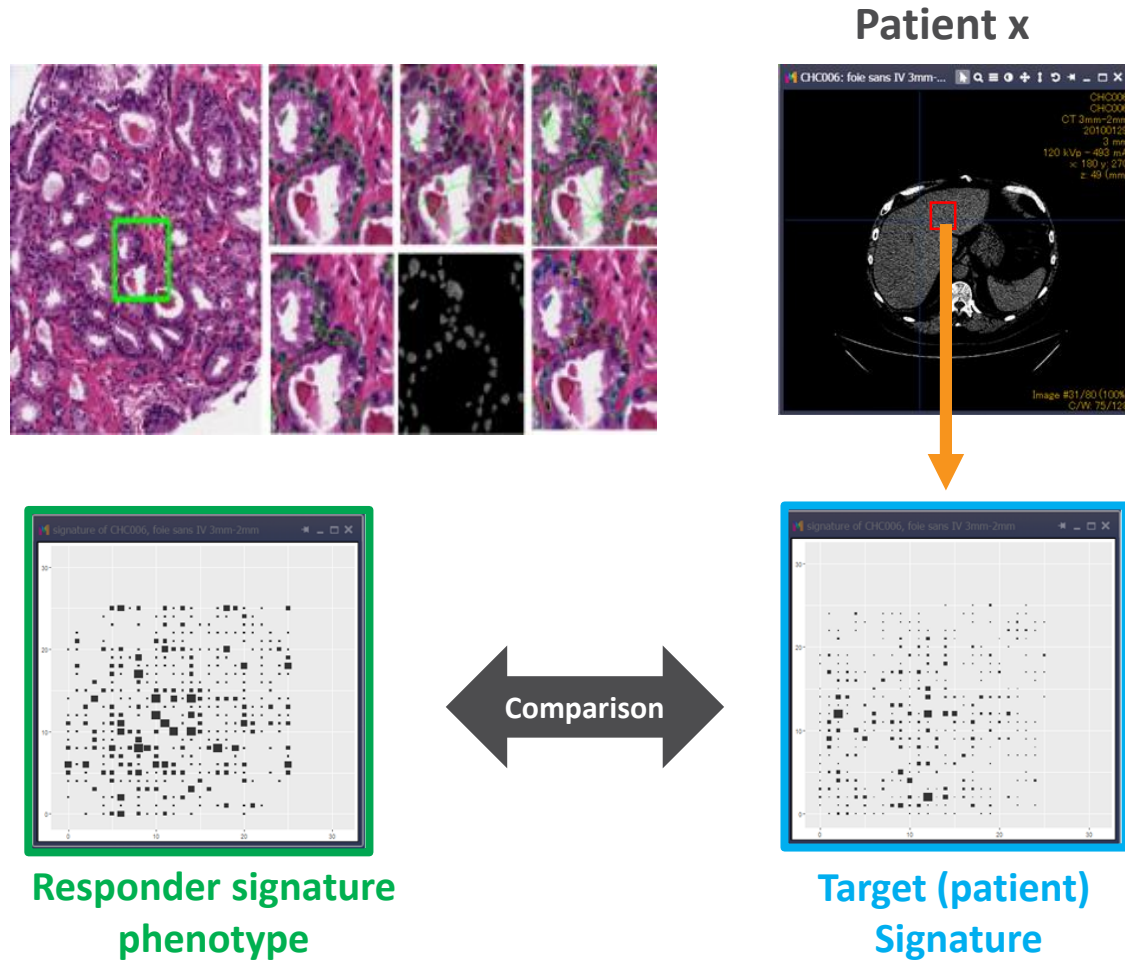
Median Technologies is uniquely positioned on two business sectors: empowering **clinical decision making** and **biopharma drug innovation**

## *Our Technology*

Extracting the **outmost meaningful visual signatures** from **medical images**, learning and reasoning based on **disruptive Artificial Intelligence approach** to meet the promise of **precision and predictive medicine**

- **Technical robustness & interpretability** of data science & artificial intelligence technologies to leverage the power of **Imaging Phenomics** enabling treatment innovation and enhancing **precision** and **repeatability** of diagnostics
- Outstanding collaborations with Academic Institutes and Key Opinion Leaders

# Comparing phenotypic signatures for treatment

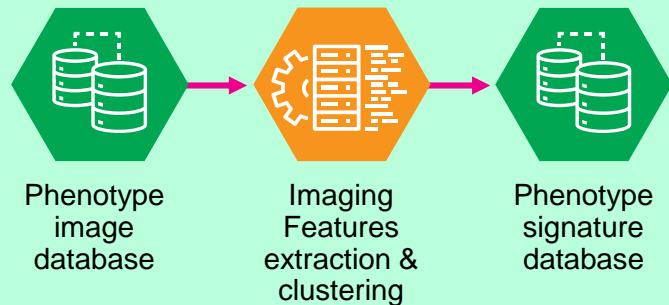


Source: Approaches to treat immune hot, altered and cold tumours with combination immunotherapies - Jérôme Galon and Daniela Bruni – Nature Review Drug Discovery - 9 January 2019  
<https://www.nature.com/articles/s41573-018-0007-y>

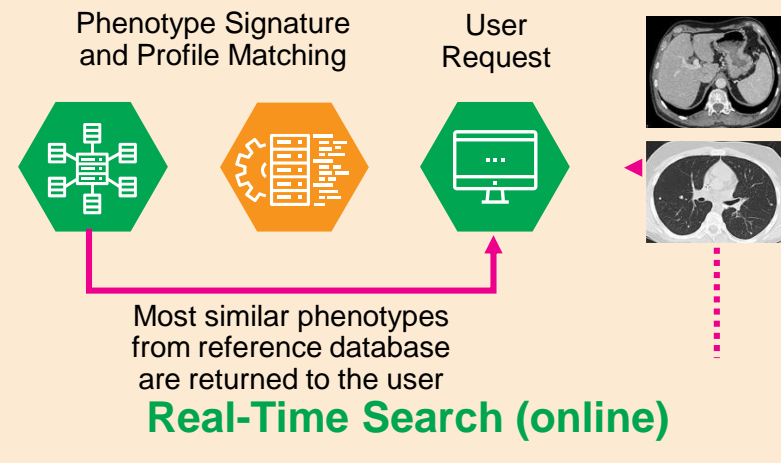
## Proprietary & patented cloud-based AI technology

iBiopsy<sup>®</sup> gathers rich know-how including automatic and asynchronous image features extraction, machine learning, lesion identification, scalable indexing and retrieval for **disease prediction and monitoring**

### Platform Components



#### Automated Indexing (offline)



**CyberScan<sup>®</sup>** performs real-time similarity searches of millions of indexed phenotypes against a target patient phenotype



**Sherlock<sup>®</sup>** is the inferencing engine which provides advanced data analytics, clustering and deep learning to support lesion classification and disease prediction



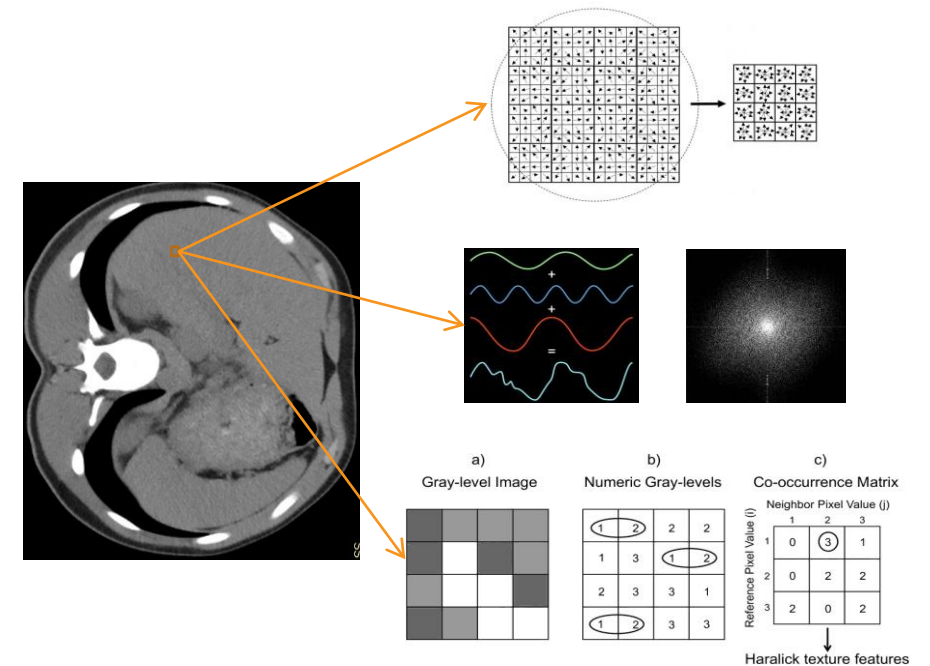
## Moving forward with cutting edge AI technologies

### Our technology assets and differentiators:

iBiopsy® is a disruptive robust technology platform to enhance interpretability and empower **clinical innovation**

- Extracts proprietary statistical image signatures **without lesion segmentation**
- Provides **high value prognosis information** that impact drug development and therapeutic strategies through :
  - Characterization of tumoral heterogeneity
  - Characterization of tumoral front
  - Characterization of Tumor Microenvironment (TME)

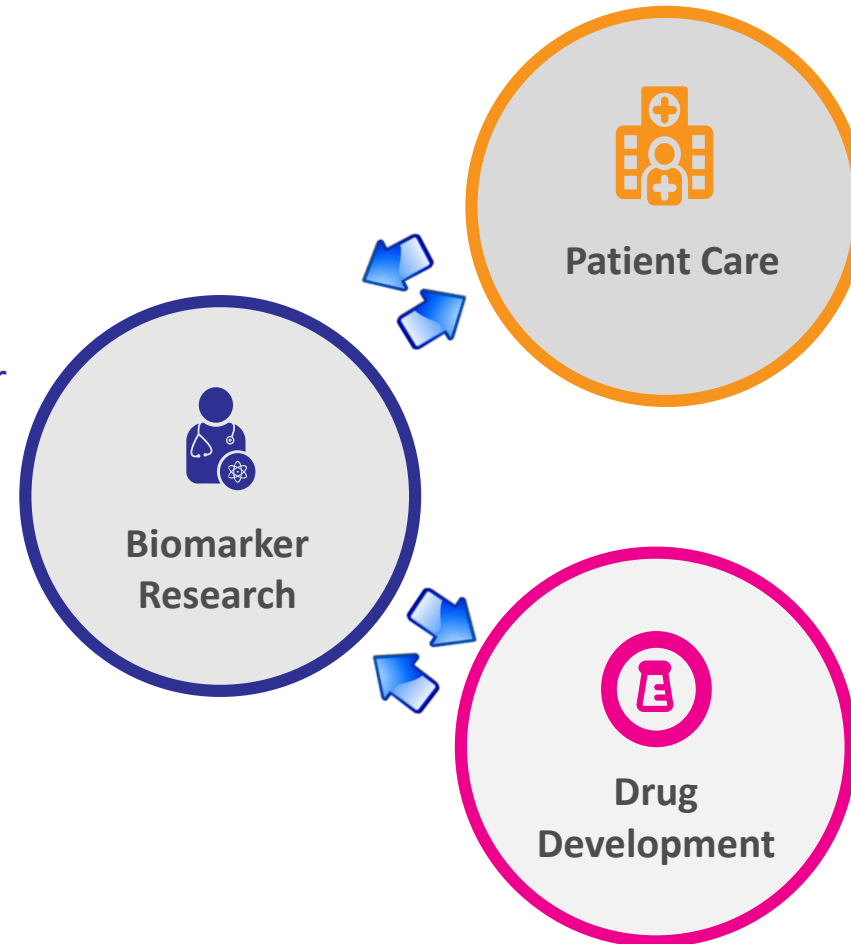
To reach the characterization of the immune context (hot and cold phenotypes)



# Next steps: iBiopsy® roadmap

OBJECTIVES		S1 2019	S2 2019	2020
1	DEVELOPMENT FOCUS	<ul style="list-style-type: none"> <li>Disruptive image signatures development and structuring</li> </ul>	<ul style="list-style-type: none"> <li>Large Scale features space structuring for real time retrieval → Cyberscan® service</li> <li>Unsupervised Learning of disease prediction → Sherlock® service</li> </ul>	<ul style="list-style-type: none"> <li>Machine learning from heterogenous data sources</li> </ul>
2	DELIVERABLES	<ul style="list-style-type: none"> <li>Technical validation of statistical signatures</li> <li>Technical validation of innovative clustering</li> </ul>	<ul style="list-style-type: none"> <li>Technical validation of platform component</li> <li>Prototype for lesion and TME characterization</li> </ul>	<ul style="list-style-type: none"> <li>Clinical Validation of platform components</li> <li>First experimentation of Hot &amp; Cold prediction</li> <li>Pilot prototype deployment</li> </ul>
3	PARTNERSHIP POLICY		<ul style="list-style-type: none"> <li>Research collaboration with clinicians and biopharmas</li> </ul>	<ul style="list-style-type: none"> <li>Early adopter prospect</li> </ul>

- **Correlate imaging biomarkers** with other markers such as pathology, gene expression, liquid biopsies



- **Informed treatment decisions** based on the real world evidence
- **Identify the appropriate treatment for each patient**
- **Monitor patients** under treatment
- **Predict patient prognosis** or outcome

- Predict responders for **IO drugs and NASH**
- **Select and target** patients for clinical trials
- Bring efficient drugs **faster to market**

# Revenue streams

- 1 | Subscription-based revenue from healthcare institutions, physicians, and biopharma companies accessing the platform
- 2 | Biomarker/companion diagnostic discovery with biopharmas
- 3 | Companion diagnostic royalties

# iCRO Business Unit

## Imaging CRO solutions and services for oncology trials

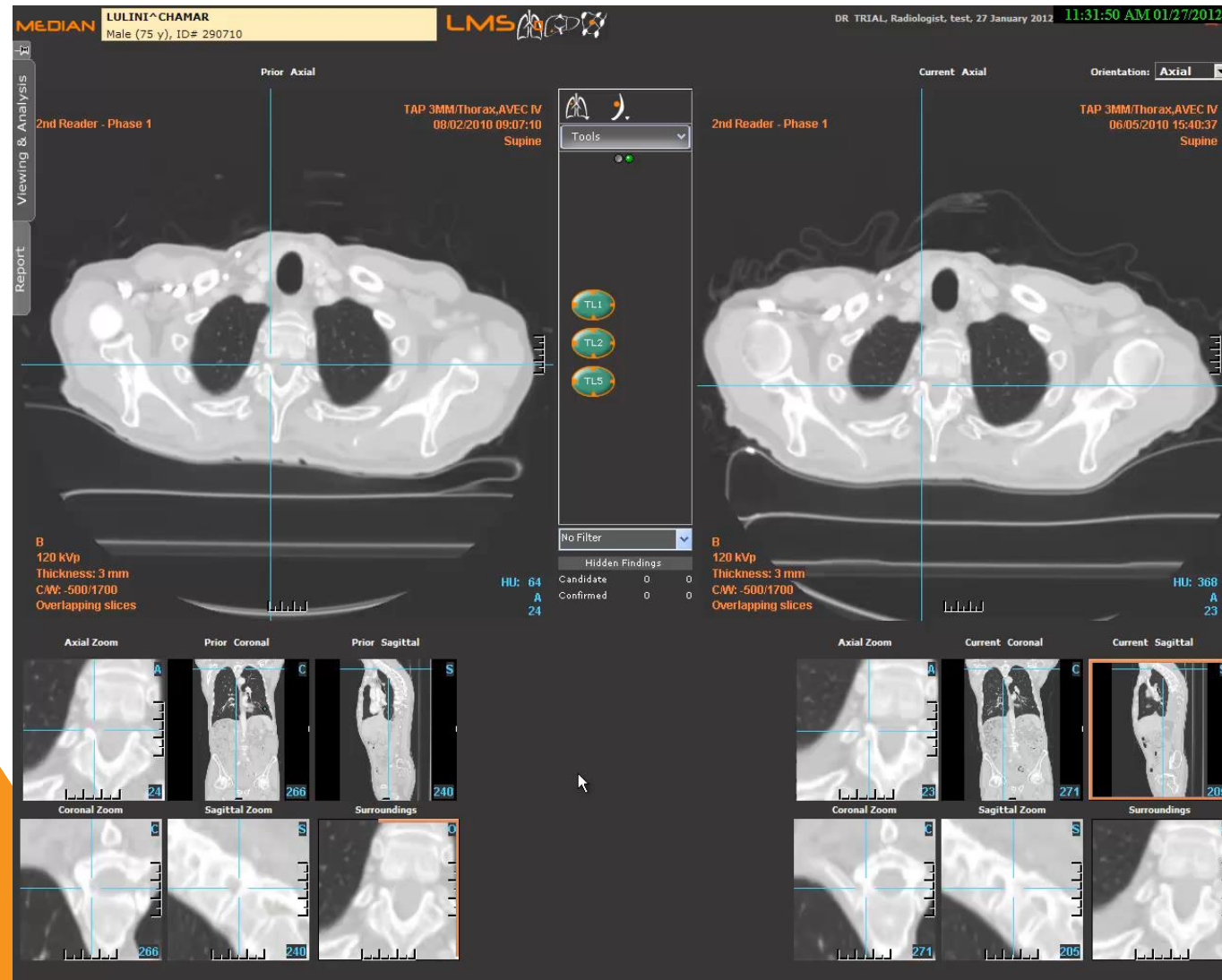
*A powerful blend of Technology, Science and Service*





# Imaging CRO solutions and services

## Bringing more meaning to image data: iSee® demo



# Strong iCRO Track Record

81 oncology studies (as of January 2019)

		Immuno oncology trials
19	Phase I trials	9
14	Phase I/II trials	8
30	Phase II trials	11
18	Phase III trials	12

Supported 7 Regulatory approvals!  
3 Drugs for 4 Indications

## *US and Europe*

- Indirect sales model and partnerships to grow further & faster:
  - Capitalize on existing partnerships and collaborations with global CROs
  - Develop new partnerships with niche/global CROs
- Repeat business with legacy clients

## *China*

- Our plan is to develop a China based entity delivering locally focused iCRO services and operations to the Greater China market

# iCRO focus on the high growth Chinese market



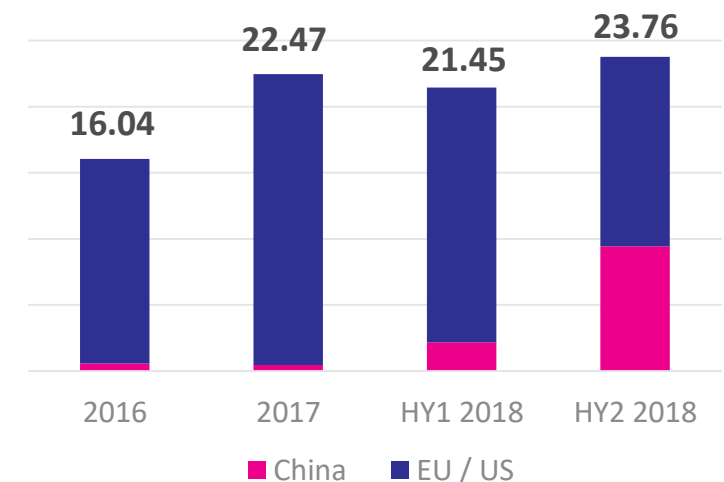
## *The reasons behind our success in China*

- Chinese market is experiencing an extremely strong growth: Chinese biopharmas have been able to raise substantial amounts of funding for clinical trials through successful IPO's
- There are no legacy or established relationships between Chinese biopharmas and local or international iCROs competing with Median
- Biopharma companies are craving for quality and Median is experiencing a strong market penetration by demonstrating a high quality of customer service.

Signed Clinical trials # -  
Chinese sponsors

2016	1
2017	1
2018 – HY1	3
2018 – HY2	9

Order backlog progression (€m)



# iCRO focus on the high growth Chinese market

## Our development in China

- An amazing potential
  - China became the 2<sup>nd</sup> largest national pharmaceutical market, worth **\$123bn** in 2017, **\$160bn** in 2021 <sup>[1]</sup>
  - R&D spending in China is expected to reach **\$29.2bn** in 2021 <sup>[2]</sup>
  - **Immunotherapy trials** increase from **25%** of total trials in 2016 to near **50%** in 2018 <sup>[3]</sup>

Phase	Amount	%
I	395	34.5%
II	185	16.16%
III	320	27.95%
IV	35	3.06%
BE	1	0.09%
Other	209	18.25%
<b>Total</b>	<b>1,145</b>	<b>100%</b>

**1,145** Trials with 71 indications<sup>[3]</sup>

Top 3 indications: NSCLC (211), Solid Tumor (144), Breast Cancer (104)

Domestic/Global	Amount	%
<b>Domestic</b>	848	74.06%
<b>Global</b>	263	22.97%
<b>Unknown</b>	34	2.97%
<b>Total</b>	<b>1,145</b>	<b>100%</b>

74% of trials conducted by domestic biopharmas

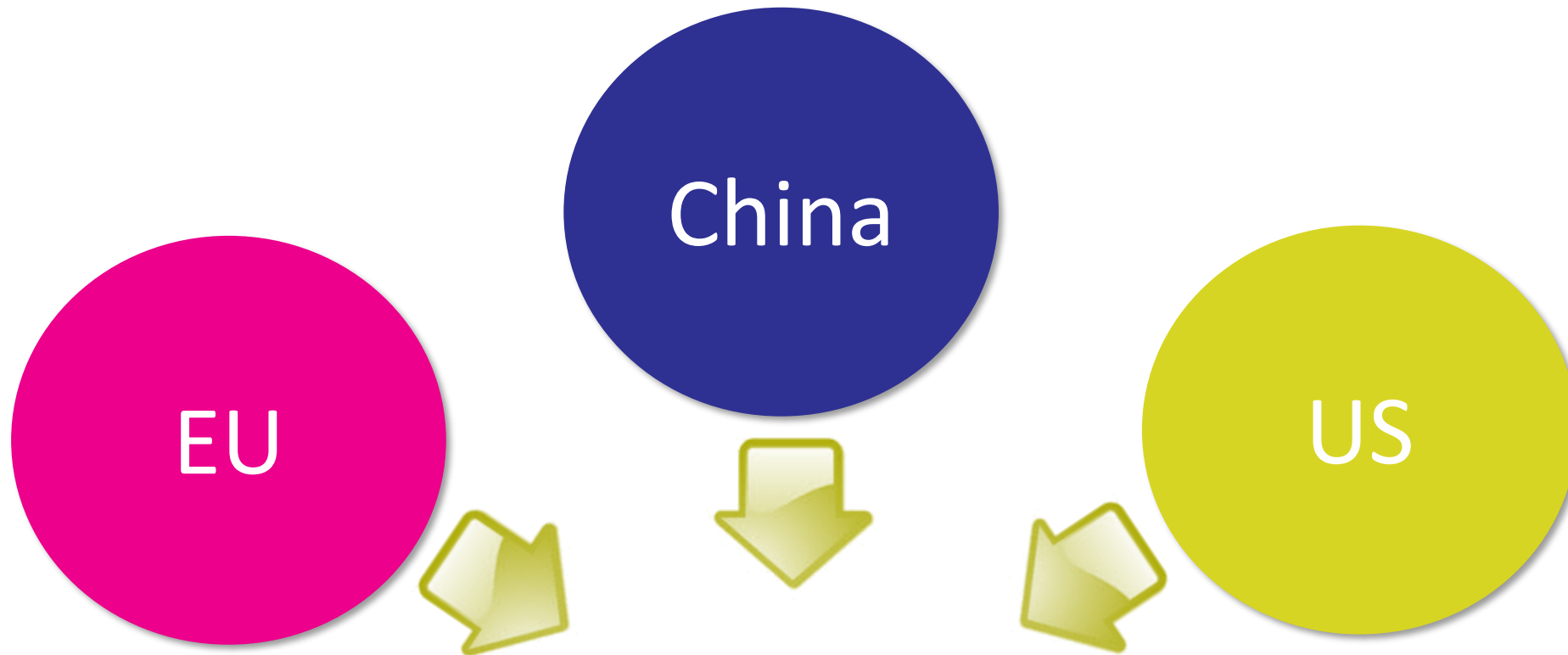
**Sources:**

<sup>[1]</sup> CNBC

<sup>[2]</sup> China Contract Research Organization(CRO) Industry Report, 2017-2021

<sup>[3]</sup> <http://www.chinadrugtrials.org.cn>, on-going trials in 2017





**Breakeven and sustainable iCRO  
business in 2019**

# Financial highlights



# Financial Highlights



*As of Dec. 31, 2018 - Preliminary Full Year 2018 Unaudited Financial results as released on Feb. 7, 2019  
Full audited Financial results to be released on April 11, 2019*

## Order backlog:

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**€23.7m**

+10.8% against June 30, 2018

Almost 40% of the order backlog from China orders

## Revenues:

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**€6.3m**

Even though 2018 company's revenues were €6.3m, a decrease of 17.5% compared to 2017, the iCRO business is now not only stable but should see strong growth through conversion of its increased backlog and as part of this its focus on the Chinese market.

## Cash & cash equivalents:

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**€12.7m**

## Cash burn:

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**HY1: €9.8m - HY2: €5.8m**

The strategic restructuring into two business units and an increased focus on high growth and profitable markets has enabled the cash burn to decrease substantially during the second semester of 2018. Excluding exceptional charges related to the company's organizational changes, the cash burn would have decreased even more.

# Financial Track Record

## Stock Market Data

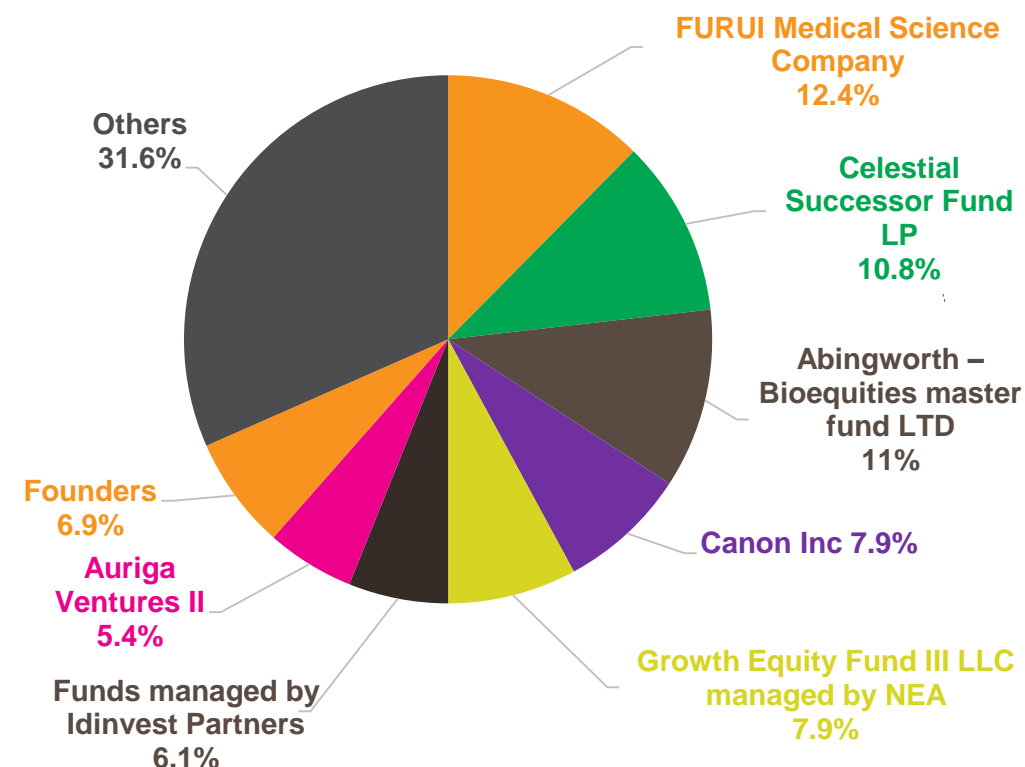


Listed on Euronext Growth Paris  
 IPO in May 2011  
 ISIN: FR0011049824  
 Ticker: ALMDT

## Recent Fundraising History

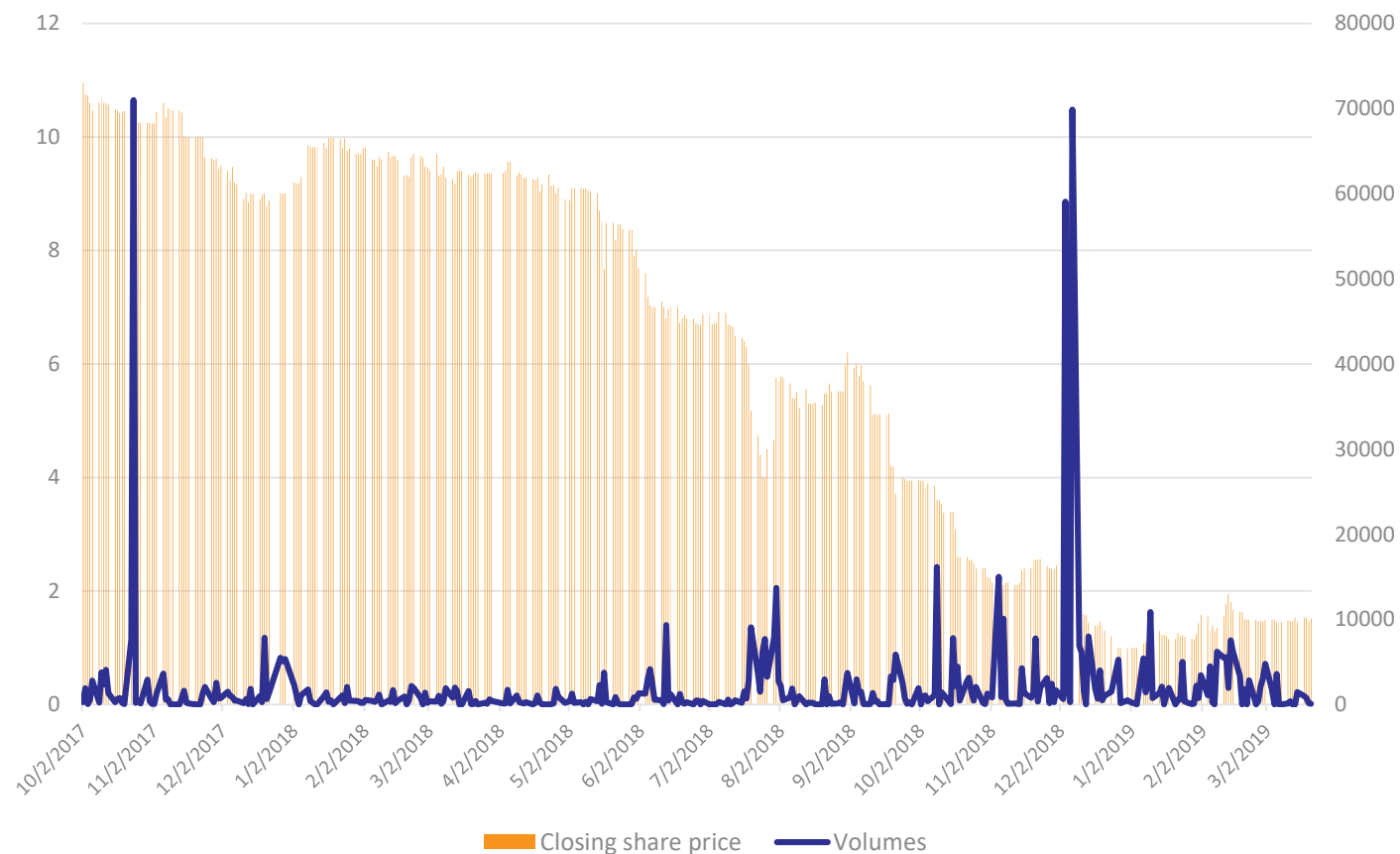
	Capital increase	Investors
2014	€20M	Investment led by NEA, with Omega Funds, Abingworth, Auriga Partners, DFJ ePlanet Ventures, IDInvest Partners
2015	€19.8M	Investment led by Abingworth, with NEA, Omega Funds, LongWood Capital Partners, Polar Capital, HBM HealthcareAG
2016	€19.6M	FURUI

## Shareholding Structure (end Q4, 2018)



# Stock price history

Year	Month	Average Volume
<b>2017</b>		
	October	4,650.5
	November	750.8
	December	1,835.9
<b>2018</b>		
	January	710.3
	February	704.8
	March	580.6
	April	432
	May	571.1
	June	1,321.4
	July	2,716.5
	August	888.3
	September	1,201.6
	October	2,195.5
	November	2,468.5
	December	8,987.5
<b>2019</b>		
	January	1,721.9
	February	2,792.9
	March	945.8



Source: Euronext - Figures at 21.03.2019  
Date format: d/mm/yyyy



# Take away messages

# Median Technologies

## *An attractive investment*



1| A unique technology in Imaging Phenomics with strong differentiators

2| Two business units on high growth profitable markets segments

3| Speed up a company that will shape the future of clinical innovation

4| The right time to invest



# Thank you!

## Our Core Values

### Leading innovation with purpose

Combine the spirit of innovation with our passion and conviction to help cure cancer and other debilitating diseases.

### Committing to quality in all we do

Be dedicated to quality in everything we do. Quality begins with us and we are committed to it.

### Supporting our customers in achieving their goals

Listen to the needs of our customers and help make their goals our goals through our innovation, imaging expertise, superior services and quality solutions.

### Putting the patient first

There is a person at the other end of the images we analyze who is counting on us to do everything we can to help make them healthier.

**ALMDT**  
EURONEXT  
GROWTH