

BECAUSE WE DON'T BELIEVE THE
FUTURE CAN WAIT FOR THE FUTURE

Annual General Meeting
March 30, 2020

Safe Harbor



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Speakers



Stéphane Piat

Chief Executive Officer

- Over 20-year experience in the medical device business
- Previously Divisional Vice President Global Market Development at Abbott
- Johnson & Johnson Cordis (2002-2007)



Pascale d'Arbonneau

Chief Financial Officer

- Over 25-year experience in Finance
- Previously VP-Finance at GSK
- Graduate of ESCP Europe

Board of directors



Pr Alain Carpentier
Honorary Chairman



Jean-Pierre Garnier
Chairman

Diversified and complementary board

- 3 nationalities
- 5 independent directors
- 2 international experts in cardiology



Karl Hennessee
Representative of Airbus Group



Stéphane Piat
CEO



Dr Philippe Pouletty
Representative of Truffle Capital



Henri Lachmann
Independent Director

9

directors



Jean-Luc Lemercier
Independent Director



Dr Antonino Ligresti
Representative of Santé Holding
SRL
Independent Director



Pierre Bastid
Independent Director



Dr Michael Mack
Independent Director

Agenda

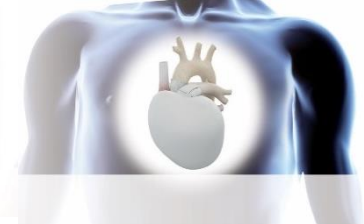


- I. Bureau constitution
- II. Progress made by CARMAT in 2019
- III. Strategy and outlook
- IV. 2019 Financial report
- V. Statutory auditors' reports
- VI. Simplified agenda
- VII. Questions & answers
- VIII. Voting on resolutions



I. Bureau constitution

Bureau constitution



- Appointment of the President of the meeting
- Designation of the Secretary of the meeting
- Quorum
 - Number of shares with voting rights: 12,605,720
 - Shareholders present, represented by proxy or voting by mail: 6,284,570 shares;
i.e. 7,384,936 votes
 - Quorum of 49.855%



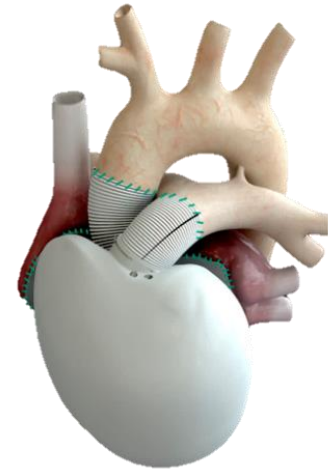
II. Progress made by CARMAT in 2019

A breakthrough innovation to treat end-stage heart failure



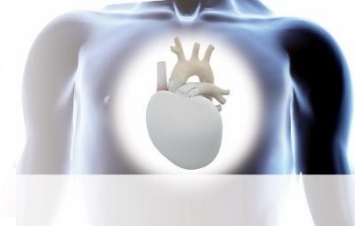
Vision

- A **physiological artificial heart**: a real alternative to heart transplant
- Make the implantation of this heart a **routine surgical procedure**
- Conquering a **global market**



CARMAT, the most advanced artificial heart in the world

Advanced Heart Failure



6 000 heart transplants
a year

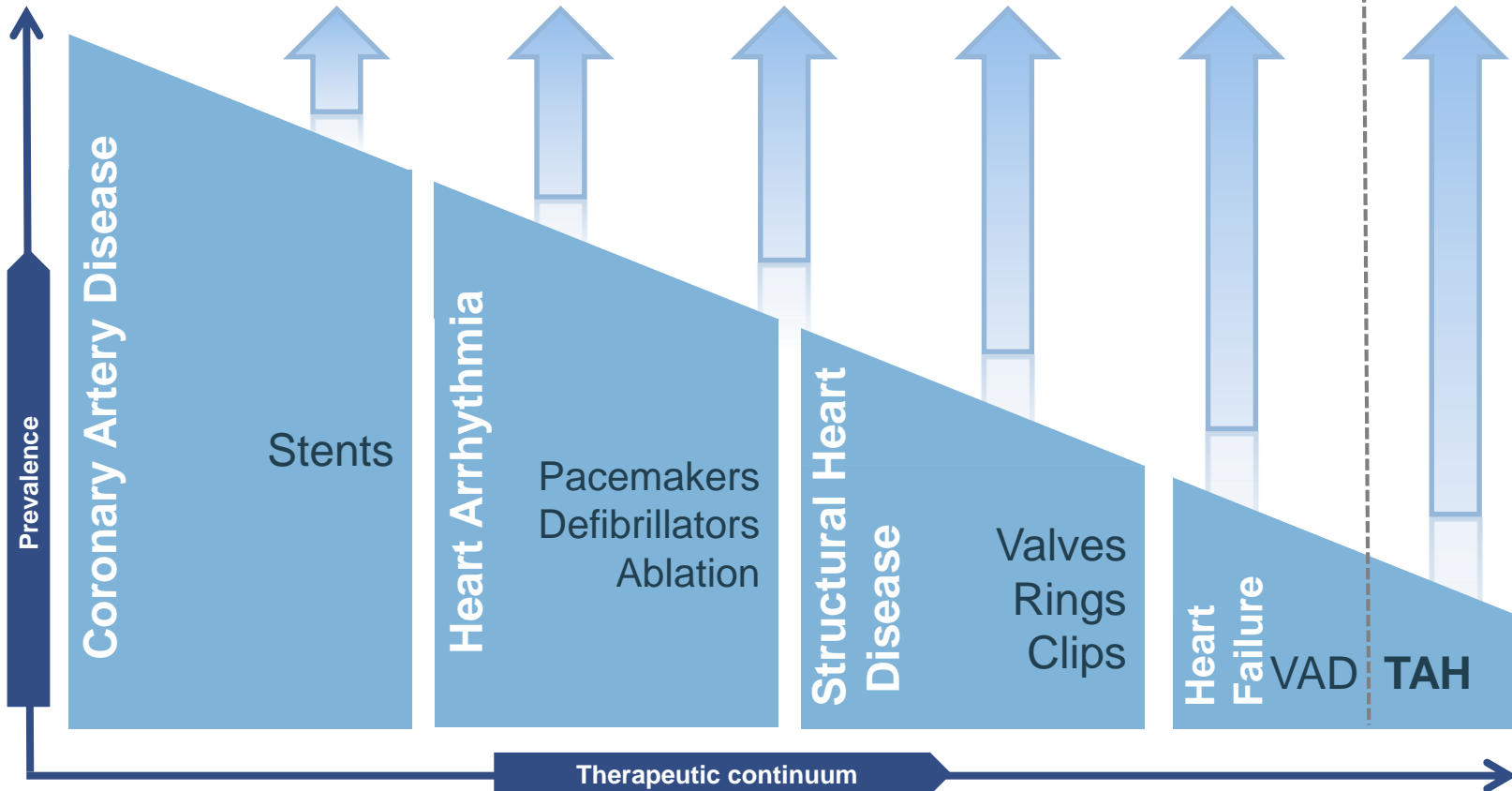
Only covering **3%** of the total needs

Between **60** and **94%**
death rate within a year

Total Artificial Heart a sizeable opportunity in Cardiology for Medtech companies



MAJOR PLAYERS IN CARDIOLOGY



CARMAT program



**Available
technology**



LVAD/BIVAD/TAH* displaying numerous limitations

**Need for a reliable
new-generation
solution**



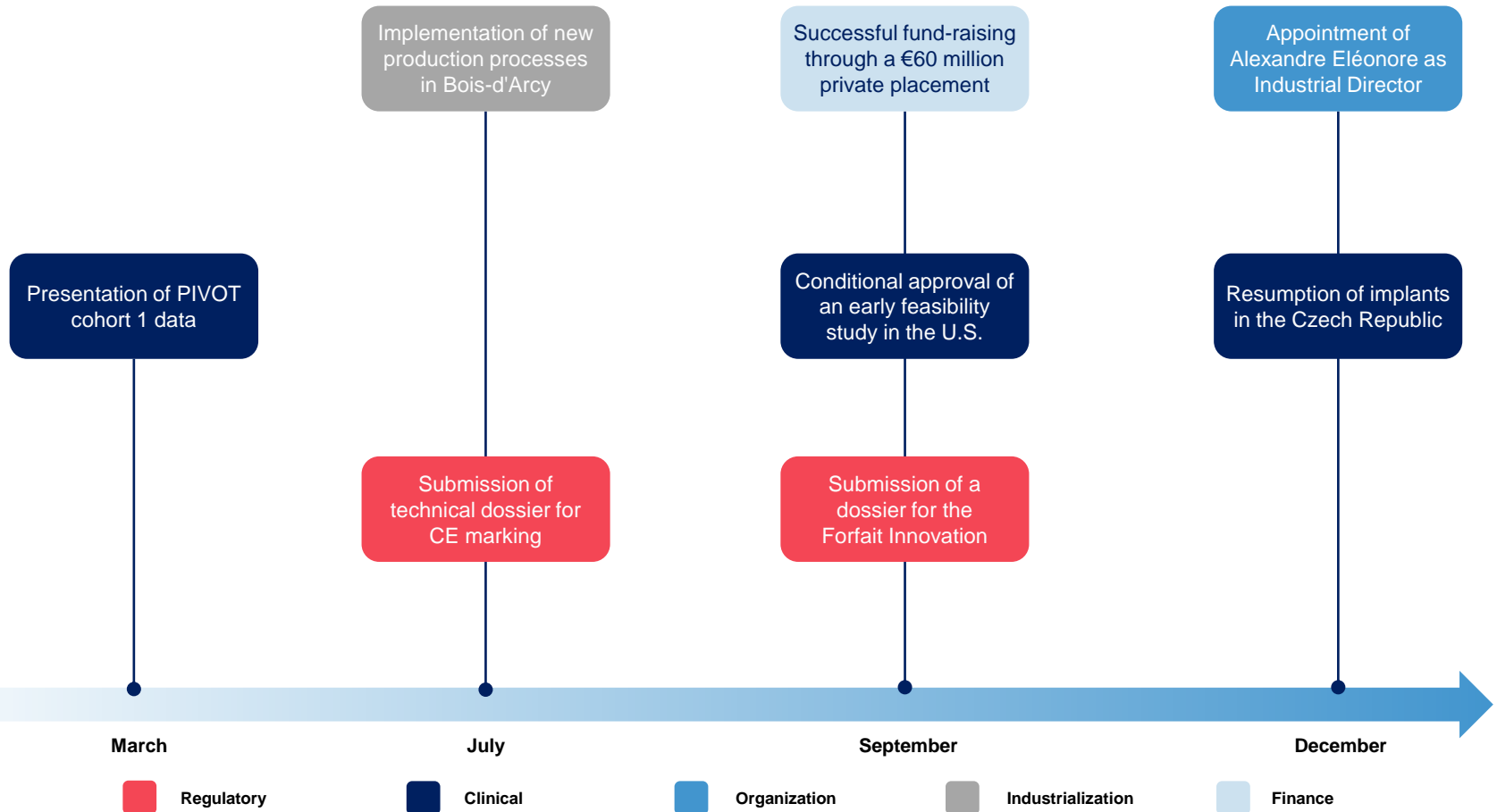
Adapts to the patient physiology through an autoregulation system and improved hemocompatibility to provide a better quality of life

**Objective of the
clinical program**



Validate these hypotheses

2019: a structuring year



**Major progress in the CE marking process,
as evidenced by the submission of the technical dossier**

Ongoing PIVOTAL study

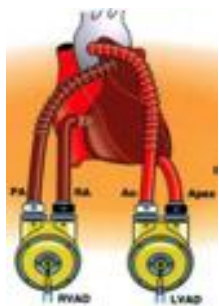


- Enrollment completed for the first part of the study (10 patients)
- 2 patients of the second part of the study enrolled
- Enrollment objective: **20 patients** in total
- Primary endpoint of the study: **6 months** survival

Results from the first 11 patients of the PIVOTAL study



- 6-month survival rate among the first 11 patients: 73%
- Improvement expected with the second patient cohort as a result of the experience gained



Taux de survie à 6 mois	
CARMAT FIM	50%
CARMAT PIVOT (partie 1)	73%
SynCardia*	54% - 62%
BIVAD**	46% - 68%
LVAD***	90% - 92%

* Kirklin JK et al, J Heart Lung Transplant 2018;37:685-691. Arabia F et al, J Heart Lung Transplant, 2018;37:1304-1312
 ** Lavee J et al, J Heart Lung Transplant 2018;37:1399-1402. Arabia F et al, Ann Thorac Surg 2018;105:548-56
 *** Strueber M et al. J Am Coll Cardiol 2011;57:1375-82. Netuka I et al, J Am Coll Cardiol 2015;66:2579-89

Confirmation of the good safety profile



- Positive 6-month safety profile in 11 patients compared to other therapies

Adverse events	Stroke	Bleeding – surgical repair	Gastrointestinal bleeding	Percutaneous cable infection
CARMAT FIM	0%	75%	0%	0%
CARMAT PIVOTAL (part 1)	0%	27%	0%	0%
SynCardia*	23%	41%	20%	22%
BIVAD**	7%	n/a	7%	7%
LVAD***	8%	14%	8%	10%

- No hemolysis

* Arabia F et al, J Heart Lung Transplant, 2018;37:1304–1312. Demondion P et al, Eur J Cardiothorac Surg. 2013 Nov;44(5):843-8.

** Lavee J et al, J Heart Lung Transplant 2018;37:1399–1402

*** Netuka I et al, J Am Coll Cardiol 2015;66:2579–89

Optimization of the surgical experience



- 100% success rate for the procedure
- Length of surgery shortened with the benefit of experience
- Heart transplantation is possible following the CARMAT implantation:
 - **5/5 successfully completed**

Overview of the clinical experience to date



- **Operation**
 - Recovery times comparable to the norm for high-risk patients
 - Physiological autoregulation of the prosthesis, adapting to the activity of the patient
- **Favorable safety profile**
 - No hemolysis, no stroke, no digestive system bleeding in the first cohort
- **Follow-up**
 - 6-month survival rate among the first 11 patients: 73%
 - Bridge to heart transplant successfully performed



To date:

- Achievement of 25 months of individual support in the PIVOTAL study
- 35-month bench-testing achieved with a prosthesis produced for Cohort 1 of the PIVOTAL study

Data accumulated over time show the potential of the CARMAT heart to be used as a destination therapy



III. Strategy and outlook

Upcoming developments



- Continuous improvement of production processes in Bois-d'Arcy
- Completion of the PIVOTAL study
- Start of the EFFICAS study in France within the “Forfait Innovation” Framework
- Start the implants within the framework of the Early Feasibility Study (EFS) in the U.S.
- Prepare the company for commercialization

All the strategic projects are progressing well



- Increased reliability of prostheses following the implementation of new manufacturing processes
- Control of the processes allowing a better fluidity of the production and ramp-up
- Focus on suppliers to ensure production continuity

Processes are in place to support clinical and commercial demand

PIVOTAL study



- 12 patients enrolled to date
- Extremely encouraging data
- Estimated time to complete the recruitment is 4 - 5 months

EFFICAS study



- Forfait Innovation filed in Q4 2019
- Favourable HAS opinion received in February 2020
- Budget negotiations to be initiated shortly

Opportunity to launch a broader study with collection of medico-economic data in France exclusively

EFS in the U.S.



Next steps:

- Reimbursement discussions with CMS
(Centers for Medicare & Medicaid Services)
- Get approvals from Ethics Committees (2/7)
- Sign study contracts with selected centers
- Patient selection

Objective is to treat a first patient in the 4th quarter 2020



CE marking



- Few outstanding questions on the technical dossier
- Robust clinical file with 12 patients

Marketing



- Mapping work carried out in Germany
- Preparation of the "promotional" strategy in progress

Objective: to be operational for a launch in 2021

Impact of the Covid-19 epidemic on CARMAT



Manufacturing	<ul style="list-style-type: none">No impact for the moment
PIVOTAL study	<ul style="list-style-type: none">No access to hospitals (3 patients on hold)
EFFICAS study	<ul style="list-style-type: none">No expected impact on discussion time with HAS
EFS	<ul style="list-style-type: none">No impact expected on discussion times with FDA, CMS and hospitals
Commercialization	<ul style="list-style-type: none">Ongoing discussions with DEKRA

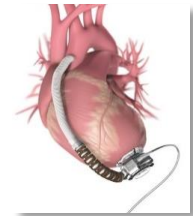
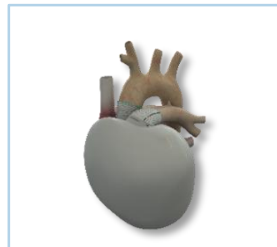
Limited impact on timing if the pandemic is resolved by the end of Q2 2020

CARMAT, a unique and eagerly awaited solution



4 essential requirements to provide physiological support without complications*:

- Biventricular support
- Pulsatility
- Self-regulation
- High biocompatibility



	CARMAT TAH	Syncardia TAH	BVAD	LVAD + pRVAD	LVAD
Biventricular support	✓	✓	✓	✓	✗
Pulsatility	✓	✓	✗	✗	✗
Self-regulation	✓	✗	✗	✗	✗
High biocompatibility	✓	✗	✗	✗	✗

- The only system to offer real physiological support

* Rogers JC et al. N Engl J Med 2017; Money L et al. ASAIO J 2020; Lai JV et al. ASAIO J 2020; Mehra M. Eur Heart J 2017; Murase S et al. J Heart Lung Transpl 2020



IV. Financial report 2019

Simplified P&L



In €m	2019	2018
Operating income	0.7	0.7
Operating expenses	(43.1)	(43.5)
Operating Result	(42.4)	(42.8)
Financial Result	(1.8)	(0.9)
Pre-Tax Result on Recurring Activities	(44.2)	(43.7)
Exceptional items	(0.1)	-
Research tax credit	1.6	2.0
Net Result	(42.6)	(41.7)

- **Prosthesis not yet marketed – no sales in 2019**
- **Operating expenses under control in a context of intensifying the European market access strategy:**
 1. Continuation of the CE marking process
 2. FDA approval to start a feasibility study in the United States
 3. Ensure the reliability of the production processes and preparation for the ramping up at the Bois-d'Arcy plant
 4. Continuation of the transformation of CARMAT into an industrial and commercial company
- **Increase in financial interests – EIB loan drawdown impact**
- **€1.6m research tax credit**

Simplified Balance Sheet



In €m	31.12.19	31.12.18
Fixed Assets	5.6	6.1
Trade receivables	3.6	5.4
Cash and cash equivalents	55.5	25.3
Total ASSETS	64.7	36.8
Shareholders' Equity	24.5	7.5
Other Shareholders' Equity	14.5	13.1
Provision for Risks & Charges	0.7	1.0
Liabilities:	25.0	15.3
- Financial debt	16.4	4.7
- Trade liabilities	8.6	10.6
Total LIABILITIES	64.7	36.8

- €55m in cash as of December 31, 2019

Strengthened cash position



Change in cash	In €m
Cash as of 31.12.18	25.3
Financing cash flow	71.1
Operating cash flow	(40.3)
Investing cash flow	(0.6)
Cash as of 31.12.19	55.5



- **Capital increase: +€60m**
- **EIB loan first tranche drawdown: +€10m**
- **Bpifrance last tranche repayable advance received: +€1.5m**
- **Other: -€0.4m**

Solid cash position of €55m as of 31.12.2019

Available financings



Cash as of 31.12.2019

€55m



EIB loan | Tranche 2

€10m

EIB loan | Tranche 3

€10m

**Non dilutive financing:
drawdown subject to technical milestones**

Flexible equity financing line
(Kepler)

€22m

**Exercisable according to needs / market
conditions until end-September 2020**

CARMAT has visibility up to Q3 2021 which allows completion of its clinical developments and the preparation of the commercial phase

CARMAT and the stock market

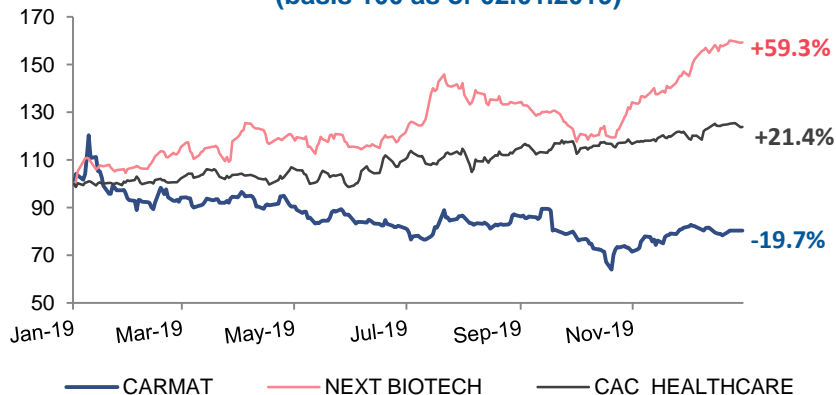


Listing information as of 31.12.2019

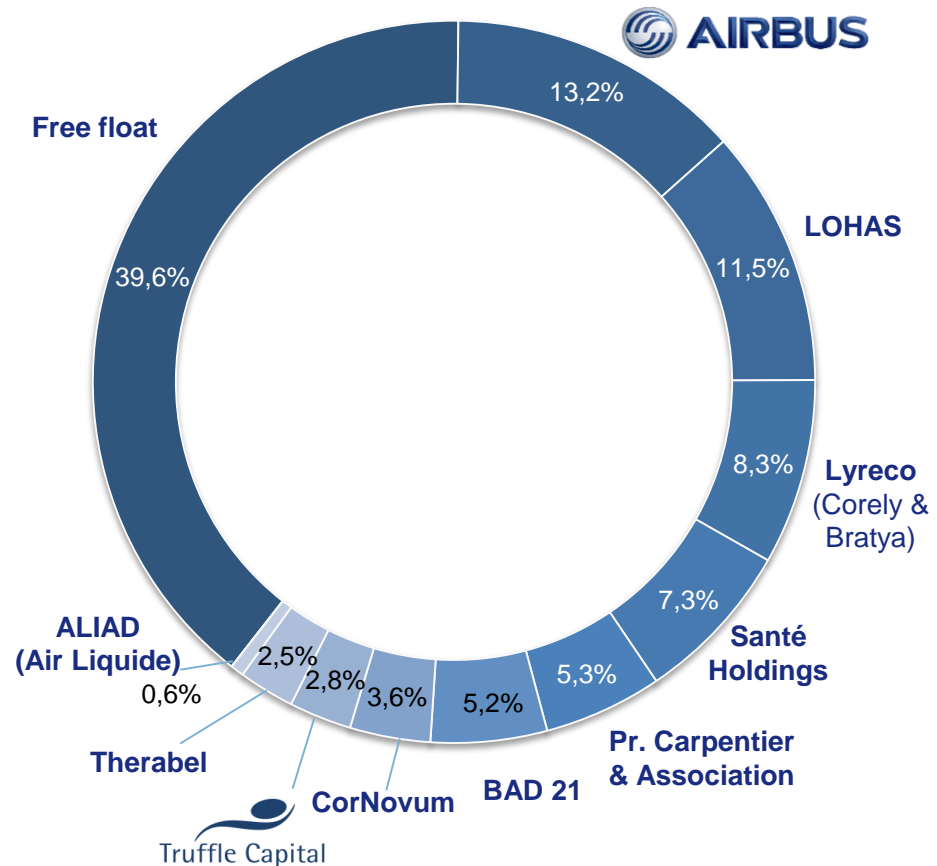
- **Ticker:** ALCAR
- **ISIN Code:** FR0010907956
- **Industry:** Health equipment and services
- **Share price:** €19.28
- **Number of shares:** 12,609,649
- **Market cap.:** €243.1m

Change in CARMAT share price vs. sector indexes in 2019

(basis 100 as of 02.01.2019)



Shareholding structure as of 31.12.2019





V. Lecture of the Statutory Auditor's reports

M. Thierry Charron (PWC)



VI. Simplified agenda

Ordinary agenda



- On an ordinary basis, shareholders are invited to vote on the usual resolutions related to the day-to-day management of the company, in particular:
 - **approval** of the corporate accounts, discharge of the directors for their management and allocation of the results for the financial year 2019
 - **review** of regulated agreements
 - **opinion** on the elements of executive compensation for the 2019 financial year
 - **authorization** of the share buyback program
 - **appointment** of a new director

Extraordinary agenda



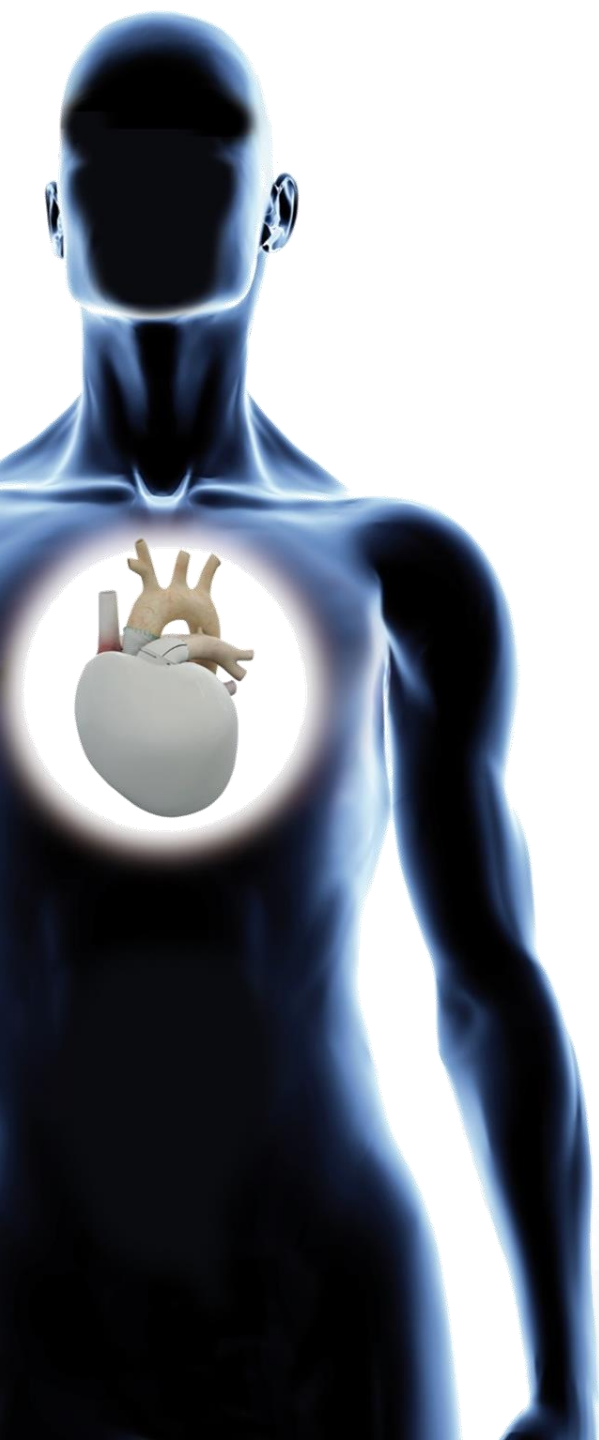
- On an extraordinary basis, shareholders are invited to vote on the usual resolutions related to changes in share capital, in particular:
 - **authorization** to reduce the share capital by cancelling treasury shares
 - **capital increases** by issuing ordinary shares and / or all securities
 - **setting** of the total amount of financial delegations linked to capital increases
 - **authorization** to grant options to subscribe or purchase shares in the Company
 - **amendment** of the articles of association with a view to the Company and the introduction of two new categories of preference shares convertible into ordinary shares (AGAP)
 - **implementation** of a new AGAP 2020 plan



VII. Questions & answers



VIII. Voting on resolutions



Thank you for your attention!