



Incubation & Inception

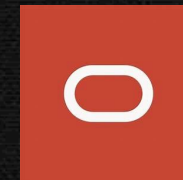
OUR HISTORY AND OUR JOURNEYS

COMPBIOMED EVENT
Business Incubation

ELEM

Formidable partners

Doctors
Hospitals
Medical Associations
Regulators
Research Partners
Funders (public and private)

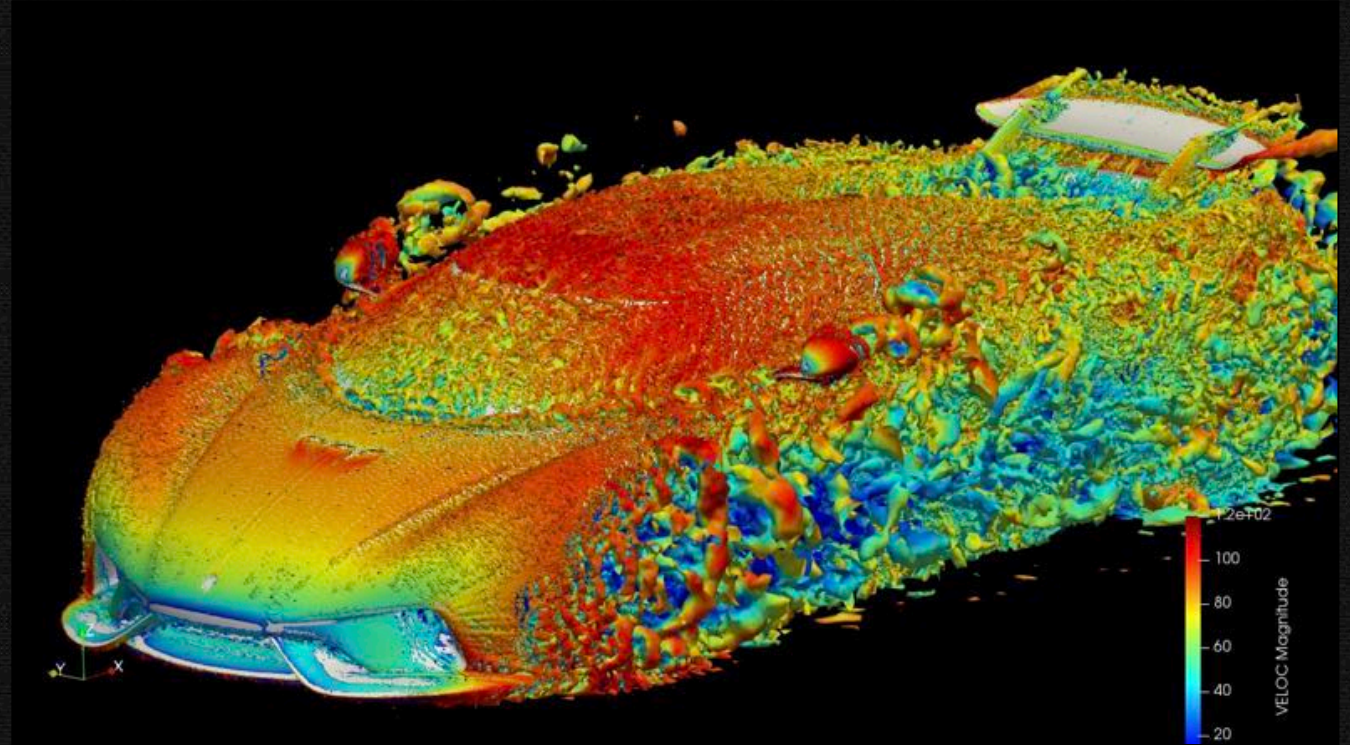




PRELUDE

Computer Modelling and Simulation

Everything
we touch...



Courtesy of the Barcelona Supercomputing Centre

Computer Modelling and Simulation

Not quite...





We harness the power of supercomputers
and patient modeling to deliver unparalleled medical
insights to improve treatments and outcomes
for patients

ELEM




CHALLENGE

From Research to Changing Lives

oracle.com/corporate/

Ask "Apply for a job"


A history of possibilities



Endless possibilities

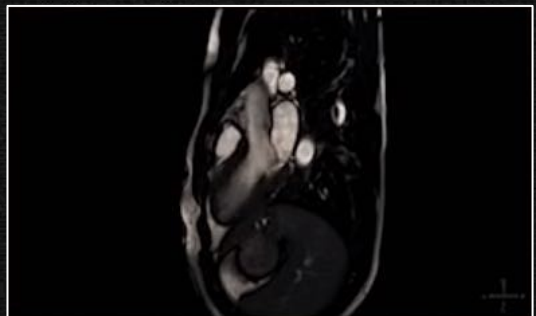
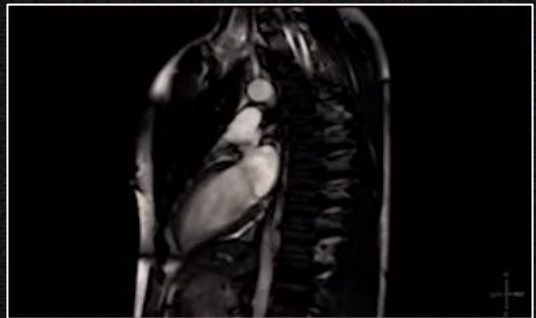
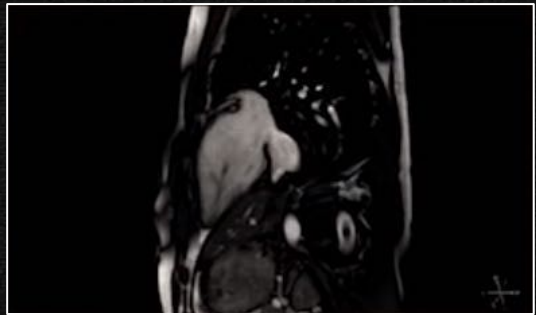
Barcelona biotech fights heart disease

ELEM computes full-heart models of diseased hearts using Oracle's high performance cloud.

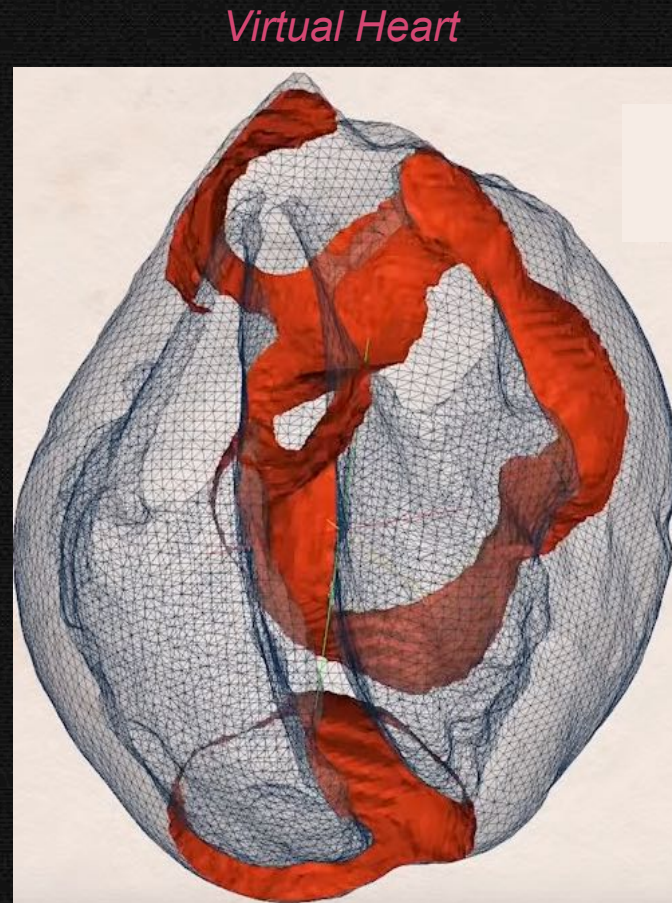


2019

Super complex simulation using supercomputers...



**Magnetic Resonance
Images**



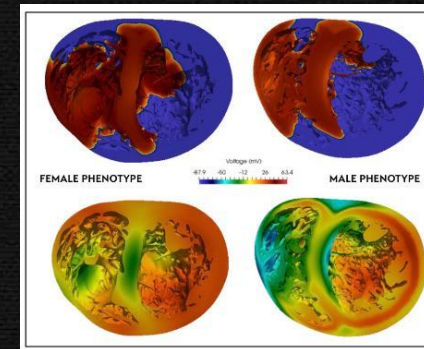
Computer Simulation



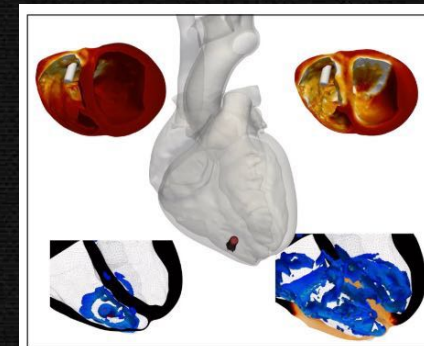
Applications



*Fluid-electromechanical
simulation of pacemaker
resynchronization*



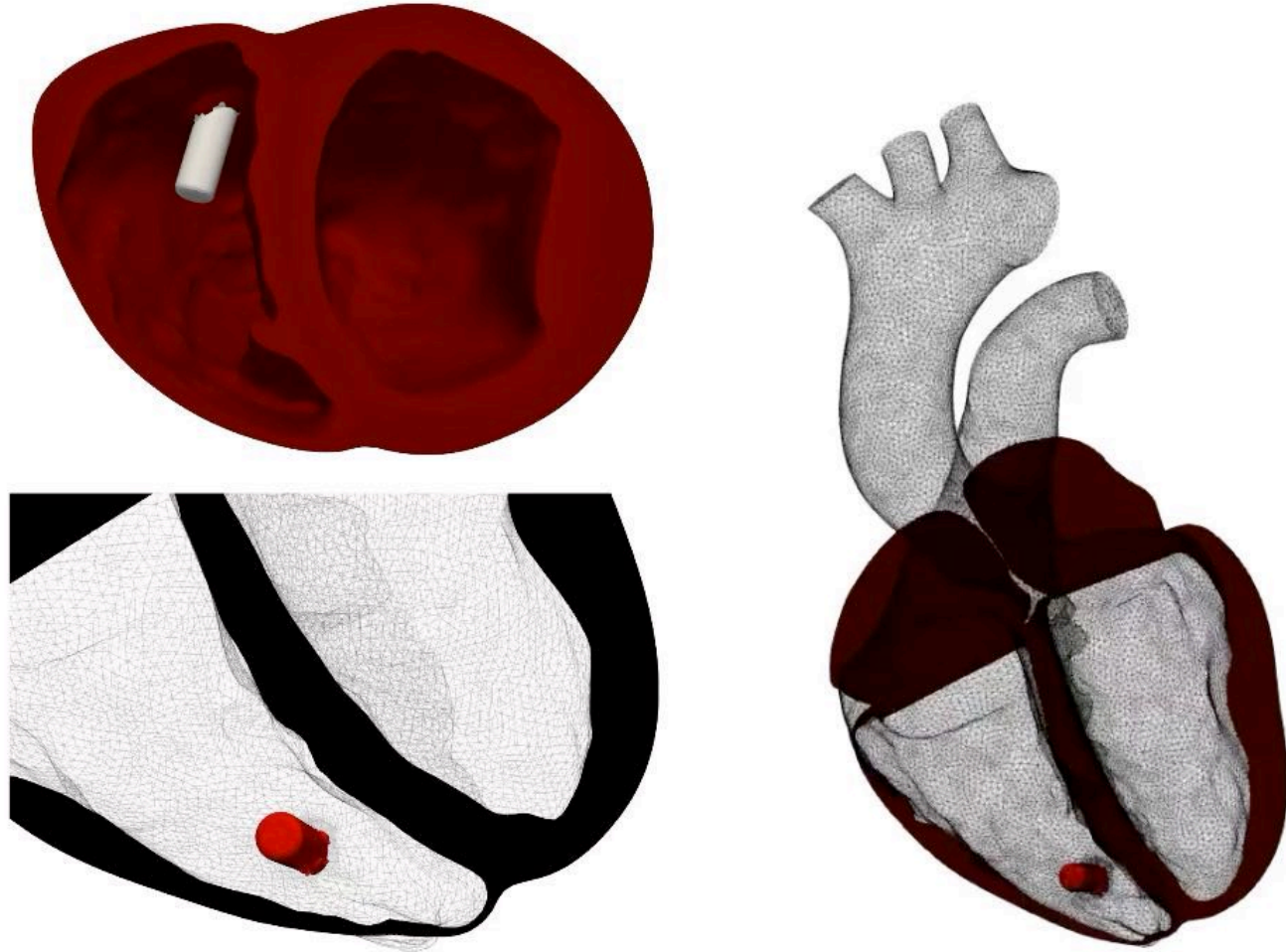
*Cardiac electromechanical
activity variabilities on
male and female*



*Fluid-electromechanical
simulation of leadless
pacemaker*

...to real products for medical trials

In Silico
Trials with
Virtual
Heart



*Patient receiving a leadless pacemaker device implant
Testing for Heart Function Recovery*

ELEM



HISTORY

The Founders

1996



The Project

2005



First attempt

2013



ELEM

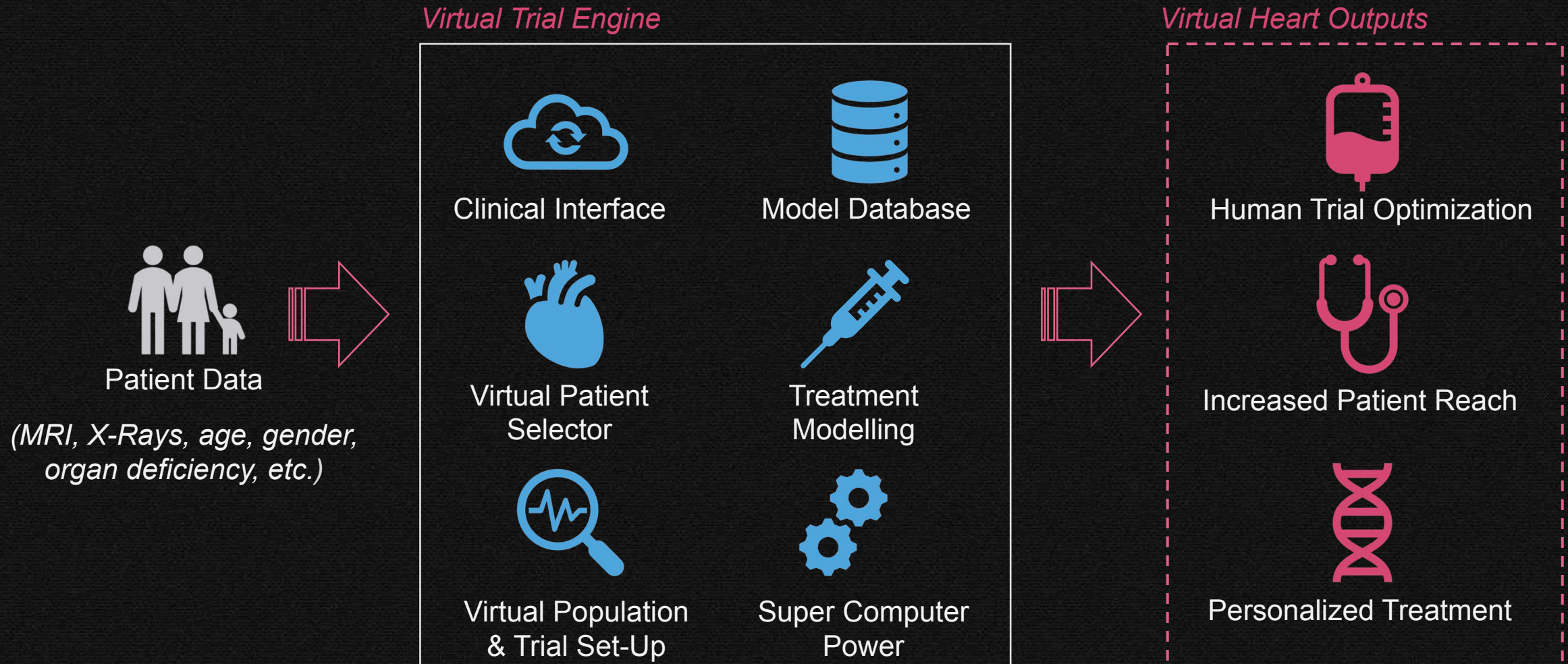
2018





JOURNEYS

To build and deploy Virtual Heart



Building our startup | from 2 to 8

Bootstrap Round

BSC Spin-off
€275k raised
July 2018

Tech Transfer Agreement

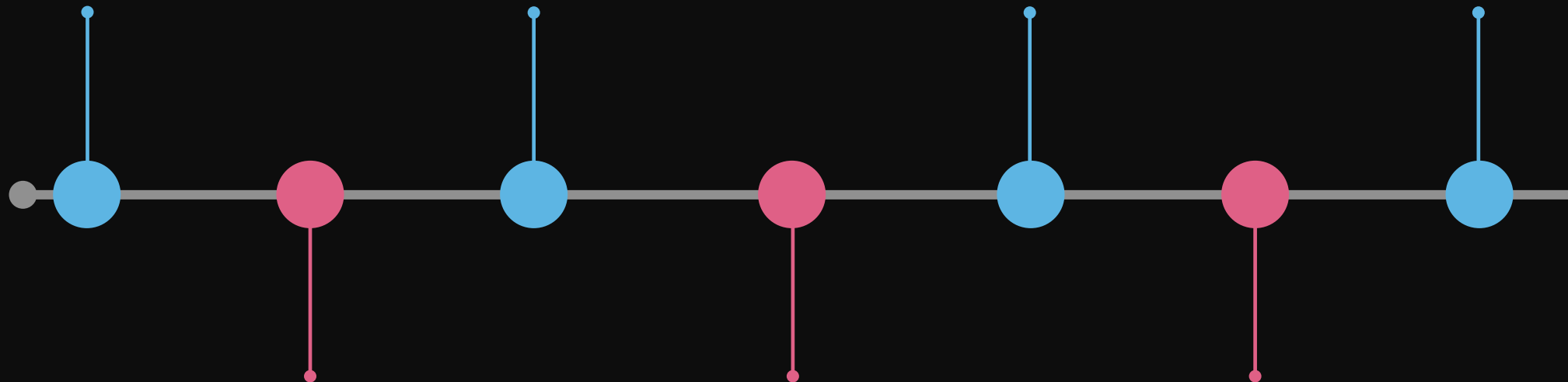
Exclusivity
between ELEM, BSC, UPC
January 2019

Clinical Validation

Positive proof of concept
November 2019

Traction Builder

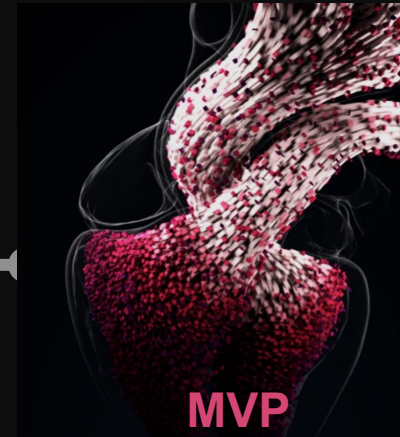
€360K Notes
Crash / CIMIT
Q1 2020



EU Funding
€1.6M for R&D
November 2018

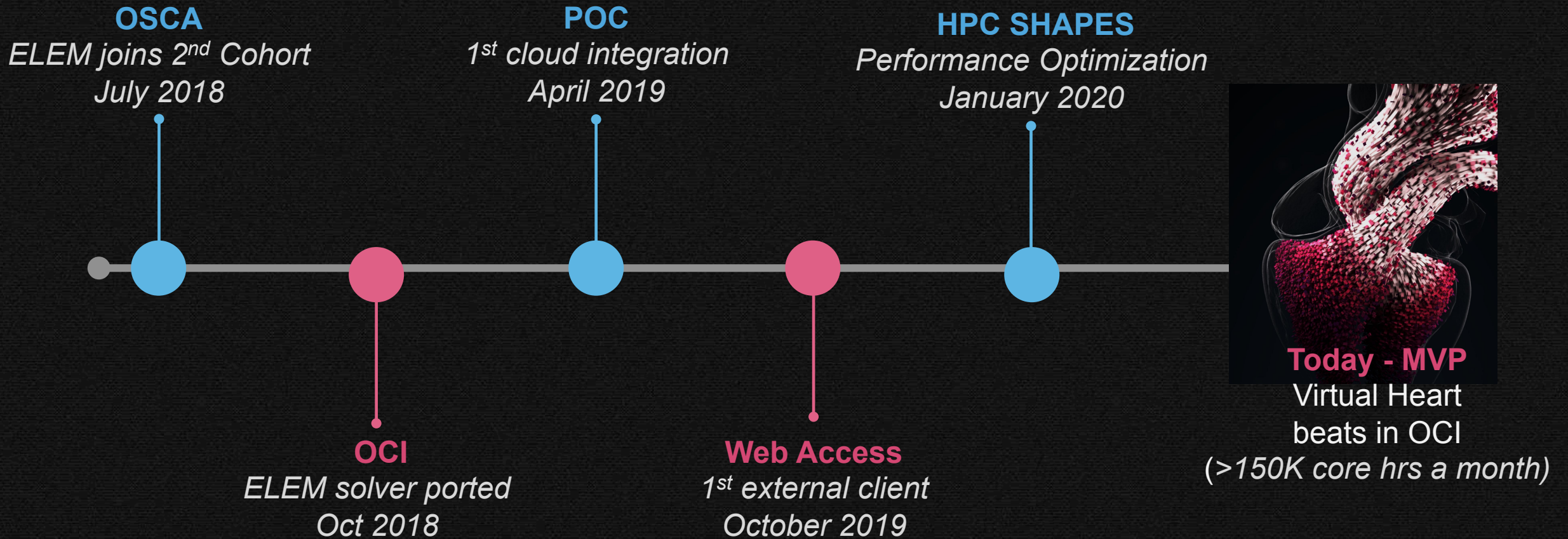
Master Service Agreement
5yr global framework contract
#1 MedCo in the world
September 2019

NEOTEC Grant
€250k granted
December 2019

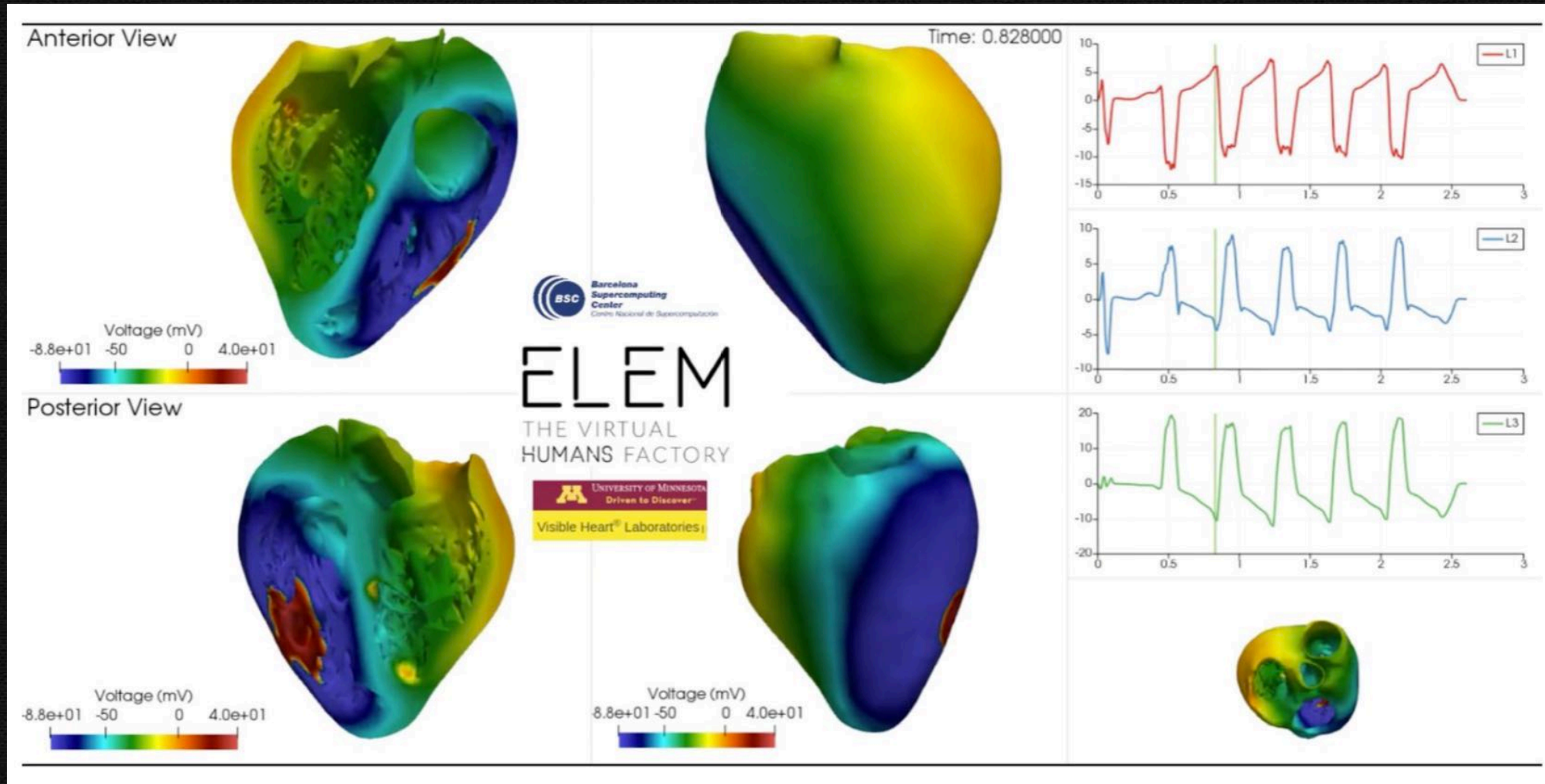


MVP
Virtual Heart
beats in the
Cloud

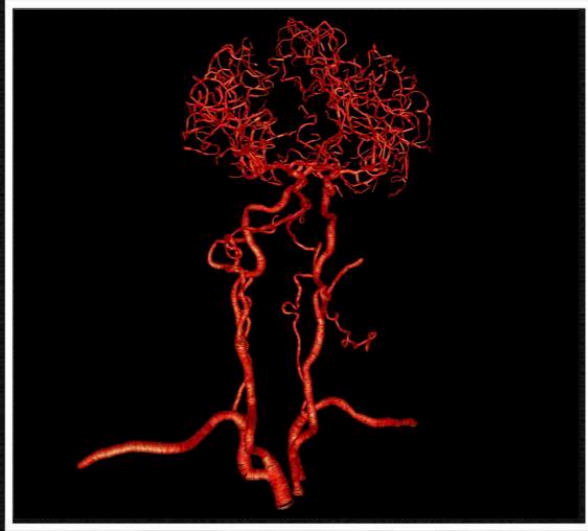
Product to Market | so far



The unexpected | Covid

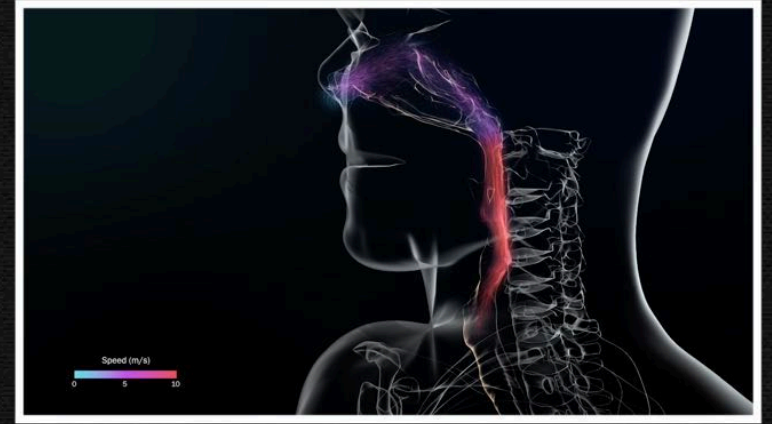
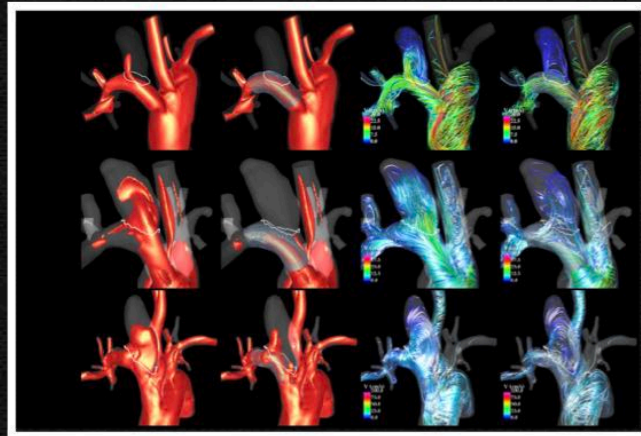


And it's just the beginning



BRAIN PERFUSION
MODELLING

FLOW DIVERTING
DEVICES



INHALERS AND
NEBULIZERS
MODELLING

Thank you!

medical testing and clinical trials for
EVERYONE



www.elem.bio



<https://www.linkedin.com/company/elembiotech/>

ELEM