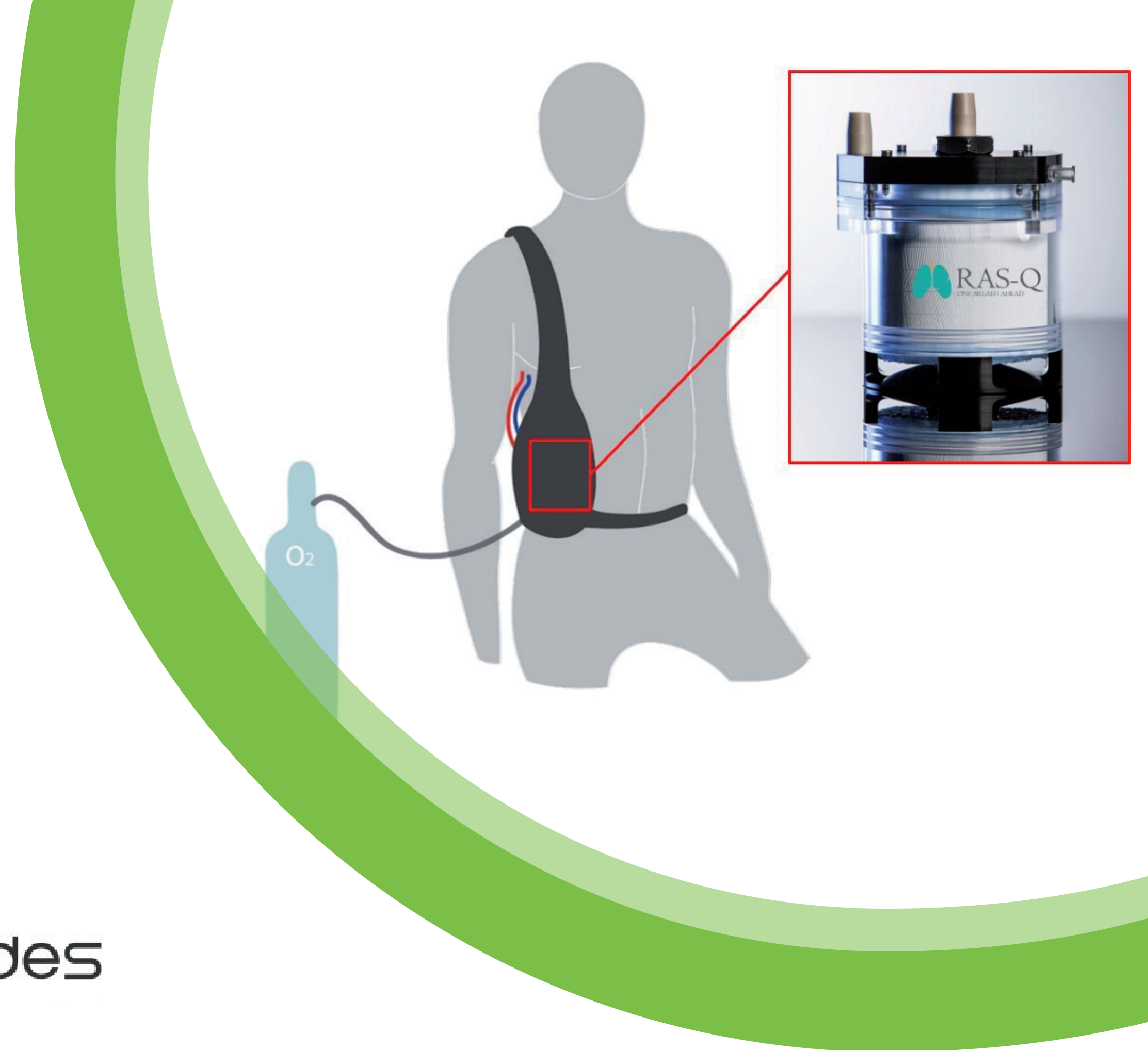


RAS-Q

World's first respiratory assist device

www.ras-q.com



The project in a nutshell

The RAS-Q® system will offer a new therapeutic approach for patients suffering from pulmonary hypertension. The device is based on conventional lung support technology, but also includes the lung's flexible movement via a patented device-integrated compliance.

This results in an extremely low flow resistance, allowing lung support without a blood pump. Therefore, mobilization of lung support patients will be possible while optimally treating pulmonary hypertension and reducing the afterload of the right heart.

Knowledge Triangle Integration

- **Education:** All partners have a strong background of training of undergraduate students and PhD applicants
- **Research:** Basic research on shear stress and blood flow alterations by different cannulation strategies, implantation process and its clinical use
- **Business:** Product development has been and will be driven by enmodes

Impact of EIT Health financing

EIT resources are allowing to intensify the efforts to generate an integrative therapeutic approach instead of a mere device development. Above the mere financial EIT resources, the project is benefiting from the EIT networking structure and the continuous communication across CLCs.

Contribution to the EIT Health goals

Concerning EIT's business core mission and KPIs, the project strengthens a newly founded start-up that is the industrial project partner leading the device development. In the educational sector, the project contributes to the formation and specialization of biomedical engineering graduates in close collaboration to the consortium of the MACH project.

Roadmap

- Chronic animal trials are currently performed to validate the performance of the device
- In 2018, the manufacturing process will be redefined to comply with regulatory standards (Good Manufacturing Practice)
- Extensive Good Laboratory Practice animal testing and a clinical study is planned from 2019

Your contact person to learn more about this project

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