Every year, 1 million people die of heart failure. The only effective treatment is heart transplant but only 5000 are available worldwide each year. The RollingHeart is a compact artificial heart with a valveless revolutionary mechanism which will allow everyone with a failing heart to lead a normal life again, with safe and reliable device they’ll just forget about!

CTI BUSINESS CONCEPT

WESTERN SWITZERLAND

1. There is currently no durable solution for the 100 000 heart failure patients per year in need of full circulatory support.

2. Once the technology is ready and the device approved (2027), we can access a $10 billion market with limited competition.

3. The technology is protected by an international patent. The development is done in collaboration with CHUV, EPFL and HES-SO Valais/Wallis.

“Finally a safe and compact artificial heart for all!”

TEAM MEMBERS

1. Audrey Maertens, EPFL, PhD
2. Julien Cachat, UniGe, MD PhD
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Next steps

1. Apply to additional grants to:
   - Build a strong dedicated R&D team and accelerate developments;
   - Finalize a fully functional prototype.

2. Given the complexity of the project, funding is the main priority at this point, while coaching could help refine the business strategy.

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