

Medical Delta Partners



Building upon the strength of Leiden Delft and Rotterdam

Core parnters



























Participants





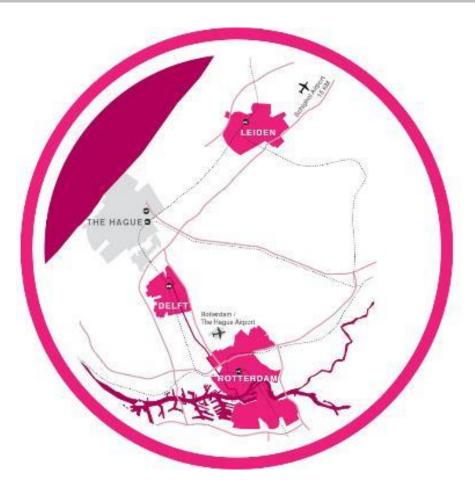












Business Partners



> 400 innovative LSH&T companies in Medical Delta

Business partners

mcroberts













































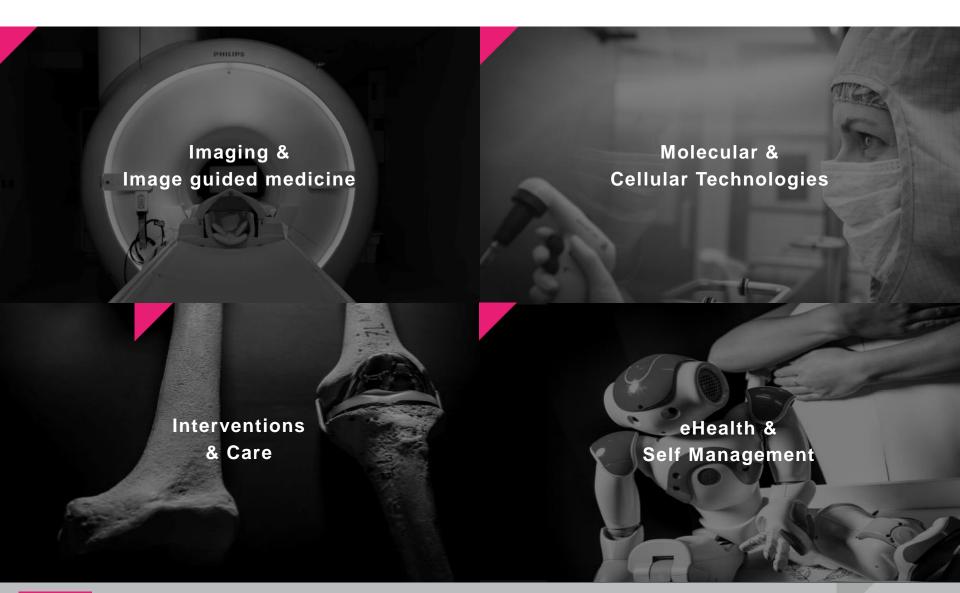






Development based on research





Medical Delta Professors



Stimulating long term cooperation in science















































Created so far Organs on a chip



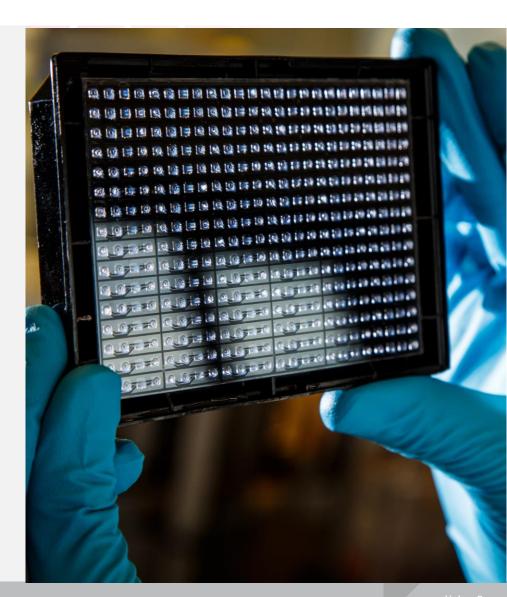
Various human cell types in a proper ratio in 3D under real-life physical conditions, connected to sensors on a chip, including:

- Brain (Erasmus MC / Leiden University –
 Cock van Duin, Thomas Hankemeijer)
- Vessels and heart (TU Delft, LUMC, UTwente)
- Tumours (Erasmus MC, TU Eindhoven,
 Utrecht University)

For drug research, fundamental disease insights and later personal diagnosis and treatment







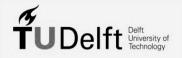
Created so far



Catheters to peek inside your arteries

Catheters combining laser and UltraSound

- Catheters that can look at shape and composition of plaques in arteries much better
- Preventing new operations after atherosclerosis treatment (57.000 per year in NL of whom 12 % returns within a year)
- Prototype tested in deceased people, ready for animal testing.
- Next step: take a biopsy during the scan





Prof. Breedveld, Prof. Dankelman, Prof. Van der Steen Awaz Ali (MSc) and Min Wu (MSc)



Created so far 3D model of the human pelvis



Pelvic nerves made visible: reduced risk in surgery

- 3D model of nerves in pelvis area based on real anatomy.
- Used for training purposes by thousands of students worldwide
- Soon to be used for individual preoperative planning by surgeons
- Preventing post-operative problems, such as incontinence or erectile dysfunction





Dr. Eisemann, Prof. Van der Velde, Prof. De Ruiter, Dr. Annelot Kraima Dr. Noeska Smit



