



Medical Field Lab

Portal to medical innovation

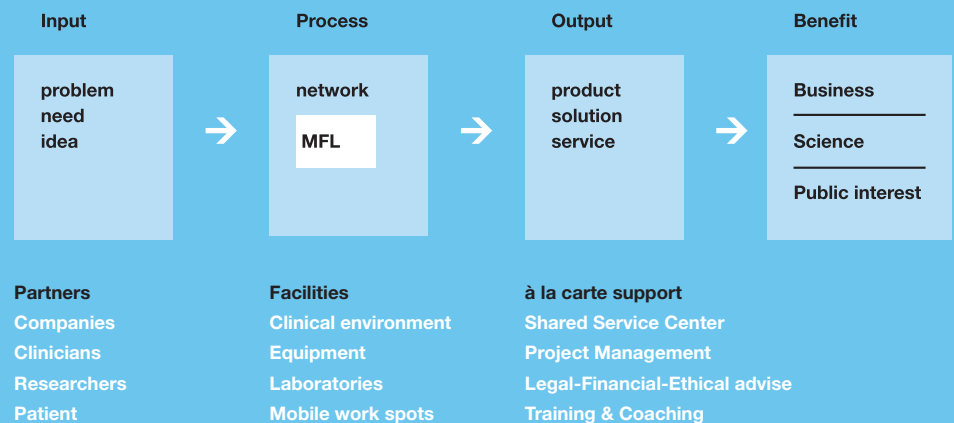
Making innovation possible

Most university hospitals recognize the necessity to drive the growth of innovation, but many are not adequately resourced for this purpose. Even when internal development resources are fully employed, it may still be difficult to produce sufficient innovation quality and output excellence to meet business goals. Nevertheless, funding, business investments and revenues which emerge from innovation are seen as the most important sources for future academic development. The university hospital Maastricht has developed a unique 'open innovation' concept, the Medical Field Lab, to facilitate the development of innovative products and services dedicated to optimal clinical application.

Innovation concept

The Medical Field Lab organization is the single point of contact for both public and private initiatives wishing to develop a concept for the market. Any idea, problem or need is screened by a multidisciplinary team, after which a flyer of high potential ideas is disseminated throughout a worldwide network of companies, engineers, researchers and physicians. The consortium of interested parties is assembled in a secure 'meet & greet' setting where agreements are made as a prerequisite for a free exchange of ideas. Innovation scenarios are created through guided brainstorm sessions, which lead up to the eventual project plan.

Innovation concept



Network

The Medical Field Lab (MFL) is the 'spider' at the center of a web consisting of an internal network of clinicians and researchers and an external network of companies, knowledge institutions and societal organizations. The MFL's core business is project building, project management and fund raising. In the process of bringing technology, products or services to the market, the MFL is a facilitator for the creation of concepts, demonstrators and initial validation.

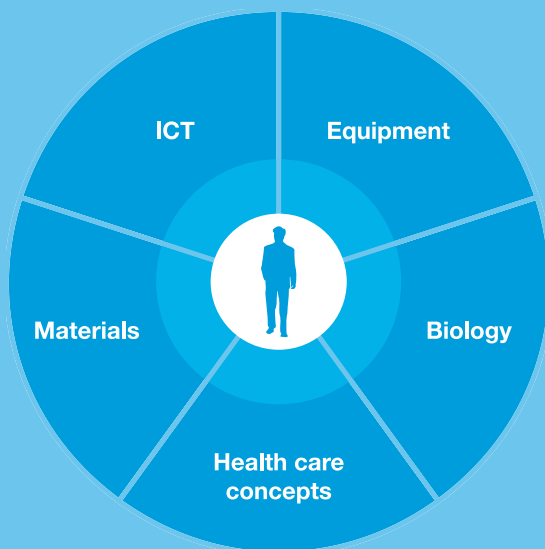
A tailor made public-private funding arrangement is the financial basis for putting the plan into practice.



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Examples

- **Biosensing** (ambulante monitoring)
- **Artrose kliniek Maastricht** (zelfmanagement van artrose patiënten)
- **Bone cement** (verbetering van botcement)
- **My medication** (therapietrouw & monitoren van uitgifte en inname)
- **StePPr** (diagnostische inspanningstesten)
- **Virtual training** (de simulatie trainer)
- **Orthopedische zorginnovatie** (betere zorg door technologie)
- **Knii** (de revalidatiecoach)
- **Biogels** (intelligente afgifte van medicatie)
- **Smart knee brace** (een brace als revalidatiecoach)
- **Scoliose brace** (de actieve ruggesteun)
- **Clinical food & nutrition** (het belang van voeding)
- **Teksens** (intelligent textiel)
- **A foot-print** (automatisch op maat gemaakte hulpmiddelen)
- **Footfuse** (de slimme steunzool)
- **Smart insole** (inlegzool met hydro-actieve vering)



Future development

ICT:

Telecare / Smart textiles / Simulation training

Equipment:

Ambulant monitoring / Robotic surgery / Imaging via ski

Biology:

Prognostic biomarkers / Targeted drug delivery /
Via skin medicine

Health care concepts:

Self management / Care community networks /
Prevention, early diagnosis

Materials:

Wireless sensoric implants / Nanofilters / Exo skeletons

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