

## FAST-Eval (Fraunhofer IKTS)

Marker-free & minimal invasive cancer diagnosis

### The Opportunity

Cancer is one of the main diseases of mankind. Current diagnosis methods are slow and subjective. With the FAST-Eval technology a fast and simple tissue evaluation for cancer is possible. With our first device – the optical cancer diagnosis (OCD) – we have a platform for the classification of biopsies. First target is the evaluation of prostate cancer.

### The High-Tech

- After illumination with laser detection of auto-fluorescence signal in tissue
- Calculation of biological indicators with developed algorithm
- Platform technology for different cancers
- from biopsy platform to hand held to endoscopic device

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co-founder(s)  
needed

full founding team  
needed



#### Fraunhofer role

- Technical expertise in optical technologies, physics, algorithm and system development
- Laboratories for development
- Network to industry partners



#### The offer for High-Tech Pioneers

100% of shares are available

- CEO needed
- CTO needed
- further roles needed



#### Hard Facts

- IP: 3 patent families (US, EU, Asia)
- Time to market: 3 years
- TRL: 7
- Tested in 2 pre-clinical feasibility studies; co-working with Martini-Klinik (HH) & University Hospital Carl Gustav Carus (DD)



Smart clothing

## The Opportunity

Ambiotex provides smart sports wear that detects fitness-level, heart rate and stress level and analyses the individual level of performance data via app. Ambiotex is using high precision sensors that have been built for performance analysis in sports medicine, training science and private use.

## The High-Tech

- multi parameter sensor unit:
- 1 channel ECG
- respiration activity at Thorax and Abdomen
- pulse wave
- movement activity

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co-founder(s)  
needed

full founding team  
needed



### Fraunhofer role

- Future tech development
- Long-term consulting
- Licensor of technology
- Shareholder



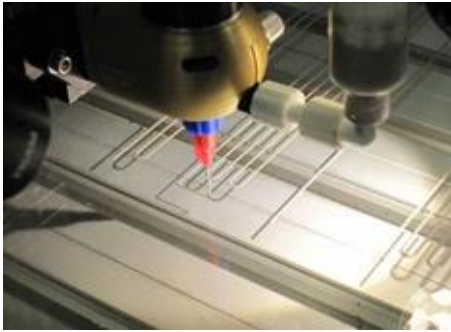
### The offer for High-Tech Pioneers

- 11% shares are available
- CEO needed or
  - CTO needed



### Hard Facts

- IP: non-exclusive IP licensing
- Time to market: founded company
- TRL: 9



## Integrated Heating (Fraunhofer IFAM)

Functional Printing

### The Opportunity

The integrated heating solution aims to avoid undercooling of injured people, create higher comfort clothing, and provide security advantages. The technology enables the design and production of special textiles. Textiles having advantages due to highly integrated heating structures for e.g. healthcare (first aid blanket, etc.), consumer products (outdoor clothing, multi-functional coatings, wearables, etc.) and military applications.



### The High-Tech

- Flexible solutions for highly integrated heating structures.
- Digital design enables high customization and therefore large number of product applications.
- The high integration level is given due to a best fitting of material- and engineering competencies.

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co-founder(s)  
needed

full founding team  
needed



#### Fraunhofer role

- material science & process development
- Know-how transfer
- Returns via: ROI based on market success, profit sharing, licence fee



#### The offer for High-Tech Pioneers

Up to 100% of shares are available

- CEO needed
- CTO probably needed
- further roles needed



#### Hard Facts

- IP: patent under preparation
- Time to market: max. 1 year
- TRL: 4-5
- Traction: Several projects running in automotive sector and in fiber reinforced plastic industry



## IMERGO (Fraunhofer FIT)

E-Health Information Systems

### The Opportunity

IMERGO is a software tool that supports and enhances the interoperability of e-Health Information Systems, i.e., exchange of information between different hospitals, clinics, home care providers, insurances, etc.; IMERGO provides extensions to multi-stakeholder integrated care platforms (Care at Home).

Major applications of IMERGO are:

- Applications for the avoidance of polypharmacy
- Medication adherence analysis
- Vital-signs sensors integration application
- Big Data and Machine Learning analysis of data generated by health wearables
- Dashboards for different eHealth stakeholders

### The High-Tech

- Cloud-based architecture complying with, the latest security and privacy European legislation such as GDPR
- Off-the-shelf support for mobile technologies

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co-founder(s)  
needed

full founding team  
needed



#### Fraunhofer role

- Future tech development
- Long-term consulting
- Licensor of software technologies



#### The offer for High-Tech Pioneers

25% of shares are available

- CEO (optional: Dr. Yehya Mohamad)
- CTO (optional: Dr. Carlos Velasco)
- COO and further roles needed



#### Hard Facts

- IP: Parts of the product already licensed to Open Text (non-exclusive rights)
- Time to market: 18 months (due to adaptation to actual use case)
- TRL: 6-8



## EquiVert (Fraunhofer IMS)

Device for vertigo diagnostic and training

### The Opportunity

»Equi-Fit« (B2C headphone device): sole vertigo training device for home use, provides acoustic training instructions and acoustic feedback technology as well as gesture control and algorithms for training performance evaluation.

»EquiMedi« (B2B device): professional vertigo screening device for an objective evaluation of vertigo severity .

Registered as class I medical device .

### The High-Tech

- Training instruction
- acoustic feedback
- gesture control
- algorithms for training performance evaluation
- algorithms for objective grading of vertigo severity,

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co-founder(s)  
needed

full founding team  
needed



#### Fraunhofer role

- Future tech development
- Long-term consulting
- Licensor of technology 1-3% of revenues



#### The offer for High-Tech Pioneers

45% of shares are available

- CEO needed
- CTO needed
- further roles needed



#### Hard Facts

- IP: no patents
- Time to market: Q2 2018
- TRL:8
- Clinical trials ongoing (will be finished soon)



## Vital sign monitoring (Fraunhofer IIS)

Medical sensors integrated in common items

### The Opportunity

The integration of medical sensors in common items is a future trend in elderly care at home, for retirement homes, but also for the personal use to obtain medical data in ones daily life. Fraunhofer has developed a chair-prototype, which comprises integrated medical sensor units which allow the constant detection of vitals signs and other parameters like movement, stress, but also severe conditions like heart attacks.

### The High-Tech

- heart Rate detection (plus measurement of heart rate variability (HRV))
- oxygen saturation detection
- body weight
- posture detection
- 1 channel ECG
- movement detection

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co-founder(s)  
needed

full founding team  
needed



#### Fraunhofer role

- Future tech developement
- Long-term consulting
- Licensor of technology



#### The offer for High-Tech Pioneers

Up to 100% of shares are available

- CEO needed
- CTO needed
- further roles needed



#### Hard Facts

- IP: patents available
- Time to market: 12 months
- TRL: 8