



Break-out Session

Technology Transfer at HZB | HySPRINT and PVcomB

Technology Transfer at HZB | HySPRINT and PVcomB

Jan Elmiger

Break-out Session

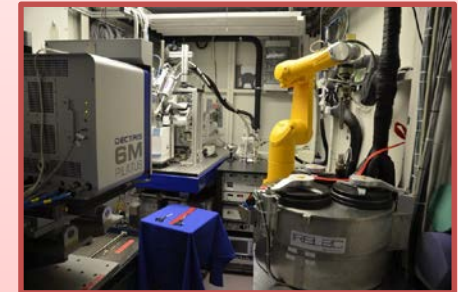
Technology Transfer at HZB | HySPRINT and PVcomB

Channels of Technology transfer

Using research facilities

Description: Industrial partner uses HZB scientific infrastructure with own personnel under HZB supervision

Example: Protein Crystallography of medical substances, Bayer Schering AG



Contract research

Description: Measurements or depositions based on a purchase order from the industrial partner

Example: UV-Lithography, Holoeye Photonics AG

Cooperations

Description: Common development of HZB know-how towards an industrial attractive prototype



Licencing

Description: Industrial partner gets a license to produce and sell products based on a HZB technology. HZB receives royalties

Example: Plasmasensor, IOT GmbH



Spin Offs

Description: Foundation of an enterprise with HZB technology and HZB personnel

Example: facade elements based on a metallfoam, Pohltec Metallfoam GmbH

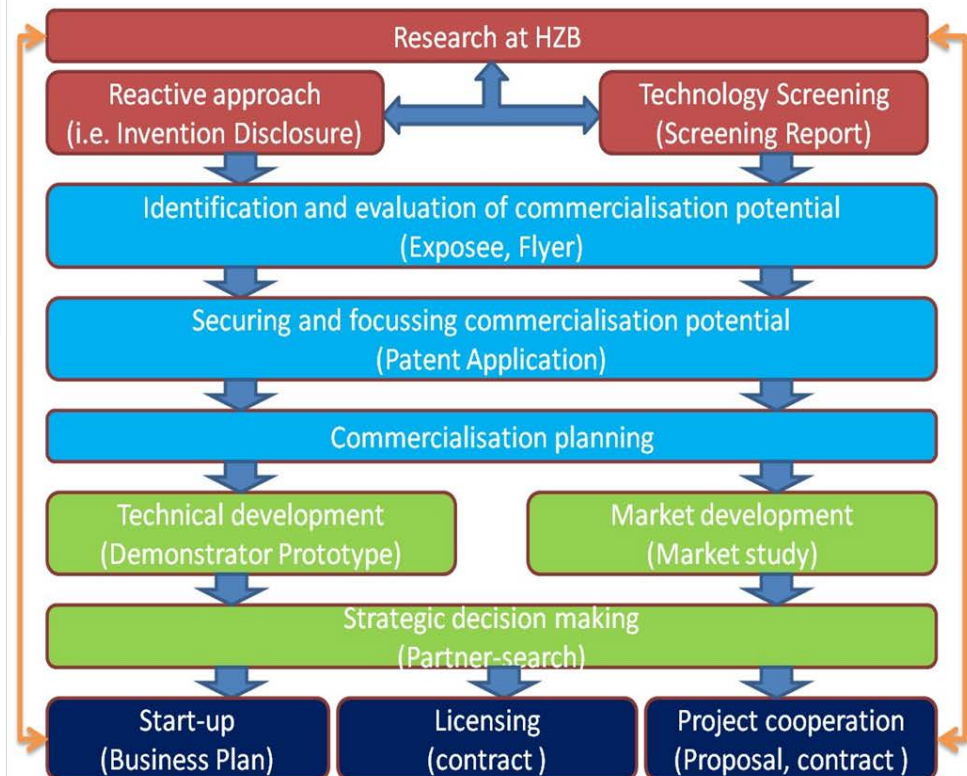
Break-out Session

Technology Transfer at HZB | HySPRINT and PVcomB

Conditions

- Common belief in a possible exploitation success
- Scientists are willing to actively participate in exploitation efforts
- Traceable and quantifiable customer benefit available
- Reliable property right situation (ownership, rights of disposal)
- Competitive advantage or durability of the lead
- Addressable and attractive target market available

Commercialisation Process





Break-out Session

Technology Transfer at HZB | HySPRINT and PVcomB

Basic Guidelines

- IPR Strategy, Guidelines for Inventors (2005, Vademecum)
- HZB_080925_Guidelines for Spin-Offs (2009, Vademecum)
- HZB_080925_TT-Guidelines (2009, Vademecum)
- Strategy Technologytransfer_2014-04-10 (2014, HGF)
- hzb_strategy_wtt_web (2015)
- Adjustment of the Technologytransfer_GfS_2016-06 (2016)
- Process of Commercialisation (2017)



TT Instruments

TT- Funds

Alumni network

Patent Bonus

IPR Strategy,
Guidelines for Inventors

TT- Price

TT-Guidelines

Guidelines for Spin-Offs

HZB Industry Advisory Board

HZB Industry Advisory Board

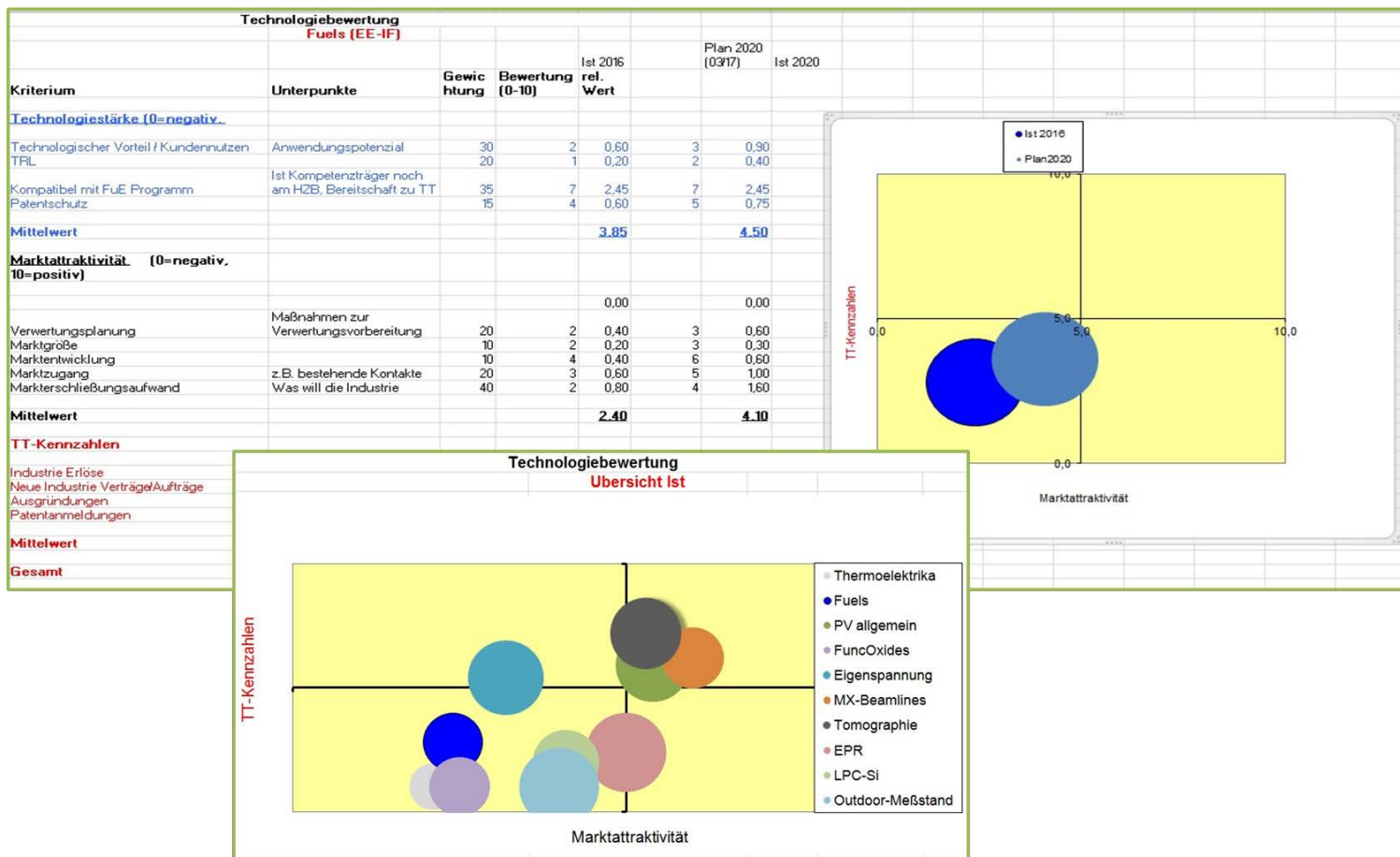
Representatives of Ford Forschungszentrum Aachen GmbH,
Advanced Mask Technology Center GmbH, Singulus AG,
Research Instruments GmbH and Siemens AG

Break-out Session

PEROVSKITE PRINTING PHOTONICS



Technology Transfer at HZB | HySPRINT and PVcomB



Break-out Session

PEROVSKITE PRINTING PHOTONICS



Technology Transfer at HZB | HySPRINT and PVcomB



Technology offer for HZB patent application

Spin valve

With this valuable spin valve, devices could be developed which show highly desired characteristics like low and stable or even temperature independent resistivity for devices and no heating effect. The spin valve was developed at the Helmholtz Center Berlin. We would like to offer our invention to you for a cooperation for further development of this technology or licensing.

Coupling

Commercial opportunity

Spin valves are used for the creation of data storage media, especially for so called MRAMs. There is a strong demand for spin valves to fulfil the criteria of being stable and with some time easy reproducible and manufacturable. The spin valve developed at HZB has several sales to further the demand. Once this is documented, the spin valve will fit a promising area in the market.

We are interested in the further development of this technology through licensing or an introduction agreement.

Developmental status and patent situation

The spin valve is extensively studied with regard to its properties at HZB. At HZB additionally the spin valve for the manufacturing is produced and a single one valve prototype is available. The following properties apply: are providing at present:

- DR 10 (11) 100338 BA
- US 10,107,008A1 and US 10,107,008A1 and US 10,107,008A1 and US 10,107,008A1

Dr. Jan Ehringer
Department
Third Party Funding and Technology Transfer
ID: 401201012046
ID: 401201012046

2017

Initiating contacts for industry contracts

- Scientists 50%
- Alumni 20%
- Company visit/ industrial fair 20%
- Internet 10%

Break-out Session

Technology Transfer at HZB | HySPRINT and PVcomB

Objectives

- Close collaboration with industrial partners in early stage of development (low TRL)

Approach

- Development of novel materials and energy-efficient process technologies
- For application fields such as solar energy conversion (PV and solar fuels) and sensor technology

