

SERVICES FOR COMPANYS



TransMIT Gesellschaft
für Technologietransfer mbH

YOUR SYSTEM PARTNER FOR INNOVATION



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TECHNOLOGY TRANSFER AS SYSTEM PARTNER FOR INNOVATION

What is the task of TransMIT?

Companies in all sectors depend on research and science to generate new ideas and solutions that they can turn into innovative products, processes, or services. This affects every stage of the value chain: from idea generation, development and optimization of prototypes, and production through to market entry.

The languages spoken in the two worlds – that of basic research and that of application- and market-oriented companies – tend to be shaped by different vocabularies and perspectives, so that a “translator” or intermediary is beneficial for both sides. In this way, many cooperation projects at the interface between science and business can be given a decisive boost more quickly and more effectively. TransMIT acts as such an intermediary.

TransMIT’s first priority is to create creative spaces and opportunities for a trusting exchange and collaborative cooperation. TransMIT sees itself as a flexibility instrument alongside and in addition to the universities, which – through its broadly diversified range of services and products across all disciplines and along the entire value chain – aims to be perceived by customers as a system partner for innovation. In addition, TransMIT also serves as an incubator for potential spin-offs from universities.

TransMIT’s four business units offer corresponding services for companies, for which you will find detailed information on the following pages.



(1) TRANSMIT CENTERS: EXPERT KNOWLEDGE, RESEARCH AND DEVELOPMENT EXPERTISE

Consulting, services, and products from scientists

Turning new product or project ideas into reality requires a high level of expert knowledge and development expertise.

A special feature of TransMIT is that, following an R&D project, clients not only receive the results – as is the case with many competitors – but in most cases can also be assured of the long-term supply of the items investigated. TransMIT therefore stands for “more than just R&D”!

In 1996, the universities of Central Hesse – Justus Liebig University Giessen, Technische Hochschule Mittelhessen (then University of Applied Sciences Giessen-Friedberg) and Philipps-University Marburg – decided, as one of their first joint projects, to establish a limited liability company (GmbH) in order to fulfill their technology transfer mission. Together with regional cooperative banks and savings banks as well as the Giessen-Friedberg Chamber of Industry and Commerce as additional shareholders, this decision was then implemented.

The “TransMIT Centers” business unit supports companies and public-sector clients in virtually all areas with tailor-made solutions.

The centers and project divisions are headed by experienced academics – in particular professors – from universities and universities of applied sciences who operate “at the cutting edge of research” and can thus incorporate the latest findings into their consulting, products, and services.

TransMIT provides the scientists working for it with professional administrative support through its GmbH structure, thus “freeing their backs” so that they can fully concentrate on the questions and content of the commissioned services.

Today, more than 250 professors, with whom we have contractual agreements, and a further approximately 180 employees – around 30 in the central service unit and around 150 employees in more than 170 TransMIT Centers and project

divisions (TransMIT business units) – work on knowledge and technology transfer to industry.

TransMIT thus also functions as a central point of contact, particularly in Central Hesse, for industry when companies are looking for expertise and support from scientists.

Numerous innovation services, such as trend, market, and patent analyses, are also provided from the central service unit as part of “TransMIT Managed Innovation Services” for corporate clients. This extends as far as “participating in made-to-order new companies” (TransMIT JOinTcubation).

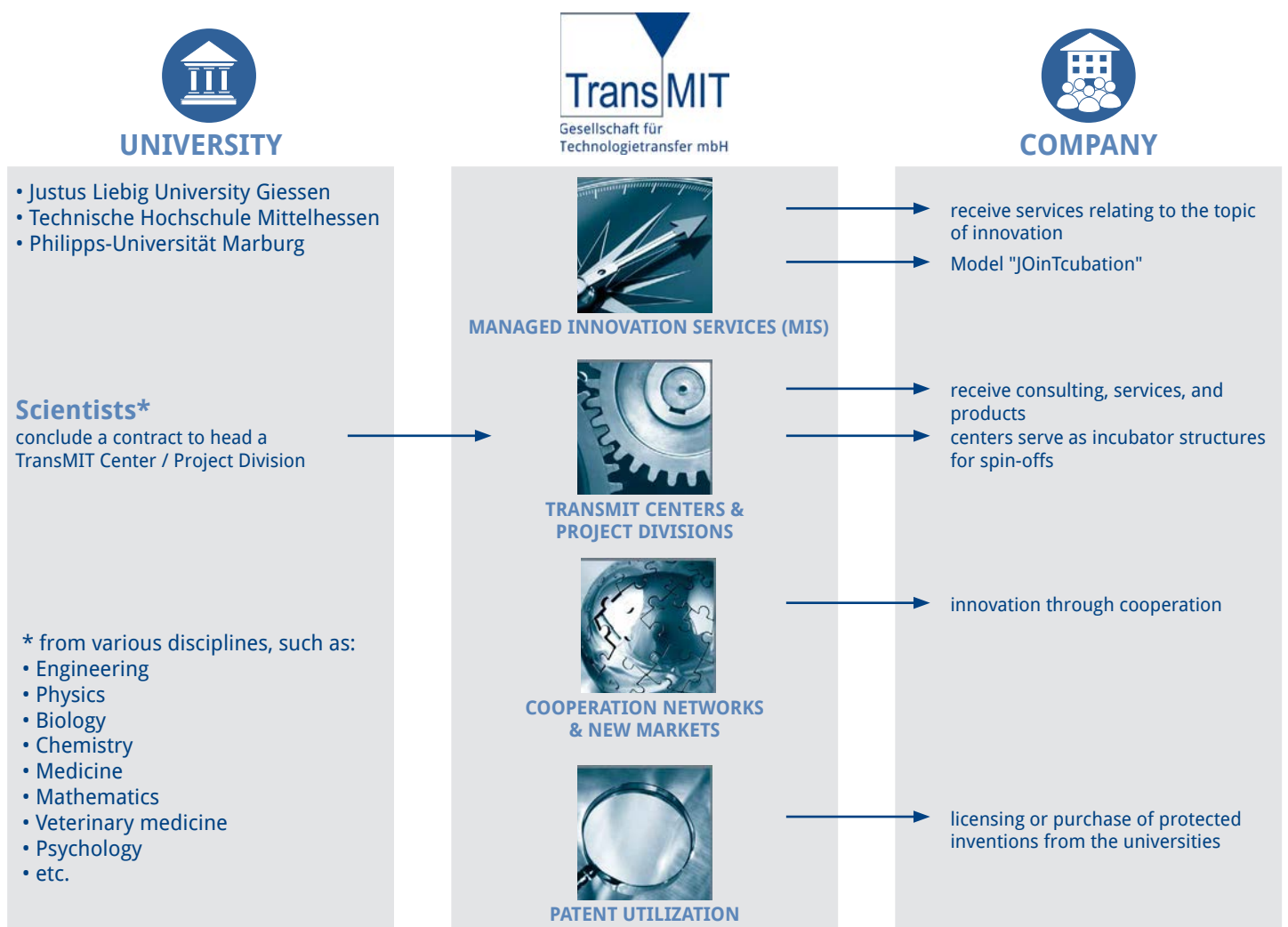


Figure 1: Model of the „TransMIT Centers and Project Divisions“

An overview of the currently existing centers and project divisions can be found in the appendix.



Figure 2: TransMIT Centers and Project Divisions



▼ Preparing spin-offs

If it becomes apparent that the business activities of a TransMIT Center / Project Division are particularly successful and sustainable – for example, because the products offered are unique or because a highly sought-after service is based on the exclusive expertise of the center director – a spin-off may be considered as a way of stabilizing and expanding the business activities.

This option is particularly interesting because it opens up career prospects for young scientists beyond the university research environment and helps retain them in the region. Experience in recent years has shown that a spin-off from a TransMIT Center / Project Division takes place roughly every three years.

Another form of start-up with young talents that opens up new opportunities for existing companies is the “JOinTcubation” model, which is presented in detail on page 11.



Figure 3: Inventions in the fields of lung research, vacuum technology, plasma technology, biochemistry, simulation technology and many more.

▼ “JOinTcubation” cooperation model for opening up new business areas and markets:

The “JOinTcubation” unit is a service innovation within TransMIT. It serves as a company builder for the new business fields you, as a company, are seeking. In line with your strategy for future innovations in production, products, or business models, we identify suitable research institutions and experts, develop projects, and identify suitable talents in order to incubate your next innovations together with you (“Joint”) and the experts at the chosen research institution (“cubation”).

Deliberately set up outside your corporate structure, these teams are then supervised by us – based on their know-how – as they develop your future business fields or technologies. If desired, we also search for suitable funding for these usually multi-year projects or suitable SME partners, for example for ZIM networks or ZIM applications.

The JOinTcubation company builder uses the TransMIT Centers structure and is ideally suited to establishing new business fields through participation in, or the made-to-order acquisition of, start-ups. Feel free to contact us!

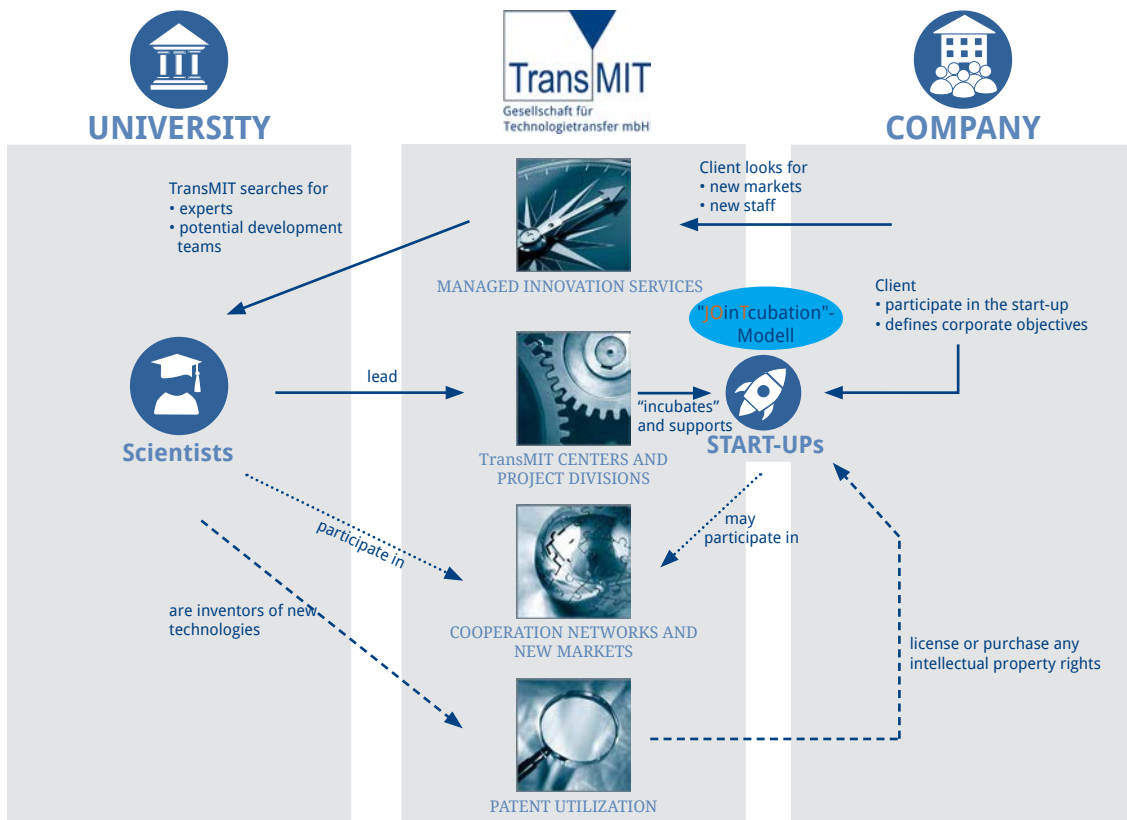


Figure 4: The JOinTcubation company builder – how it works!

(2) MANAGED INNOVATION SERVICES



Services related to innovation

Whether you want to build up or expand your business activities in other or new market areas, or increase the efficiency of your production or administration – we support your process, product, production, or business model innovations, as well as the development of future new business units, from A to Z.

▼ (1) Funding management

Small and medium-sized enterprises (SMEs) in particular benefit from grants for patenting and innovation consulting. We are your point of contact for R&D funding. We advise you on suitable funding programs and support you in applying for public grants.

▼ (2) IT-Solutions

Whether it is networks, hosting, homing, cloud solutions, websites, web-based programming, or workflow management – we have the right solutions for you.

The efficient use of appropriate information technology at critical points in your value chain creates competitive advantages. Often it is simple process improvements that give you an edge over your competitors. However, value chains differ greatly from company to company, even within the same industry. That is why an individual analysis, consulting, and planning always mark the starting point of our work. We take into account your existing process landscape, the interfaces with your partners and customers, and, last but not least, your specific requirements in order to increase your company's value creation through suitable information technology.

▼ (3) External patent department

In the External Patent Department, we review and assess results from internal R&D or technology monitoring, including the integration of secondary and primary (current) market assessments. We propose IP strategies, implement them in coordination with external or in-house patent attorneys, and manage your technology portfolio in a cost-optimized way. If desired, we also take over the inventor support required under the German Employee Invention Act (ArbErfG), in coordination with you as employer (including employee inventor compensation, etc.).

▼ (4) Start-up consulting

For founders, we offer subsidized coaching under the federal programs EXIST Business Start-up Grant, EXIST Research Transfer, and BAFA start-up / business consulting. We are part of the Mittelhessen start-up network.

▼ (5) Company building ("JOinTcubation")

You will find detailed information on this on page 11.

▼ (6) R&D and technology management

In R&D management, we ensure the further development of your ideas. To this end, we propose methods to improve idea generation internally or externally (via open innovation). We carry out project development, including assembling suitable R&D teams and SME partners, and we conduct project management, including, where appropriate, the acquisition of funding.

In technology management, we identify your core and secondary technologies for administration, production, and products. We propose future technologies and introduce monitoring for emerging alternative technologies. When particularly attractive alternative technologies are identified, we support their acquisition (licensing or purchase, etc.). Technologies that are no longer needed, or will only be needed in the medium term, are prepared for external commercialization via the "Patent Utilization" business unit.

(3) COOPERATION NETWORKS & NEW MARKETS



Innovation through cooperation

Pooling competencies, reaching critical mass, developing jointly

The task of this business unit is to initiate and support networks of SMEs that wish to proactively advance their development.

These networks see themselves as platforms for exchange, either within a single sector or across different sectors, regarding concrete development ideas, but also, for example, on topics of human resources or organizational development.

The aim is joint technology or product development or the joint establishment of development, production, and marketing platforms – in other words, pooling strengths and achieving a critical mass that, by stimulating and accelerating the exchange of know-how between companies, secures their market positions and opens up new market opportunities in the medium to long term.

To this end, we bring experts together in working groups and specialist events on current trend topics and disruptive technologies and thus offer the opportunity to build personal networks. Through cross-company and cross-departmental communication and professional exchange, companies and their employees can gain greater transparency regarding developments in their sector. The working groups are a form of practical personnel development, both professionally and personally.

For information about our current or planned networks, please contact us by e-mail at kooperationen@transmit.de or visit our website at www.transmit.de.



(4) PATENT UTILIZATION

Protected inventions from universities

Technologies and product ideas to expand your portfolio

As the patent exploitation agency (PVA) of our shareholder universities Justus Liebig University Giessen, Technische Hochschule Mittelhessen and Philipps-Universität Marburg, as well as other research institutions, we have been evaluating and marketing product ideas based on cutting-edge research since 2001.

The multidisciplinary TransMIT team, which includes two admitted European Patent Attorneys, has so far evaluated more than 3,000 inventions, filed over 2,000 IP rights on behalf of clients and accompanied more than 500 patent procedures through to grant.

In more than 2,000 commercialization projects, some out-licensing projects have already generated more than 5 million euros in upfront and ongoing license income for our clients.

TransMIT is the point of contact for prospective licensees or buyers who wish to supplement their own corporate portfolio with protected technologies. For an initial overview, we provide short exposés for each technology or product idea. We also prepare market analyses based on commercially available databases.

Via the “Managed Innovation Services” business unit, our patent-related services are also available to your company. Under certain conditions, SMEs can also make use of public funding for this. We will be happy to advise you and also support you with applications.

Further information is available by e-mail at patente@transmit.de or via our website.

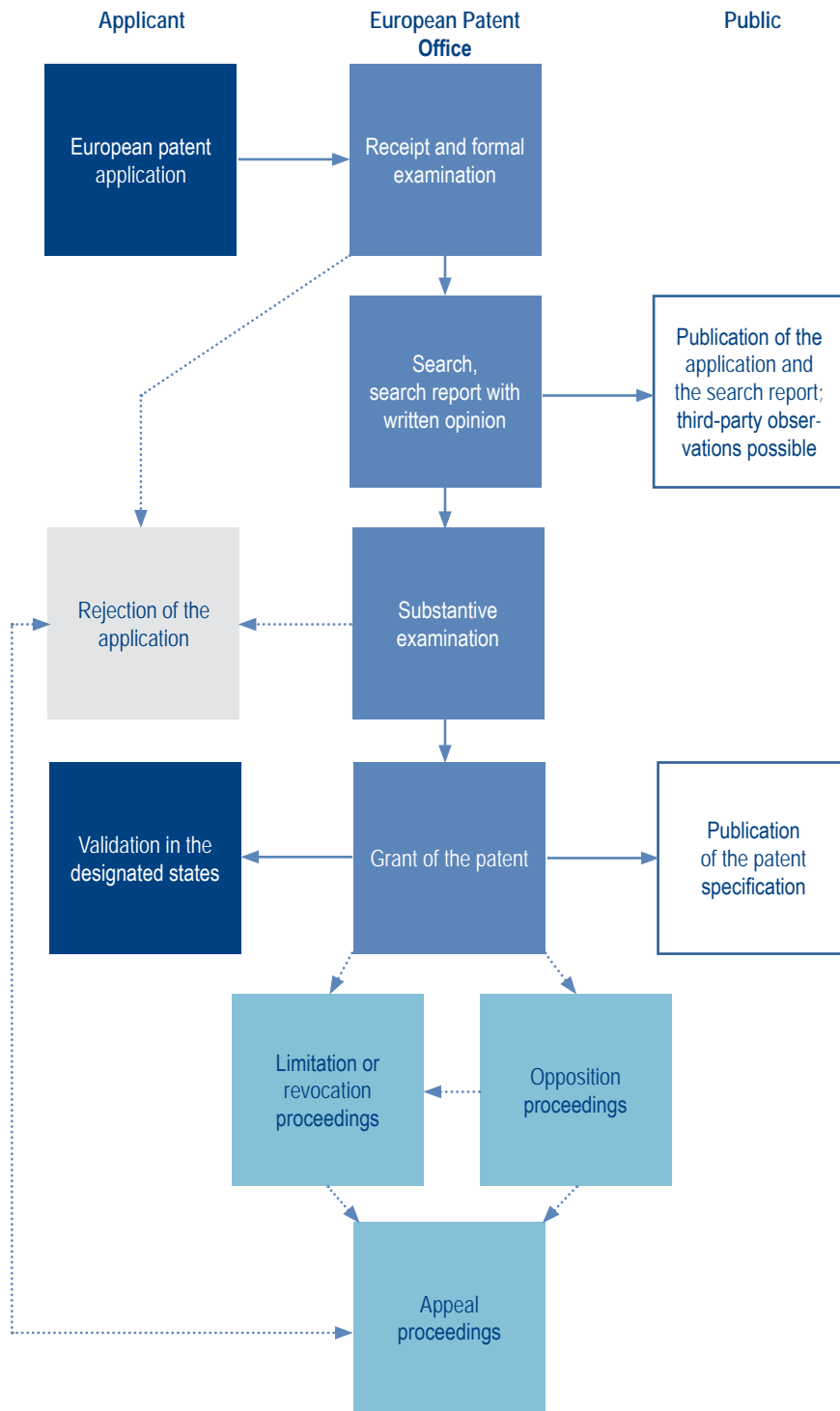


Figure 5: Overview of the grant procedure



CONTACTS

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Email: innovationsberatung@transmit.de

For information on cooperation networks:

Email: kooperationen@transmit.de

For information on patents:

Email: patente@transmit.de

LIST OF TRANSMIT CENTERS AND PROJECT DIVISIONS

As of 04/2026

A) Subject Divisions Medicine and Medical Technology:

TransMIT-Zentrum für Bioakustik und Atemphysiologie
Prof. Dr. Ulrich Koehler

TransMIT-Zentrum für Hygiene und technisches Gesundheitswesen (HTG)
Prof. Dr. med. Dipl.-Ing. Hans-Martin Seipp

TransMIT Center for Immunomodulation
Prof. Dr. med. Harald Renz

TransMIT Center for Immunotherapy of Cutaneous Inflammatory Diseases
Prof. Dr. Michael Hertl

TransMIT-Zentrum für innovative Therapien in der Pneumologie
Prof. Dr. med. Andreas Günther

TransMIT Center for medical Physics and Medical Informatics
Prof. Dr. Martin Fiebig

TransMIT-Zentrum für medizinische Technologie
Prof. Dr. Werner Seeger, Prof. Dr. Dr. Friedrich Grimminger

TransMIT Center for therapeutic research for Neurological Diseases
Prof. Dr. Richard Dodel

TransMIT Center for Translational Ophthalmology
Prof. Dr. med. Birgit Lorenz

TransMIT Project Division for Algorithmus Maximus – Translation and Regulatory Science in Regenerative Medicine
Prof. Dr. rer. nat. Thaqif El Khassawna

TransMIT Project Division for anatomical demonstrations for professionals of the medical field
Dr. Christina Nassenstein, Prof. Dr. Andreas Meinhardt

TransMIT Project Division for advanced anatomical education and preparation
PD. Dr. Reiner Westermann, Jens Cordes

TransMIT Project Division for innate and adaptive immunity
Prof. Dr. Michael Bacher, Prof. Dr. Stefan Bauer, Prof. Dr. Markus Schnare

TransMIT-Projektbereich für angewandte Virologie
Prof. Dr. Stephan Becker

TransMIT Project Division for Antiviral Testing and Virus Diagnostics
Prof. Dr. rer. nat. Stephan Pleschka, Prof. Dr. med. John Ziebuhr

TransMIT Project Division for Biomaterials in paediatric dentistry
Prof. Dr. Dr. Norbert Krämer, Dr. Susanne Lückner

TransMIT Project Division for Dental Biomaterials in Operative Dentistry and Endodontics
Prof. Dr. Roland Frankenberger

TransMIT Project Division for Biomedical Sports Consulting
Prof. Dr. Karsten Krüger

TransMIT-Projektbereich für biomedizinische Signalverarbeitung und Neuroprothetik
Prof. Dr. Thomas Schanze

TransMIT-Projektbereich für chronische Entzündungsforschung
PD Dr. Holger Garn

TransMIT Project Division for Digital Healthcare and Medical Data Science
Prof. Dr. med. Tobias Müller

TransMIT-Projektbereich für eHealth und Organisation im Gesundheitswesen
Prof. Dr. rer. physiol. Volker Groß, Prof. Dr. rer. physiol. Keywan Sohrabi

TransMIT Project Division for Energy-Transmitting Applications in Dentistry
Prof. Dr. med. dent. Andreas Braun

TransMIT Project Division for development and veterinary application of interventional products
Prof. Dr. Matthias Schneider

TransMIT Project Division for Epilepsy and Stroke
Prof. Dr. Hajo M. Hamer, MHBA

TransMIT-Projektbereich für experimentelle und klinische Epilepsieforschung
Prof. Dr. Felix Rosenow

TransMIT Project Division for gene and cell based therapies in Ophthalmology
Prof. Dr. Lyubomyr Lytvynchuk PhD, Prof. Dr. Dr. Knut Stieger

TransMIT Project Division for Health Prevention and Promotion
Prof. Dr. Manfred Betz, Prof. Dr. Catharina Maulbecker-Armstrong

TransMIT Project Division for Haemostaseology
Prof. Dr. med. Ulrich Sachs

TransMIT Project Division for Innovation, Training and Education in Gastroenterology and Metabolism
Prof. Dr. med. Philip Hardt

TransMIT Project Division for medical IT solutions
M. Sc. Steffen Rupp

TransMIT Project Division for Pulmonary Diseases and Comorbidities
Prof. Dr. Peter Alter

TransMIT Project Division for network-based Parkinson Research
Prof. Dr. Dr. h.c. Wolfgang Oertel

TransMIT Project Division for Oral Biology, Implantology and Periodontology
Prof. Dr. Jörg Meyle

TransMIT Project Division for preventive, exercise- and performance medicine
Prof. Dr. Frank Christoph Mooren

TransMIT Project Division for REPO4EU-RI
Prof. Dr. med. Harald H.H.W. Schmidt

TransMIT-Projektbereich für tierärztliches Clearing
Prof. Dr. Lutz-F. Litzke

TransMIT Project Division for translational lung research
Prof. Dr. Bernd Schmeck

TransMIT Project Division for Veterinary Anatomy in Digital 3D-Models
Prof. Dr. med. vet. Carsten Staszky

TransMIT Project Division for Virtual Anatomy (ANATAR)
Prof. Dr. Ralf Kinscherf, Prof. Dr. Eberhard Weihe, Hans Schwarzbach

TransMIT Project Division for clinical pathophysiology and pathology
Prof. Dr. Andreas Moritz

TransMIT-Projektbereich für medizinische Mikrobiologie
Prof. Dr. Trinad Chakraborty

TransMIT Project Division for novel therapies in organ repair and regeneration
Prof. Dr. Saverio Bellusci

TransMIT-Projektbereich für Paro-Implantologie
Prof. Dr. Reiner Mengel

TransMIT Project Division for pulmonary Pharmacotherapy
Prof. Dr. rer. nat. Ralph Schemuly

TransMIT Project Division for Health Technology Assessment
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TransMIT Project Division for Transfusion Medicine and Hemostaseology
Prof. Dr. med. Holger Hackstein

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Prof. Dr. Michael Lierz

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TransMIT Project Division for Coordination of Clinical Studies
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TransMIT Project Division for Molecular Veterinary Diagnostics
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TransMIT Project Division for research in neuro-oncology
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TransMIT Project Division for Physical Methods in Dentistry
Prof. Dr. Michael Gente

TransMIT Project Division for registries and biobanks in pneumology
Prof. Dr. med. Andreas Günther

TransMIT Project Division for therapeutic Gene Targeting
Prof. Dr. Achim Aigner

TransMIT Project Division for Translational Research in Preventive Dentistry
Prof. Dr. Carolina Ganß

TransMIT Project Division for Health care research and rehabilitation
Prof. Dr. rer. pol. Susanne Hanefeld

TransMIT Project Division for veterinary diagnostic imaging
Prof. Dr. Dr. h.c. Martin Kramer

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TransMIT Project Division for Cosmetology & Pharmaceutical Technology
Prof. Dr. Cornelia Keck

TransMIT Center for innovative Plant Protection
Prof. Dr. Karl-Heinz Kogel

TransMIT Center for pharmacogenetic Diagnostics (PGvet)
Prof. Dr. Joachim Geyer

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TransMIT Center for Polymer Research and Nanotechnology
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Prof. Dr. Peter R. Schreiner

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Prof. Dr. Harald Platen

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TransMIT Project Division for Colloidal Drug Formulations
Prof. Dr. Udo Bakowsky

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TransMIT Project Division for cellular Signaling
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Prof. Dr. Alexander Goesmann

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Prof. Dr. Klaus Müller-Buschbaum

TransMIT Project Division for catalytic transformations, energy materials and energy consulting
Prof. Dr. Jörg Sundermeyer

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TransMIT Project Division for neuroscience and neurodegenerative diseases
Prof. Dr. Birgit Liss

TransMIT Project Division for Plant Metabolites and Chemicals (PlantMetaChem - PMC)
Dr. Stefan Martens

TransMIT Project Division for Synthesis and Characterisation of Nanoparticles and Porous Materials
Prof. Dr. Bernd Smarsly, Dr. Teresa Gatti

TransMIT-Projektbereich für Wirkstoff- und Diagnostikaforschung
Prof. Dr. med. Harald Schmidt

TransMIT Project Division for Applied Microbiology
Prof. Dr. Sylvia Schnell

TransMIT-Projektbereich für funktionelle und pharmakologische Ionenkanal-Forschung
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TransMIT Project Division for microbial production of degradable polymers/ plastics
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TransMIT Project Division for Recycling of Nutrients and Soil Fertility
Prof. Dr. Diedrich Steffens

TransMIT-Projektbereich für PainOmics
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TransMIT-Projektbereich für PolyNanoTec
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TransMIT Center for electrochemical Materials Research and Interface Characterization
Prof. Dr. Bernhard Roling

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Prof. Dr. Alexander Pellnitz

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TransMIT Project Division for Electrical Power Engineering and Smart Grids
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Prof. Dr.-Ing. Dorra Baccar

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Prof. Dr. André Schirmeisen

TransMIT Project Division for Public Transport and Traffic Management
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TransMIT Project Division for reaction systems in porous media
Prof. Dr. Harald Weigand

TransMIT Project Division for Thermal analysis, calorimetry, and computational thermodynamics
Prof. Dr.-Ing. Maren Lepple

TransMIT Project Division for ThreeDee Printing for Construction
Prof. Dr. Christine Döbert

TransMIT Project Division for virtual product design and rapid prototyping
Prof. Dr.-Ing. Klaus Schuchard, Prof. Dr.-Ing. Rafael Greszczynski

TransMIT Project Division for Material and Joining Technology
Prof. Dr.-Ing. Heinrich Friederich

TransMIT Project Division for investigation of dental material properties
Prof. Dr. Bernd Wöstmann, Dr. Thomas Niem

TransMIT Project Division for machine tools and manufacturing processes
Prof. Dr.-Ing. Udo Fiedler

D) Subject Divisions Communication, Media, Literature:

TransMIT-Zentrum für angewandte Wirtschafts- und Sozialethik
Prof. Dr. Wolfgang Nethöfel

TransMIT-Zentrum für Literaturvermittlung in den Medien
Prof. Dr. Thomas Anz

TransMIT Center for scientific-psychological services (DGPs)
Prof. Dr. Gerhard Stemmler

TransMIT Project Division for social science drinking water research
Prof. Dr. Herbert Willems

E) Subject Divisions Corporate Management and Administration:

TransMIT-Zentrum - Institut für strategisches Facility Management (ISFAM)
Prof. Dr. Frank Ehrenheim

TransMIT-Zentrum für Abfall-, Umwelt- und Ressourcenmanagement
Prof. Dr. Stefan Gäth

TransMIT Center for Industry 4.0 and Digitalization
Prof. Dr. Christian Überall

TransMIT-Zentrum für Ökonomie der Sonderimmobilie und Dienstleistungsmanagement
Prof. Dr. Bernd Halfar

TransMIT Center for Process and Project Management
Prof. Dr. Claus Hüsselman

TransMIT-Zentrum für Qualitäts-, Sicherheits- und Umweltmanagement
Prof. Dr.-Ing. Thomas Steffens

TransMIT Center for Spatial Evaluation and Spatial Planning
Prof. Dr. Christian Diller

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LIST OF FIGURES

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▼ Figure 1: Model of the „TransMIT Centers and Project Divisions“

▼ Figure 2: TransMIT Centers and Project Divisions“

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Prof. Dr. Jürgen Janek - Justus-Liebig-Universität Giessen

Dr. Thomas Niem - TransMIT Project Division for investigation of dental material properties

Rolf. K. Wegst

▼ Figure 3: Inventions in the fields of lung research, vacuum technology, plasma technology, biochemistry, simulation technology and many more..

Sources:

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▼ Figure 4: Company Builder "JOinTcubation"

Source: TransMIT GmbH.

▼ Figure 5: Overview of the grant procedure

Source: Europäisches Patentamt, Europäische Patente und das Erteilungsverfahren, 2015.



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