

Sheraton Grand Hotel Esplanade

Societal Outcome of Academic-Industrial Collaboration

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20 September 2018, Berlin



Emporio I Room

Plenary Opening

Welcome by: Dr. Volker Meyer-Guckel

Dr. Matthias Graf von Kielmansegg

Dr. Matthias Gotttwald

Dr. Alison Campbell

Dipl.-Geogr. Carsten Schröder

Dr. Thomas Gurney





20 September 2018, Berlin

Emporio I Room

Plenary opening: Word of Welcome

Dr. Volker Meyer-Guckel

Deputy Secretary-General of the Stifterverband für die Deutsche Wissenschaft, Germany





Berlin, 20 September 2018

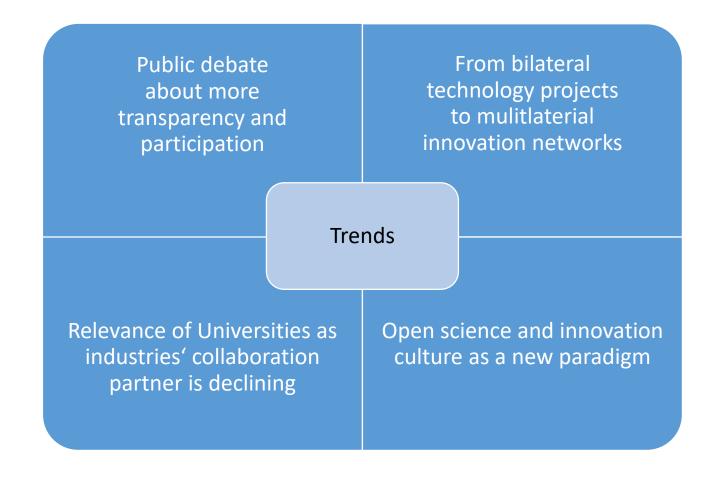
Societal Impact of Academic-Industrial Collaboration

Dr. Volker Meyer-Guckel



Academic-Industrial Collaboration

four Trends



Societal Outcome of Collaboration

Key questions to debate

- » How can we strengthen the transfer potential of universities across all disciplines?
- » How can we create value für industry and society?
- » What is openeness in research and innovation, where does it end, and how does it contribute to value creation?
- » How can universities benefit from as well as contribute to innovation ecosystems and networks?
- » Do we need new rules and regulation für openess and multilateral cooperation?
- » How can we measure collaboration outcome?



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MinDir Matthias Graf von Kielmansegg

Head of the Department on Policy Issues, Strategy and Digital Transformation Federal Ministry of Education and Research, Germany

AESIS





Research and Innovation for the People.

The German ,Hightech-Strategie 2025' and its Societal Impact

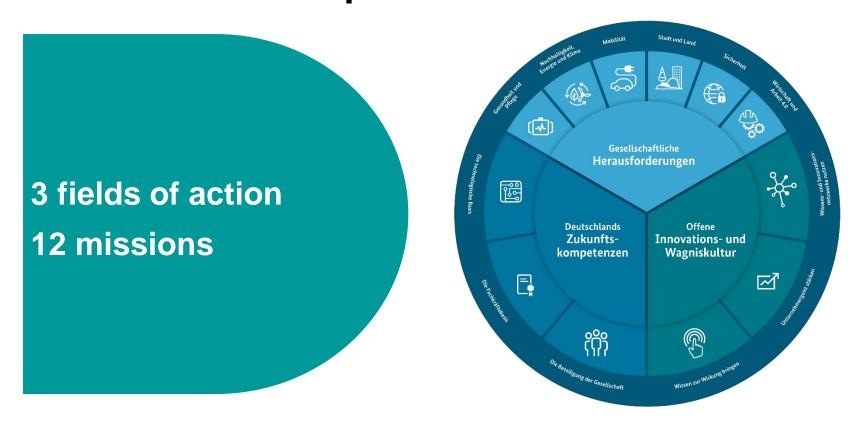
MinDir Matthias Graf von Kielmansegg Director-General Policy Issues, Strategy, Digital Transformation Federal Ministry of Education and Research

AESIS seminar in Berlin, 20th January 2018





Research and Innovation Policy with a Future Perspective







Future needs: our three fields of action.

×××



- Health and Care
- Sustainability, climate protection and energy
- Mobility

Societal

- City and Land
- Security
- Economy and Labor 4.0

Germany's future competences

- Being at the forefront of technological progress
- Filled technology pipelines
- Modern teaching
- Strong vocational training
- International exchange
- Making use of the social sciences

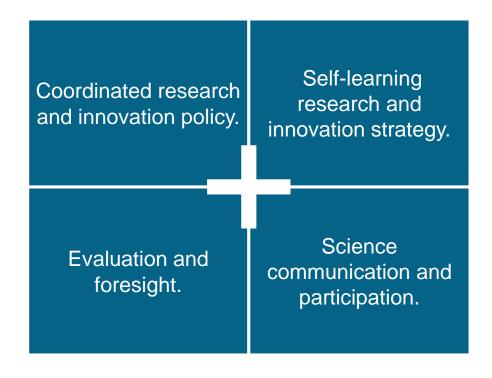
Open innovation and venture culture

- Open innovation culture
- Social innovations
- Breakthrough innovations
- The state as a driver of innovation
- Innovative power of SMEs
- New entrepreneurial spirit
- Cooperation/networking
- European and international innovation partnerships





The implementation of HTS 2025: Coordinated. Learning. Looking ahead. Participative.







Towards an open innovation culture – mission "New Sources for New Knowledge"

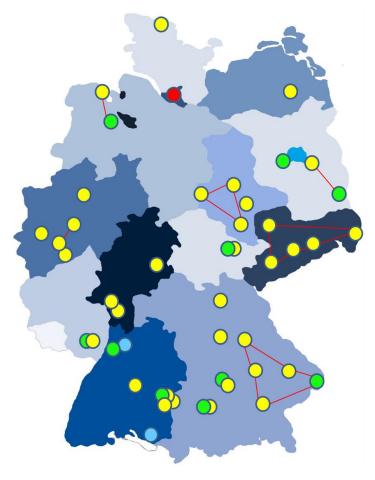
Open Access
Open Science
Open Data
Open Innovation

Measures in the
 High-Tech Strategy 2025
 increasingly address the
 interface between science,
 industry and society aiming
 at better collaboration





Funding programme Innovative Hochschule



- Focused on "third mission" activities
- Strengthening the strategic role of higher education institutes in their regional innovation systems
- 550 million euros for two funding periods up until 2027
- Co-funding from the Federal level (90%) and Länder Governments (10%)
- 29 applications with 48 higher education institutes selected for the first funding period

Picture: PtJ 2017





Measuring the impact of science ...

on the society and on people's live!

- Demand for new approaches in monitoring (indicators) and evaluation
- BMBF already started to cope with this need



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Dr. Matthias Gottwald

Head of R&D Policy & Networking at Bayer AG, Germany

AESIS



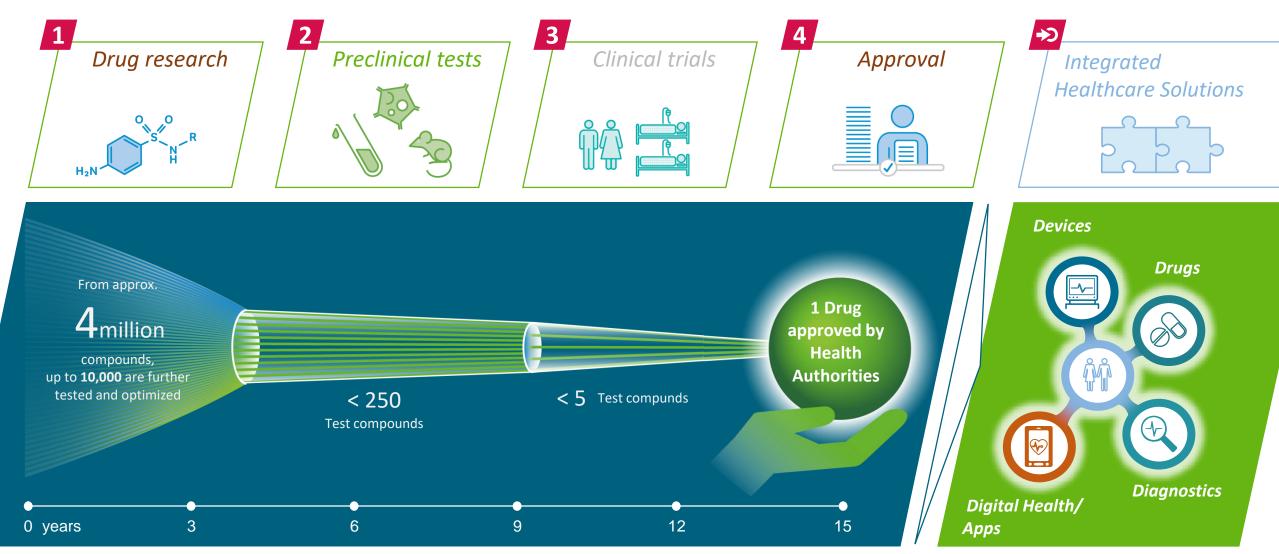
Value of academicindustrial collaboration

Matthias
 Gottwald
 Bayer AG
 Pharmaceuticals
 R&D Policy and
 Networking





From molecules to medicine to integrated solutions: The long process of drug development





External Innovation – Role in global Research & Development

One company only represents a small portion of the global biomedical knowledge



Partnerships deliver essential input





Are key to achieve Breakthrough Innovation



Access to assets complementing internal research and development



Allow to pursue highly complex and innovative projects that the single partners might not have moved forward

Strengthen networks and exchange of expertise in core areas

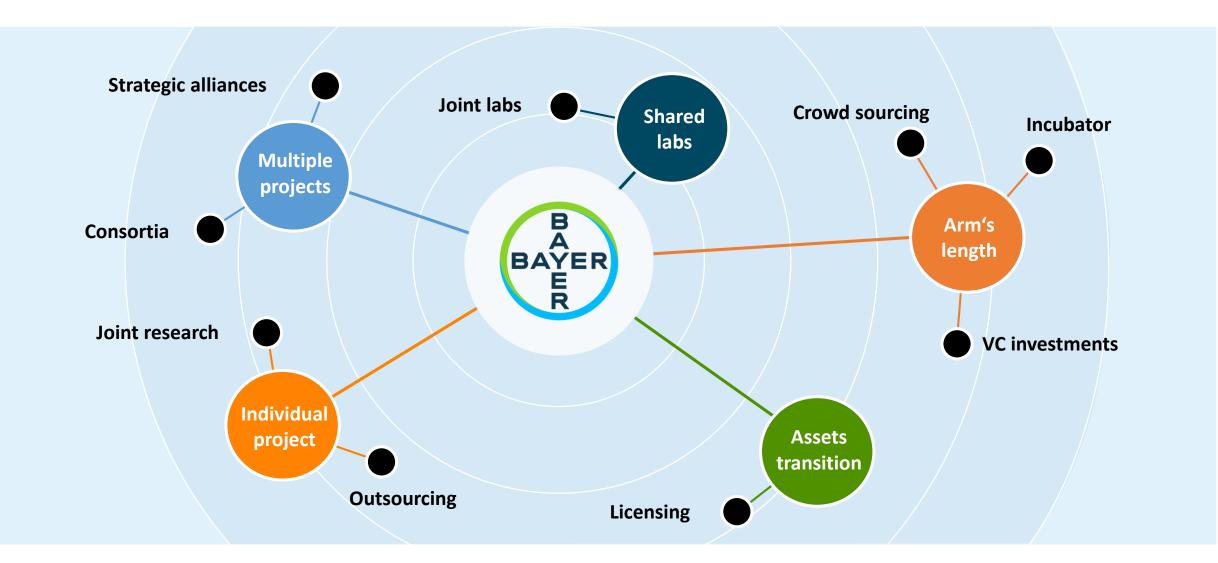




Flexible Partnering Models



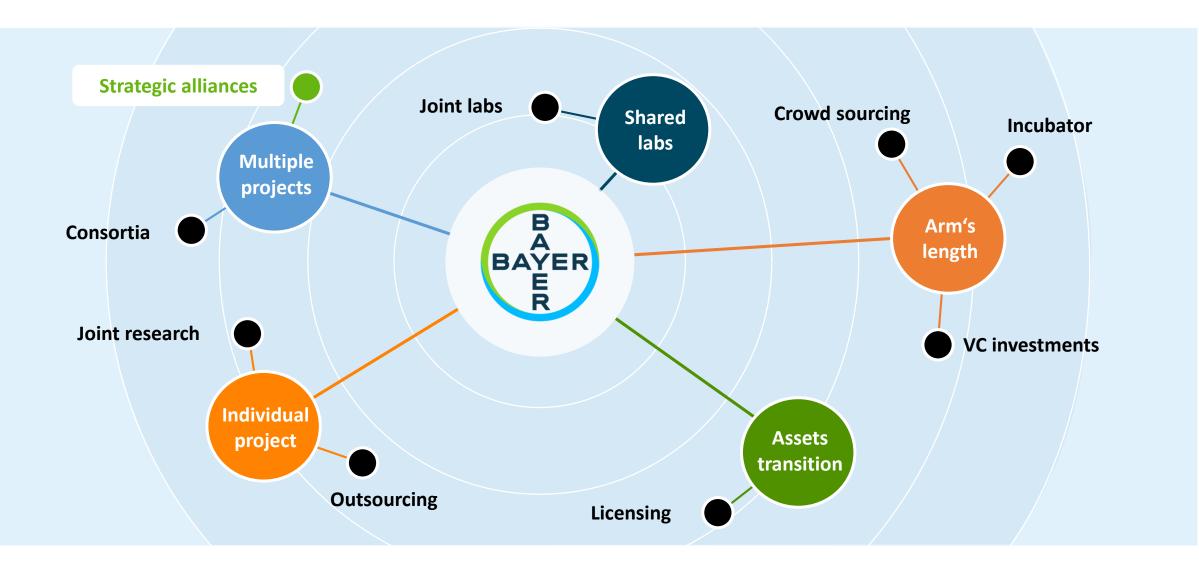
Match the needs of partners



Flexible Partnering Models



Strategic Alliances





Strategic Alliances Example Cooperation Bayer – DKFZ

Bayer and the DKFZ formed a long-term Strategic Alliance in Oncology in 2009



dkfz

Combining deep knowledge on molecular mechanisms of cancer at the DKFZ with Bayers pharma R&D expertise



>40 joint projects initiated

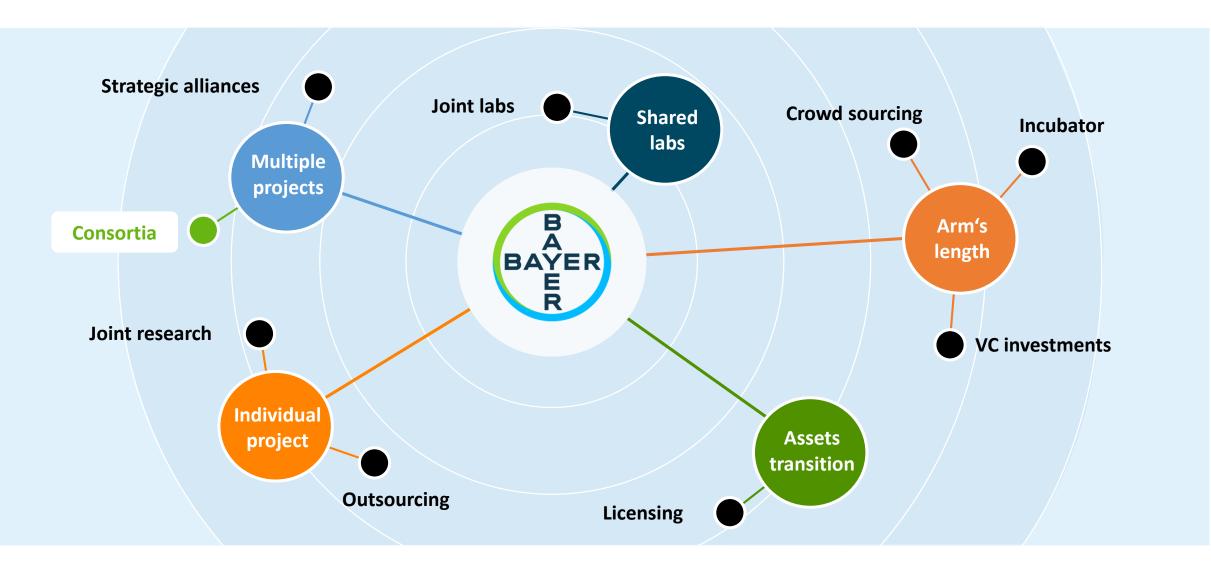
2 compounds reached Clinical Phase I

Joint Immunotherapeutics
Lab started 2013

Flexible Partnering Models



Consortia





Consortia Example Innovative Medicines Initiative (IMI)

Worldwide largest public-private partnership in healthcare R&D between the EU Commission and the European Pharmaceutical Industry

Establishing critical mass consortia to make **drug R&D processes** in Europe more innovative and efficient and to address key societal challenges

- Addressing topics no single partner would address alone,
 e.g. big data in healthcare, patient engagement in R&D
- Projects across value chain from discovery to healthcare delivery and access models
- Interaction with various stakeholders (incl. patient groups, authorities)

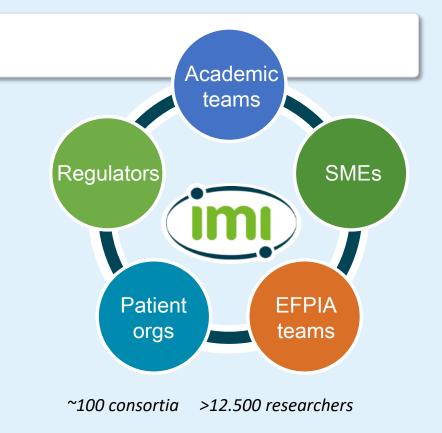




IMI establishes multi-stakeholder consortia offering critical mass & diversity

IT IS ALL ABOUT NETWORKS...

- * open collaboration on shared challenges; joint decisions
- * increased efficiency, shared risked
- * international cross-sector community; integrating latest science into drug development





Addressing topics no single partner would address alone







Big Data for Better Outcomes (BD4BO)

* Cardiovascular diseases

* Leukemia & Lymphoma

* Prostate Cancer

* Alzheimer

... to transform Patient Care Big Disease Data cohorts... Clinically relevant phenotypes Clinical data "Omics" Genotyping Standard disease definitions Phenotypic data Biomarker and outcomes Cytogenetics **GWAS** Immunofluorescene Tools to predict clinical outcomes Optimized decision-making processes and new therapies Patient Drug stratification development Risk prediction







BD4BO projects in oncology and cardiovascular research



BigData@Heart

- Heart failure
- Atrial fibrillation
- Acute coronary syndrome
 - 3 EFPIA
- **20** project partners
- 14 public partners
- 2 SMEs
- 1 ,third party'



PIONEER

- Prostate Cancer
- **32** project partners
- 6 EFPIA
- 26 public partners



HARMONY

 Seven fields of Hemato-Oncology (e.g. several types of leukemia)

52 project partners

- 7 EFPIA
- 40 public partners
- 4 SMEs
- 1 ,third party'

Improve medicinal Research and Development by

- Classification of disease subphenotypes
- Better design of clinical studies
- Personalized medicine

Identification of the most promising treatments



Summary and Conclusion

- Partnering complementing internal excellence is a key to success for addressing the challenges in healthcare
- There is no one-size-fits-all solution; for each goal the right partnering model has to be found
- Governance structure of alliances should include professional alliance management from the beginning.

Requirements for a successful academic-industrial collaboration

Quality

- Ensure reproducibility of scientific results (quality of targets, animal models,...)
- Ensure adequate IP protection before publication

Understanding requirements for development of an asset

• E.g. data / tests needed for a validated target, hit, lead or preclinical development compound

Pragmatic administrative processes for negotiation

- Reasonable understanding of realistic financial and IP terms
- Allowing access and collaboration with an institutional network across several institutes

Professional alliance management

Joint, transparent governance structure & communication processes



Thank You!





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Dr. Alison Campbell

Chair of AUTM & Director of Knowledge Transfer Ireland

Stimulating & Measuring Outcomes of Academic-Industrial Collaboration

Dr Alison Campbell OBE RTTP

Director KTI, Chair AUTM

AESIS Conference

Berlin, 20 September 2018



Key components





National policy

Ireland's policy for research commercialisation includes:

- Maximise the economic and societal benefits and returns to Ireland from its public investment in research.
- The opportunity shall be taken to commercialise such IP in all possible fields, applications and territories where it is consistent with achieving Ireland's objectives.
- All enterprises, from start-ups and small and medium enterprises ('SMEs') to multi-national corporations, should be able to access and exploit IP quickly, on terms that provide fair value to all parties, and in ways that are predictable and consistent from one negotiation to the next.
- Commercialisation shall also benefit the Higher Education Institutes and State Funded Research
 Organisations ("Research Performing Organisations", RPOs) and provide incentives to the researchers
 involved in creating the IP.

Full policy objectives in Chapter 1 of national IP Protocol

National Strategy

R&D Strategy



Higher Education Strategy

Key system objectives for the higher education system 2018 – 2020

3. Excellent research, development and innovation that has relevance, growing engagement with external partners and impact for the economy and society and strengthens our standing to become an Innovation Leader in Europe

Benefits of knowledge/technology transfer

For HEIs

Dissemination of research results

Further development of research & expertise

Access to real world problems

Leveraged research funding

For industry & HEIs

Skills and talent development

Access to new knowledge

Access to facilities and resources

Creation of new knowledge and publications

Ability to recruit and retain

good people

Reputation

Revenue

For industry

New products and services

New processes or process improvements

More competitive

Company growth

Sustainability

Jobs

Benefits of knowledge/technology transfer

For HEIs

Dissemination of research results

Further development of research & expertise

Access to real world problems

Leveraged research funding

For industry & HEIs

Skills and talent development

Access to new knowledge

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New products and services

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Sustainability

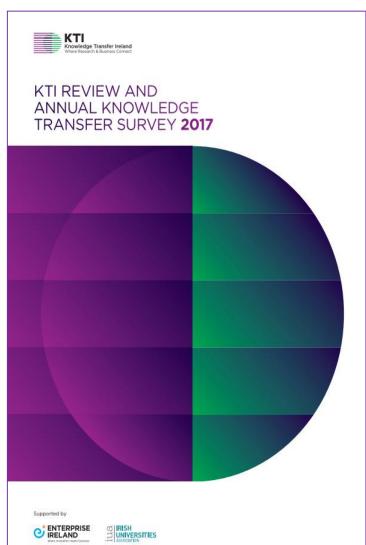
Jobs

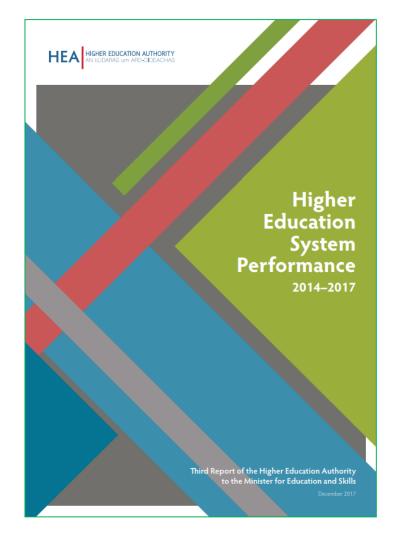
Impacts on society and the economy

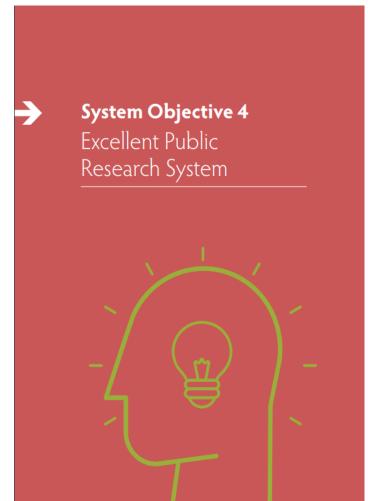
A happier, healthier and richer public & environment



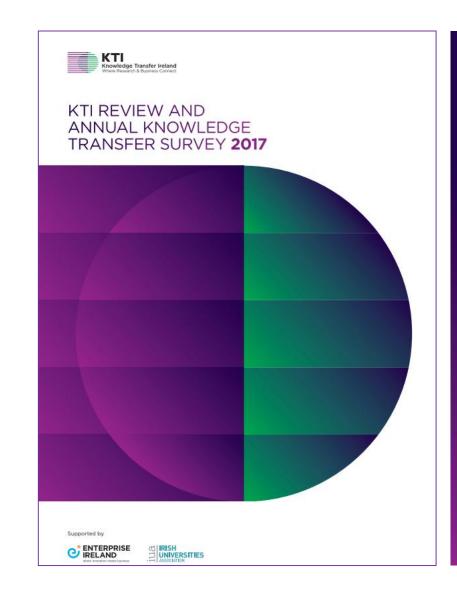
















reported in the KTI AKTS 2016

Products and services launched on the market based on licences from RPOs

The AKTS 2016 reported 26 new products and services launched on the market in that year as the result of a licence from an RPO. This is likely to be an underestimate of the actual number launched, due to the challenges of obtaining data in all situations as information may be viewed as commercially sensitive by the licensee. In some cases, the RPO may only be informed about the new product if and when royalties become due, rather than at the time of launch. The survey period of January-December 2016 relates to the product or service launch date, rather than the date of the licence, which may have been signed earlier.

After validation by the study team, two of the products reported in the AKT 3200 were excluded. The 24 validated new products and services flowed from Incences executed by II RPOs. Ten of these new products and services were generated in Inventible, nine from institutes of Sechnology (ici) and the from speciality institutes or and the from speciality institutes or state research bodies. The majority of these were products. Ten were services or included a service element.

2.1 Pathways to licensing

The study team examined the relationships that led to the licences that underpinned product and services launches. They found that half (12) of that underprined product and services launches. They found that that (20 in lacences were issued to an RPO spin-out of lacences were issued to an RPO spin-out and of which may oranate from an RPO spin-out sold which may oranate from an RPO spin-out the partner commany or through grant-ing the partner commany or through grant-freibid and in one case from SFI and in two cases from the European Union. One product/service Isuanch was the sould of all control of a thusden-field start-smit of a licence of a thusden-field start-smit of a licence of a thusden-field start-smit of a licence of a thusden-field start-

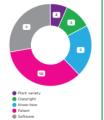
The TTOs were actively involved, often from the initial research stages, supporting identification of industry partners and application to suitable funding schemes. They then worked with the Principal investigators (PR) at the RPO to identify tangible and intangible intellectual property arising from the research and to put appropriate protection mechanisms in place. The TTO routinely led the negotiation of the licence agreements.

2.2 Types of intellectual property underpinning products and services launched in 2016 Products and services brought to market



Universities

Figure 2: Types of IP rights licensed from RPOs that led to products and services launched in 2016 (n=29)



TI | Review of the outcomes reported in the KTI AKTS 2016

products and services that had been launched onto the market between 2013 and 2015 based on IP licensed from the Irish RPOs to establish whether these products and service are still in these products and service are still in use and, if not, whether this is because the licensee company is no longer active or because the technology is no longer being used. The study team used a combination of public data and information reported by the licensee to the TTO. A total of 67 products and services were found to be still on the market. This is likely to be an underestimate, as the team was unable to establish the definitive status for

3.4 Products and services that are still In use
This year's study investigated all the products and services that had been the progress of innovation, with older products superseded as new technology is introduced. There seems to be no particular attrition trends in terms of type of IP transferred, research themes type of IP transterrior, research themes and priority areas, or ownership of the licensee company. There is, however, a slight difference in terms of the type of licensee. Proportionally more of the products and services which are still available on the market were licensed to RPO spin-out companies (62%).



Company no longer active

Sales and company growth at Ceramix based on a product licence from TCD

A licence to technology from Trinity College Dublin (TCD) to Ceramicx, an Irish manufacturer of infrared radiation (IR) heating elements, enabled company sales growth of 23% in 2016 compared to 2015.

Caramics is well established in leistand with manufacturing facilities in Co. Cork. Caramis process healthing and exotic automative and packaging industries; supplying industri

compared to 2015.
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Registering at TCD and
Engineering at TCD and

The relationship with TCD is enduring and the company is working on two further collaborative research projects with other teams in the university.

The TTO team at TCD has

Added value from the RPO: property, licence negotiation Research Prioritisation Area:







Licence2Market Award

Teagasc

Cheese-Making Technology Licence to Ornua Cooperative Ltd

Teagasc has developed a platform technology that marks a new approach to cheese manufacturing by allowing cheese to be produced from reassembled milk without whey expulsion.

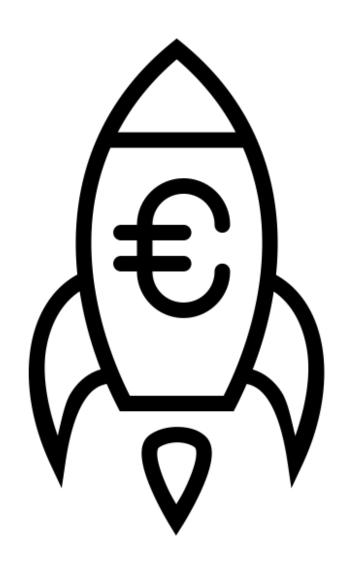
This opens the door to manufacturing cheeses in territories with shortage of fresh milk supply. The technology has been filed for patent and was licensed by Teagasc to Ornua Cooperative Ltd in 2012. Ornua Cooperative is an agri-food commercial cooperative that markets and sells dairy products on behalf of Irish dairy processors and dairy farmers. It is Ireland's largest exporter of dairy products. In engaging with the technology transfer office and researchers at Teagasc, the company foresaw potential to increase exports and routes to market for Irish dairy ingredients by exploiting the technology to make cheeses in the Middle East. The licence from Teagasc gave patent and know-how rights to Ornua for the manufacture of a range of white cheeses for the Middle Eastern markets. In March 2016, following a series of trials, prototype development and product validations and as a result of the technology licensed from Teagasc, Ornua opened a cheese manufacturing plant in Saudi Arabia launching its first product range shortly thereafter. Following positive customer feedback and with plans to extend its product range in 2017, Ornua have strong growth plans to fill the capacity of the €multi-million plant over the coming 5 years. The licence of this technology has provided valuable learnings to the relatively young TTO at Teagasc who is due to receive its first royalties on sales in 2017. The office continues its relationship with Ornua by managing the reporting and financial obligations of the licence and new collaborative projects resulting from this successful project.

Trinity College Dublin

Digital Student ID Software Licence to iDly

iDly is a Software as a Service company offering digital identification services.

The project that gave rise to the 'Trinity Digital Student ID' software was funded using internal Trinity resources and delivered by Trinity IT Services in conjunction with the iDly team, a Trinity College Dublin student team. The exclusive licence to the software from Trinity was instrumental in allowing the company to form and to secure funding for further technology development in the field of identification. The software was developed as a promising solution to the problem of identity confirmation when a student mislaid their physical ID but it became apparent that the solution was useful in a wide range of identity-requiring situations. The company made its first sale in 2016 to University College Cork where the product will be deployed in 2017 and has a strong pipeline of other universities in Ireland and the UK as well as clients in other sectors such as healthcare. politics and entertainment. The company plans to grow its team from 3 to 7 in 2017 and is in the process of further fund-raising to deploy its products to new customers in new sectors. Media coverage on iDly has assisted in profiling Trinity's ability to source, develop and commercialise new ideas from entrepreneurs and to raise the profile of the TTO and of commercialisation within the student population.



Ireland's Research, Development & innovation
Funders – working together to deliver impact



Funding KT: the Technology Transfer Strengthening Initiative Programme

• 2007-2012 • €30M • Introduced to develop a professional technology transfer system in some HEIs • 8 • Prior to the programme: • Little or no such capability • No national metrics • No system drivers • Fragmented system

TTSI2

- •2013-2016
- •€22.6M
- •To bolster capacity & capability in all HEIs
- Introduction of consortia
- •8 involving 26 RPO by prog end
- Coherent policy and framework around industry engagement with public research.
- KTI established as national office as required by DJEI
- KTI managed TTSI2 programme and system performance

TTSI3

- •2017-2021
- •€34M
- Further develop the technology/knowledge transfer system in Ireland as it begins to mature.
- Leveraged funding from HEIs

Funding system oversight & support

KTI is Ireland's national office for business-research partnership and commercialisation with and from the research base

Our mission is to make it simple for industry & entrepreneurs to benefit from Irish research and expertise





How far have we got?



Goodhart's law

"once a measure becomes a target it ceases to be a good measure"

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20 September 2018, Berlin

Emporio I Room

Dipl.-Geogr. Carsten Schröder

Vice President for Research Management and Knowledge Transfer University of Applied Science Münster, Germany



20 September 2018, Berlin

Emporio I Room

Dr. Thomas Gurney

Analytical Services, Elsevier, The Netherlands





New German University figures on the outcome of Alliances with Industry

Dr. Thomas Gurney Elsevier

AESIS, Berlin, September 2018

German and EU research priorities

Germany

Hightech strategie 2025

- Prioritising future challenges relative to prosperity and quality of life
- · Consolidating resources and promoting transfer
- Strengthening the dynamism of innovation in industry
- Creating favourable conditions for innovation.
- Strengthening dialogue and participation

6 major themes:

- Digital economy and society
- Sustainable economy and energy
- Innovative workplace
- Healthy living
- Intelligent mobility
- Civil security

EU

Key Enabling Technologies

- Increased focus on innovation for key enabling technologies
- Increased focus on technology transfer and EU-wide supply chains
- Increased focus on joint strategic programming and demonstration projects

Technologies:

- Advanced materials
- Chemical technologies
- Digital technologies
- Engineering and fabrication
- Life sciences
- Nanotechnologies
- Photonics and light technologies
- Quantum technologies

Overlap

Germany Hightech strategie 2025

Current social upheavals and rapid technological developments require new answers on how we can shape our coexistence in Germany and strengthen the cohesion in our society. The HTS 2025 shows perspectives on how Germany can successfully shape its future through research and innovation. At the same time, it should provide guidance to all actors in innovation. [...] It should help to put Germany at the forefront of the next technological revolutions in order to keep jobs in Germany and to secure our prosperity. The promotion of new technologies goes hand in hand with investment in education and training and the involvement of society to prepare people for impending change. [...] Just as important as the commitment of the Federal Government is the commitment of business, science and society. Working hand in hand on common goals is the key to success. With the "High-Tech Strategy 2025", we want to increase spending on research and development in Germany to 3.5 percent of GDP by 2025.

EU KET

The potential of these technologies is largely untapped. *Increasingly systemic solutions will need to evolve in order to address major societal challenges*, such as ensuring high-speed communication, ensuring food supply, the environment, finding appropriate transport solutions, ensuring high levels of health care for an ageing population, unlocking the potential of services, ensuring internal and external security and addressing the energy question. Low carbon technologies and applications will play a vital role in reaching European energy and climate change targets. For instance, CCS and CO2-related transport grids will be needed to reduce CO2 emission in countries that will continue to rely heavily on fossil energy sources. *KETs, such as new materials for energy production, transportation and storage play an essential role.* They could lead to better resource and energy efficiency and their environmental impact needs to be assessed in a life-cycle perspective, taking advantage of the related initiatives promoted at EU level in this context.

Overall theme: Address and improve societal challenges. One avenue is via increased collaboration between Academic, Corporate and Government research entities in key science and technology areas.

Sustainable economy and energy

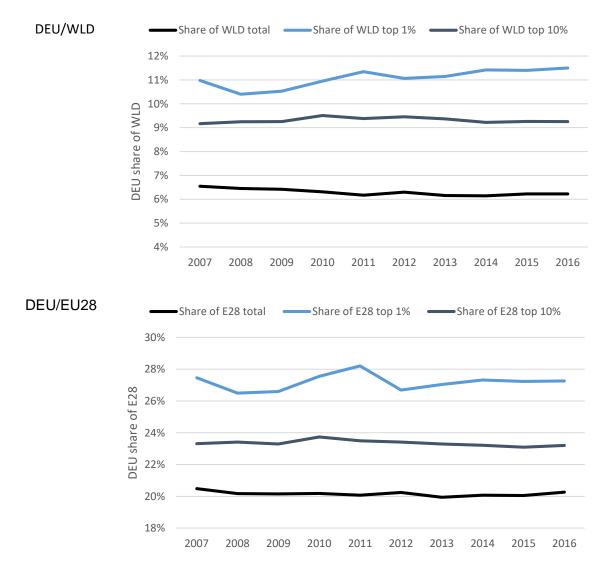
Focus on three technologies with high importance in EU and Germany

- 1. Energy conversion (Advanced materials)
- 2. Electrification / Hydrogen technology / power to gas (Chemical technologies)
- 3. Energy storage materials (Advanced materials)

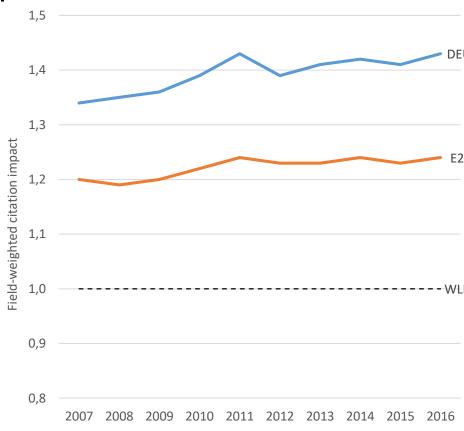
Note: Publication output, impact, growth and excellence

- Data provided by Scopus and ScienceDirect
- Technologies defined by field experts using keywords and journals

Overall context of German research

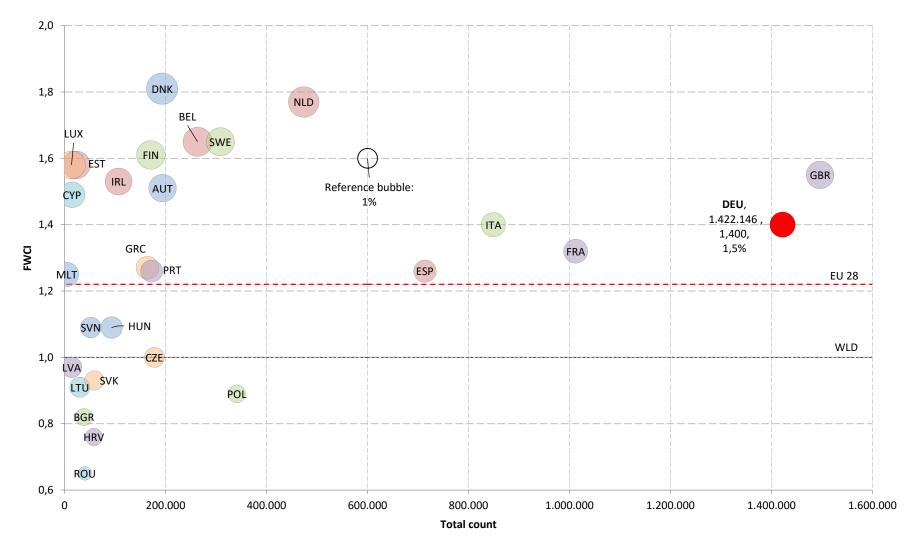


FWCI



Germany in an EU context

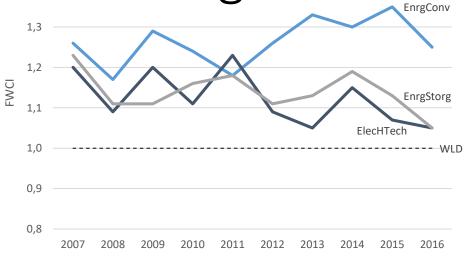
Overview of EU 28 countries' outputs, FWCI and share of publication in Top 1%, 2007-2016. Source: Scopus.

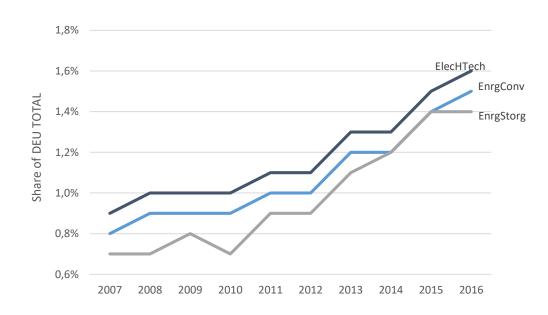


DEU (& GBR, FRA, ITA, ESP) largest producers of publications, middling FWCI, middling share of total output in Top1% cited publications

Impact and share of German output in







General trend for:

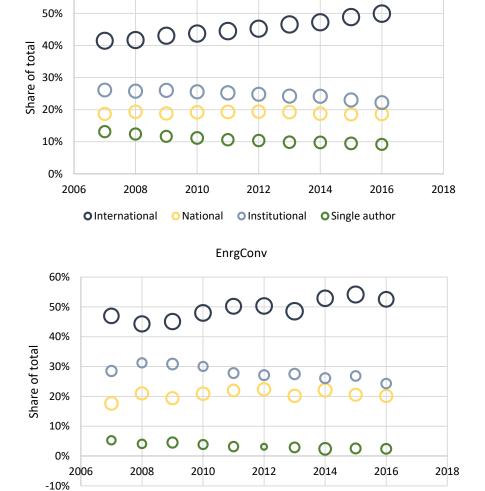
- 1. Energy conversion (Advanced materials)
- 2. Electrification / Hydrogen technology / power to gas (Chemical technologies)
- 3. Energy storage materials (advanced materials)

Increased share of German total output, decreasing impact

Germany compared to other EU 28 countries

		Total		Top 1%			Top 10%		
Tech name	Rank	Publications	FWCI	Publications	FWCI	% of tot	Publications	FWCI	% of tot
All	1	GBR	DNK	GBR	BGR	DNK	GBR	EST	NLD
	2	DEU	NLD	DEU	EST	NLD	DEU	BGR	DNK
	3	FRA	SWE	FRA	CYP	BEL	FRA	MLT	BEL
	4	ITA	BEL	ITA	LVA	FIN	ITA	LTU	SWE
	5	ESP	FIN	NLD	SVK	SWE	NLD	CYP	GBR
EnrgConv	1	DEU	NLD	DEU	GBR	DNK	DEU	AUT	DNK
	2	GBR	DNK	GBR	ITA	LVA	GBR	NLD	EST
	3	FRA	GBR	FRA	NLD	SWE	FRA	GBR	SWE
	4	ESP	AUT	ITA	DEU	AUT	ITA	IRL	FIN
	5	ITA	IRL	NLD	FRA	EST	ESP	DEU	PRT
EnrgStorg	1	DEU	DNK	DEU	GBR	DNK	DEU	IRL	DNK
	2	GBR	IRL	GBR	ESP	EST	GBR	AUT	EST
	3	FRA	BEL	ITA	FRA	IRL	ITA	BEL	ITA
	4	ITA	CYP	FRA	ITA	DEU	FRA	GBR	SWE
	5	ESP	GBR	ESP	DNK	SWE	ESP	DNK	DEU
ElecHTech	1	DEU	DNK	DEU	GBR	DNK	DEU	DNK	DNK
	2	GBR	NLD	GBR	ESP	EST	GBR	GBR	EST
	3	FRA	BEL	ITA	NLD	DEU	ITA	DEU	PRT
	4	ITA	GBR	FRA	FRA	ITA	FRA	BEL	GRC
	5	ESP	SWE	ESP	DNK	IRL	ESP	-	ITA

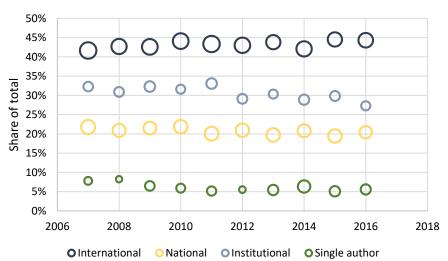
International collaboration in Germany

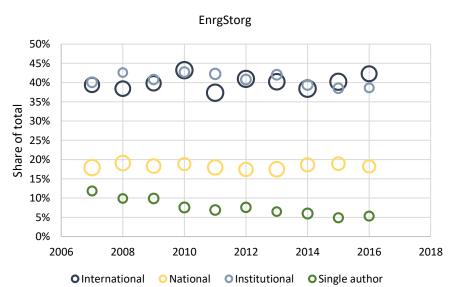


National
 Institutional
 Single author

OInternational

50%

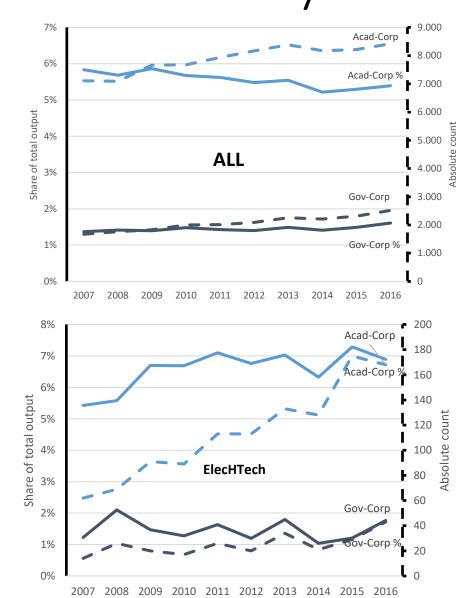


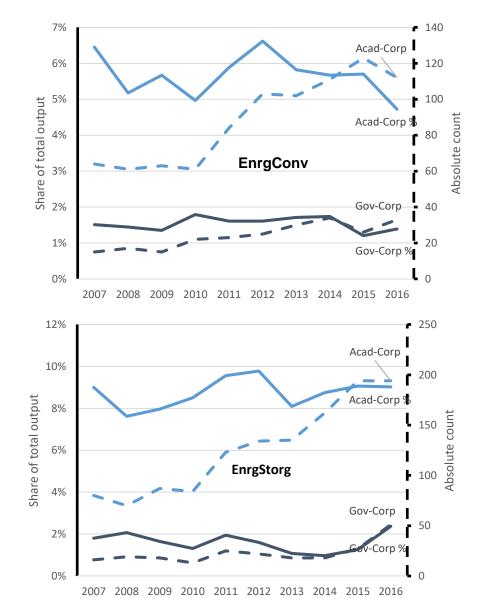


General trends overall and per technology

Increased international collaboration

Output of Academic-Corporate collaboration in Germany



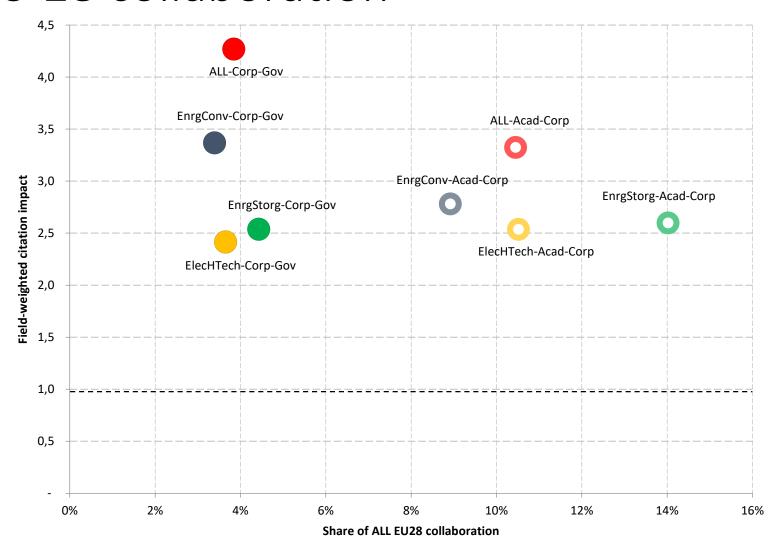


General trends overall and per technology

Acad-Corp
collaboration
counts increasing
but share of total
decreasing/stable

Gov-Corp collaboration counts increasing and share of total increasing/stable

Share and impact of German research in cross-sector EU 28 collaboration



Acad-Corp
collaboration
occupies greater
share of DEU
collaboration with
EU 28

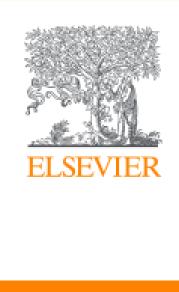
FWCI overall higher for Corp-Gov collaborations

German and EU research priorities - conclusion

Given goals of Hightech strategie 2025 and EU Key Enabling Technologies, within Sustainable economy and energy, and sampling only a few of the technologies, can we identify opportunities to stimulate progress?

Hightech strategie 2025 and KET

- Prioritising future challenges relative to prosperity and quality of life identify technologies that are highly impactful
- Consolidating resources and promoting transfer encourage international and cross-sector collaboration
- Strengthening the dynamism of innovation in industry diversity of participating research entities
- Creating favourable conditions for innovation incentives and policy environments
- Strengthening dialogue and participation engagement on social needs and technological expertise







20 September 2018, Berlin

Emporio I Room

Panel discussion

Dr. Volker Meyer-Guckel (chair)

Dr. Matthias Graf von Kielmansegg

Dr. Matthias Gotttwald

Dr. Alison Campbell

Dipl.-Geogr. Carsten Schröder

Dr. Thomas Gurney





20 September 2018, Berlin

Next up:

11.00-11.30 Group picture and coffee break Wintergarten B

11.30-12.45 Openness and transparency in Emporio I Room

academic-industrial collaboration

IPR Policies Embassy Room

AESIS