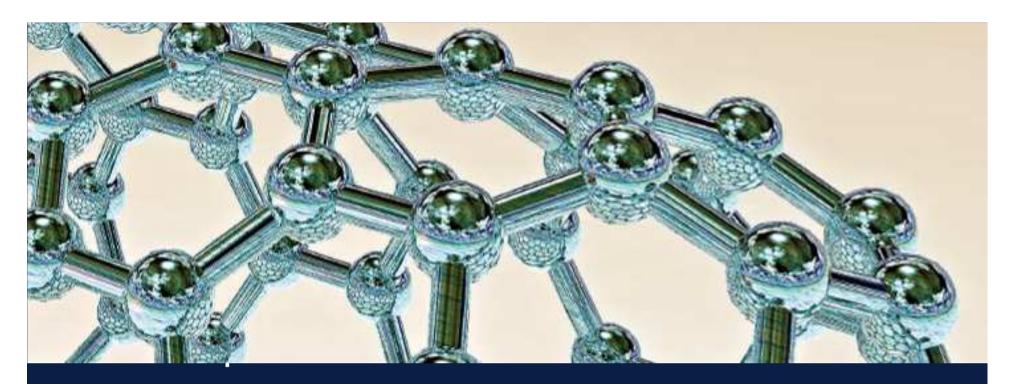


Innovation and the MENA Region









Innovation and the MENA Region

Focus Industrial R&D, Focus UAE: Challenges and Initiatives

Dieter R. Fuchs





It is by no means certain that things will become better when they change, but in order to become better, they have to change.

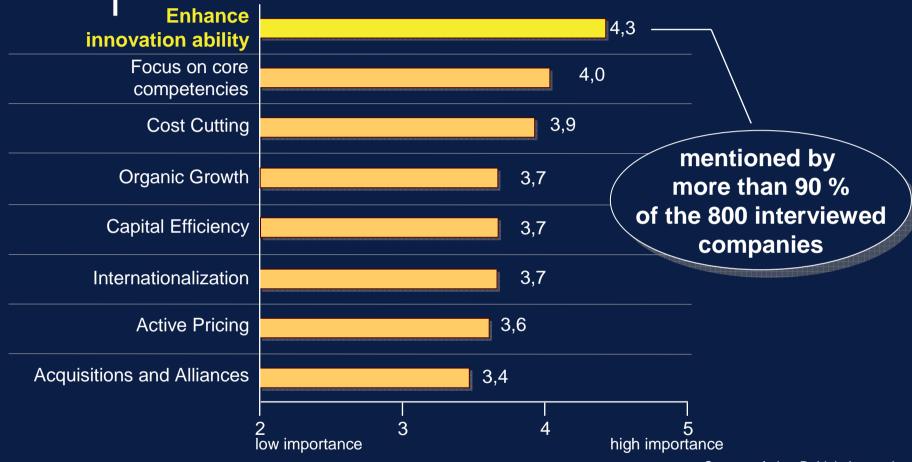


Georg Christoph Lichtenberg German physicist and author (1742-1799)





Main levers for increased growth and profit









MENA: A Most heterogeneous Region





- "Taking risks" does not yet apply for technology: "To buy proven state-ofthe-art at lowest prize" is still a dominating factor in MENA!
- "Quality" in the service sector (so: also in R&D) is seen in a different way!



• • • Science & Industry: A Team! Reality or Vision ?!







• • • Science & Industry: A Team! Reality or Vision ?!

customer orientation! management routines!

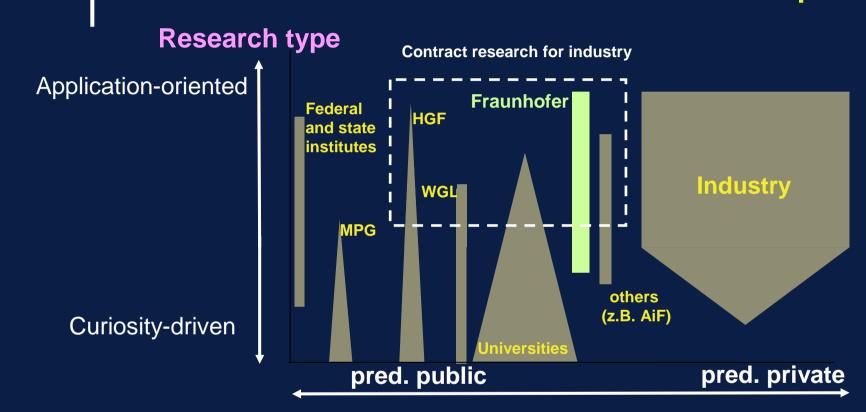
R&D Institute Industry

no gap, but many challenges !!





The German research landscape



Financing

HGF Hermann von Helmholtz-Gemeinschaft
WGL Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz
AIF Arbeitsgemeinschaft industrieller
Forschungsvereinigungen
MPG Max-Planck-Gesellschaft





Science & Industry in MENA?

education!
"Science"!
Research?





Dubai

Visions became reality!





- Infrastructure
- Diversification
- Branding
- Think big!



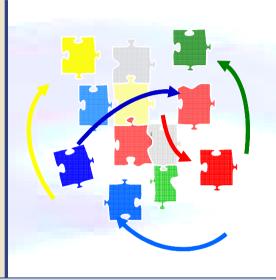




With Innovations towards success and growth

Technological Innovations

Investment in research and development for the creation and launch of new products and services



Structure and process innovations

Development and implementation of creativity supporting environments for

- working,
- learning, and
- living

Innovations in Society and Politics

Creation and implementation of sustainable location factors for mobilizing individual and collective engagement







Innovation initiatives in Germany

"Partners for Innovation" Engagement of more than 400 experts in 15 working groups, advancing Germany's innovation system by creating specific project



The campaign "Du bist Deutschland" To create an atmosphere of enthusiasm



The campaign "Germany – Land of Ideas" To strengthen the positive German image abroad



The High-tech Strategy for Germany Research focus on 17 High-tech Sectors (2006-2009)



Invest in Germany Promotion of Germany's advantages as an excellent business location



Advertisement at Bank Station in London and Grand Central Station in New York









You have to kiss many frogs, in order to have one prince!

Arthur Frey, 3M, inventor of the post-it notes



Source: mod. from Kienbaum







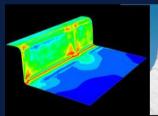
Fraunhofer Profile in 2008

56 Institutes12 600 employees

> US\$ 1.5 billion research budget

Key Areas and Alliances

- Microelectronics
- Production
- Information and Communication Technology
- Materials and Components
- **Life Sciences**
- Surface Technology and Photonics
- Defense and Security Research







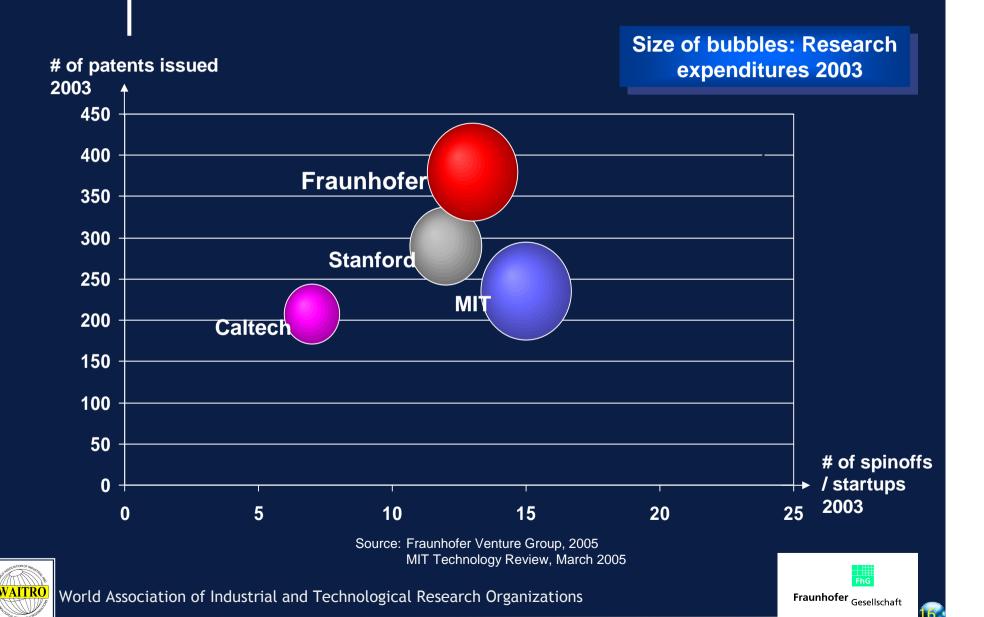




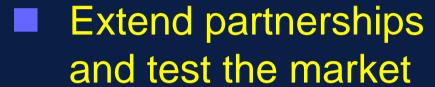




Fraunhofer Benchmarks



Fraunhofer in Middle East







- Participate in regional development
- Create additional business for German Fraunhofer Institutes
- Link local demands to international experiences and services





Outstanding achievements in renewable energy

Strong activities in the following sectors:

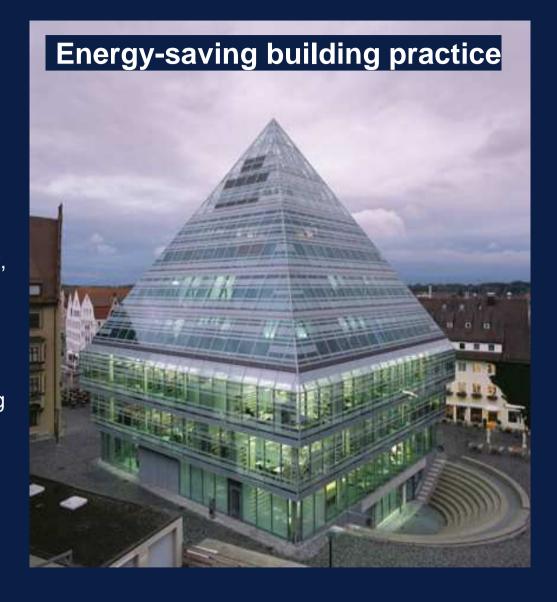
- photovoltaics,
 solar thermal
 heating and
 cooling and
 solar thermal
 power generation
- biomass, biogenous gases and alternative fuels
- wind power







The new public library in Ulm: Scientists determined the probable temperatures, airflow and daylight conditions with the aid of computer programs for light, heat and airflow measurement. Working hand in hand with the planners, they developed strategies for reducing energy costs and increasing comfort as means of optimizing the building's user-friendliness.

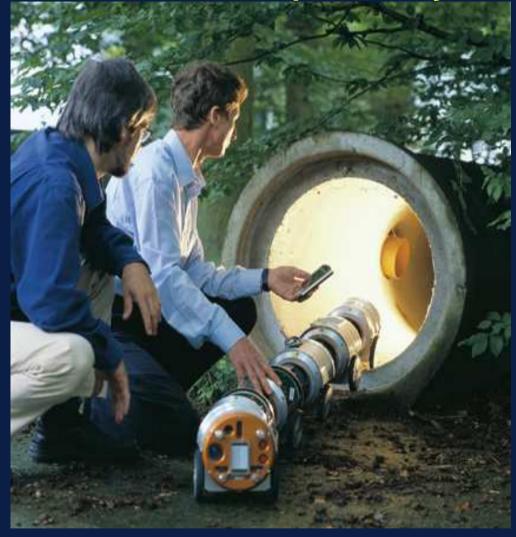






A new multi-sensor inspection system

The sewage systems have to be inspected regularly to prevent leakage and reduce maintenance costs. Damage to the sewers is detected autonomously by sewer robots for example by the snake-like MAKROplus.







Dubai Infrastructure Development









Strategic Alliances

The ultimate Middle East business resource

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Company:	Techno Park
PR Contact:	Yasir Saeed Zubairi (yasir.zubairi@dubaiworld.ae)
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TechnoPark signs MoU with WAITRO for cooperation with member organizations

TechnoPark, the science and technology facilitator of **Economics Zones World** has announced today that it has signed a Memorandum of Understanding with World Association of Industrial and Technological Research Organizations (WAITRO), on the establishment of a structured framework for

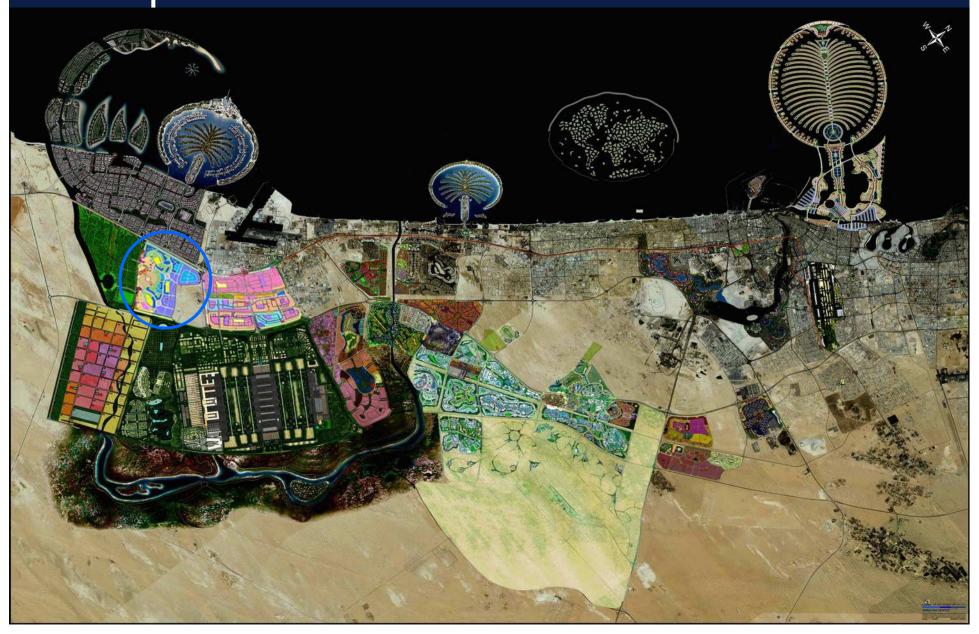








• • • New Dimensions



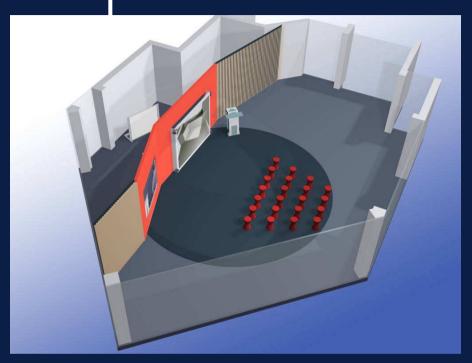
Networking







Service Engineering: ServLab – Test environment for next generation services





- VR-Stereoscopic Projection Technology
- »Service Theatre«
- Rapid response auditorium







Source: Fraunhofer IAO





Virtual Reality in Dubai

- Power Wall for innovative planning, design and demonstration
- showcase and service centre
- capacity building and training















New Initiatives in the Region







First Round of **"Made in the Arab World"** Competition Finals
November 3-4, 2007, Arab Republic of Egypt

الدرورة (الأولى النهائياك سابق "صنع في الوطن العربي" عن الدريرة (الأولى النهائياك سابق "صنع في الوطن العربي" عن الدويدة مصد العربية





