



INVESTMENTS IN EDUCATION DEVELOPMENT

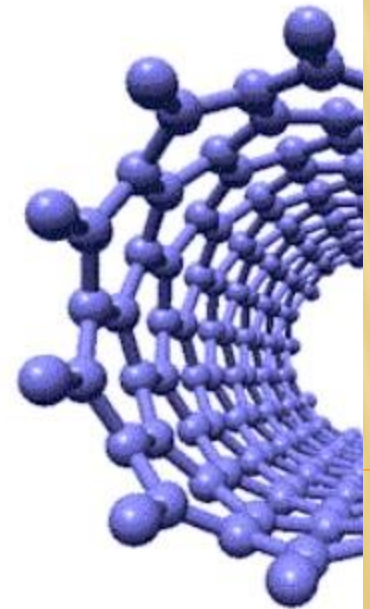
Innovation and Development of Study Field Nanomaterials at the Technical University of Liberec

nano.tul.cz

These materials have been developed within the ESF project: Innovation and development of study field Nanomaterials at the Technical University of Liberec



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INOVATION AND BUSINESS **IN NEW TECHNOLOGIES**

Technology Transfer

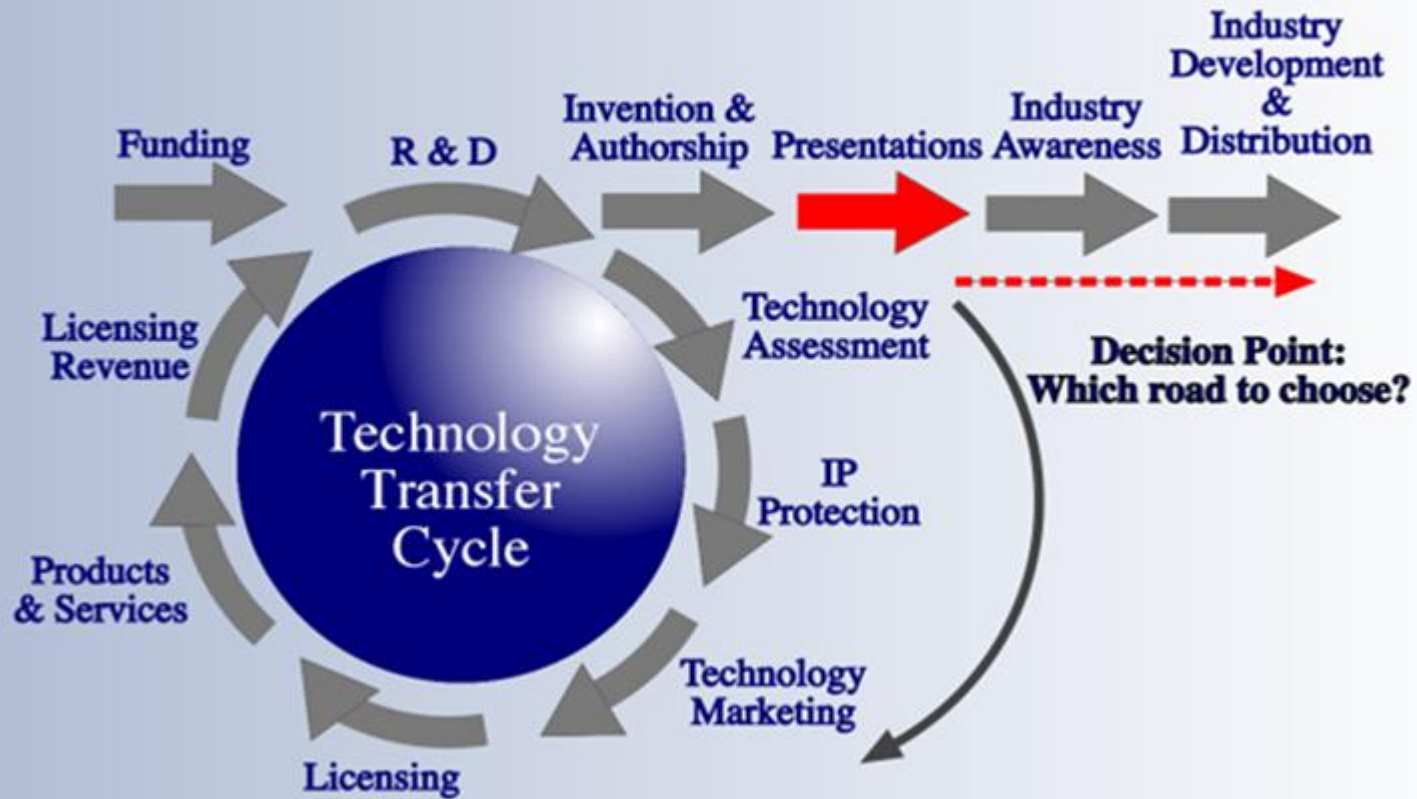
- Introduction
 - Transfer of information and transfer of knowledge
 - Kinds of technology transfer
 - Strategic partnerships
-

Transfer of information and transfer of knowledge

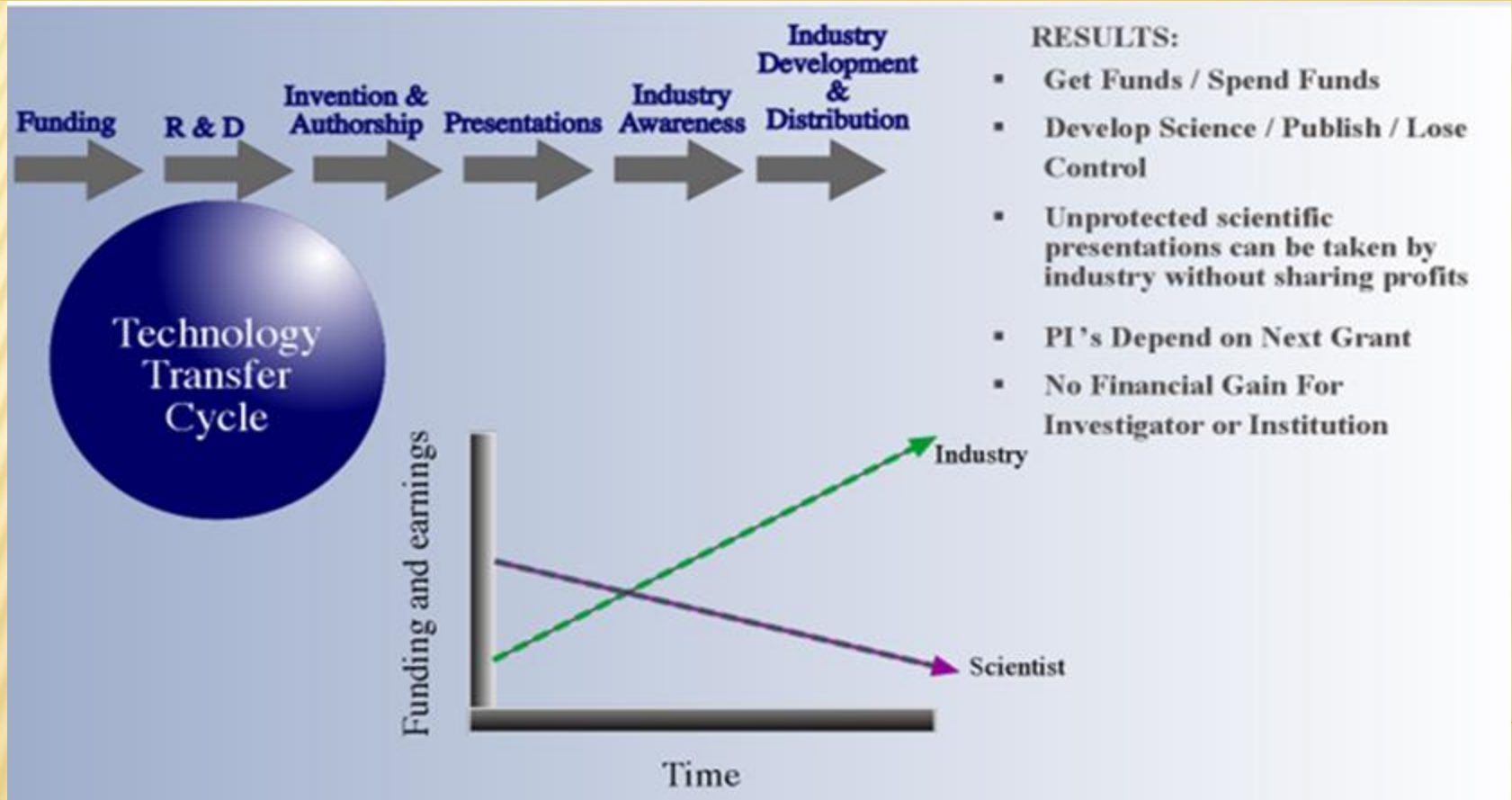
There are three basic types of new knowledge creation:

- Improvements
 - Use
 - Innovation
-

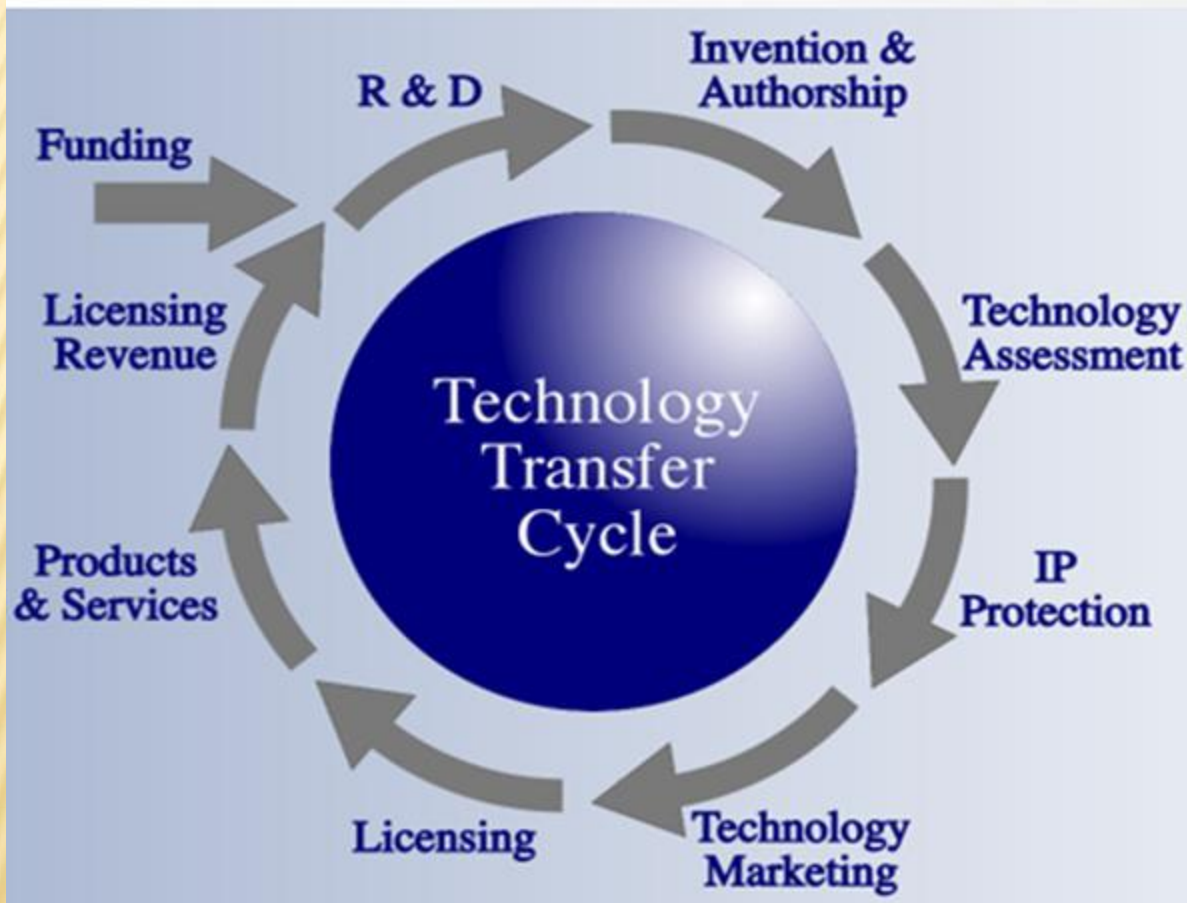
Commercial and non-commercial technology transfer



Non-commercial technology transfer



Commercial technology transfer



Kinds of technology transfer

- License,
 - Scientific parks,
 - Agencies,
 - Hiring of experienced workers,
 - Research clubs,
 - Consultation firms
 - Other
-

Examples



Podpora podniků na dosah ruky



Enterprise Europe Network Česká republika

Projekt je podporován Rámcovým programem pro konkurenceschopnost a inovace



Hlavní strana » Transfer » Nabídky a poptávky technologií



English

Hledat

Inovace a technologický transfer

Bývalé Innovation Relay Centre

Aktuality

Akce

Naše služby

Technologické sektory

Nabídky a poptávky technologií

Ochrana průmyslového vlastnictví

Úspěšné projekty

Ke stažení

Užitečné odkazy

Kontakty na partnery

Vstup do databáze
nabídek a poptávek technologií

Registrace AMT

Nabídky a poptávky technologií

Hledáte či poptáváte novou technologii nebo technické řešení? Pokud ano, je Vám k dispozici databáze nabídek a poptávek technologií sítě Enterprise Europe Network, do které je přístup zdarma. Dostanete se do ní proklikem z menu po levé straně nebo kliknutím [sem](#).

Technologie

Strojírenství, materiály a dopravní technologie

Biotechnologie a medicína

Informační technologie

Potravinářství

Alternativní energetika

Textil

Životní prostředí

Micro & Nanotechnologie

Examples

Technology Offer

Title:

Method to produce second generation biodiesel (Ref: 09 ES 27F4 3FCR)

Abstract:

A Spanish biotechnological company, through its Industrial division, has developed a new technology to obtain biodiesel from crude glycerine through microbial fermentation. The company is looking for biodiesel producers interested in alternative uses for waste glycerol in order to reach a Licence agreement or a Technical cooperation agreement.

Description:

This technology has been developed thanks to the company's technological platform that enables to identify quickly and efficiently micro-organisms and enzymes from the company's own exclusive collection that might be capable producing metabolites of interest, the platform also offers state-of-the-art technology to develop and optimize bioprocesses.

The company has developed a specific type of micro-organisms that can metabolize large quantities of raw glycerine during their development. These micro-organisms produce oil with similar composition to those oils used in biodiesel production, sunflower oil for instance. This oil accomplishes the European Regulation 14214.

The resulting microbial mass contains more than 50% of its dry weigh as fatty material and the resulting microbial oil can be extracted by common extraction methods and then incorporated to the biodiesel production process; or the microbial mass could be directly incorporated, either.

Innovations and advantages of the offer

This new technology is an example of how biotechnology can lead to development of new processes, improve already existing ones, reduce by-products generation, save costs and reduce environmental impact and offers an alternative to treat waste glycerol.

Current and Potential Domain of Application

Biodiesel producers and any other waste glycerol-producer companies



List of Keywords

Technology

- ✦ Renewable Sources of Energy
- ✦ Unconventional and Alternative Energies
- ✦ Biochemistry / Biophysics
- ✦ Enzymology / Protein Engineering / Fermentation
- ✦ Microbiology

Market

- ✦ Alternative Energy
- ✦ Other Energy

Current Stage of Development

Available for demonstration - field tested

Exploitation of RTD Results

Private Research

Collaboration Type

- ✦ License Agreement
- ✦ Adaptation to specific needs
- ✦ Technical consultancy

Comments

- Type of partner sought: Biodiesel Companies and Biodiesel Engineering Companies
- Specific area of activity of the partner: Biodiesel Production and Biodiesel Plant Engineering
- Task to be performed by the partner sought: Implementation of the technology in biodiesel production plants

Examples

Navigate - Gateway to
the World of Nanofibers



Příklady

A world map is shown in the background, with 12 member portraits and their names and affiliations placed over various geographical locations. The members are:

- Alexander L. Yarin, University of Illinois at Chicago (USA)
- Gregory Rutledge, MIT (USA)
- Ladislav Mareš, Nafigate a.s. Liberec (Česká republika)
- Oldřich Jirsák, Technical University of Liberec (Česká republika)
- Akihiko Tanioka, Tokyo Institute of Technology (Japonsko)
- Behnam Pourdeyhimi, North Carolina State University (USA)
- Andreas Greiner, Philipps Universität Marburg (Německo)
- David Lukáš, Technical University of Liberec (Česká republika)
- Masaya Kotaki, Kyoto Institute of Technology (Japonsko)
- George Chase, University of Akron (USA)
- Jürgen Binzer, Hollingsworth & Vose Company (Německo)
- Jong Chul Park, Finetex (Korea)
- Toshihiro Hirai, Shinshu University (Japonsko)
- Seeram Ramakrishna, National University of Singapore (Singapur)

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*Advisory Committee
cooperation from 2006 -2007*

Příklady

Tuesday November 06 2012

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Dogs have extremely sensitive sense of smell in comparison with humans, and therefore are utilized in many sectors - by seismologists, the customs authorities,...

Efficient liquid filtration with nanofibrous membranes
10/28/2012
Nafigate introduces novel nanofiber membranes for microfiltration. Nanofibrous membranes exhibit high surface area and

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15:11 úterý 6.11.2012

Examples



<http://www.jic.cz/>



<http://www.inovacentrum.cvut.cz>

Strategic partnerships

- forms :
 - License,
 - Supplier relationships,
 - Outsourcing,
 - Joint venture,
 - Collaboration off joint-venture,
 - Research and development consortia,
 - Industrial clusters,
 - Innovation networks
-

Motivation for partnership

Risks

Importance of trust

Example of successfully functioning partnership:

Nonwovens Cooperative Research Center (NCRC)

<http://www.thenonwovensinstitute.com/ncrc/>

Limitations and barriers for technology transfer

- Confidentiality of information
- Fear of Competitors
- „Myths“

Examples:

Swarovski, Preciosa / vs. Elmarco

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