Linking mechanism of research results to practical application

Promotion Program
for Potential Technology Seeds
from Academia research institutions.

September 15th, 2009

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Department of Industry-Academic Collaboration

Japan Science and Technology Agency

Program: Tech Transfer Activities

10:00-	**Overview of JST's Technology Transfer Activities**	
	Competitive Funding Programs	
10:10-	☐ **New Technology transfer Program "A-STEP"**	**Bottom-up**
10:20-	☐ **Strategic Promotion of Innovative Research and Development**	**Top-down**
10:35-	☐ **Comprehensive Support Programs for Creation of Regional Innovation**	**Regional**
10:50-	**Q&A(1)**	
	Intellectual Property & Various supports	
11:00-	☐ **The Circumstances of IP surrounding Japanese Universities and Our Mission**	**IP**
11:15-	☐ **Strategic support for acquisition and licensing of IPR**	**IP**
▶ **11:30-**	☐ **Linking mechanism of research results to practical application**	**Supports**
11:45-	**Q&A(2)**	

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OUTLINE

1. Linking results to practice

2. Technology transfer planners

3. Forms of support ① - ⑤

4. When an application is rejected

5. What applicants have needed - stats

6. Supported applications - stats

7. Achievements - stats

8. Case example

9. Technology transfer support in JST

1. Linking results to practice

Promotion of Technology Transfer
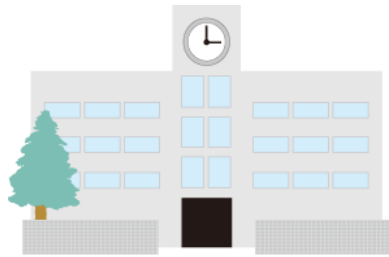
Our Support

Research Results

Practical Application

- Give information by report
- Provide financial support to add data
- Search company to tie-up
- Get another research fund…

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2. Technology transfer planners

- Large experience of R&D in industry
- Deep knowledge in special fields
- Experience of commercialization of product

They give advice from view of industry.

① Sending a technology transfer expert report to the applicant

良いシーズをつなぐ知の連携システム（つなぐしくみ）
目利きレポート
200X.XX.XX 作成

課題名： 「○○○○○○○○○○○○○○○○○○○○○○○」
申請者： －－－－大学 －－－学部 －－－学科
－－－－ 准教授

General summary

Patentability

Technological dominance

Market information

Possibility of practical application

Necessity to add data

Company information

JST 独立行政法人
科学技術振興機構 イノベーション推進本部 産学連携展開部（産学連携担当）
TEL： 03-5214-7519 E-mail： tsunagu@jst.go.jp

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3. Forms of support

② Providing financial support to gather data

If necessary, we provide financial support

- To gather further data
- To make a prototype
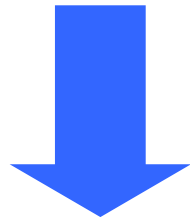
- Make a presentation using the data
- Demonstrate using a prototype
- Elevate research phase

3. Forms of support

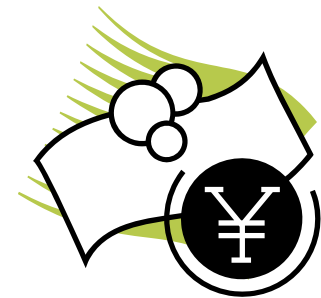## ③ Giving information about companies which are appropriate to tie-up

Information is from

- Analyzing market and patent information
- Drawing patent maps
- Using search engines
- Collecting information from newspapers or journals customarily
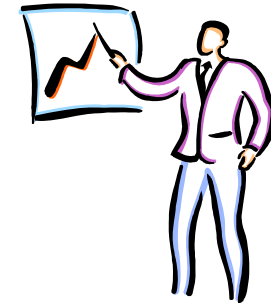- Attending fairs and gather information

3. Forms of support

④ Arranging presentations toward industry

Innovation JAPAN

New Technology Presentation Meetings

3. Forms of support

▼Disclosure on the Internet

J-STORE

http://jstore.jst.go.jp/EN/

Technical Eye

http://jstore.jst.go.jp/cgi-bin/techeye/top.cgi

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3. Forms of support

⑤ Offering information about research funds and advice for application

- Seek adequate research funds
- Give information about the funds
- Advise how to write an attractive application

Most of research funds

which aim at practical development

need to be applied with company.

So we must find company to co-application!

4. When an application is rejected

Research Results after patent application
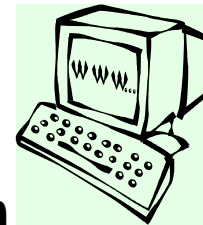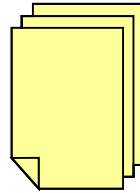
Application

Low Possibility

Patentability Possibility of Practical Application

High Possibility

Result of Evaluation and Analysis < END >

Continuous Support

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4. When an application is rejected

平成〇〇年〇〇月〇〇日

〇〇　〇〇様

独立行政法人科学技術振興機構
〇〇　〇〇

「良いシーズをつなぐ知の連携システム（つなぐしくみ）」

に関わる評価分析結果通知について

拝啓
　平素は格別のご高配を賜り、厚く御礼申し上げます。
　さて、このたびは「良いシーズをつなぐ知の連携システム（つなぐしくみ）」にご申請いただきまして、ありがとうございます。ご申請いただきました課題について評価分析した結果を、下記のとおりお送りいたしますのでご査収ください。本通知を今後の研究開発にご活用いただければ幸いです。

敬具

－ 記 －

以下の申請課題につきましては、特許成立可能性または展開可能性の評価が低いため、本事業によるさらなる評価分析・支援を実施しないこととなりました。

課題名　：　〇〇〇〇〇〇多孔質膜を用いた△△△△△△△△△△△太陽電池

特許成立可能性
　〇〇〇〇〇〇利用して〇〇〇〇〇〇用の電極を作製する技術には、類似先行技術として特開〇〇〇〇－〇〇〇〇〇〇などがありますので、特許成立のためには、それらを意識した修正が必要になる可能性があります。

展開可能性
　〇〇〇〇〇〇太陽電池は、今後、発展が期待されますが、これに関する研究が多種行われておりますので、それらの中で本技術を採用するという企業の立場では、〇〇〇〇〇〇法を用いる方法など他に研究されている技術に対するより一層の優位性が求められるものと思われます。

その他
　〇〇〇〇プロセスで高性能太陽電池が作製できるということであれば、実際に実用的な〇〇〇〇〇〇上に太陽電池を形成し、"〇〇〇〇〇〇太陽電池"としての機能について、効率その他のデータを揃えることが第一に重要な点と考えられます。また、装置コストだけではなくランニングコストに直接関わる原材料費についても検討することが望まれます。本申請においては、研究進捗状況について十分に記述されていない部分もありますが、まずは実験室レベルで基礎データを取得し、優位性を検証する必要があるものと思われます。

以上

＜本件に関するお問い合わせ先＞
産学連携展開部（産学連携担当）
Tel 03-5214-7519、E-mail tsunagu@jst.go.jp

Patentability

Possibility of practical application

The other information

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5. What applicants have needed - stats

Opportunity of presentation 3%

Evaluation of patentability 9%

Information about research funds 13%

Financial support 37%

Information about company to tie-up 22%

Evaluation from view of market 16%

FY2008

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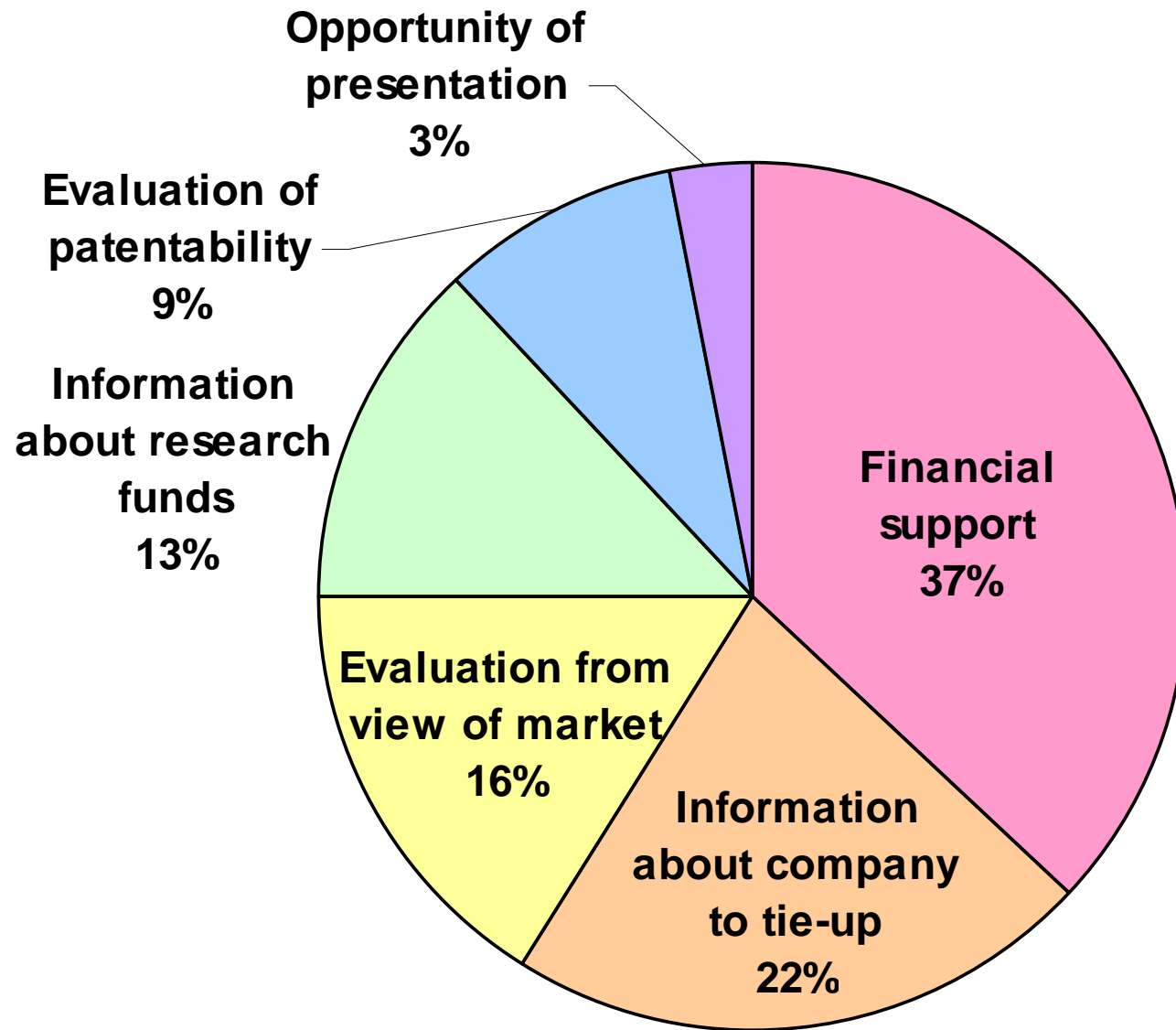
6. Supported applications - stats

FY2007-2008

Applications	469
Technologies we're supporting	124
Applications to other research funds	36
Presentations to industry	60
Introductions of companies, Negotiations to tie-up	216

7. Achievements - stats

FY2007-2008

Getting another research funds	9
Samples to companies (Requests to test in practical application)	22
Collaborative research with companies	44
License patents	8
Commercialization	4

8. Case example

• Advice on effectively presenting at "New Technology Presentation Meetings."

• Identified companies appropriate for tie-up and invited to "New Technology Presentation Meetings."

• One company interested, later licensed and sold test reagent.

• Another company made MTA (Material Transfer Agreement) and conducted evaluation.

• Supported in applying for other research funds.

9. Technology transfer support in JST

Universities

Public research institutes

TLOs

Seminar

- New Technology Presentation Meetings
- Open Innovation Seminar
- Development of human resources

Web service

- J-STORE
- e-seeds.jp
- Industry-Academia -Government Collaboration Portal

Innovation JAPAN - University Fair

Consultations about technology transfers

Linking mechanism of research results to practical application

Support for the acquisition of patents

Licensing

IP Strategy Planning

Center for Intellectual Property Strategies

Business Start-ups

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9. Technology transfer support in JST

Seminar

New Technology Presentation Meetings
Presentations from academia to industry
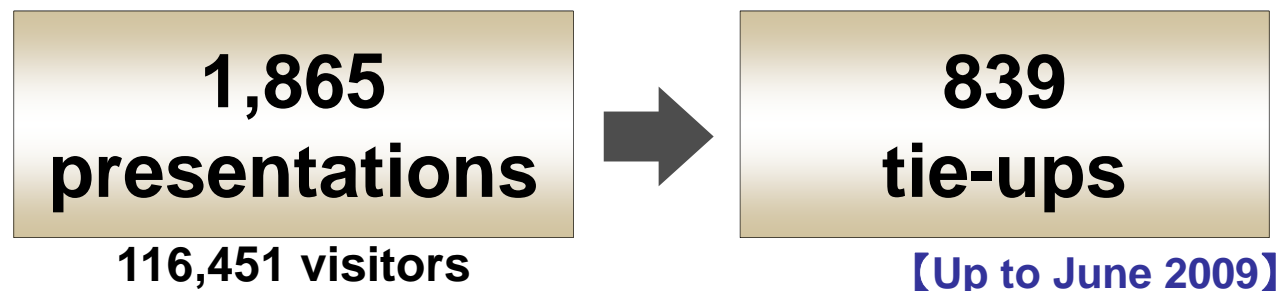
| 1,865 presentations | → | 839 tie-ups |

116,451 visitors

【Up to June 2009】

Open Innovation Seminar
Presentations from industry to academia

| 7 times 22 presentations |

There is no data of achievements yet.

【Up to now】

Seminar

Development of human resources

Training programs to promote industry-academia-government collaboration

- Acquisition of basic knowledge

- Sharing of technology transfer practical expertise and progress

- Formulation of human networks

**149 times
3,544 participants**

【Up to June 2009】

9. Technology transfer support in JST

Web service

J-STORE http://jstore.jst.go.jp/EN/

Database disclosing research results
from academia that can be licensed

> **18,260 disclosures**

【Up to June 2009】

e-seeds.jp http://e-seeds.jp/

Search website specialized for universities' research results

> **117 institutes**
> **About 53,000 seeds**

【Up to June 2009】

Industry-Academia-Government Collaboration Portal
   http://sangakukan.jp/

Portal site which gathers exhaustive information
on industry-academia-government collaboration

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Consultations about technology transfers

By telephone, e-mail, and interview

2,909
consultations

【Up to June 2009】

9. Technology transfer support in JST

Innovation JAPAN 2009 – University Fair

Date : September 16 – 18, 2009   TOKYO INTERNATIONAL FORUM

Very big and important annual exhibition of research results from universities organized JST and NEDO

- Exhibitions
- New Technology Presentation Meetings
- Innovation JAPAN Forum 2009

| 5 times 1,937 displays | → | 1,309 tie-ups (425 displays) |

Last year report
【Date】September 16 - 18, 2008
【Exhibitors】471
【Universities】151 (Japan), 3 (Asia)
【Visitors】45,345 (3 days total)

Thank you for listening!