IPR Issues in collaborative research and technology transfer

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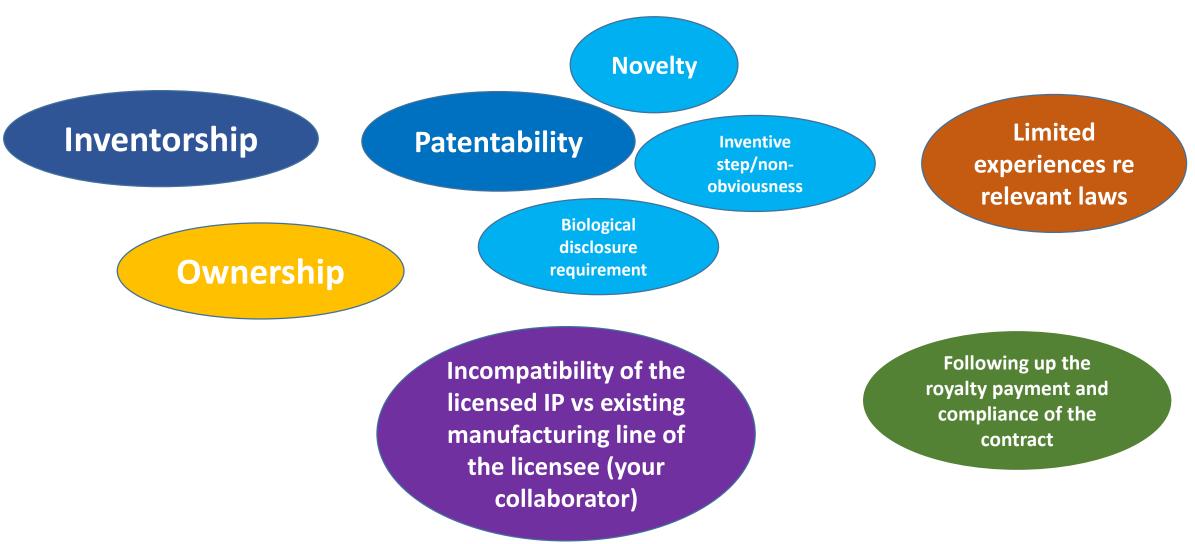
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What are common IPR issues in educational and research environment?



Selected common IPR issues in the educational and research environment



Points of Discussion

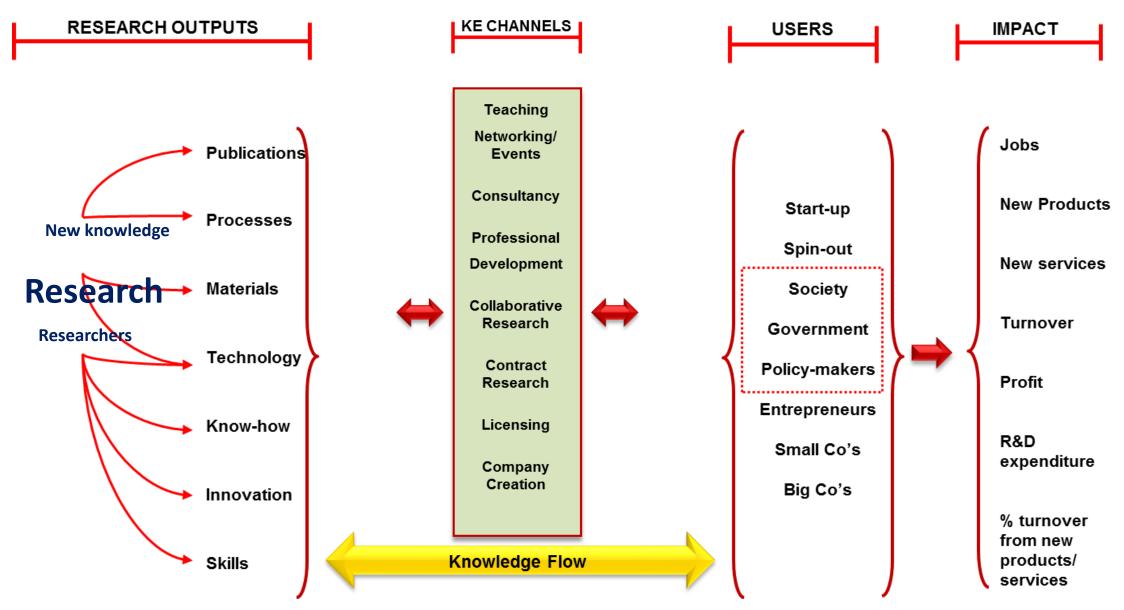
Model of knowledge exchange and transfer

Common IPR issues under collaborative research

NSTDA Case study

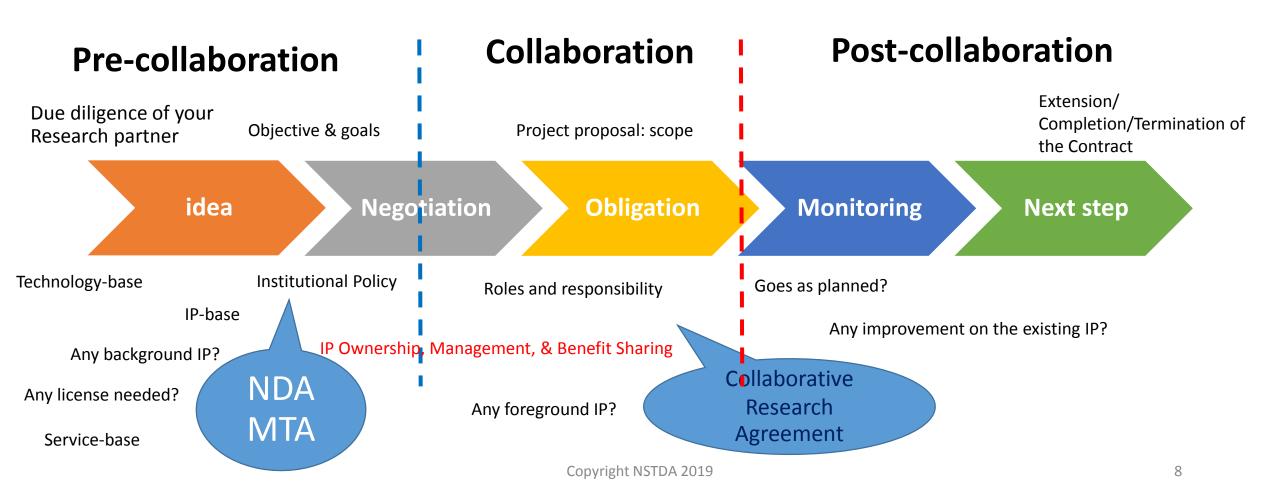
Model of Knowledge Exchange and Transfer

Model of Knowledge Exchange and Transfer



Common IPR issues under collaborative research

Value Chain of Collaborative Research



Pre-collaborations

Research Agreements

- Are you or your research partner obligated to any sponsor of your research?
 - It is important to clear the ownership issue with your research sponsor (s).
- Any national law requirement/compliance?
 - E.g. The Thai Patent Act: a written prior consent from the joint owner for any commercialization of the jointly owned patent is required.
- What does your institutional IP Policy say?

Materials Transfer Agreements (MTAs), Confidentiality Agreements (CDAs)

Key issues: "obligation under the MTAs"

- Does your invention contain any 3rd party materials?
- Was your invention developed from the 3rd party confidential information?
- Do terms of any relevant MTAs or CDAs restrict any use of the materials, licensing, or commercialization of the invention?
 - MTAs for research use vs commercial use

Licensing Agreements: Is the invention already licensed?

Collaborative Research

Collaboration

- Scope of the work ->
 Background IP and Foreground IP
- Management of any IP arising from the collaboration
 - IP relevant costs: Patent filing (national vs PCT), litigation, infringement
- Benefit Sharing: monitoring?

Post-Collaboration

- Monitoring the use of the licensed IP (if any)
- Any improvement of the existing IP?
- Treatment of the residual parts of the transferred materials after the agreement is over.

NSTDA Case Study

Case Study One: A license of the formula of Thai Economic Preservative for Rubber Sheet "BeThEPS"



BeTHEPS provides the same benefit of extending Shelf life by eliminating the coagulation and putrefaction problems. It does not have the detrimental side effects associated with ammonia and sodium sulfite.



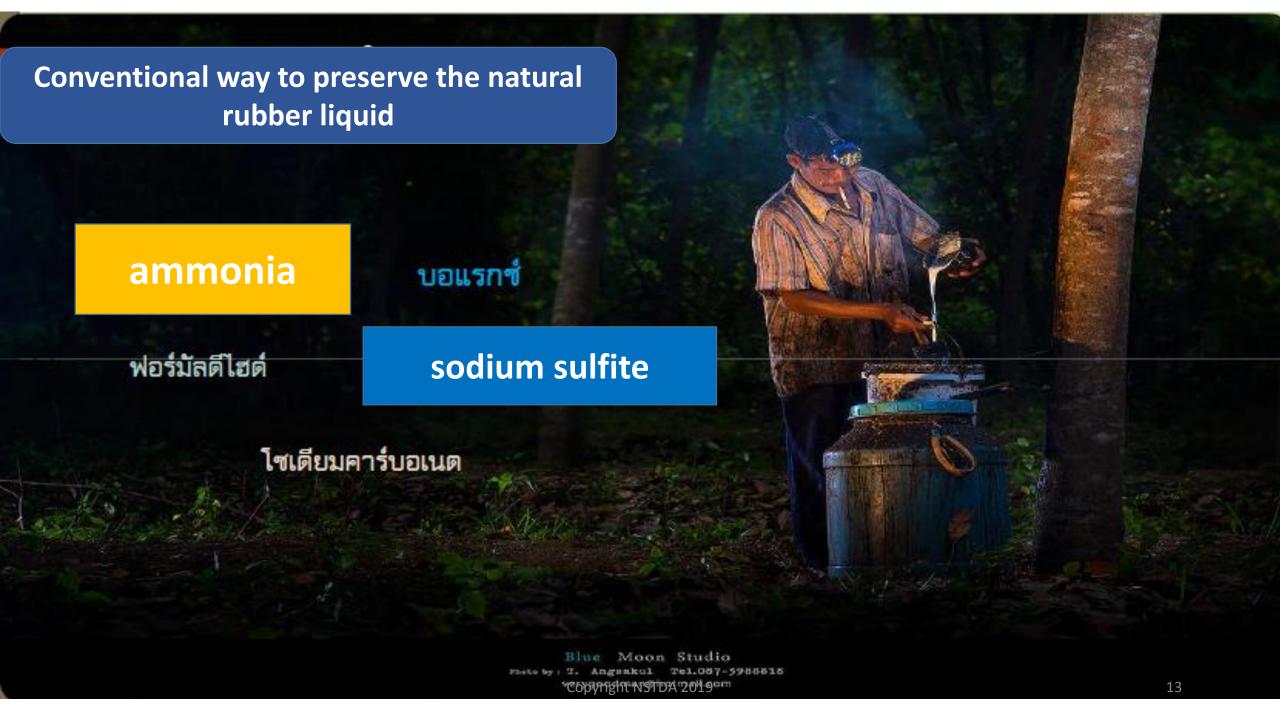


Title: Formula to extend shelf life of NR liquid for the purpose of rubber sheet production



Trade Secret: TS60MT00105

Title: Process to prepare BeThEPS



Rubber Sheet Production Process









Cause of the property loss before converting to a rubber sheet



Rubber field is far from the Rubber sheet plant.

Limited production capability



Timeline: "BeThESP"

Technology Transfer

Licensee#4

May 2018

Talk and Training for user in different

location

Technology

Awareness and

growing market

demand

Licensee#3

April 2018



Licensee#2

Mar 2018

Seminar @ NAC2018

Licensee#1

Dec 2017

Research Finished PR & Marketing

Field Test

Copyright NSTDA 2019

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Mechanism for Tech Transfer at NSTDA

NSTDA: National Research Centers

National Center for Genetic Engineering and Biotechnology National Metal and Materials Technology Center National Electronics and Computer Technology Center

National Nanotechnology Center











NSTDA S&T Infrastructure

Promoting Innovation in Thai industries - Physical Hubs

Access to Infrastructure

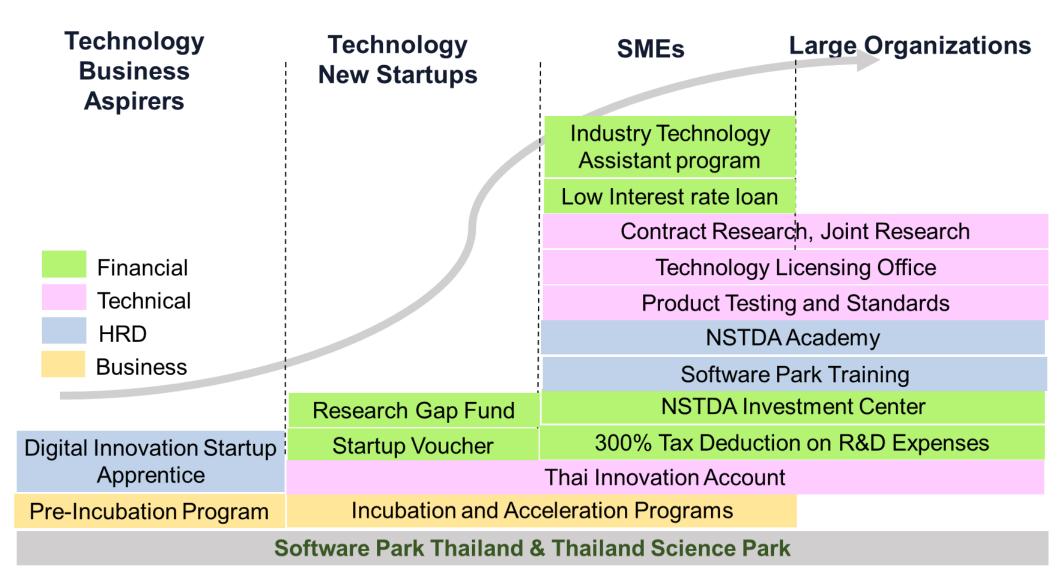
Access to Knowledge

Access to Capital

Access to R&D Network



NSTDA Supporting Mechanisms for STI & TTO



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Technology Transfer

An in-wall Incubatee



Innovation of KEEEN Ltd.

Innovation: Bioremediation Agent to resolve the industrial waste treatment problem prior to discharge to nature.

Awards:

- Awards from International Technology Expo 2012, Malaysia, May 2012
 - Gold Medal
 - Excellent Biotechnology Innovation from Japan
 - Excellent Environment Innovation from China
- ➤ Gold Medal from 8th Taipei International Invention Show and Technomart, Taiwan, September 2012
- Grand Prize 2012 from Asian Science Parks Association, October 2012

Technology Transfer

An out-wall Incubatee



GIB: Green Innovative Biotechnology

Innovation: Natural ingredient Agricultural related products for plants and animals without chemical or Antibiotic



Year	Agencies	Activity	Result
2006-08	NSTDA/ITAP	Formulation, Product Development and testing	Commercilization Product
2014-15	NSTDA/BIC	Consultant on Operation, Organizational and Marketing	Effective Org structure and clearer marketing strategy and plan
2015	NSTDA/LIF	Business Model, Internationalization and Pitching workshop	Business model Revision with international mindset. Becoming effective presentation and
2015-16	NSTDA/BIC	Pitching on domesic and International competitions stages	Won reputable domestic and international Awards. Expanded market into China.

Take away messages

- "Trust" in your research partner is important
- Make sure you have your ideas/invention protected properly
- Ownership should be clear no matter you go for collaborative research, work for hire, or other forms of business transaction
- Check your institutional policy (IP policy, Conflict of Interest Policy, National IP laws)
- Seek for professional advice if needed





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