Ecosystem of Innovations: bridging gaps

Экосистема инноваций: преодоление разрывов

Dmitry Pebalk, Skoltech
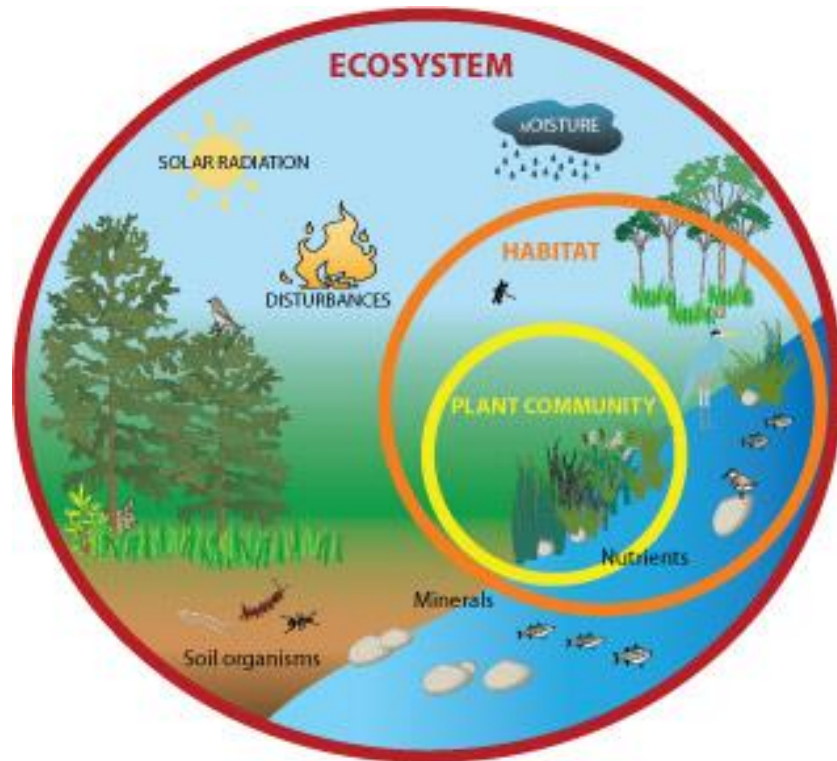
Дмитрий Пебалк

Сколковский институт науки и технологий

Декабрь, 2015

**Роль исследовательской инфраструктуры в поддержке инноваций.
Мировой опыт**

Ecosystem

- ✓ Participants
- ✓ Resources
  - ✓ Internal
  - ✓ External
- ✓ Communities
- ✓ Interactions
- ✓ Regulations
- ✓ Policies
- ✓ Diversity
- ✓ Disturbances
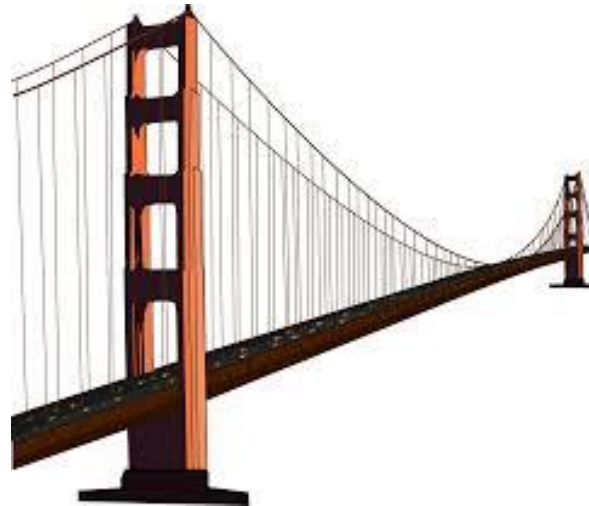- ✓ Barriers
- ✓ **Gaps**

Fundamental gap

Science

Business Industry

Knowledge

Discovery

Paper

Laws of nature

Long term

Uncertainty=opportunity

…

Profit

Application

Product

Market

Short term

Risk

…

Skoltech
Skolkovo Institute of Science and Technology

ISIS lessons

University technology transfer resource

University entrepreneur culture
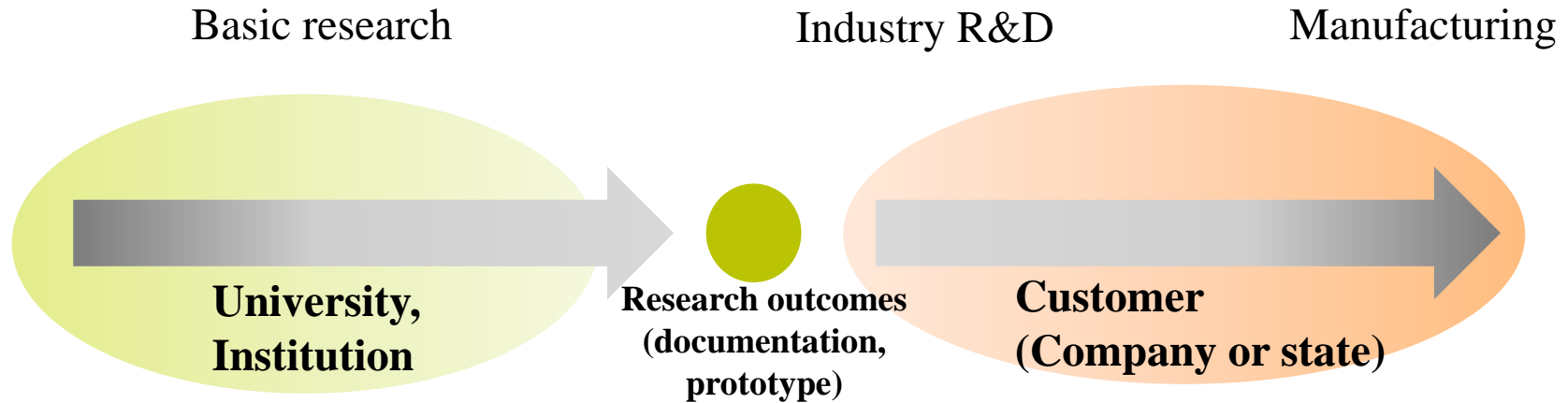
Business & professional environment

- Universities and Businesses are very different; a university is not meant to be like a company, nor a company designed to be like a university; remembering this helps when trying to bring them together

http://isis-innovation.com/

Skoltech
Skolkovo Institute of Science and Technology

Transfer of research to industry

Basic research   Industry R&D   Manufacturing

**University,
Institution**

**Research outcomes
(documentation,
prototype)**

**Customer
(Company or state)**

Skoltech
Skolkovo Institute of Science and Technology

Why Translational Research (TR) and Proof of concept (PoC)?

	Basic research	TR, Proof of concept	Applied research
Motivation	Understanding of world	Changing the world (impact)	Solving technical task
Infrastructure	Research lab	Research lab	Industry Lab and Pilot facility
Technical specification	Just as a direction of studies	Usually changed with time going	Fixed as a project goal
Project management	Rarely used	Recommended	Common practice
Outcomes	Papers and talks, knowledge transfer through teaching	Feasibility demonstration and PoC (prototype)	Technical data (product or process datasheet)

Skoltech
Skolkovo Institute of Science and Technology

Experience @ Skoltech

Skoltech Translational Research and Innovation Program was based in 2011 with support of the MIT to bridge the gap between laboratory and marketplace, and to drive innovation and entrepreneurship in Russia.

The Program provides critical support for participating teams to help establish proof of concept and provide assistance with advancing their technology towards commercialization, including pre-start up identification of high potential market opportunities, intellectual property management, and, if appropriate, team development.

Skoltech
Skolkovo Institute of Science and Technology

Thank you for your attention!

**We invite you to learn more
about CEI&Skoltech!**

www.skoltech.ru/innovation
sip.skoltech.ru