

Center for Entrepreneurship and Innovation – core element of Skolkovo Tech vision

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Developing Innovative Technological Entrepreneurship
at Universities

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SkTech

Skolkovo Institute of
Science and Technology

SkTech at a Glance

- A unique Russian institution in an international context
- 200 faculty, 300 post-docs, 1200 graduate students by the end of the decade
- Polarized around science and technology
- Addressing problems and issues in IT, Energy, Biomedicine, Space and Nuclear
- With strong programs in support of innovation and entrepreneurship
- On a new campus, to be build in Skolkovo
- An important part of the Skolkovo innovation ecosystem



Massachusetts Institute of Technology Cambridge, Massachusetts



LIST

Wood Baling Pavilion

Mission and Goals

- To have educational, scholarly and economic impact in the Russian Federation and around the world,
- using a fusion of exceptional talent in a new university at Skolkovo
- by educating leading graduate students and conducting research programs to address key challenges in science, technology and innovation.

Vision

SkTech will be a central element of the innovation ecosystem of Skolkovo, attracting, educating and engaging the best talent from within the Russian Federation and overseas, interacting closely with research laboratories, ventures, enterprises and industrial partners, and helping to create a crucible of economic and entrepreneurial activity based on the application of science and technology.

SkTech

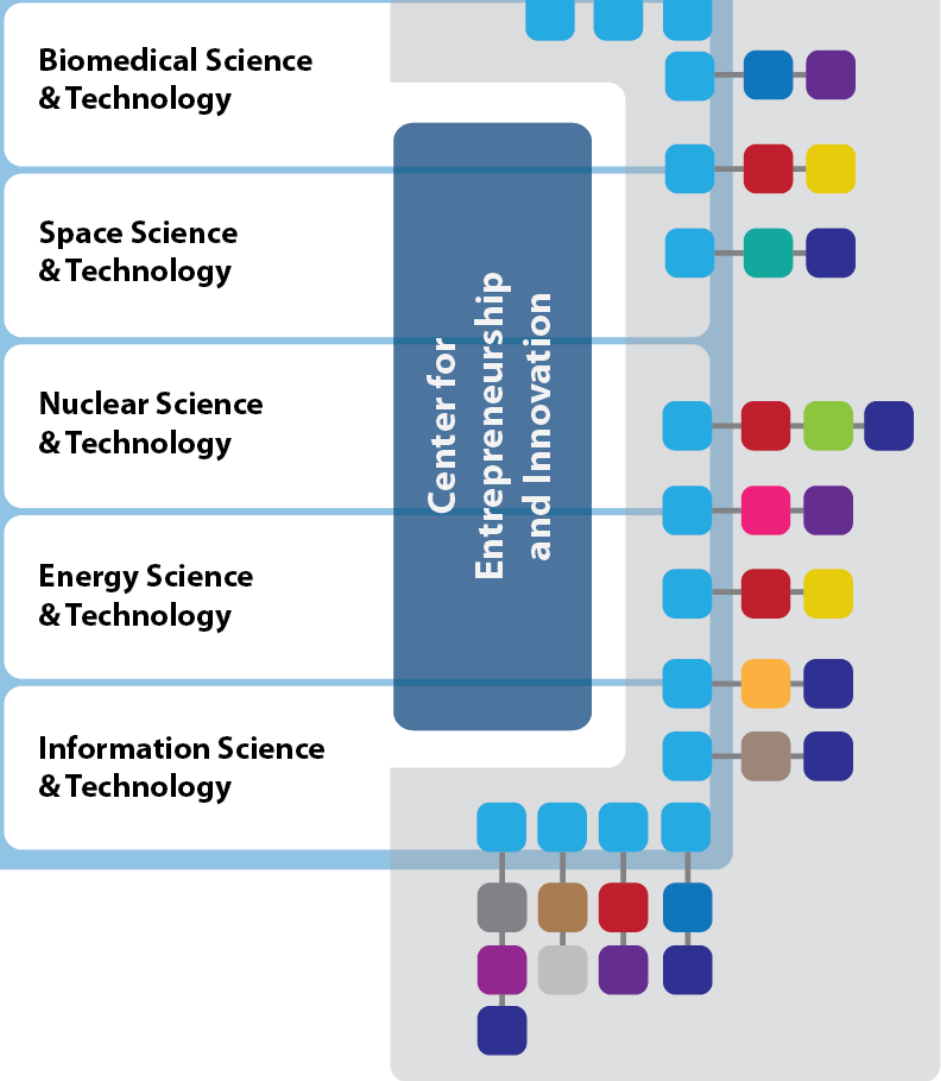
Skolkovo Institute of
Science and Technology

Organized around Problems and Opportunities

- Highest quality Research and Education in 5 domains
- Engagement with industry – exchange of knowledge and ideas
- Support for innovation and entrepreneurship
- Interdisciplinary or ***Post Disciplinary*** organization

RESEARCH CENTERS

SkTech
Skolkovo Institute of Science and Technology



■ SkTech
■ MIT
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Russian and international institutions

SkTech Triple Helix



Education

Research

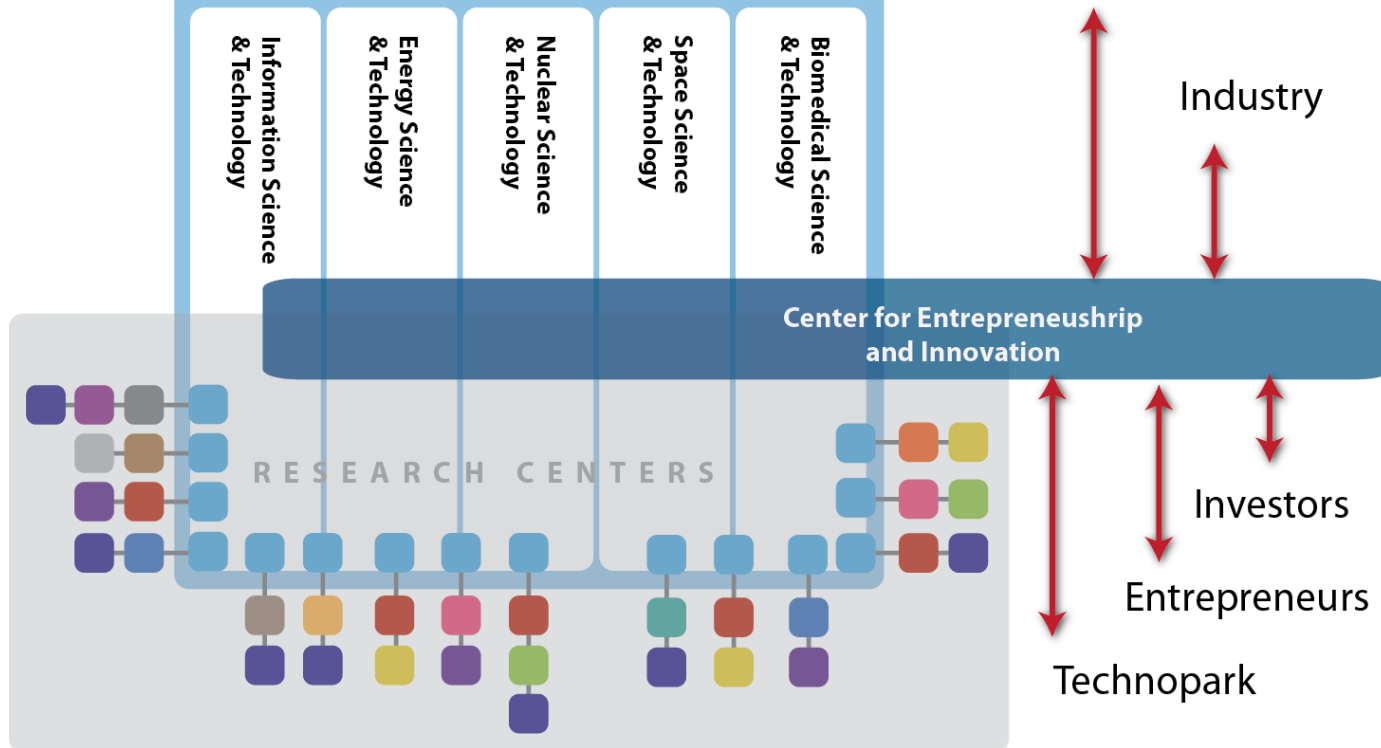
**Innovation and
Entrepreneurship**

SkTech

Skolkovo Institute of
Science and Technology

SkTech

Skolkovo Institute of Science and Technology



CEI Mission and Goals

- SkTech Mission Statement says:
“To have educational, scholarly and **economic** impact in the Russian Federation and around the world...”
- How does a university make economic impact on the society?

Knowledge Exchange

- Universities impact society through **knowledge exchange**:
 - Education (students, faculty and staff)
 - Research with consideration of use
 - Innovation → Commercialization

CEI Pillars

Education

- Curriculum to support SkTech M.S. degree E&I requirement
- Cross disciplinary initiatives
- Informal education and training

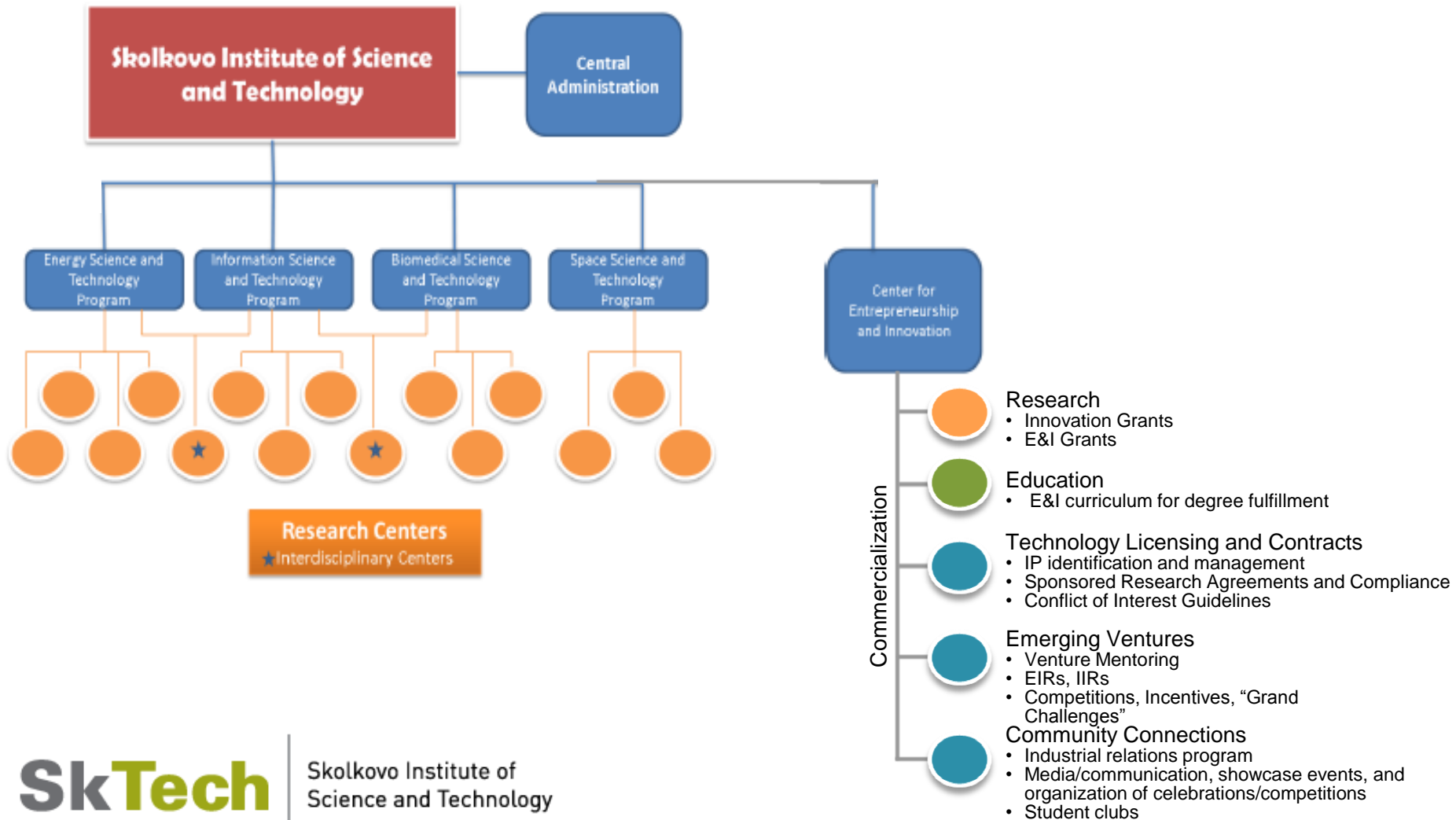
Research

- Innovation Sponsorship Program
- Research into the management and practice of E&I

Commercialization

- IP management
- Linking funding, research and commercialization; managing policies and conflict-of-interests
- Nurture emerging ventures
- Connections within and external to SkTech
 - Industrial liaison
 - Student clubs
 - Events
 - Competitions

CEI@SkTech Organization



CEI@SkTech Organization



Commercialization



Research

- Innovation Sponsorship Program
- E&I Research



Education

- E&I curriculum for degree fulfillment



Technology Licensing and Contracts

- IP identification and management
- Sponsored Research Agreements and Compliance
- Conflict of Interest Guidelines



Emerging Ventures

- Venture Mentoring
- EIRs, IIRs
- Competitions, Incentives, “Grand Challenges”



Community Connections

- Industrial relations program
- Media/communication, showcase events, and organization of celebrations/competitions
- Student clubs

Goals: Education

- To create and deliver at SkTech an integrated graduate education, which fulfills important learning outcomes in knowledge, skills and attitudes for research, innovation and entrepreneurship
- First year goals:
 - To define the learning outcomes for our students
 - To define the structure of the academic programs
 - To define the broad composition of the course level curriculum, and associated outcomes
 - To benchmark deeply at least 4 other universities that have common educational goals
- August 2012: pilot 1-month course on I&E at MIT for pre-pilot class of SkTech students

E&I Education

- A hands-on education centered on innovation and entrepreneurship (E&I)
- An education based on “useful knowledge” - the technical fundamentals necessary for E&I
- An education in the process of E&I
- An education in the skills of E&I
- An education that leads to the self confidence necessary for E&I
- A preparation for leadership

E&I Education: plans&ideas

- Robust faculty of 10-15 strong
- Dual track: academic and practitioners
- Integrated class environment
 - Business majors and engineers/scientists
 - Traditional and project-based approach
 - Open to external participation
- Emphasis on real world mixed-team projects
- Proliferation of non-traditional educational means
 - EiR, liR, mentors
 - Student clubs
 - Student competitions

Goals: Research

- Create research programs to address pressing needs of the society – research based upon fundamental science and technology, yet guided by a consideration of use
- CEI First Year Goals:
 - Run a pilot of Innovation Sponsorship Program (first stage is complete, more than 70 1st round applications collected). Target award date – 08.12
 - Establish framework for the research program in E&I, start search for faculty interested in establishing world-class E&I research program

Goals: Commercialization

- Technology licensing and contracts
 - IP identification and management
 - Sponsored Research Agreements and Compliance
 - Conflict of Interest Guidelines
- Emerging Ventures
 - Venture Mentoring
 - EIRs, IIRs
 - Competitions, Challenges, Incentives
- Community Connections
 - Industrial relations program
 - Student clubs
 - Media/communication, showcase events, etc.
- **DID WE COVER EVERYTHING?**

I&E - a 3rd part of the SkTech Triple Helix

- Focus on knowledge exchange
- Emphasize human elements of knowledge exchange, build relationships of trust and open communications
- Develop and sustain relationships with industry, Russian and international universities
- Engage industry to shape the research and educational program. Structure engagements with industry to better understand its needs
- All the above – supported by appropriate structures and processes

What is the CEI for?



Inspire, educate and facilitate
innovation and entrepreneurship