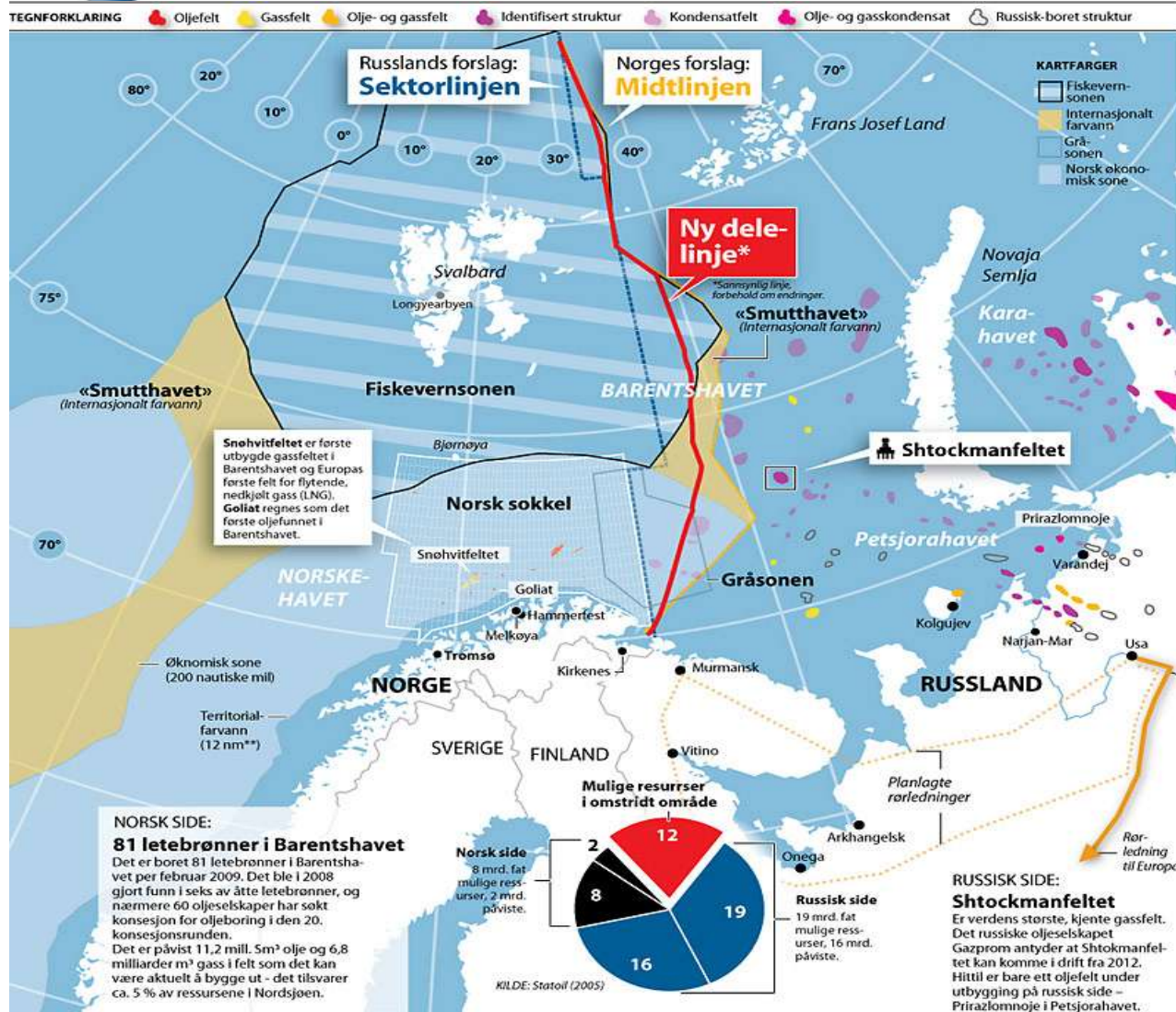




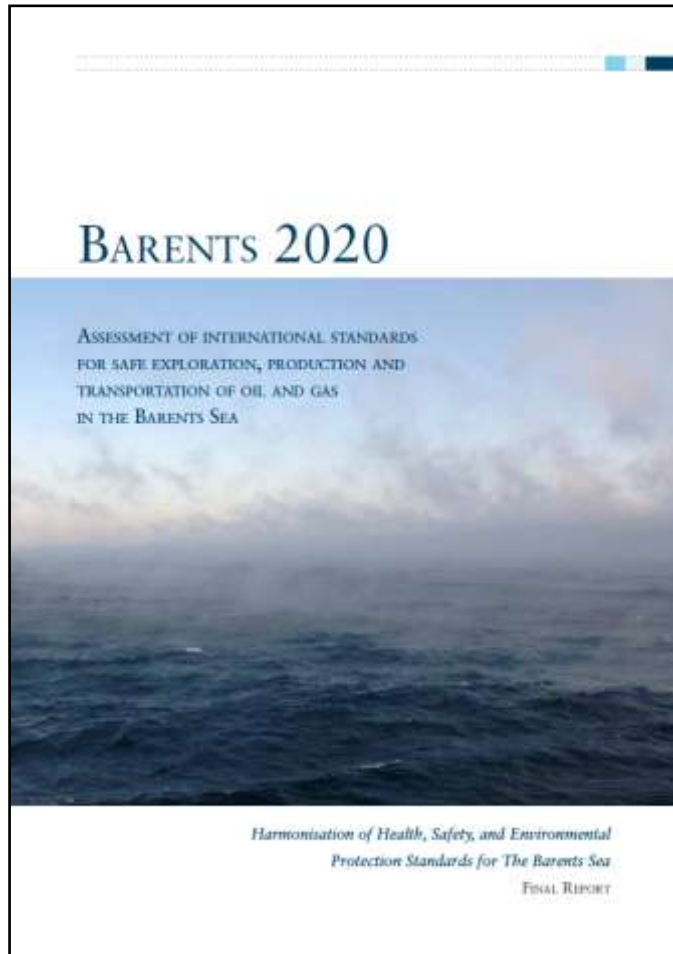
## Key Tendencies and Areas for Energy Developments of Russian Arctic Zone and their Pressure for Geoecological Risks Established Early

Roman Samsonov  
Head of Gas and Arctic  
SKOLKOVO  
Energy Center  
Salekhard, 1 of November 2017

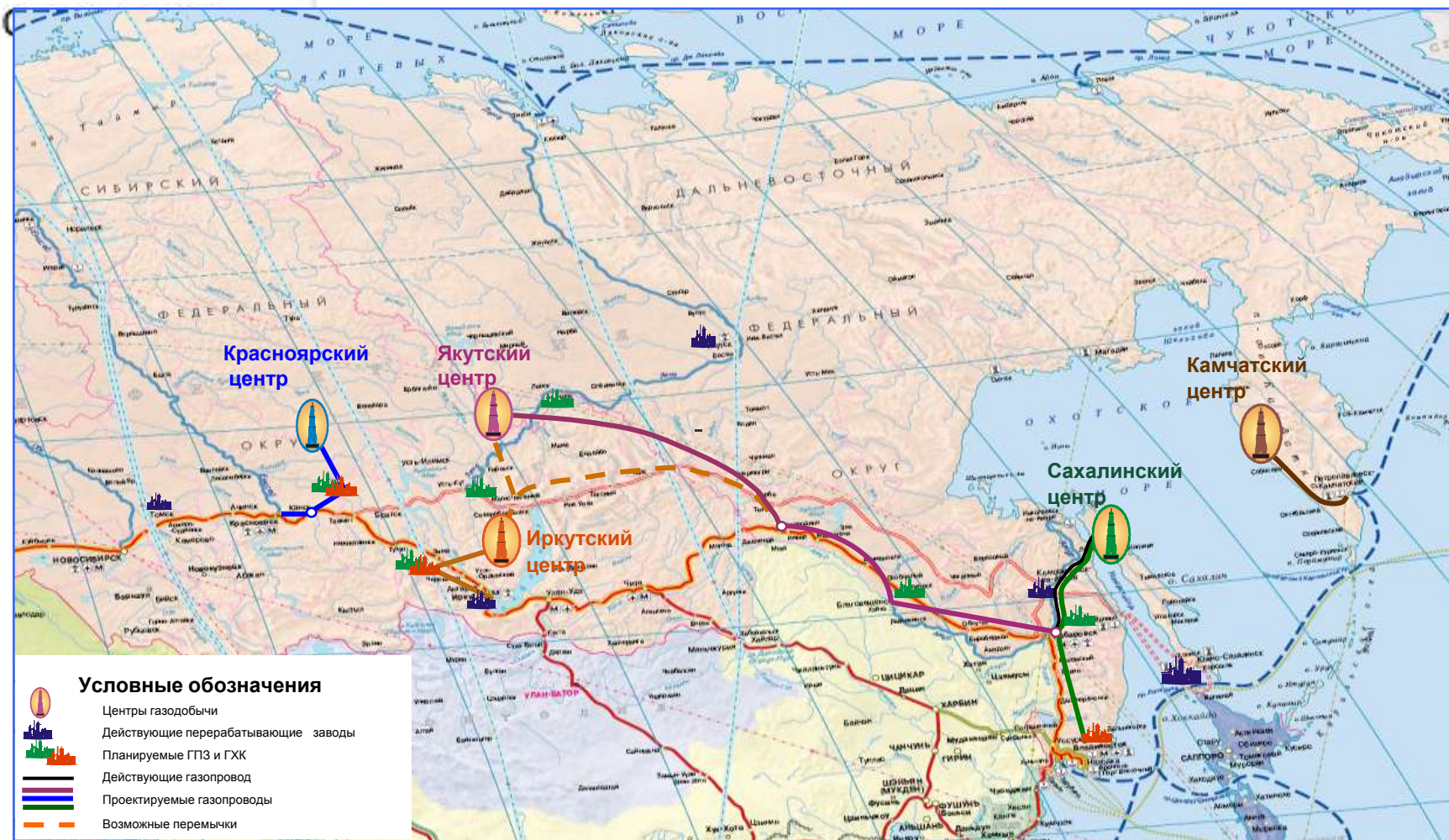
# Barents 2020



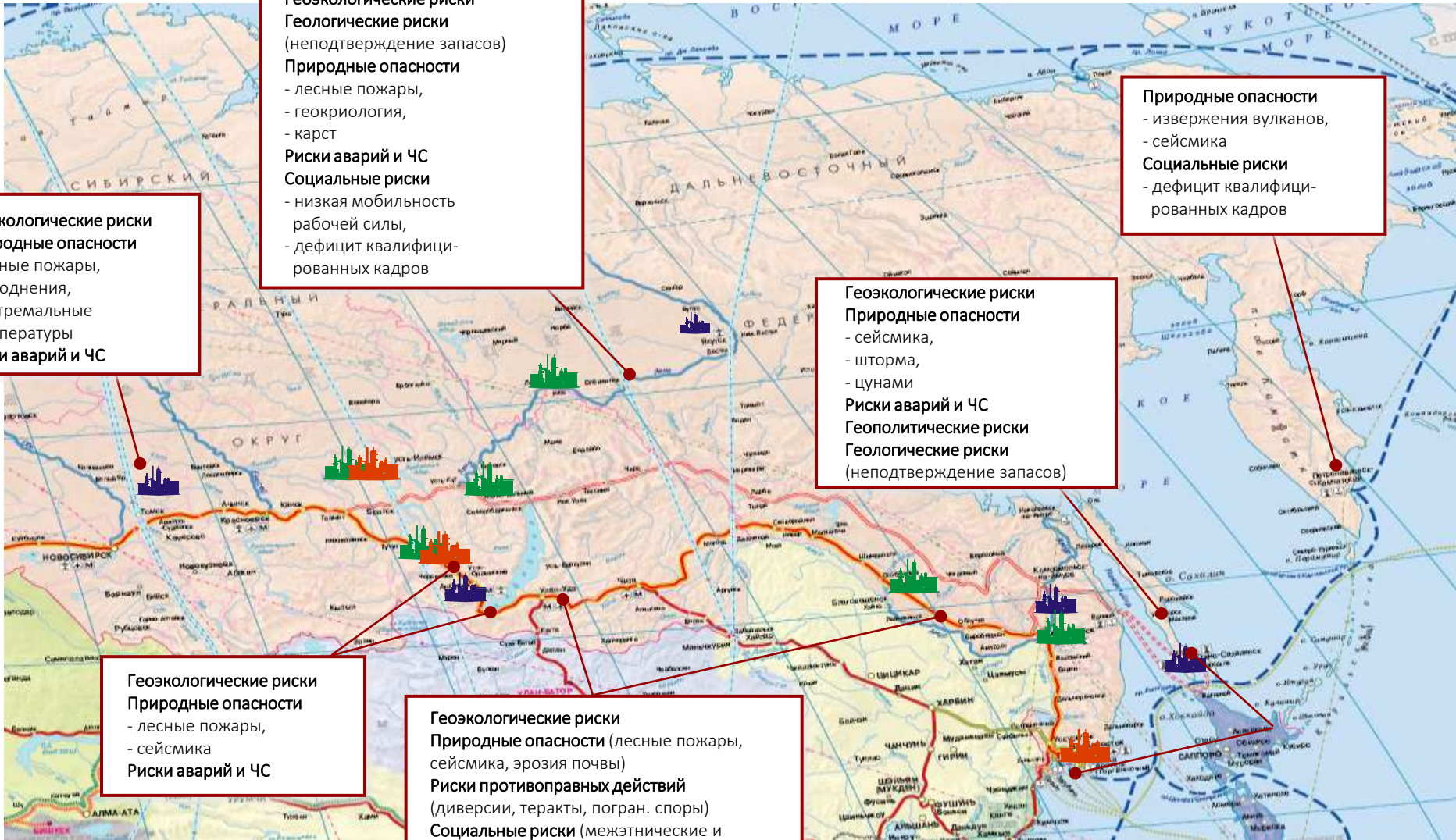
# Results of Barents 2020



# Gas Resources Developments Map Eastern Siberia and Far East



# Projects risks of Eastern Siberia and Far East Developments



**Геоэкологические риски**  
**Геологические риски**  
 (неподтверждение запасов)  
**Природные опасности**  
 - лесные пожары,  
 - геокриология,  
 - карст  
**Риски аварий и ЧС**  
**Социальные риски**  
 - низкая мобильность  
 рабочей силы,  
 - дефицит квалифи-  
 цированных кадров

**Природные опасности**  
 - извержения вулканов,  
 - сейсмика  
**Социальные риски**  
 - дефицит квалифи-  
 цированных кадров

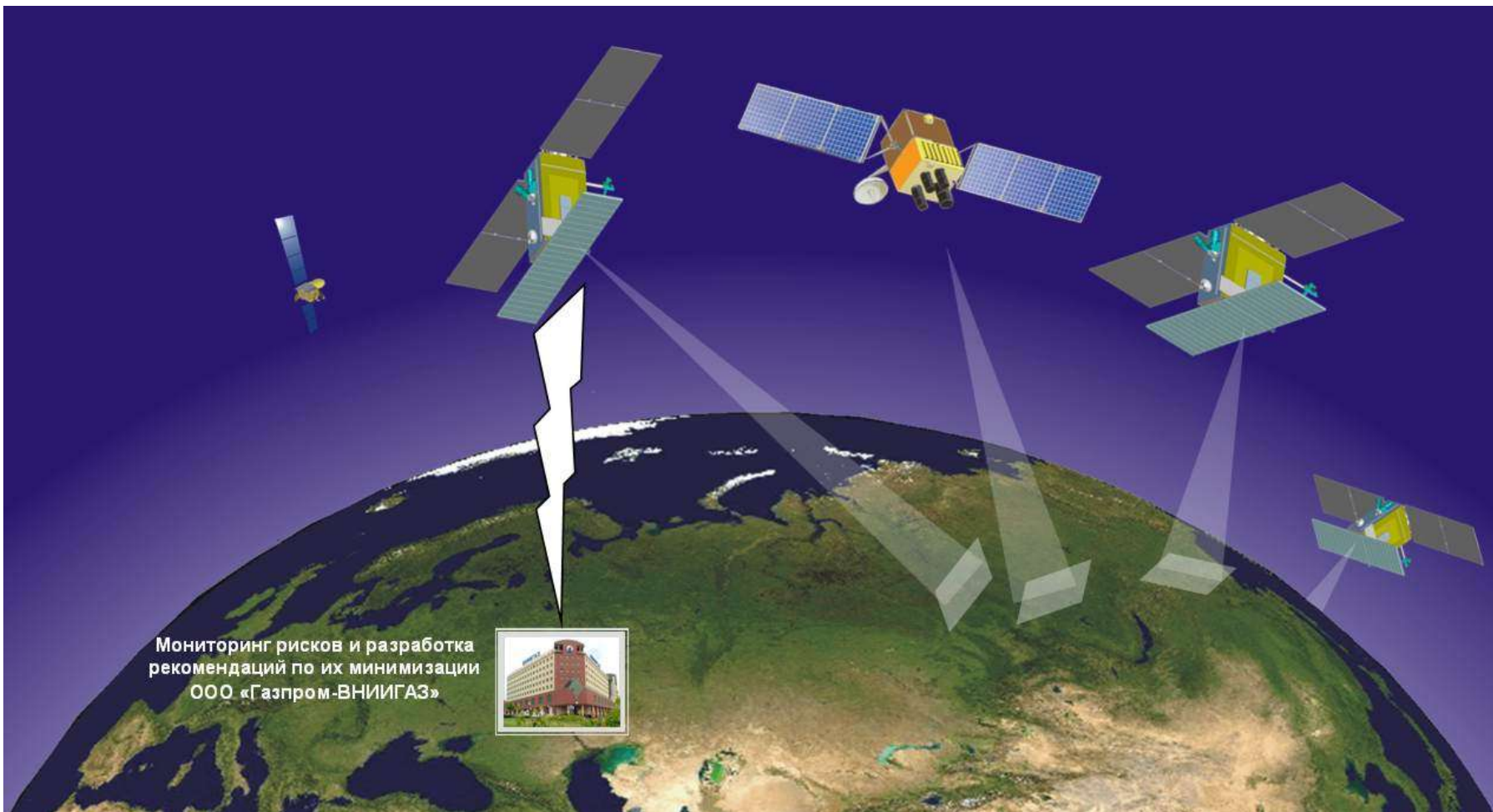
**Геоэкологические риски**  
**Природные опасности**  
 - лесные пожары,  
 - наводнения,  
 - экстремальные  
 температуры  
**Риски аварий и ЧС**

**Геоэкологические риски**  
**Природные опасности**  
 - сейсмика,  
 - шторма,  
 - цунами  
**Риски аварий и ЧС**  
**Геополитические риски**  
**Геологические риски**  
 (неподтверждение запасов)

**Геоэкологические риски**  
**Природные опасности**  
 - лесные пожары,  
 - сейсмика  
**Риски аварий и ЧС**

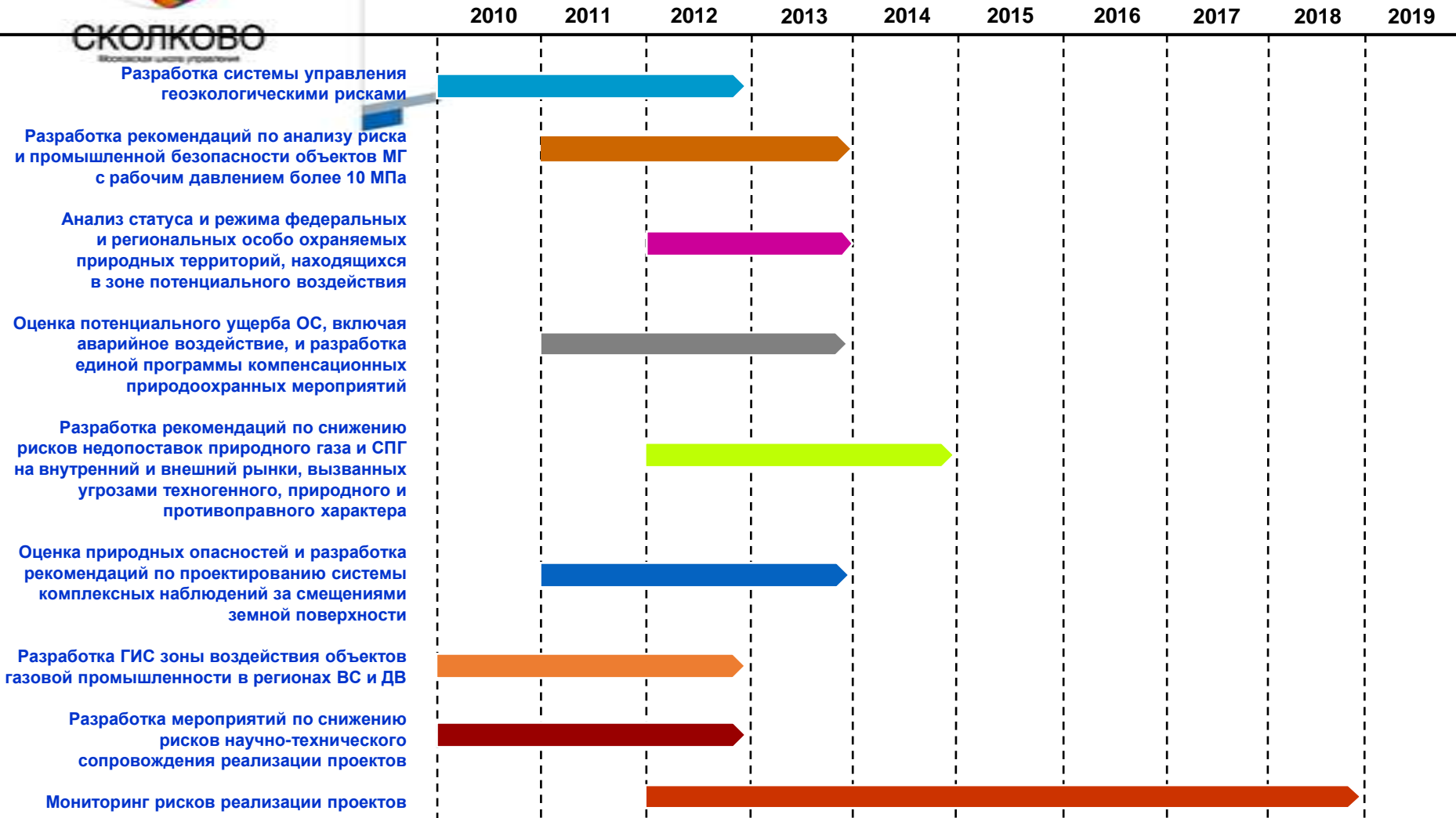
**Геоэкологические риски**  
**Природные опасности** (лесные пожары,  
 сейсмика, эрозия почв)  
**Риски противоправных действий**  
 (диверсии, теракты, погран. споры)  
**Социальные риски** (межэтнические и  
 межнациональные конфликты)

# Space monitoring



# График реализации мероприятий -

## Оценка и управления рисками реализации проектов



# Major Activities





# Open Research



- We conduct research on the most pertinent energy sector issues, utilizing top Russian and international experts
- Our research is publicly available, and distributed both in Russian and in English



*New energy policy*



*New technologies and energy sources*



*New business models and company strategies*



*Global oil market transformation*



*Transform global gas markets*



*New mobility*



*Internet of Energy*

# Outreach

- Open lectures on energy issues with the world's leading experts
- Expert roundtables
- Internships and scholarships for students
- Summer schools
- Youth forums
- Programs for high school students
- Conference presentations
- Social media, YouTube





# Educational Programs

- The target audiences for our Energy Center educational programs are high-level energy company personnel, including both operational and top-level management
- Our educational programs utilize the results of our consulting activity and our research
- Our educational programs are enriched with the expertise of the Energy Center team and invited experts of the highest level
- We offer a wide array of educational initiatives, ranging from one-day seminars to more comprehensive long-term programs
- Upcoming programs:
  - ◆ *Joint program with EDI «International Gas Business and Cooperation»*
  - ◆ *Energy Transition*
  - ◆ *Internet of Energy*
- SKOLKOVO has more than a decade of successful experience in implementing corporate programs. We number among our clients both leading Russian and international companies, as well as federal public authorities



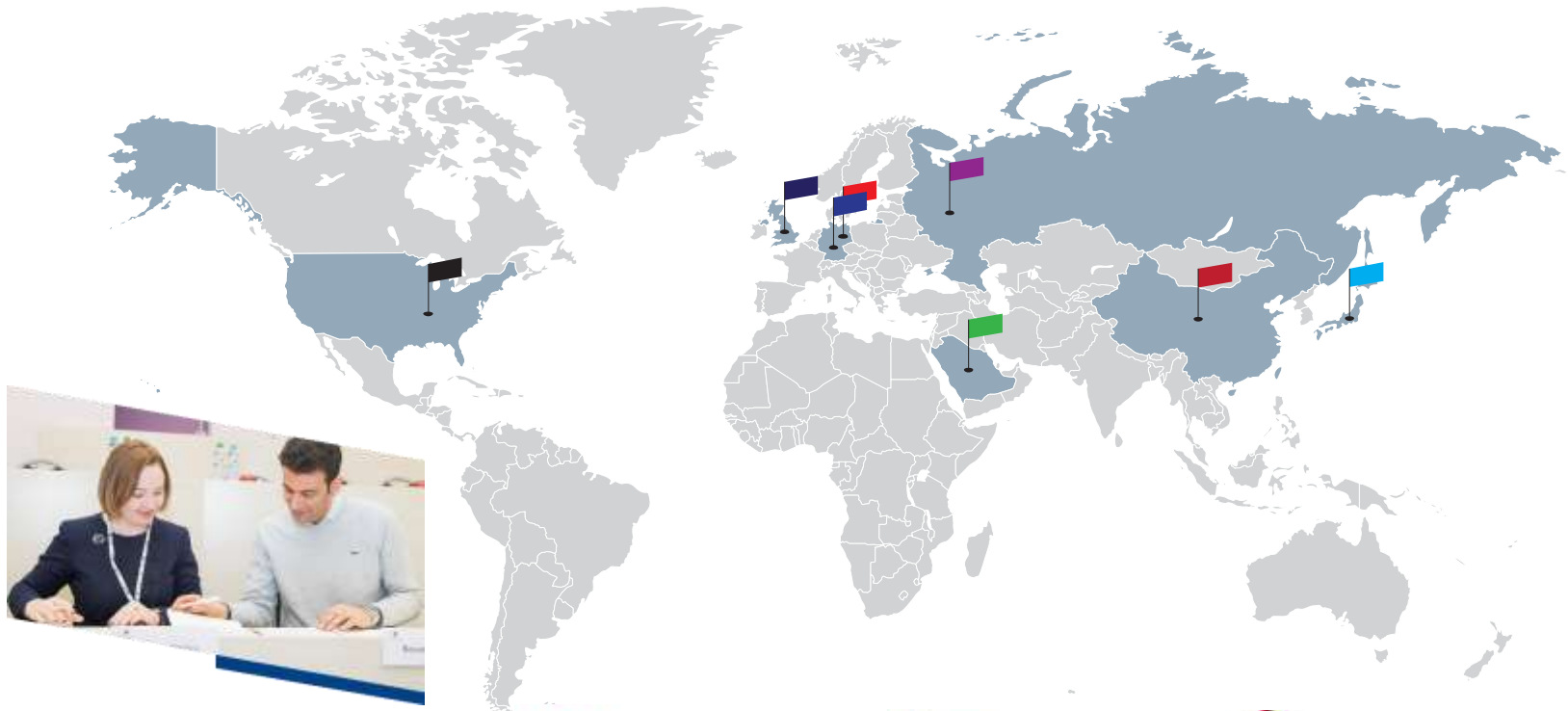
# Strategic Consulting for Companies and Public Authorities


- SKOLKOVO Energy Center engages in consultations with energy companies and develops recommendations for balanced sectoral public policy
- Our primary principles – independence and fairness
- Our main directions – market analysis, development of market strategies

- Our clients gain access to the qualitative expertise of our professional team, and obtain knowledge from **invited researchers** who are drawn from leading expert centers



# Partners Network




 Oxford institute of Energy

 **ERI**  
ERI China

 **ifri**  
IFRI, Paris

 **SKOLKOVO**  
SKOLKOVO

 **Center on Global Energy Policy**  
Columbia University, NY

 **KAPSARC**  
KAPSARC, Riyadh

 **IEE JAPAN**  
IEE, Tokyo

 **University of Groningen**  
EAE, Groningen

# SKOLKOVO Energy Club

SKOLKOVO Energy Club - a unique project in Russia that encourages industry leaders to exchange views via the platform of the SKOLKOVO Business School. 'Industry dialogues' of the SKOLKOVO Energy Club (e.g., regarding **gas, oil, power utilities**) provide an opportunity to discuss vital questions of the industry agenda via informal discussions

## Energy Club Activities:

Foresight sessions

Periodic sessions on essential industry challenges



# Energy Dialogues

- SKOLKOVO Energy Center is the best platform for informal international dialogue and expert meetings
- The events 2017:
  - ◆ *Oil Dialog*
  - ◆ *Gas Dialog*
  - ◆ *Russia - EU expert dialogue*
  - ◆ *Arctic dialogue*
  - ◆ *New energy dialogue*



# Energy Center TEAM



**Tatyana Mitrova**

*Director of the SKOLKOVO Energy Center*



**Marina Dedenko**

*Head of Development*



**Ekaterina Grushevenko**

*Researcher, Oil & Gas*



**Roman Samsonov**

*Head of 'Gas&Arctic Region' Research*



**Alexey Khokhlov**

*Head of Electric Utility Research*



**Artem Malov**

*Researcher, Oil & Gas*



**Yana Makarova**

*Coordinator*



**Zlata Sergeeva**

*Junior Analyst*



**Alexander Sobko**

*Analyst, Oil&Gas*



**Anastasia Golomolzina**

*Manager of the 'Internet of Energy' Project*





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