
MOSCOW
AGENCY OF
INNOVATIONS
DEPARTMENT OF SCIENCE,
INDUSTRIAL POLICY
AND ENTREPRENEURSHIP
OF MOSCOW
MOSCOW
OPEN
CHALLENGE
International
Open
Challenges

Target audiences

Goal To find and pilot-test best available solutions to address Moscow's needs; to provide tech companies with access to government customers

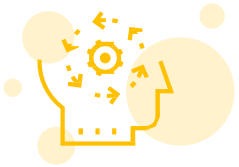
Target audiences:

Customers:

Moscow Government

Moscow-based state corporations and companies with state participation

Developers:



Tech companies

Drivers:

The need to upgrade the city's infrastructure; compliance (innovative products must account for at least 5% of Moscow's public procurement contracts)

Greater revenues due to the optimization of processes and the adoption of innovations

The acquisition of new customers; the establishment of long-term relationships with Moscow government departments and large companies

Open Challenges

OPEN CHALLENGE

Stage 1.
Initiation

Research on relevant urban issues; challenge definition

Stage 2.
Search

Scouting for solutions, collecting submissions, communicating with entrants, and building databases

Stage 3.
Expert assessment

1st round: online assessment of all entries and identification of finalists

2nd round: in-depth evaluation of finalists and selection of winners

Winner announcement

Stage 4.
Finalization

Challenge Initiator receives:
-a complete database of submissions
-an accompanying research report on relevant solutions and international practices pertaining to the challenge

PILOTING

Stage 1.
Pre-project activities

Testing site and timeline

Evaluation methodology and criteria

Agreement

Stage 2.
Testing

Testing

Stage 3.
Evaluation

Project evaluation and findings report

Gradual scaling up in Moscow

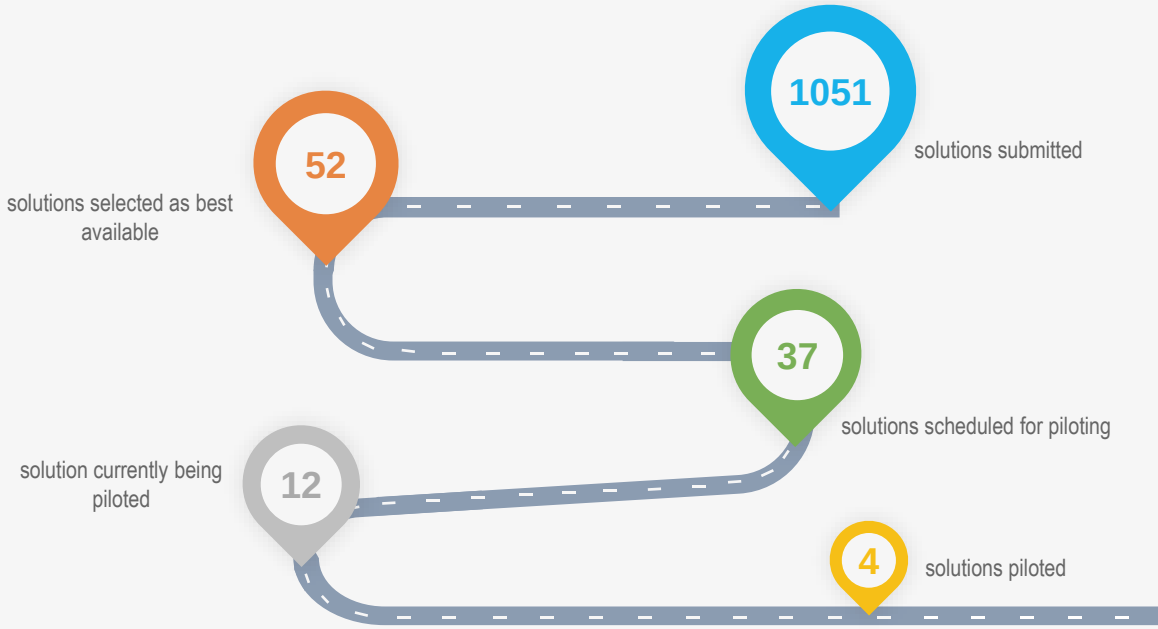
Results

2014-2017

37 challenges completed :

859 companies

- **324** international
- **304** Moscow
- **231** other regions of Russia



Plans 2017-2018

1 Running the International Open Challenges competition

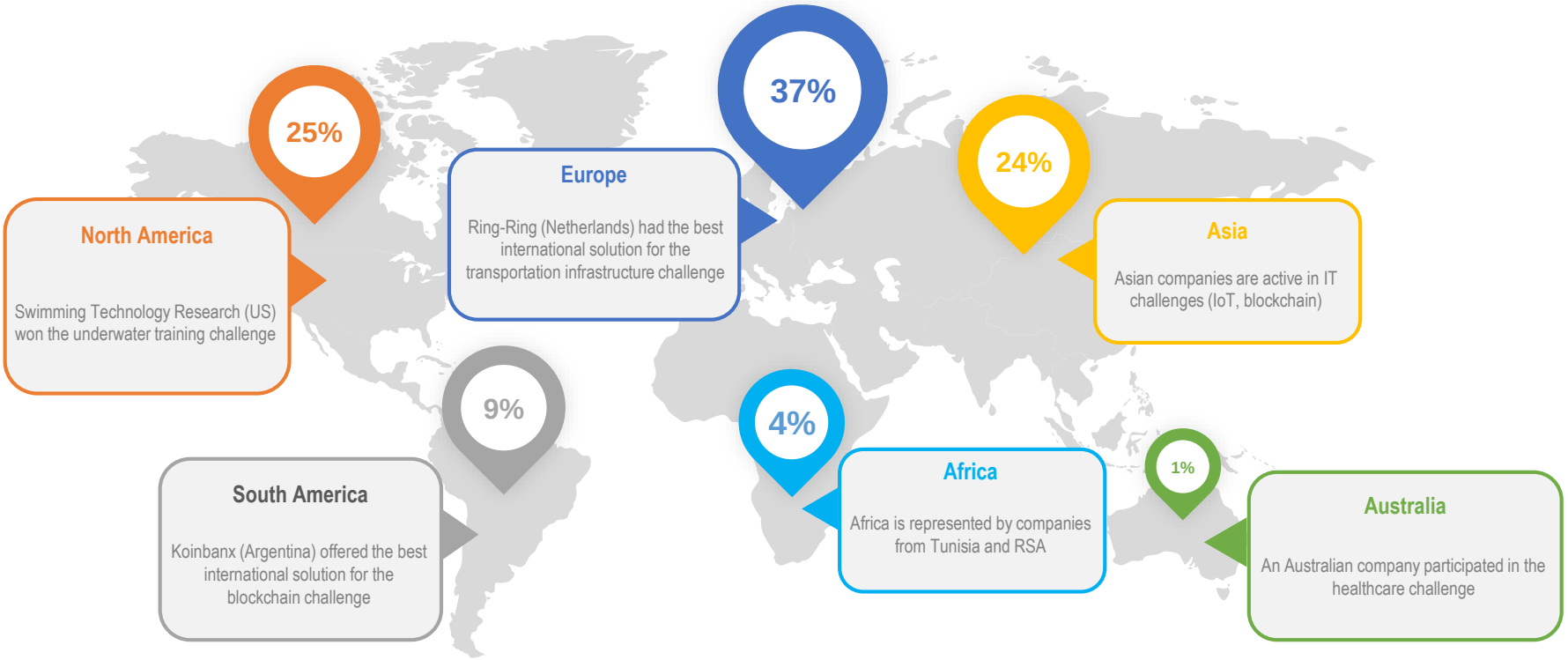
2 Expanding the pool of partners:
-strategic partners
-information partners
-finance partners

3 Strengthening the program:
-information support

International entrants

324
international entrants

535
Russian entrants



Partners

Strategic

IASP

Microsoft

Ростех

СБЕРБАНК

Rijksdienst voor Ondernemend Nederland

Finance

MOSCOW SEED FUND

ФОНД СОДЕЙСТВИЯ ИННОВАЦИЯМ

Sk Skolkovo

ИРИ ИНСТИТУТ РАЗВИТИЯ ИНТЕРНЕТА

Primer Capital

Infrastructure

go>tech

DEWORKACY КРАСНЫЙ ОКТЯБРЬ

Information

ЦИФРОВАЯ МОСКВА

GREAT BRITAIN & NORTHERN IRELAND

Open Challenges in progress

Pharmacy education

16.12.16 – 12.09.2017

Initiated by the Moscow Sechenov University

Stage - entry submission

Overhead power lines

22.12.16 – 25.09.2017

Initiated by FGC UES

Stage - entry submission

Green construction

23.06.17 – 15.09.2017

Initiated by the State Conservation Center

Stage - entry submission

Pedestrian areas and bikeways

23.03.17 – 29.09.2017

Initiated by the Traffic Management Center

Stage - entry submission

Augmented reality

21.06.17 – 30.11.2017

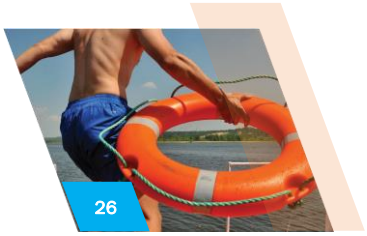
Initiated by Gorky Park

Stage - entry submission

1

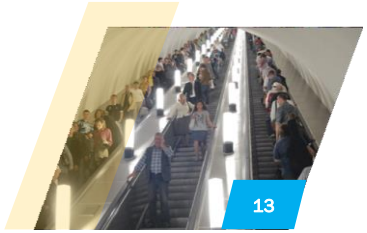
Completed challenges

(2014 – 2017)



Water safety

29.09.15 – 14.03.2017
Initiated by the Moscow Search and Rescue Service
Stage - entry evaluation

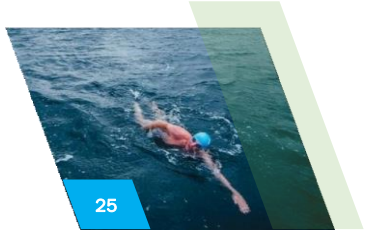


Metro air quality

04.12.14 – 24.02.2015
Initiated by the Moscow Metro
Stage - piloting

Wheelchair lifts

28.12.15 – 31.03.17
Initiated by Rehabilitation and Education Center #7
Stage - entry evaluation



Swimmer monitoring

13.04.15 – 08.02.2016
Initiated by the Sports Tech Center
Stage - piloting

Road surface coatings

25.12.15 – 31.03.17
Initiated by Rehabilitation and Education Center #7
Stage - entry evaluation

Firefighter safety

29.09.15 – 20.03.2017
Initiated by the Fire and Rescue Center
Stage - piloting

Children with special needs

25.12.15 – 10.04.17
Initiated by Rehabilitation and Education Center #7
Stage - entry evaluation

2

Completed challenges

(2014 – 2017)

Environmental services

01.06.16 – 20.09.2016
Initiated by the Dept. of Environment Management
Stage - piloting

Health monitoring

01.06.16 – 20.09.2016
Initiated by PTO
Stage - piloting

Disease prevention

01.06.16 – 20.09.2016
Initiated by the Healthcare Dept.
Stage - piloting

Internet of things

01.06.16 – 20.09.2016
Initiated by Rostelecom
Stage - piloting

Additive technologies

01.06.16 – 20.09.2016
Initiated by Rostech
Stage - piloting

Energy

01.06.16 – 20.09.2016
Initiated by FGC UES
Stage - piloting

Blockchain

01.06.16 – 20.09.2016
Initiated by Sberbank Technologies
Stage - piloting

3

Completed challenges

(2014 – 2017)

Infusion drips

31.03.16 – 28.02.2017
Initiated by the Moscow Sechenov University
Stage - piloting

Construction technologies

30.06.16 – 20.09.2016
Initiated by the Dept. of Urban Planning
Stage - piloting

Doctor-patient interaction

31.03.16 – 28.02.2017
Initiated by the Moscow Sechenov University
Stage - piloting

Elevators

30.06.16 – 20.09.2016
Initiated by the Dept. gf Public Utilities
Stage - piloting

Green certificates

16.12.16 – 31.05.2017
Initiated by Mosecomonitoring
Stage - piloting

Transportation

30.06.16 – 20.09.2016
Initiated by the Dept. of Transport
Stage - piloting

Navigation

31.03.17 – 05.06.2017
Initiated by Gorky Park
Stage - piloting

Pilot testing progress

Completed tests- 4

- Air crosswalk
- IPRO2 glucose monitoring system, MMT-7745
- Inter-bank information sharing system on scam artists
- SUREFUSER+ hospital infusion system

Tests in progress - 12

- Heterophasic powder laser metallurgy
- Zinoferr, an anticorrosive zinc silicate coating
- Samocat Sharing System
- Stay Clean, an anti-vandal hydrophobic protective coating Stay Clean
- ECOGLO-RUS, photoluminescent anti-slip pads
- Gradi-Standard, a stair-climbing wheelchair
- ElBraille, a computer for the visually impaired
- A mini projector for children with mobility impairments
- An insulin pump with continuous glucose monitoring function
- AquaChranitel, a water safety monitoring system
- A comprehensive life safety solution
- NaviGuide ,a personalized navigation system (demo test)

Scheduled for testing - 37

- Mobile physical monitoring kit
- DOMOFLEX lifting platforms
- FlexStep
- Color coating
- Advanced technologies and strategies for achieving the perfect swimming technique
- Improving the quality of physical fitness tests for professional athletes
- Smart detection of parking violations
- LiteTech
- Strelets-PRO, a rapid deployment solution
- Zen, a location tracking and health monitoring system for rescuers
- Passenger safety enforcement solutions
- Shock absorbers
- Aerolife, an air cleaning system
- Potok, a disinfection system
- Medsenger
- Unimonex
- Gamma-Multivox
- InTouch Health
- Automated blood pressure measurement
- Remote telemetry of patients with pacemakers
- Automated intensive are records management
- Doctor/patient remote communications
- ONDOC, a telemedicine solution
- SN-1500H infusion pump
- CavaMentor, an optical intravenous infusion control system
- Virtual street promoter
- In-park navigation systems
- Interactive skating rink
- Express blood tests to determine brain damage
- Devices for public utility service providers
- Industrial equipment monitoring system
- Heat leakage 3D-mapping solution
- Medtaophone
- Medtera Patronage
- Health monitor
- E-nurse
- Healbe GoBe

International pilot-testing practices

COUNTRY, CITY: Spain, Barcelona

TECHNOLOGY: smart waste management

ADDRESSED PROBLEM: online monitoring of the fill level of the waste container. It is expected that the solution will save the government of Barcelona $4 billion in the next 10 years.

PILOTING TIMELINE: in 2016, the solution was successfully implemented in the infrastructure of Barcelona.

INITIATED BY: the government of Barcelona together with the Barcelona Urban Lab. The Barcelona Urban Lab is a tool that facilitates the use of public spaces to test products and ideas that can help address the city's problems.

FUNDRAISING MODEL: the pilot project is completely financed by the company behind the product.

COUNTRY, CITY: Canada, Ottawa

TECHNOLOGY: Key2Access

ADDRESSED PROBLEM: Most conventional traffic systems have push buttons for pedestrians to cue a change in the traffic lights, however locating these buttons can be a serious challenge for pedestrians with sight and mobility impairments. Key2Access has developed a special handheld device, which the user must only point in the desired direction to activate the crossing signal.

PILOTING TIMELINE: June 2016

INITIATED BY: the government of Ottawa

FUNDRAISING MODEL: financed by Key2Access. Additional testing scheduled in Montreal.