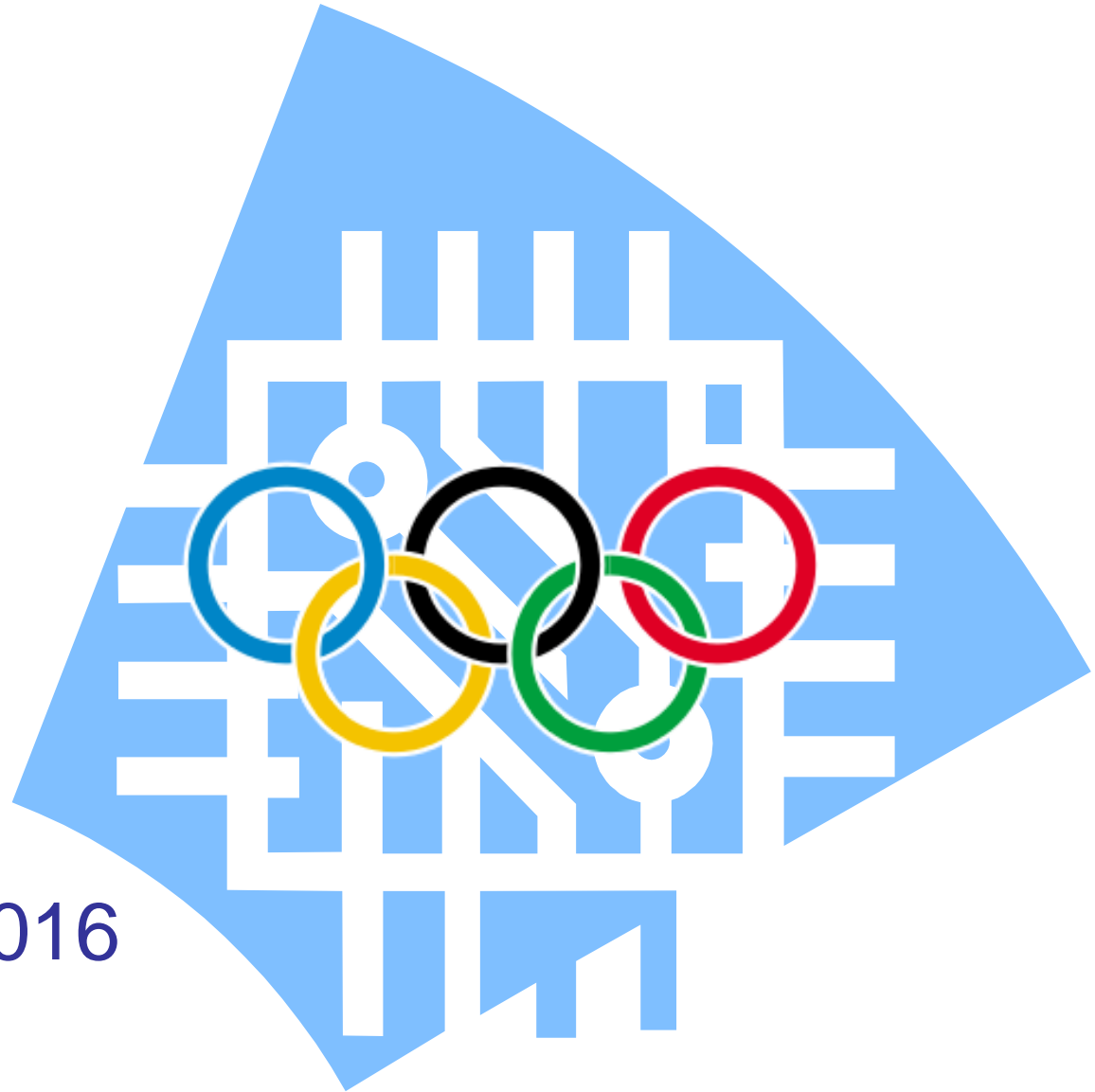


# IOI PLANET



IOI Conference 2016

V. Kiryukhin

RUSSIA



# IOI PLANET

## Members

Here is a list of the Countries and Regions which have participated in the last three *International Olympiads in Informatics*.

It is intended that each country has a website or e-mail (or both) for contact purposes. If the contact information for your country in this list is incorrect or missing, please [Contact Us](#).

Albania E-mail	Argentina E-mail, Website	Armenia E-mail	Australia E-mail	Austria E-mail, Website	Azerbaijan E-mail
Bangladesh E-mail, Website	Belarus	Belgium E-mail, Website	Bolivia E-mail, Website	Bosnia and Herzegovina E-mail, Website	Brazil E-mail, Website
Bulgaria E-mail, Website	Canada E-mail, Website	Chile E-mail, Website	China E-Mail	Colombia E-Mail	Croatia E-mail, Website
Cuba	Cyprus E-mail, Website	Czech Republic E-mail, Website	Denmark E-mail, Website	Dominican Republic E-mail, Website	Egypt E-Mail, @2
Estonia E-mail, Website	Finland E-Mail	France E-mail, Website	Georgia E-Mail	Germany E-mail, Website	Greece E-Mail
Hong Kong, China E-Mail	Hungary E-Mail	India E-mail, Website	Indonesia E-mail, Website	Iran E-Mail	Ireland Website
Israel E-mail, Website	Italy E-mail	Japan E-mail	Jordan E-mail	Kazakhstan E-mail	Korea, Republic of
Kuwait E-mail	Kyrgyzstan E-mail	Latvia E-Mail, Website	Libya E-mail	Lithuania E-mail, Website	Luxembourg E-mail, Website
Macau, China E-mail	Macedonia, FYRO E-mail	Malaysia E-Mail, Website	Mexico E-mail	Moldova, Republic of E-mail	Mongolia E-mail
Montenegro E-Mail, @2, @3, Website	Netherlands E-mail, Website	New Zealand E-mail, Website	Nigeria E-mail	Norway E-mail, Website	Philippines E-mail, Website
Poland E-mail, Website	Portugal E-Mail, Website	Romania	Russian Federation E-Mail	Serbia E-Mail	Singapore E-mail, Website
Slovakia E-mail, Website	Slovenia E-mail	South Africa E-mail, Website	Spain E-mail, Website	Sri Lanka E-mail	Sweden E-Mail, Website
Switzerland E-mail, Website	Syria E-mail	Taiwan E-Mail	Tajikistan E-mail	Thailand E-mail, Website	Trinidad and Tobago E-Mail
Tunisia E-Mail	Turkey E-Mail	Turkmenistan E-mail	Ukraine E-mail, Website	United Kingdom E-mail, Website	United States of America E-mail, Website
Uzbekistan E-Mail	Venezuela E-Mail	Vietnam E-Mail			

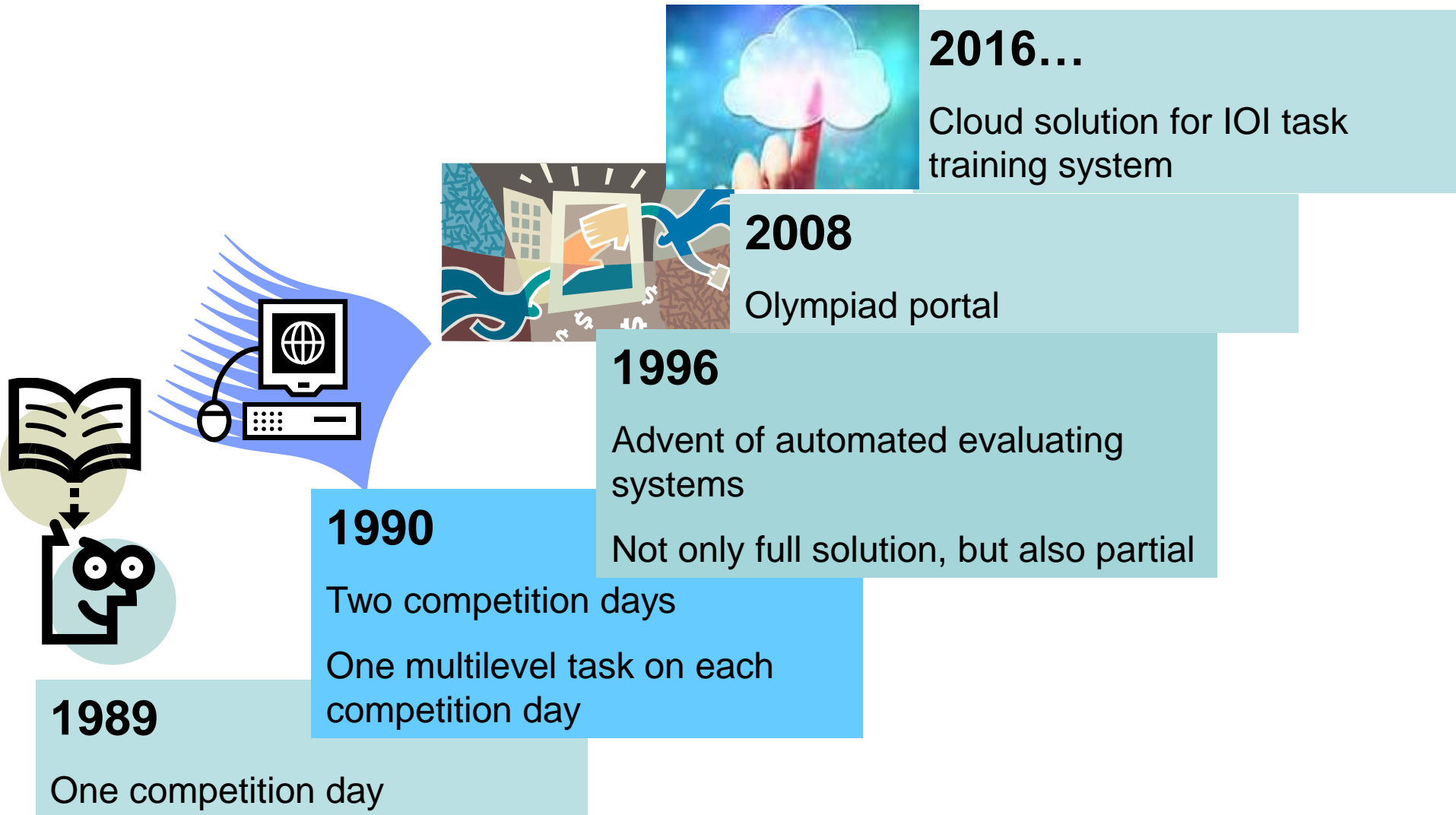
## Former Members

Gabon	Ghana	Madagascar E-Mail	Malta	Mauritius E-mail	Mozambique
Saudi Arabia	Sudan E-Mail	United Arab Emirates	Zimbabwe		

## Observer Countries

Iceland	Morocco	Palestine	El Salvador	Honduras
---------	---------	-----------	-------------	----------

# Evolution of the IOI



# IOI society: new steps

students



coaches

IOI portal

IOI task archive

IOI statistics

Presentation at IOI conference

IOI journal +  
special edition

about host's  
experience

IOI media archive

teachers



scientists

# IOI content: new steps



IOI-n subsite

[www.ioinformatics.ru/ioin](http://www.ioinformatics.ru/ioin)

IOI tasks  
archive

IOI internet  
practice sessions

IOI portal



IOI-n online tours



IOI tasks training online  
system



MOOCs in computer science

# IOI history

- IOI-n subsite

[www.ioinformatics.ru/IOIn](http://www.ioinformatics.ru/IOIn)

IOI-n schedule,

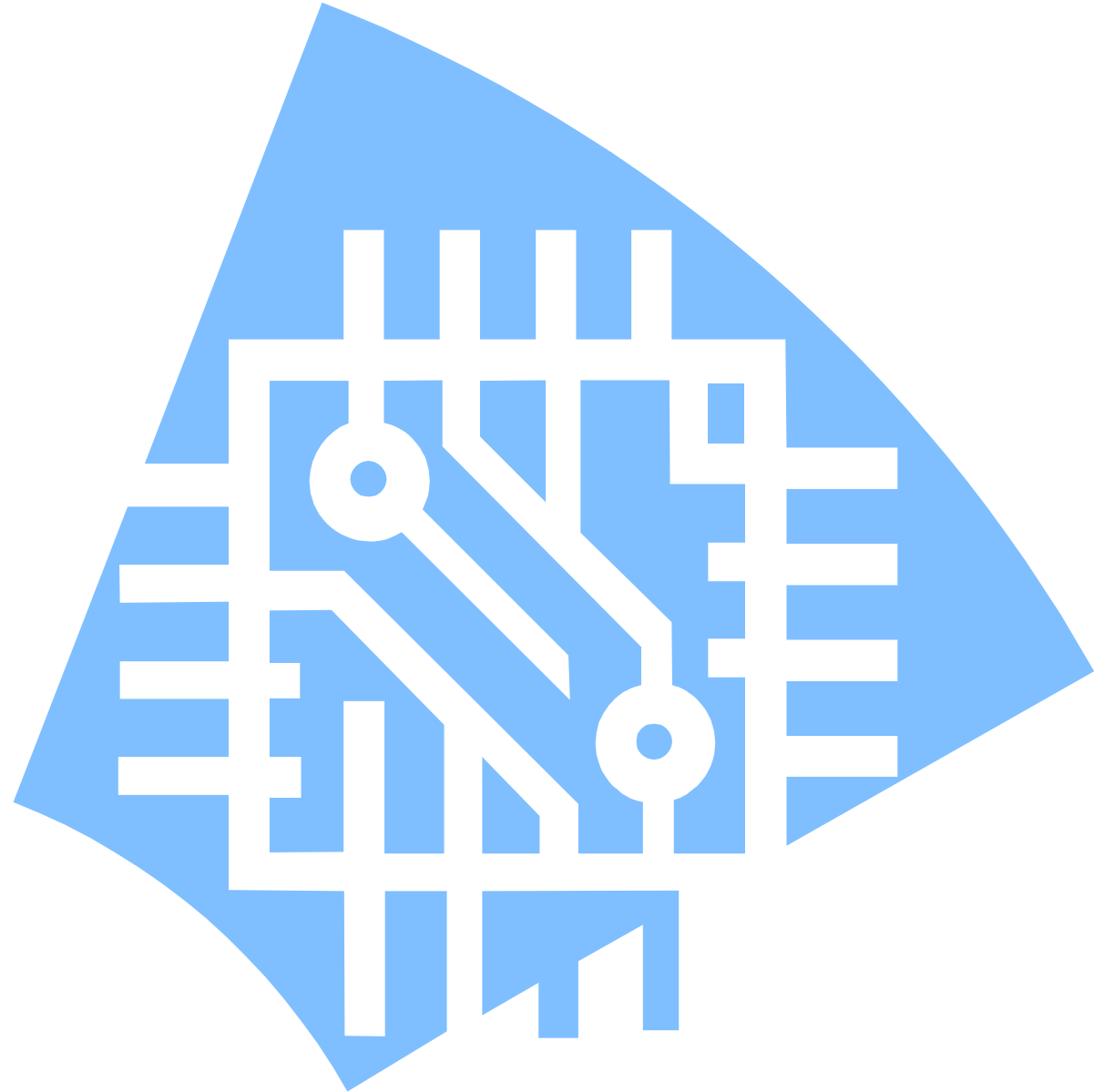
newsletters,

LOGO,

photo gallery of events at IOI-n

- IOI e-museum gallery of IOI-n materials (photo medals, T-shirt, bag, ...)

# Aspects of school informatics development



M. Tsvetkova  
RUSSIA

# Structure of modern school informatics

- Maths & informatics
- Information and communication technology (ICT)



- Mathematical bases of Informatics.
- Development and analysis of algorithms.
- Bases of programming technology.
- Architect of a computer. Operational systems.
- Methods of modelling.
- IT
- Computer network technologies
- Social informatics & communication



# Dual path of school informatics

## Informatics

Information and computers

Models (algorithm and coding)

Systems and automatic processes

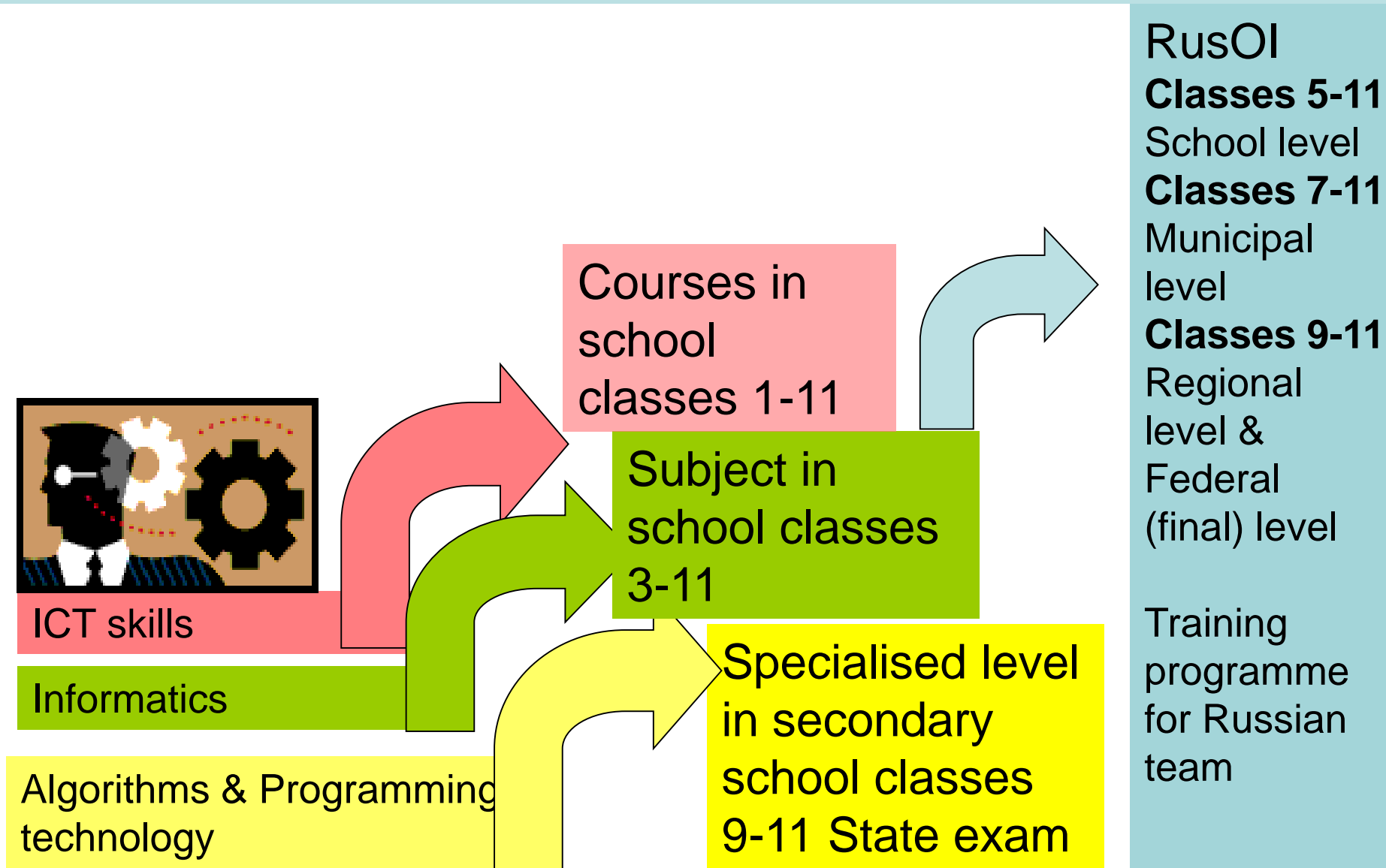
## Informatics and school subjects:

IT skills

Modelling and construction



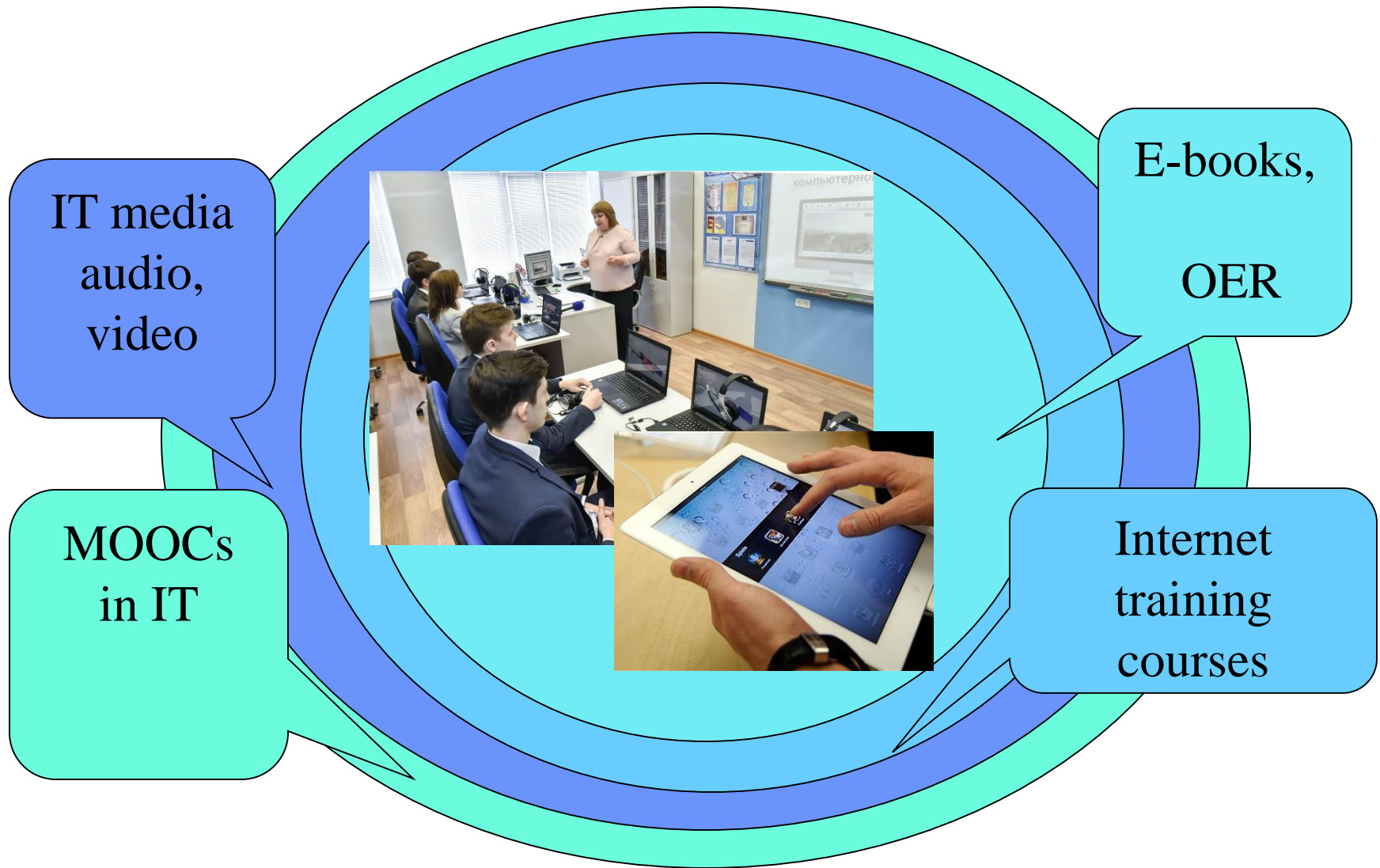
# Structure of modern school informatics



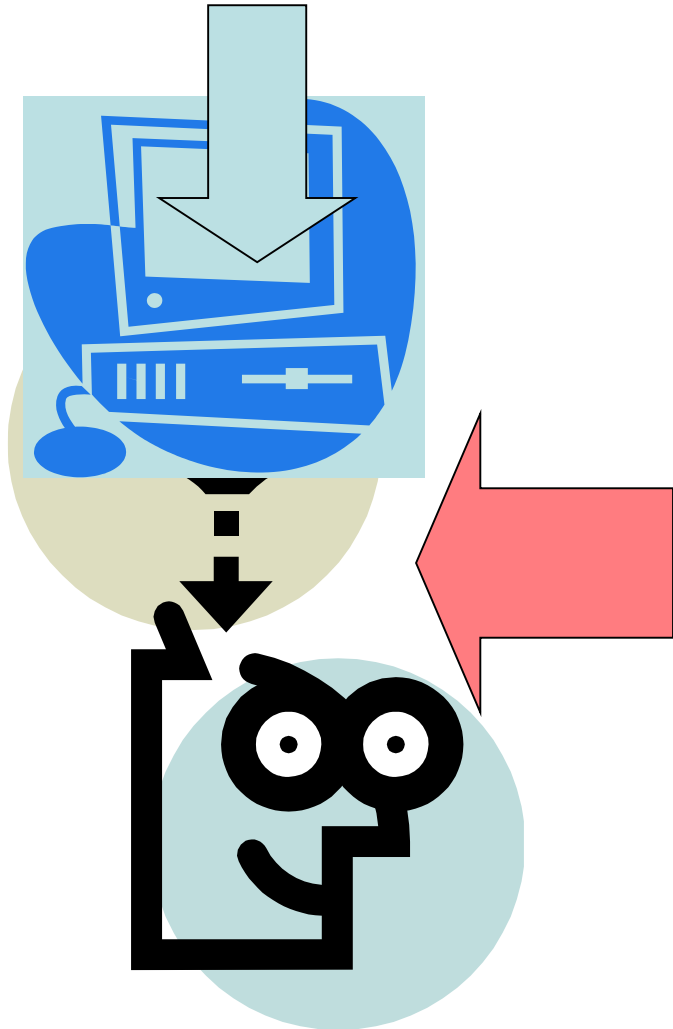
# Various ways of creation of a course of informatics at school

- informatics as culture - for all (invariant content)
- informatics as important part of future profession: informatics for different professions (variable content)
- informatics as future profession (special content) <http://inf-olymp.ru/>

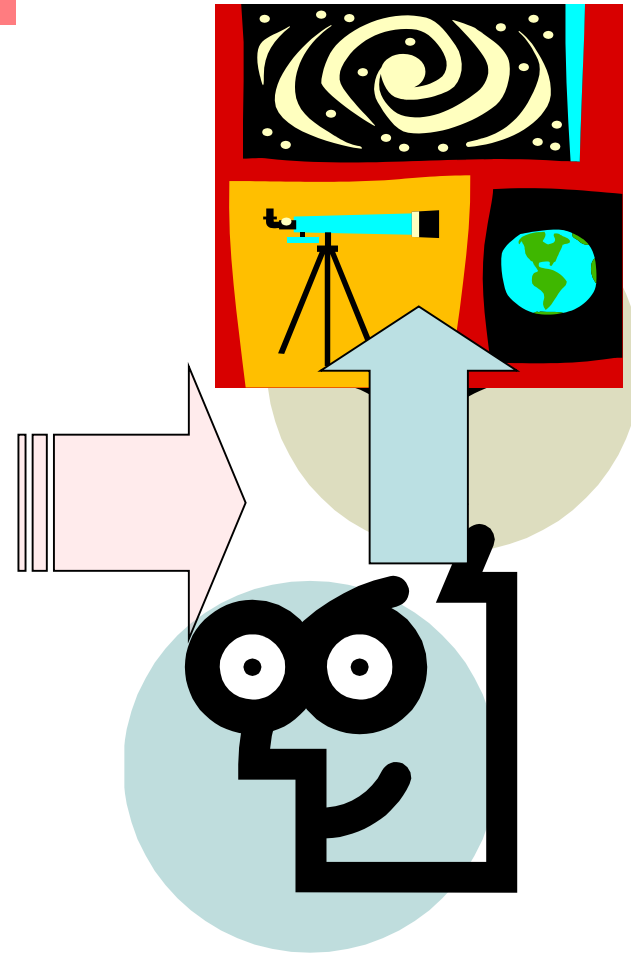
# Digital resources of school informatics



# IT or IT in science...



IOI  
P  
a  
r  
t  
n  
e  
r  
s



# IOI skills & life: social effects



Digital world & life – new forms of communication activity, mobile education - success in life and mastering of technology



Intensification of IT in learning and professional skills



# Steps to success in IT education at school

- **IT literacy generation Z:** Start-up in primary school as basic literacy of children in a digital century along with writing and calculations
- **Continuous studying & Balance** of Math Informatics and IT-skills in the school
- **Availability IT education in the school:** **open** global resources MOOCs and OER
- **Integration IT education:** schools-universities - scientific center and business (**the best example – IOI**)