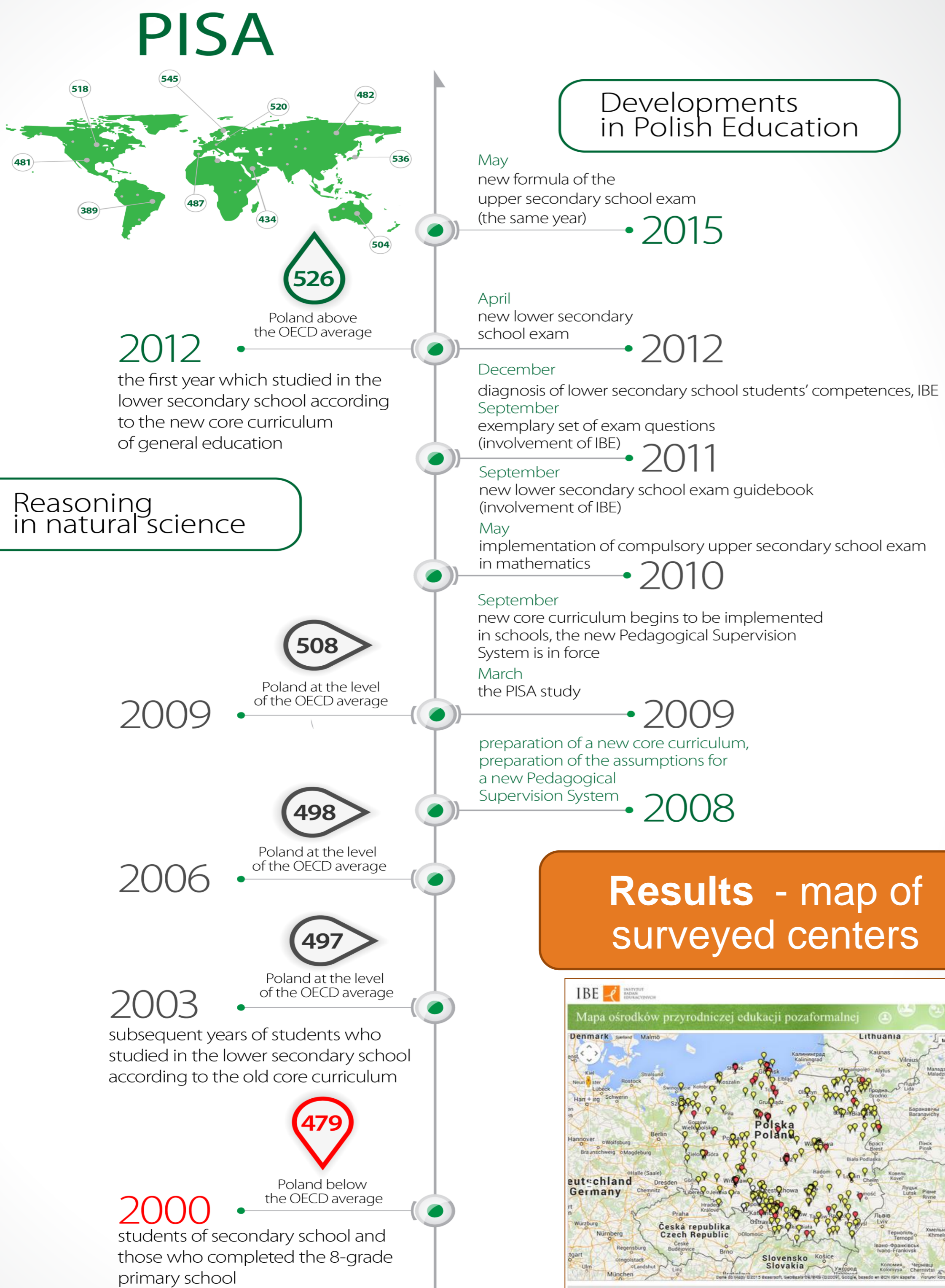


Science Section

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Introduction

Reforms of Polish Educational System
based on the results of PISA



Aim of the study

To determine how the scientific program of non-formal education centers can assist schools in shaping and developing scientific reasoning skills.

Methods

Analysis of existing data, case studies - monitoring, evaluation activities, individual in-depth interview.

Research subjects

Non-formal education centers i.e: non-governmental organizations, universities, research centers of Polish Academy of Sciences, science centers, industrial research centers, educational institutions, and centers which are run privately.
I stage – 348 centers, II stage – 50 centers

Results

Good practices in the field of administration, organization, conducting classes, using of teaching tools and programme materials that were found in 50 surveyed centers.

Results - some publications for science teachers and non-formal education centers



Major conclusions

- Declared aims of operation of the centres are consistent with the idea and general requirements of science core curriculum;
 - Methods and forms of work applied during classes observations are conducive to the shaping of scientific reasoning skills and use of the scientific method;
- Organizational solutions applied in the examined cases are favourable to deeper understanding of scientific issues by pupils and – via application of team work – to developing valuable social competences.

The Study is still going...

Results, conclusions and recommendations from the study were presented at several seminars in Poland. Science Section of IBE cooperates with The Ministry of Environment and some of science non-formal education centres.