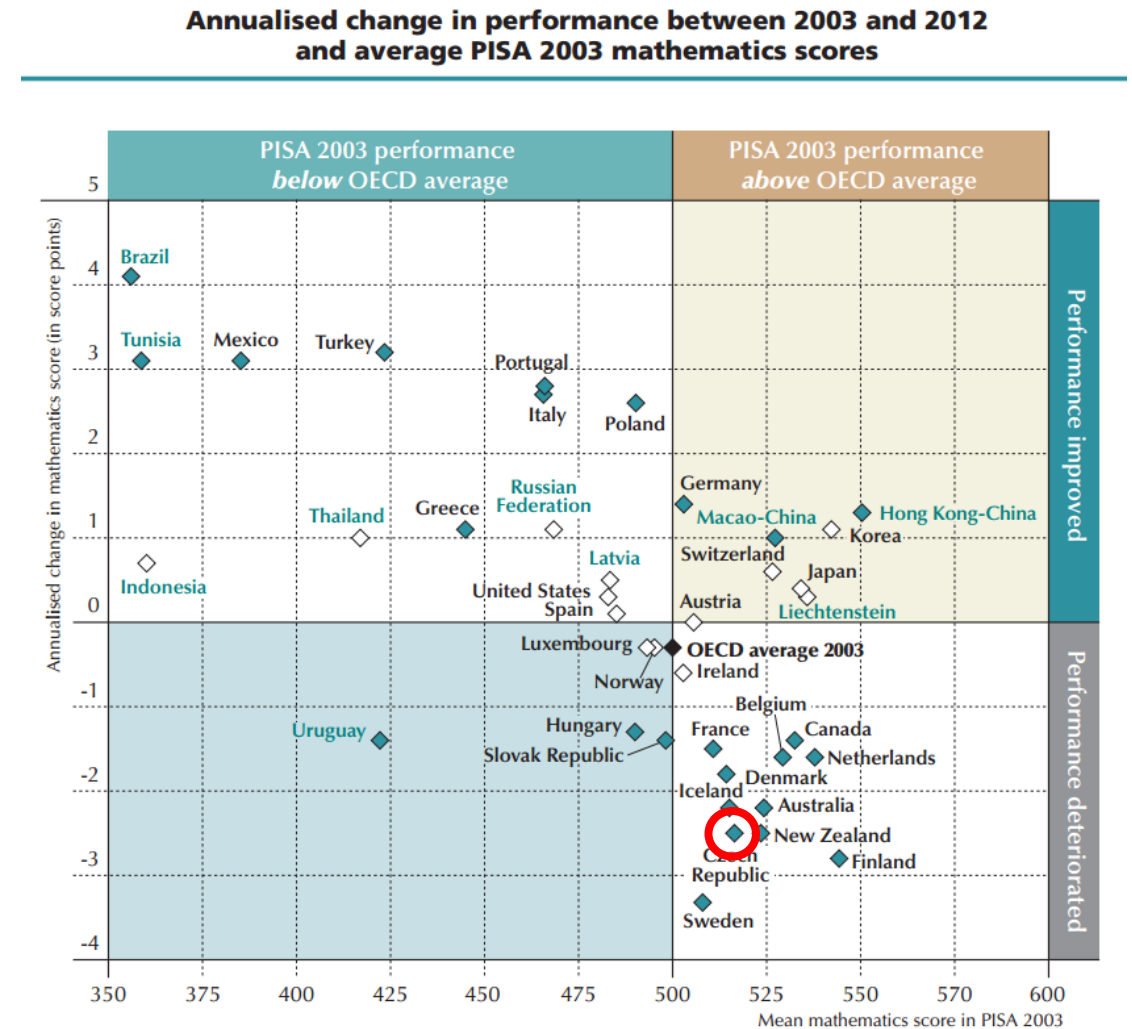


MATHS AND STATS

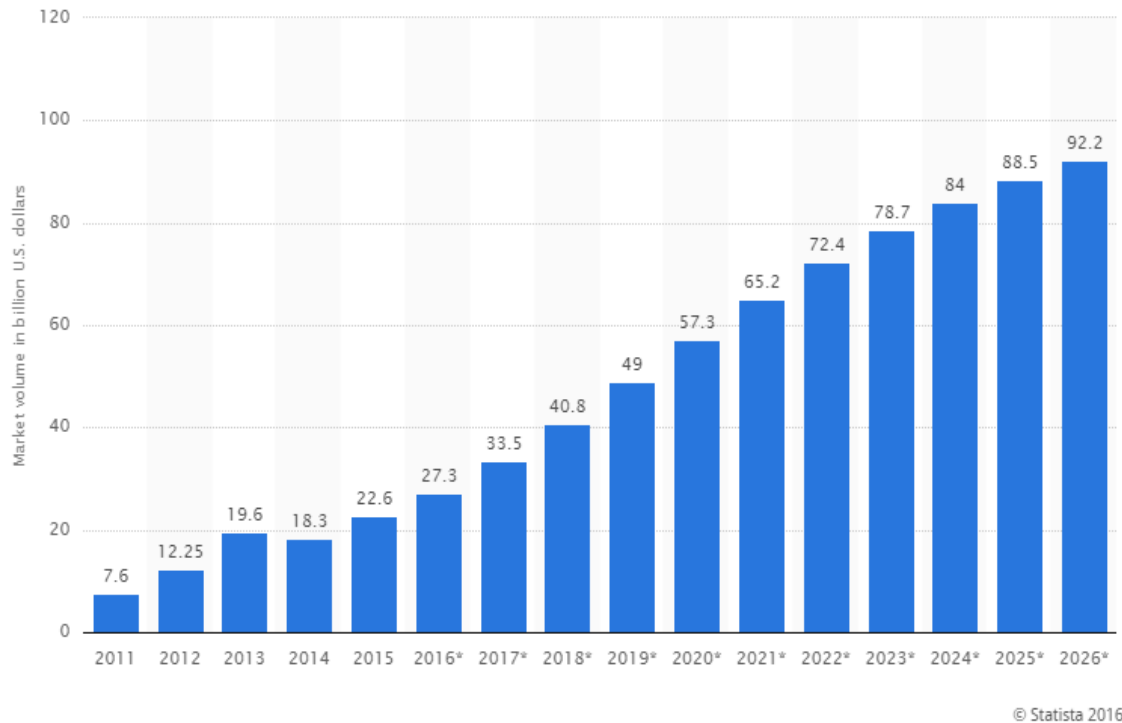
SUPPORT CENTRE

// Introduction

- The gap between highschool and university level of knowledge in math keeps getting bigger (1)
- The job market sorely needs graduates with math skills (2)
- Czech republic PISA scores keep getting worse (3)



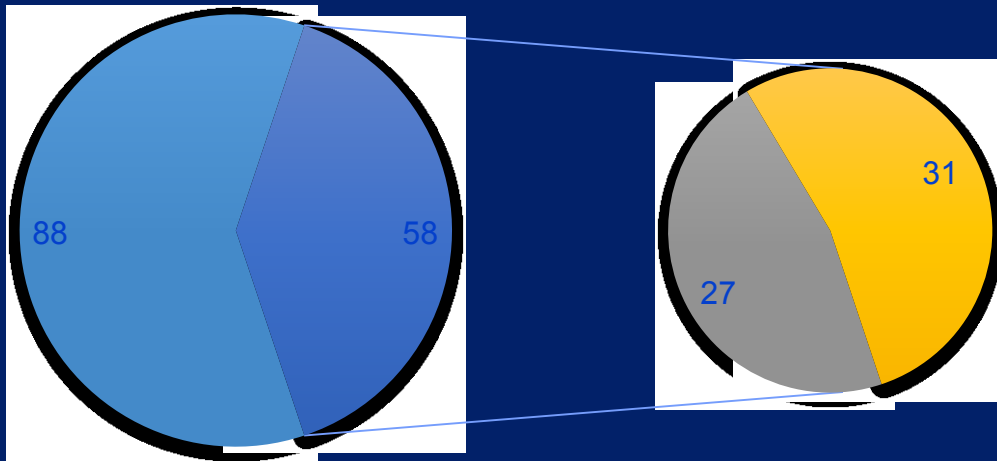
// Why we need it



- The market volume for big data is expected to triple by 2026
- Significant growth in job demand of big data related vacancies (4)

// The service so far (1/4)

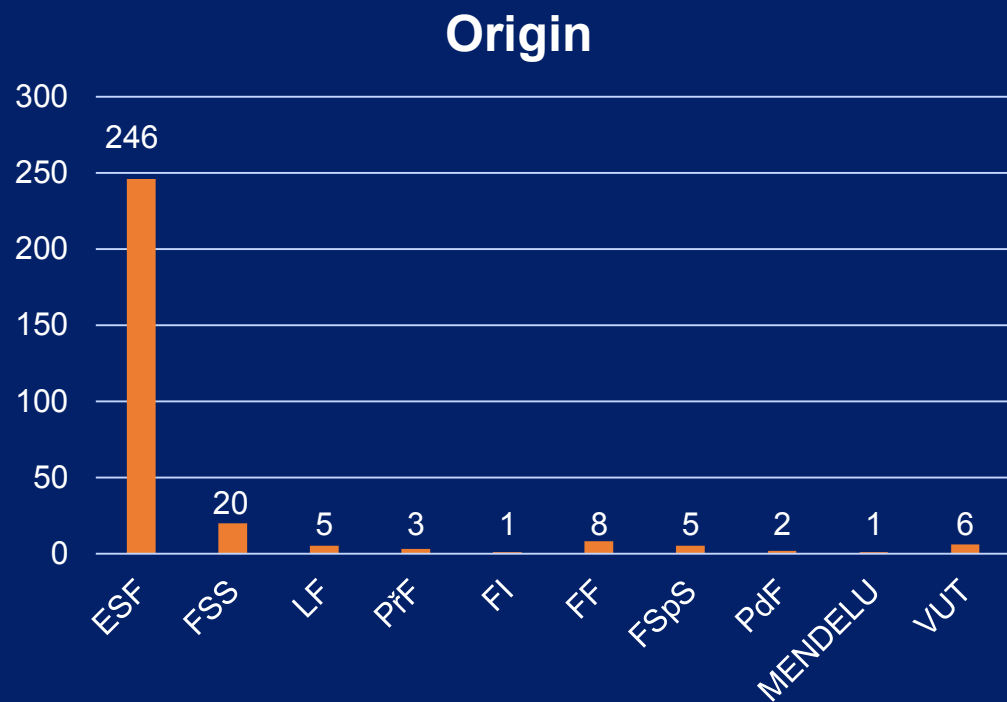
Unique visitors



■ One-time visitors ■ Returning visitors ■ 2x ■ 3x and more

- Timeframe: od 22. 2. 2016
(1 semester) do 4. 7. 2016
- Total visits: **300**
- Unique visitors: **146**

// The service so far (2/4)



ESF dominates: **246**

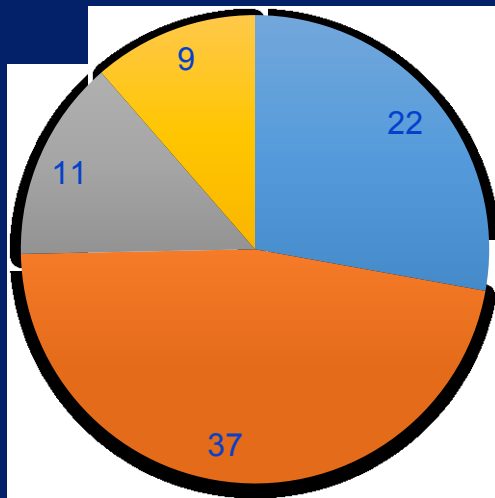
FSS follows: **20**

Other faculties: **24**

Outside MUNI: **7**

// The service so far (3/4)

Final theses



■ Bachelor's thesis ■ Master's thesis
■ Dissertations ■ Final projects

- Percentage of visits regarding final theses:

27%

// The service so far (4/4)

Stats and metrics

- Average hits per month (website) 1800
- Average time of visit (website) 00:03:02
- Peak reach (Facebook) 1105
- Likes in the first month (Facebook) 228

// Events

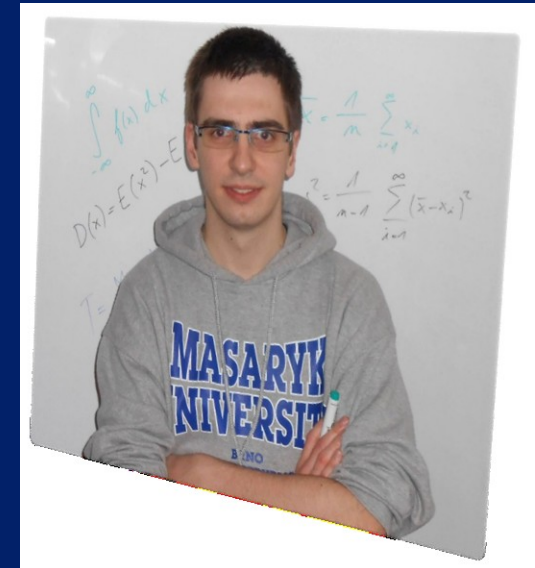
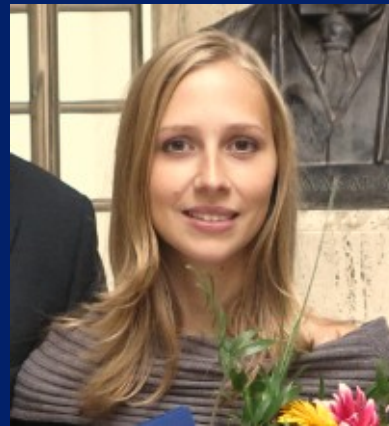
- The Support Centre regularly organizes events for students

„Quantified Nature“ or
„The answer of Kurt Gödel to Pontius Pilate’s question“
are just a few of them



// Our team

- So far the Support Centre operated through volunteers.
- Students and teachers alike offered their time to help others with math and statistics.



// Visitor feedback (1/3)

„ (...) chci (znovu) projekt pochválit :) zatím jsem konzultaci nepotřebovala, ale to, že centrum funguje a že s ním můžu počítat je skvělé“ – Respondent 3

„Pan Josef Nešleha vysvětluje opravdu dobře a vždy si našel čas ikdyž to vypadá, že jeho den má 40 hodin.“ – Respondent 14

„Myslím si, že Maths and Stats Support Centre je skvělý nápad a budu moc rád, pokud jeho fungování bude pokračovat.“ – Respondent 76

// Visitor feedback (2/3)

„(...) veľmi ma potešilo, že sa niečo také vytvorilo, je to super pre študentov. Našťastie som zatiaľ Vašu pomoc nepotreboval ale rád ju využijem v budúcnosti ak bude príležitosť“ – Respondent 65

„Ačkoliv jsem nevyužil jeho služeb, tak jsem ho doporučil několika kamarádům (...) Ti, kteří služeb centra využili si ho moc pochvalovali.“ - Respondent 76

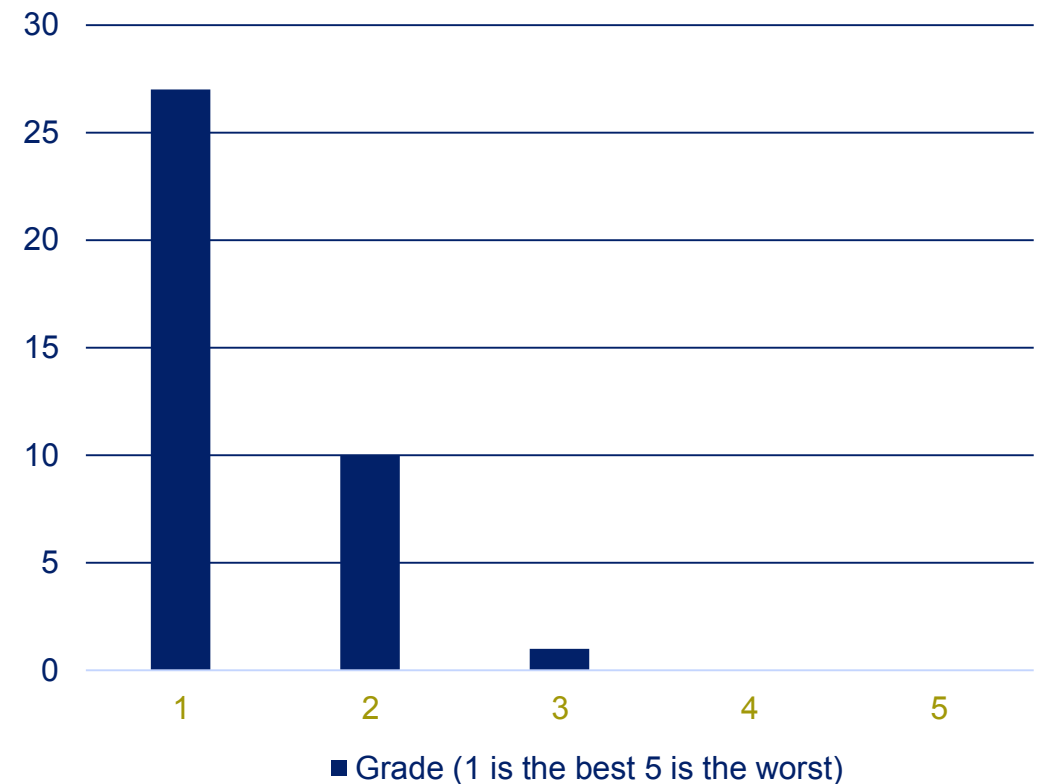
„Support Centre je super projekt, jsem hrozně rád, že se ho podařilo otevřít! Díky paní doktorce Králové i všem tutorům. :)“ – Respondent 23

// Visitor feedback (3/3)

Traits liked the most:

- 1) Tutors' friendly and non-critical approach
- 2) Tutor explained all questions
- 3) Tutor was able to explain complicated issues in simple terms (6)

Grades awarded by visitors



// Spreading the idea

- 3 other support centers were inspired and are taking off



VŠB

Technical University of Ostrava

- wants to cooperate with MSSC as much as possible



UTB

Tomáš Baťa University in Zlín (Dr. Zuzana Pátiková)

- scheduled launch in September 2016



VUT

Brno Technical University (FME)

- launches in April 2017 with support from OP VVV project

// Outlook (1/2)

- Engage more people
 - spark interest in math and statistics
 - break the „I'm bad at math“ mindset
- Improve the website
 - reduce bounce rate
 - incentivise visitors to browse syllabi
 - create a problem-solving platform
- Reduce math and stats failing grades at MU



// Outlook (2/2)



- Academic year
2016/2017 target budget:

550 000 CZK

Labor costs

- two part time tutors

Technical background

- projector
- interactive whiteboard
- software and web
development

Marketing

- leaflets, DTP labor, print

// Sources

- (1) <http://archiv.ihned.cz/c1-65399490-ustup-maturity-z-matematiky>
- (2) <http://www.statista.com/statistics/254266/global-big-data-market-forecast/>
- (3) <https://www.oecd.org/pisa/keyfindings/pisa-2012-results-overview.pdf>
- (4) <https://acadgild.com/blog/big-data-job-opportunities-in-2016-and-the-coming-years/>
- (5) Google and Facebook analytics internal data
<http://mathstat.econ.muni.cz/>
<https://www.facebook.com/supportcentre/>
- (6) Google forms questionnaire survey