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Data analysis for policy making in the Czech Republic  
State of the Nation Project conference

21. 3. 2019

# Content

- ① Strategic framework of the Czech Republic.
- ② Model QUEST III R&D and RHOMOLO.
- ③ Data and the future of analytical work in the Czech Republic.

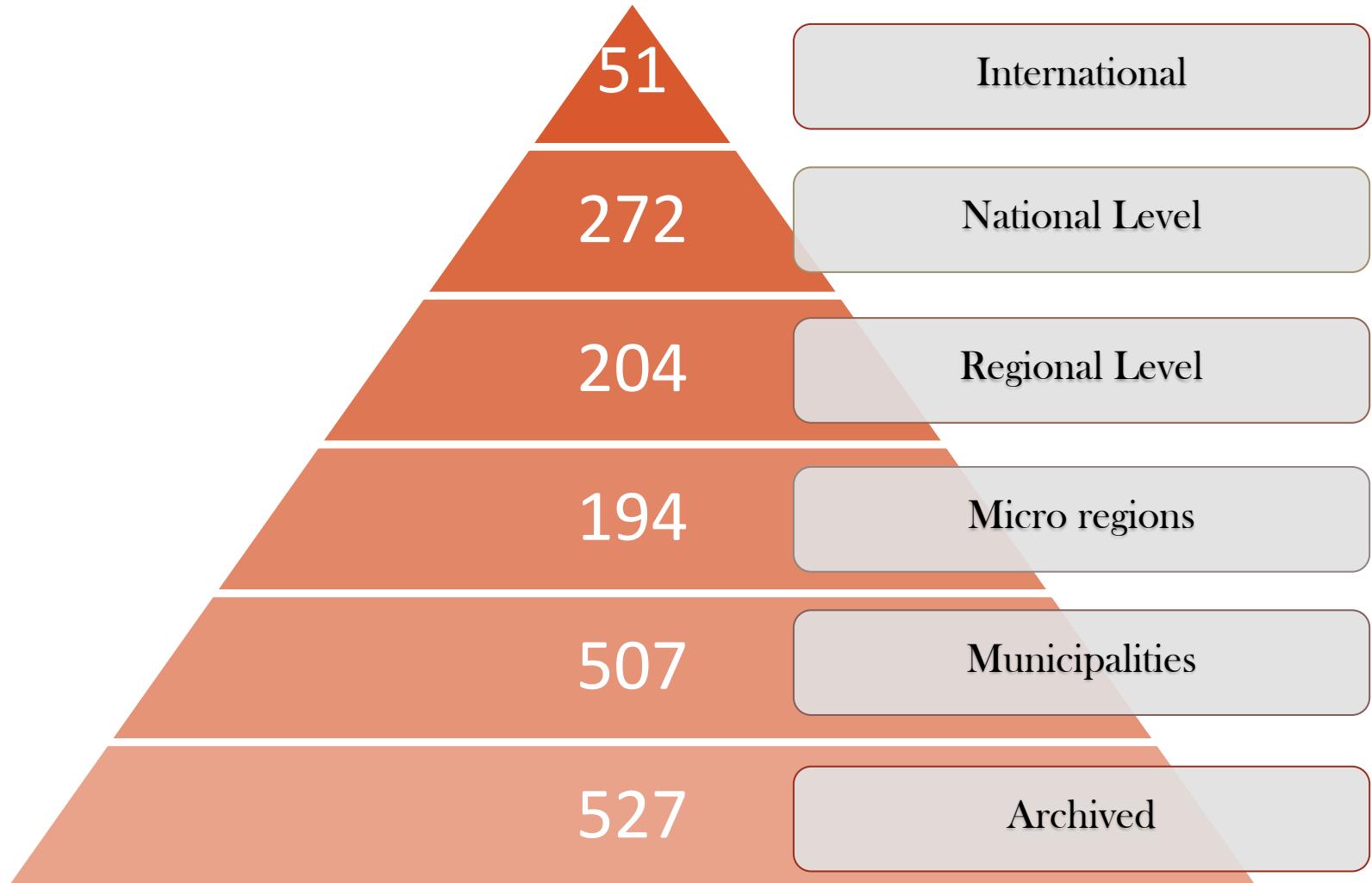


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# The Strategic Wealth of the Nation

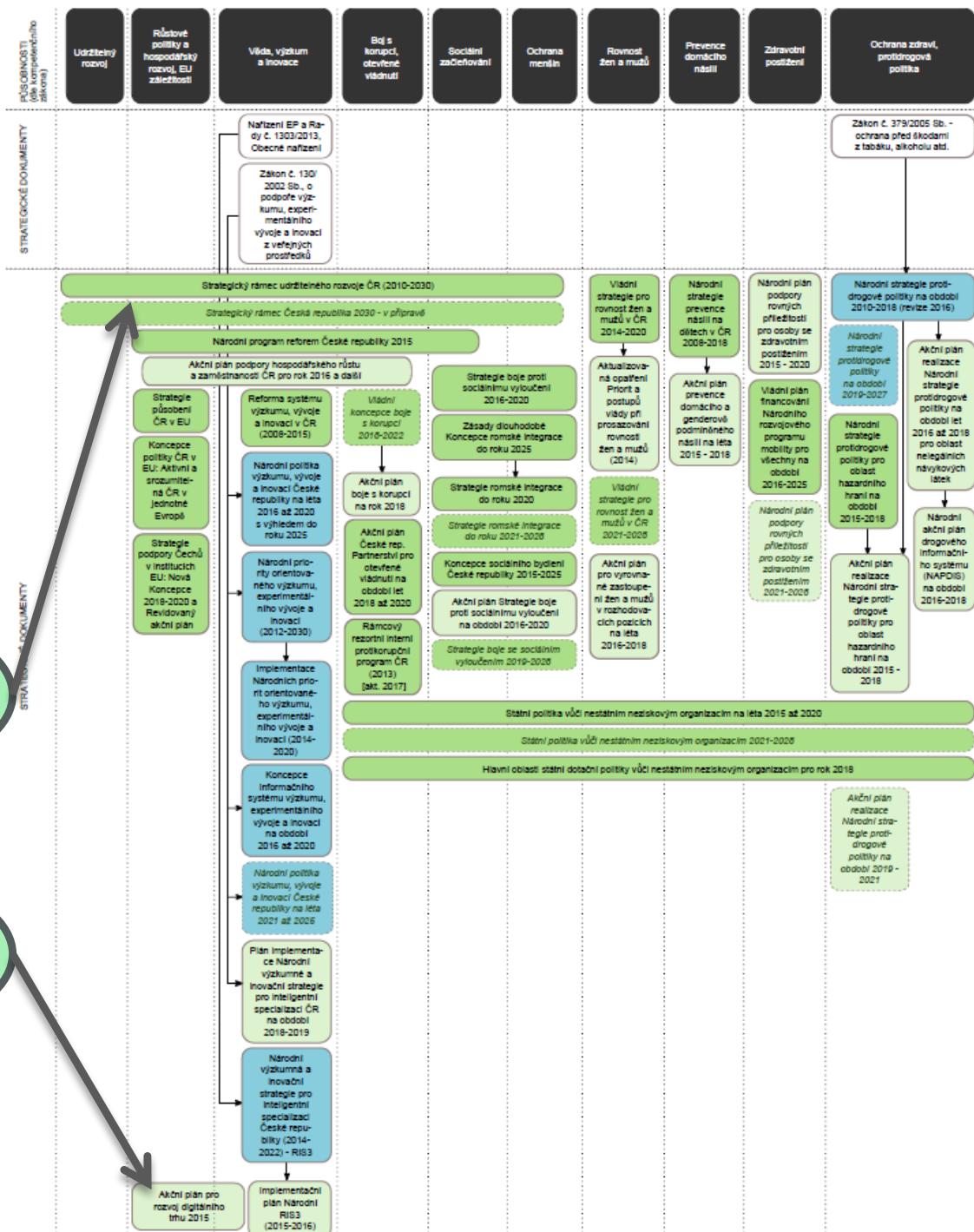


....for a total of **1228 Strategic documents** currently in place.

# Strategic Map of the Government Office

Strategic Framework Czech Republic 2030

AP for the Development of the Digital Market



# WHY DO WE WRITE STRATEGIES, ANYWAY?



The bike circle trail in the André region (about 40 km long) is part of the Moravian Wine Trail.

# Hospital Kuks

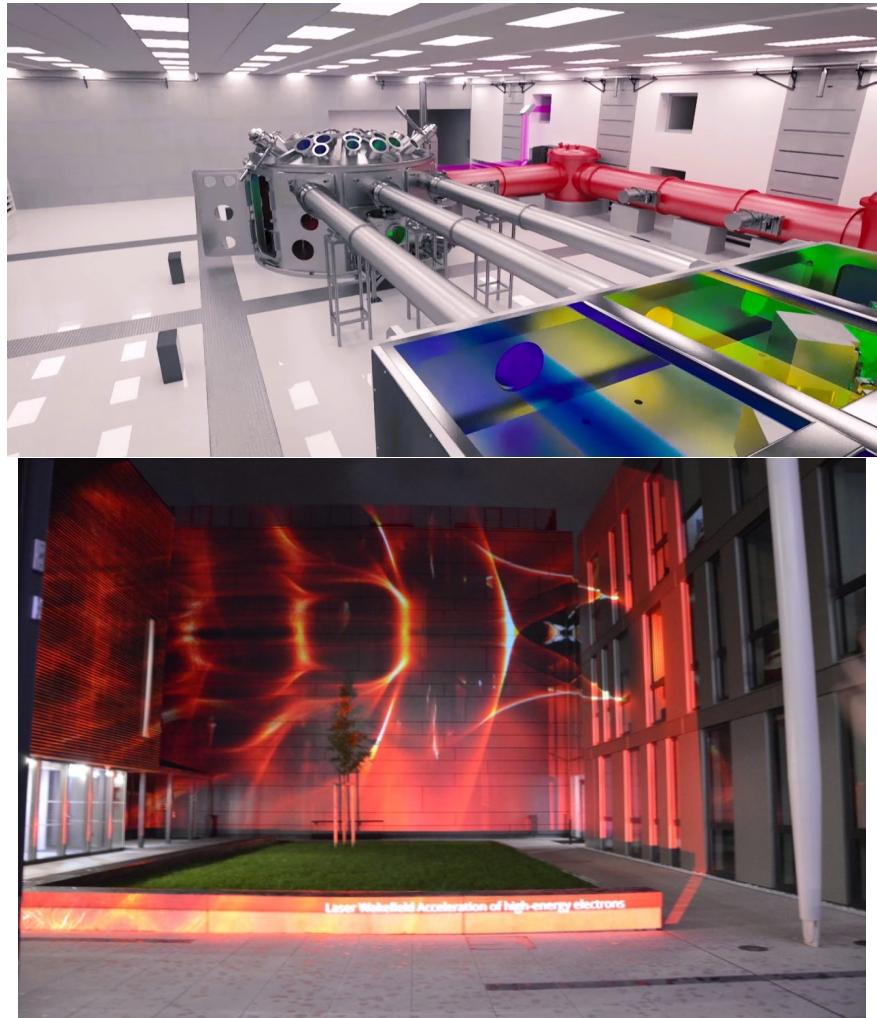
## „A BAROQUE MIRACLE“

The renovation of the whole complex cost around 20 million EUR.



# Extreme Light Infrastructure (ELI) in Dolní Břežany

- European Strategy Forum on Research Infrastructures (ESFRI).
- Part of the Consortium hosting the three laser research centres in CE:
  - ELI-BL Dolní Břežany
  - ELI-NP Magurele
  - ELI-ALPS Szeged
- ELI was founded in 2018 and supported by the EU (6,2 bil. CZK from the EU, only 1,1 bil. CZK from the CZ).

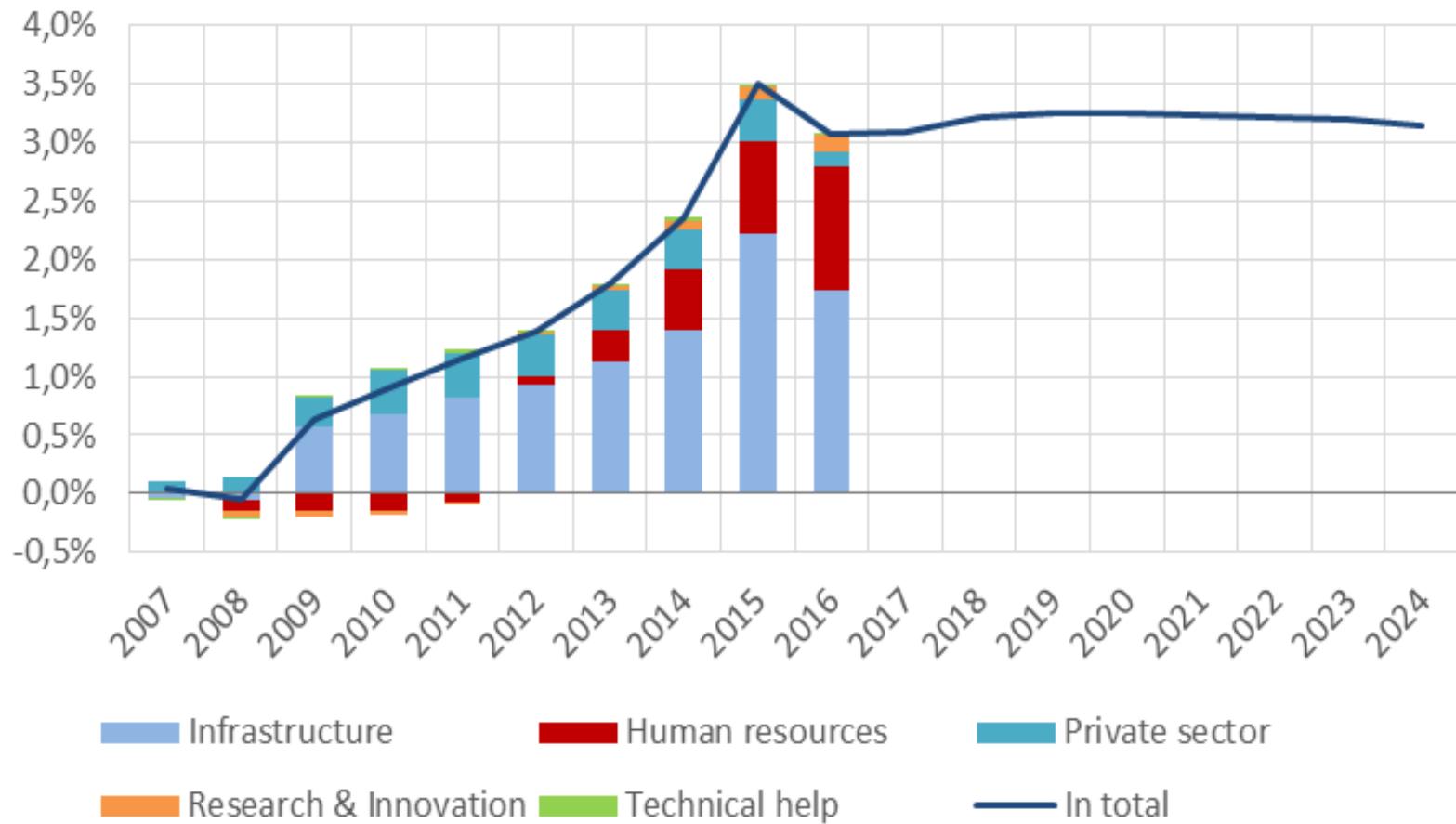


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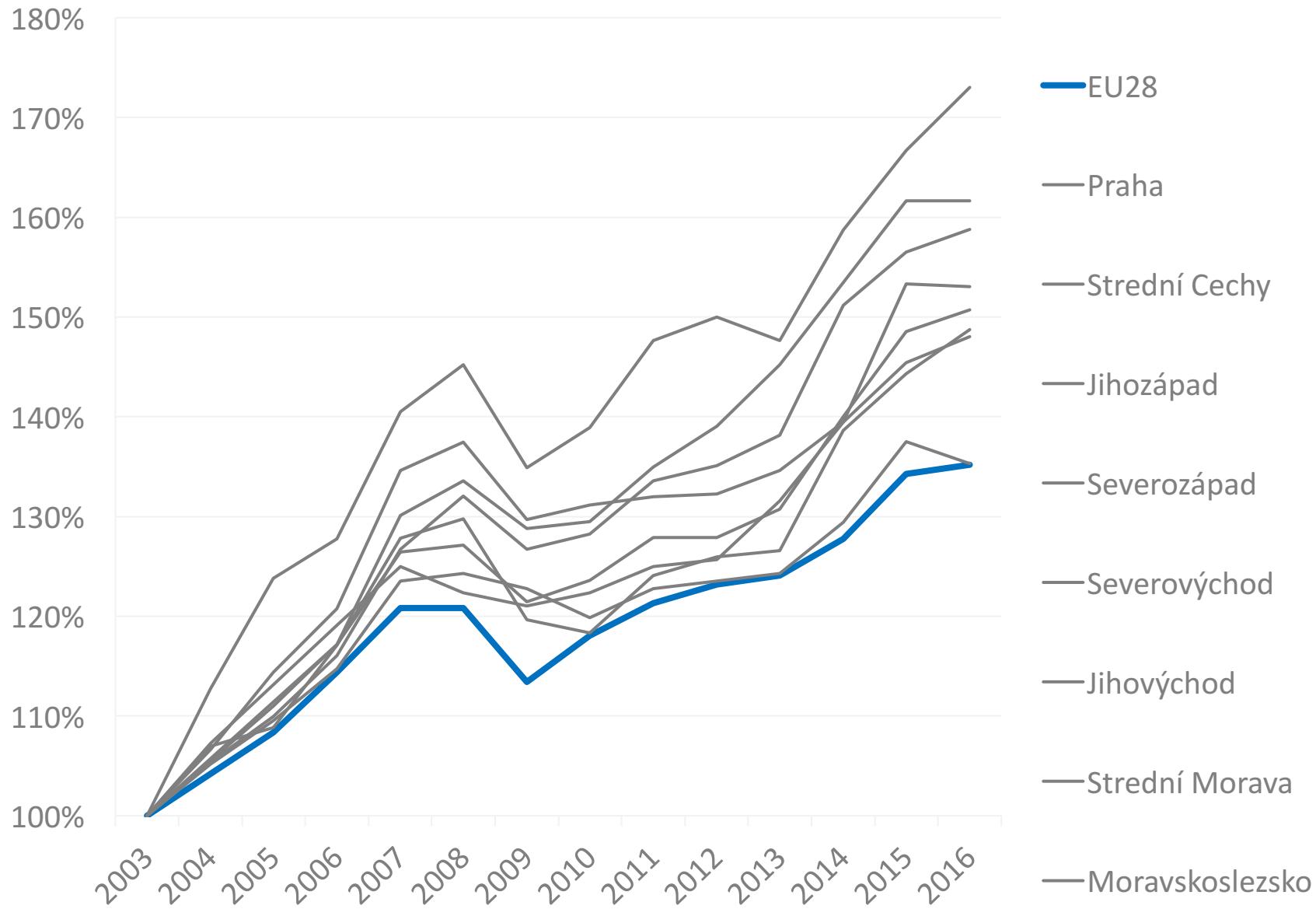


# EU Funds supported the Czech economy

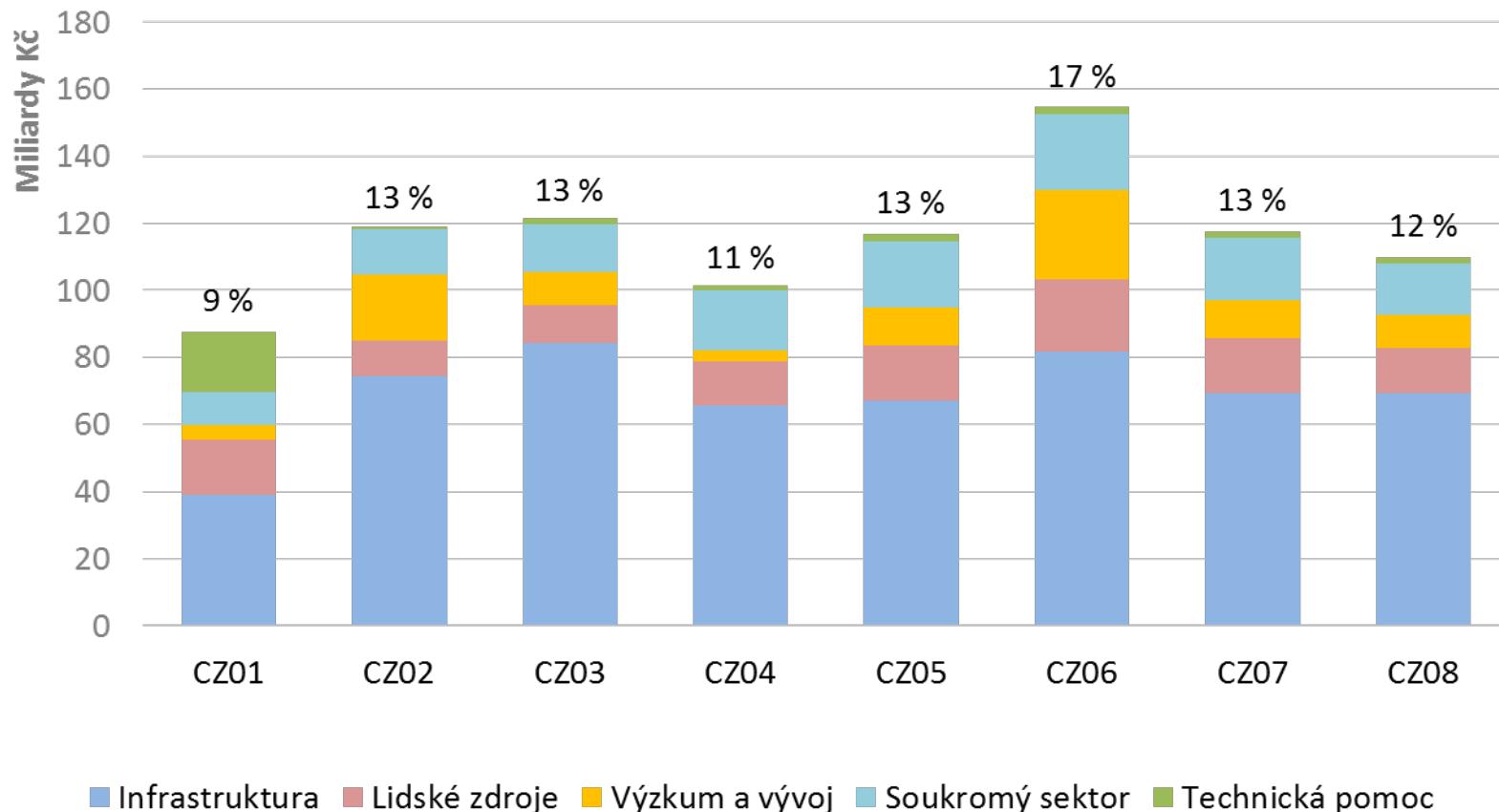


# Convergence of Czech regions to the EU average (GDP)

Region	2004 /EU	2016 /EU	Difference
Prague	164%	182%	+ 17 p. b.
Central Bohemia	75%	80%	+ 5 p. b.
Southwest	72%	77%	+ 5 p. b.
Northwest	64%	63%	-1 p. b.
Northeast	66%	72%	+ 6 p. b.
Southeast	68%	81%	+ 12 p. b.
Central Moravia	61%	71%	+ 10 p. b.
Moravian-Silesian	63%	75%	+ 12 p. b.

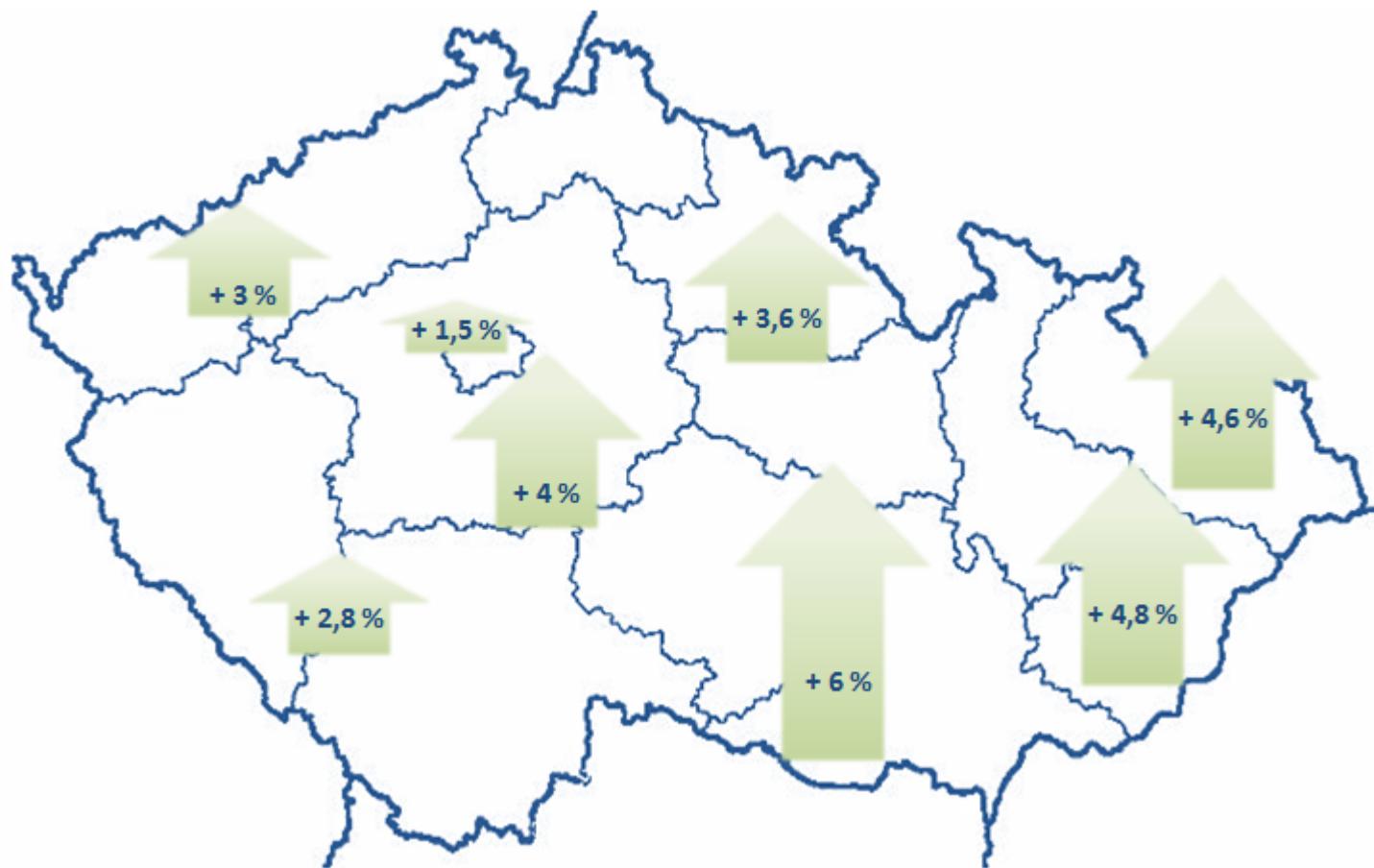


# Allocation of EU Funding at regional level (NUTS2)



CZ01 Prague, CZ02 Central Bohemia, CZ03 Southwest, CZ04 Northwest, CZ05 Northeast, CZ06 Southeast, CZ07 Central Moravia, CZ08 Moravian-Silesian.

# RHOMOLO Model Output



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# Still relying on statistical and administrative data

## Czech Statistical Office

The screenshot shows the homepage of the Czech Statistical Office. At the top, there's a navigation bar with links for 'Statistics', 'We publish', 'Databases, registers', 'Classifications', 'Data collection', and 'About the CZSO'. Below the navigation is a large banner with a hand interacting with a digital interface displaying icons like email and a globe. A blue button labeled 'More information' is visible. To the right of the banner, there's a section titled 'News' with several links to articles. Below the news section, there are two main data displays: 'Latest data' on the left and 'Regional data' on the right, which includes a map of the Czech Republic.

## Administrative data

The screenshot shows the homepage of DotaceEU.cz. At the top, there's a search bar and a link to 'Enter the term you want to search'. Below the search bar are three main links: 'How EU funds help', 'How to obtain a subsidy', and 'EU funds in the Czech Republic'. To the right, there's a section titled 'Recommended' featuring logos for the Ministry of Regional Development and the Ministry of Regional Development of the Czech Republic. Below these are two graphic representations: a triangle for 'Integrated Risk-Management at MORD-NC/2014-' and a cube for 'European Structural and Investment Funds 2014-2020'. A large blue banner on the right side of the page reads 'SIGNIFICANT PROJECTS Supported by the EU Funds in the Czech Republic In Pictures'.

# The Open Data Portal

File	Description	Time Ago
_data	Update authors.yml	7 months ago
_includes	Update nav.en.html	3 months ago
_layouts	Přidat anchorjs	18 days ago
_posts	Novinka Open Data Expo	a month ago



# Keywords (1 216)

úřad číselník číselníky školství železnice Adresy IT Katastrální mapa MHD

Počet obyvatel SMS ceny doprava faktury finance fluktuace

investice jízdní řády komise kontrola kontroly město mateřské školy náklady

objednávky odpad odpady okres Ostrava-město příjmy

příspěvkové organizace petice platy podání pohlaví program provozovny registr

**rozpočet** síť smlouvy sport stanice tříděný odpad tramvaj

trasy turistika výdaje věk veřejná doprava veřejná správa

veřejné zakázky vlak volební okrsky vzdělávání zákaz základní školy zařízení

zaměstnanci zastávka zastávky zeleň zima

# Watch the State (Hlídač státu)



We watch them because they deserve it!

- Contracts
- Persons
- Public procurement
- Sponsors
- Political party financing
- State websites

# Hack the State



## HACKATHON VEŘEJNÉ SPRÁVY VER. 3.0

13-14/9/2019, Praha 7 (sídlo NKÚ)

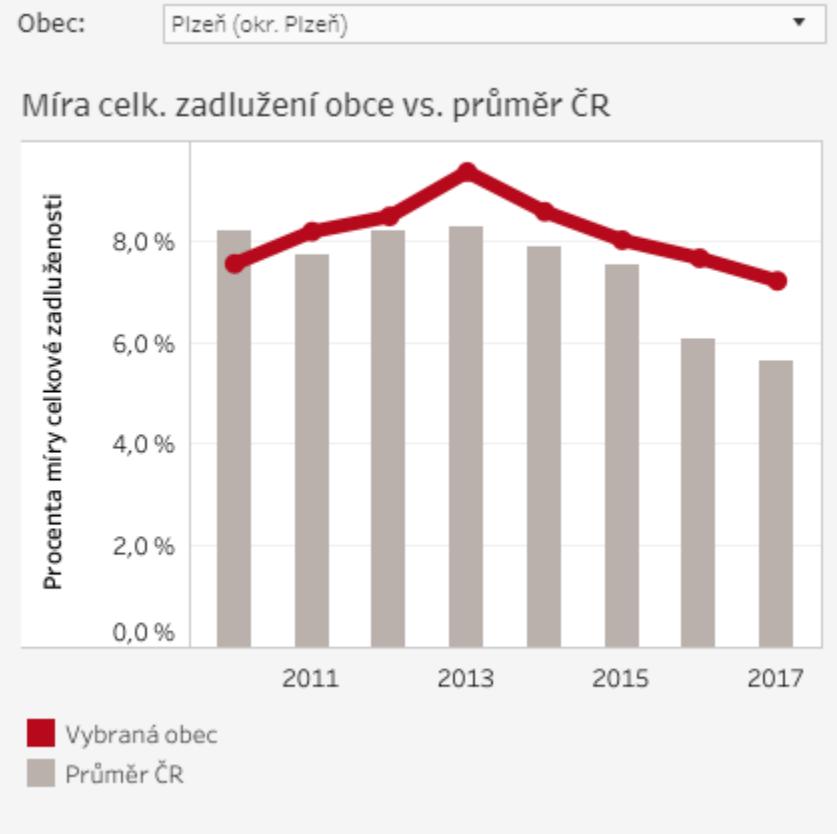
# HACKATHON OF THE PUBLIC ADMINISTRATION



## FIRST PRIZE 2018

The debt level of municipalities  
and their selected expenditures.

The debt level of Plzen is higher than the average.



# Use of data by the public sector – good practice

- Advanced statistical software (Stata, R, Python, Statistica, IBM SPSS) or specific programs (MapInfo, Geographical Information System - ArcGIS, etc.).
- Experimentation with big or real-time data: web scrapping, predictive analytics (data mining, text analysis), web forms, Counterfactual Impact Evaluation.
- Analytical web applications based on public data (MF – StateMonitor, analytics of public R&D at Gov., Data.Brno).
  - <http://monitor.statnipokladna.cz/en/2018/>
  - <https://www.rvvi.cz/analyza-vysledku>
  - <https://data.brno.cz/en/>

# Use of data by the public sector – bad practice

- Data not centrally collected.
- Suboptimal data sharing.
- Strict legislation and its rigid interpretation.
- Data available in inappropriate formats or poor quality.
- Limited access to microdata.

# Taking ACTION....

- Working Group on the Cooperation of Analytical Units (January 2019) under the Government Committee on Sustainable Development
- The Concept Document: **A Client Oriented Public Administration 2030 (MI)** => Evidence Informed Policy Making:
  - Skills enhancing
  - Platform for sharing data and best practice
  - Anchoring analytical work in the public administration
  - Increasing the applicability of analytical work in policy implementation.

# Thank you for your attention!!!

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