



ČESKÁ INSPEKCE
ŽIVOTNÍHO PROSTŘEDÍ

CZECH ENVIRONMENTAL
INSPECTORATE

Monitoring and Enforcement Activities for the IPPC Implementation in Czech Republic

MECHANISMS TO ENHANCE THE GREEN COMPETITIVENESS
IN TURKEY, NATIONAL FORUM

ISTANBUL 21. - 22. October 2009

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- **ROLE OF AUTHORITIES**
- **MONITORING OF IPPC PERMIT**
- **IPPC IMPLEMENTATION IN MS REGION**
- **PRACTICAL EXAMPLES**




The Europe

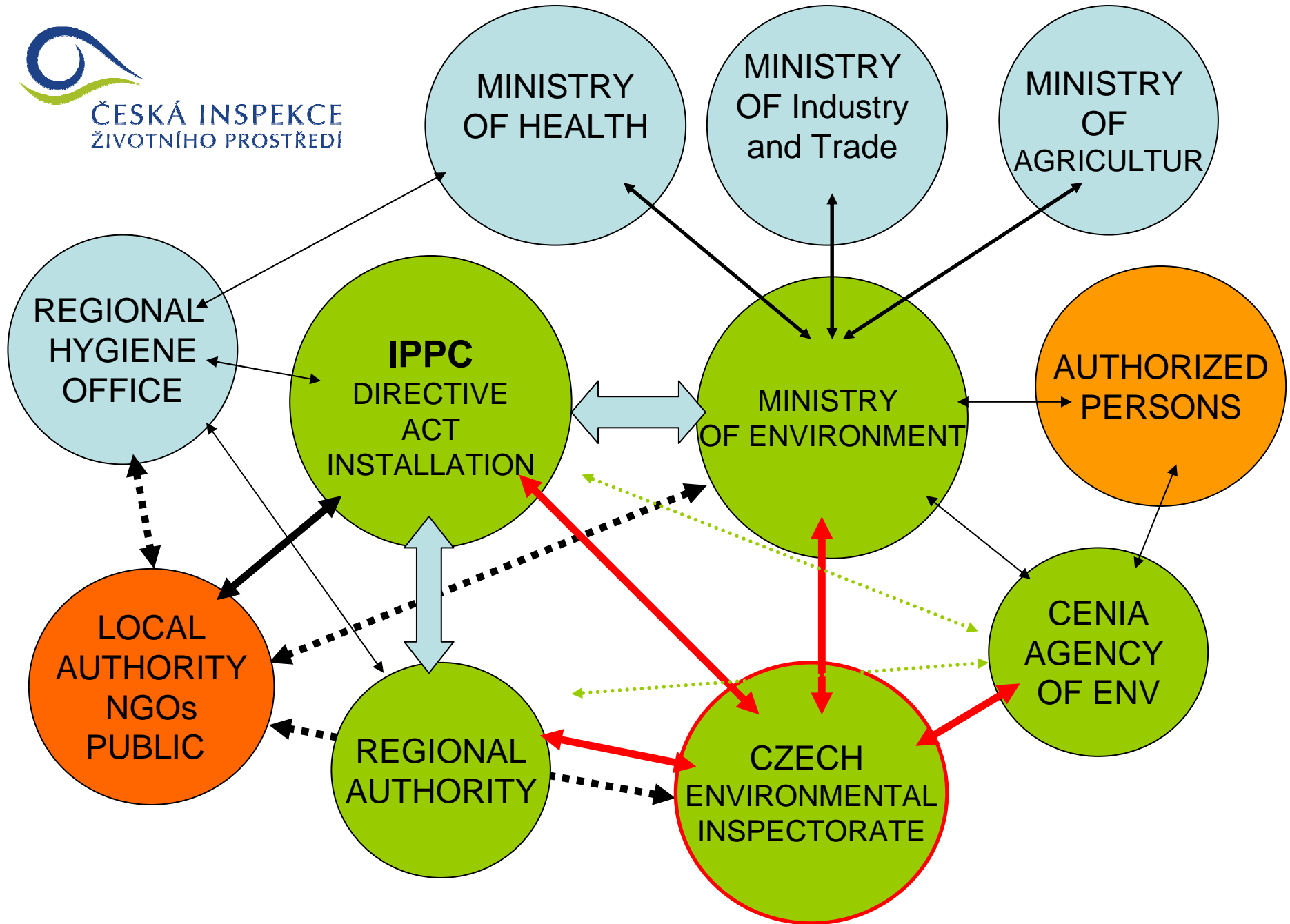


The Czech Republic





**Role of Institutions
in the IPPC Implementation
Procedure**



Czech Environmental Inspectorate (CEI)

a special government body supervising observance of environmental acts and regulations, and controlling permit compliance

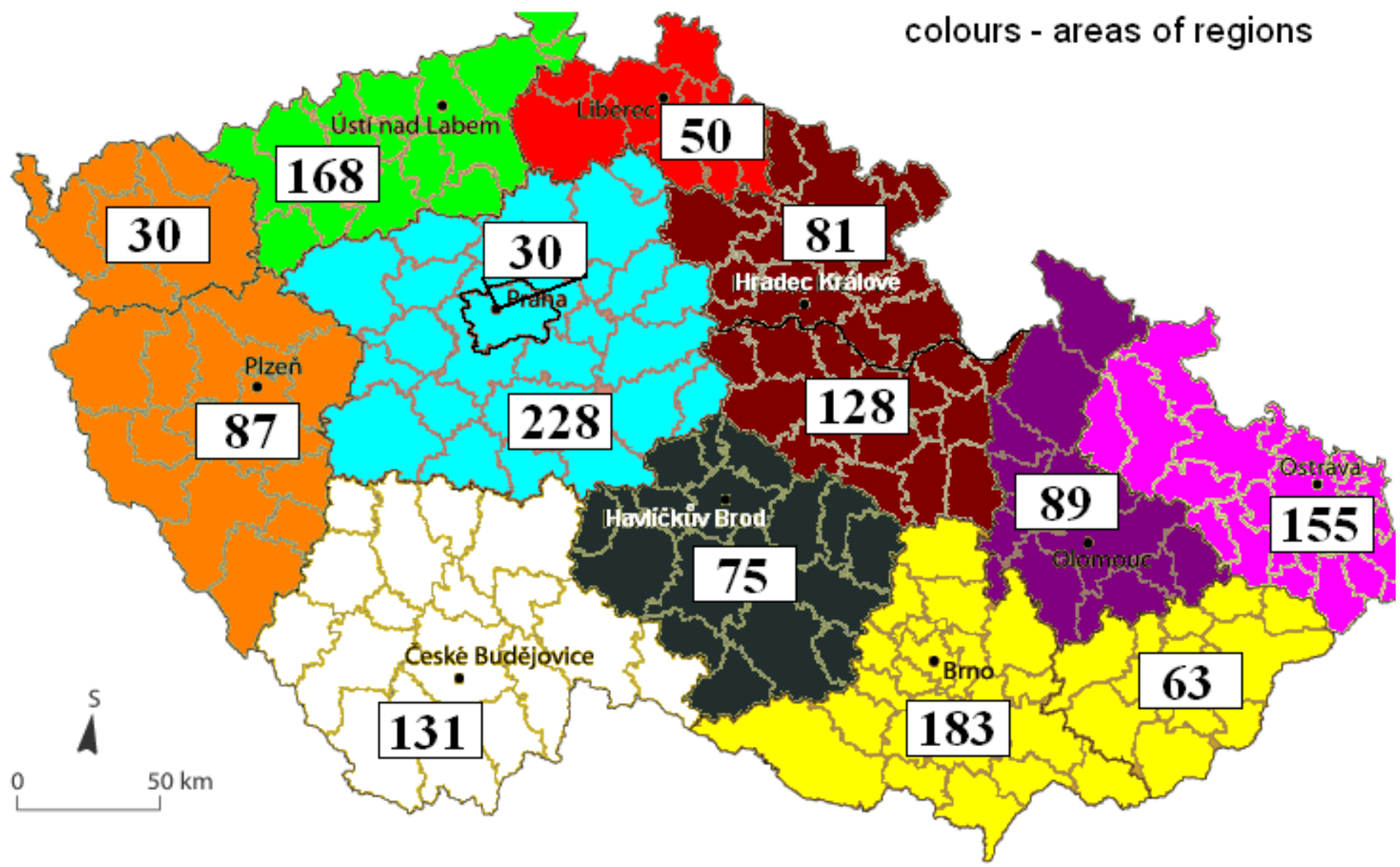
IPPC Activities:

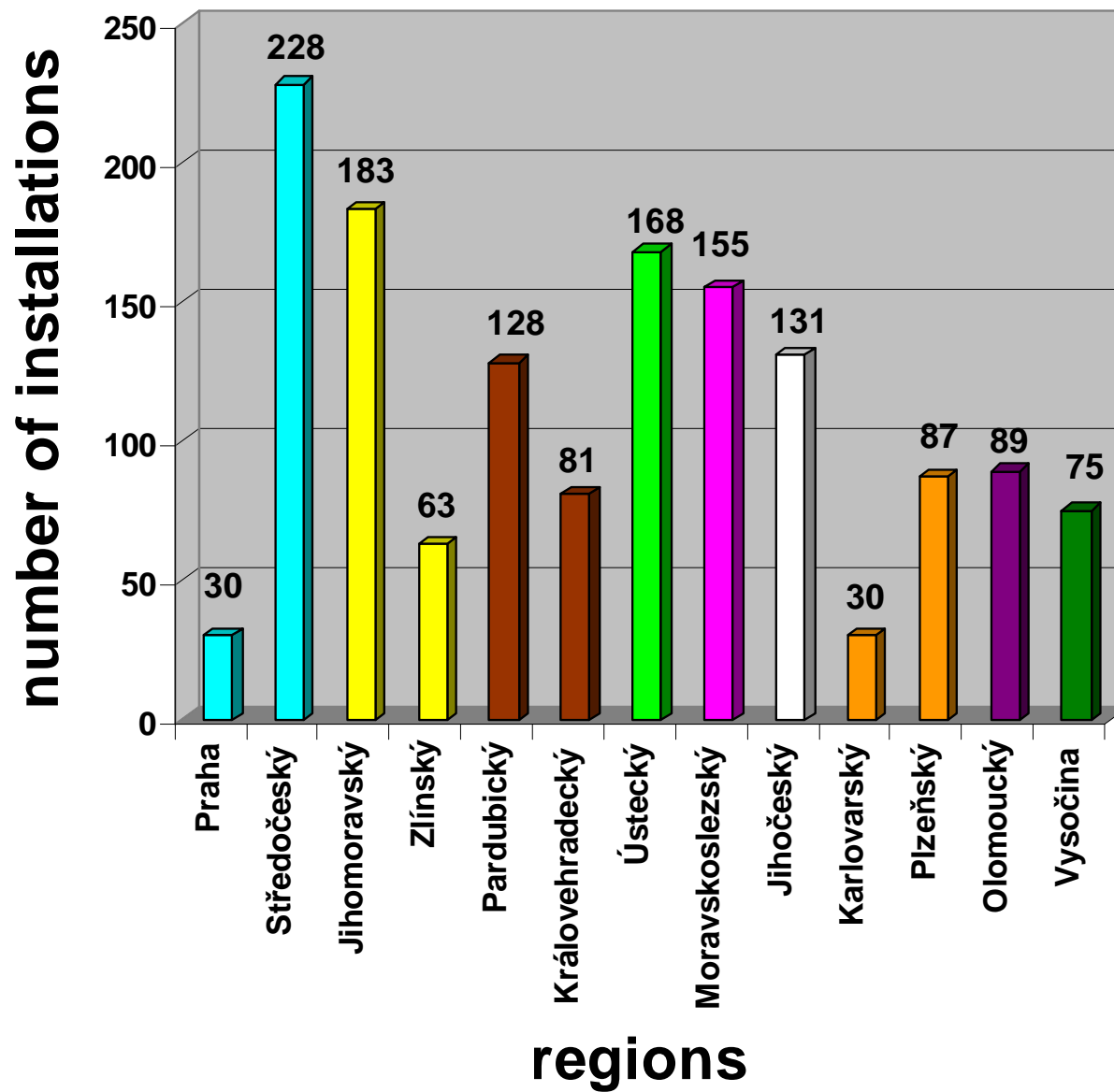
- Limit or stopping of installation operation
- Decision on penalties
- Evaluating of BAT applications
- Collaboration with local authorities

Numbers of IPPC Installations in Regions

—— the borderline of regions

colours - areas of regions





Monitoring of IPPC Installtions

Regional Authority

- Annual reports on compliance with IP by operators
- Review of permit conditions

CE Inspectorate

- Control of operator's obligations within the Act
- Performance of air and waste water pollution independent analyses
- Checking data reported to environmental databases

CEI Procedure in the Control of IPPC Installations

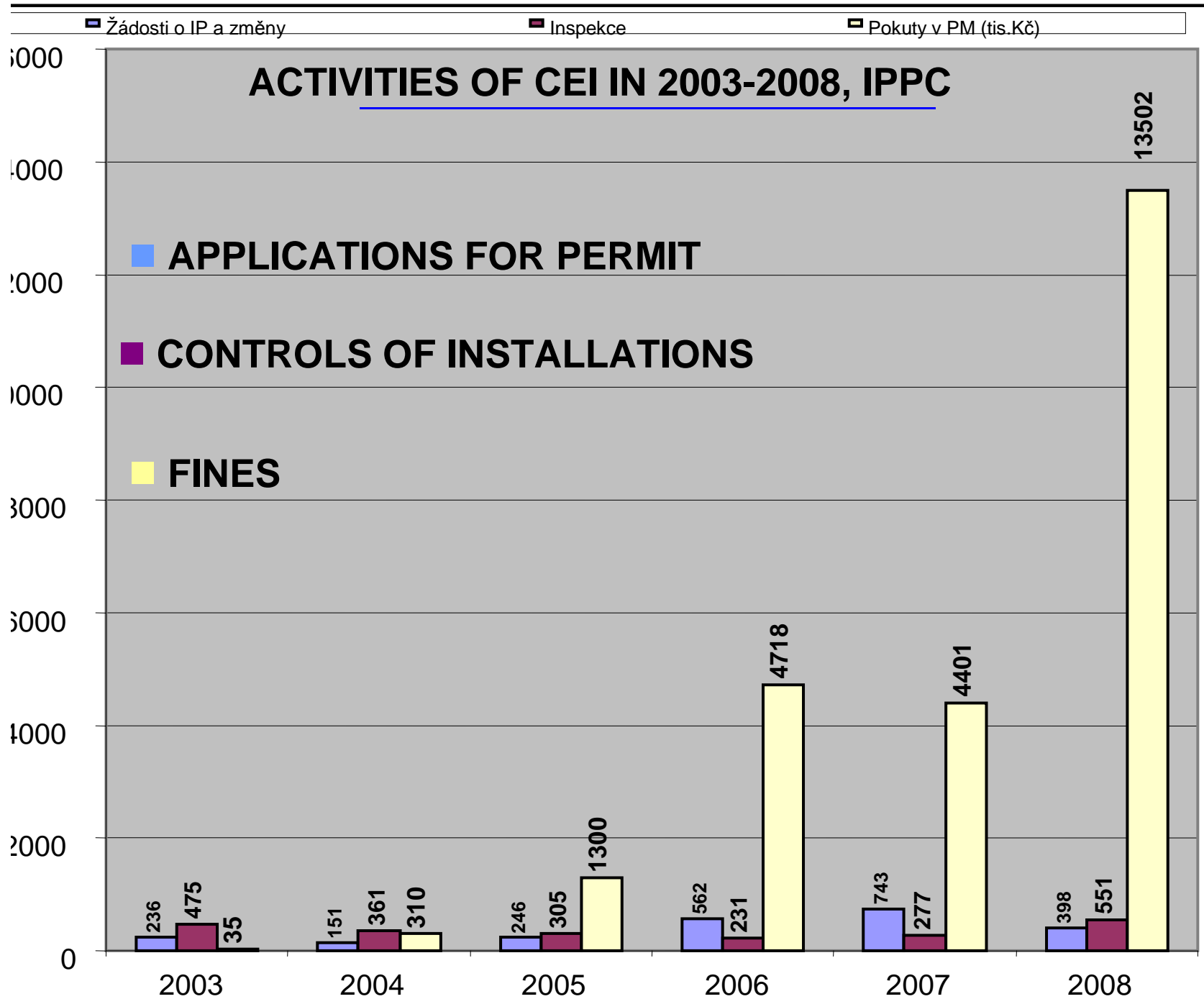
- Control coordination
- Preparation of relevant documents
- Cooperation with local authorities
- Communication with the operator
- Protocol on the findings
- Submission of the findings to local authorities
- Decision on the fine
- Reviewing of the measures imposed

Most frequent findings

- Unauthorized hazardous waste disposal
- Exceeding of emission limits for air or water pollutants
- Unannounced changes in operation of installations
- Operating installations without integrated permission (47)

INTENSITY OF INSPECTION ACTIVITIES IN 2008

- **551 complex integrated inspections**
- Imposed total of **144 penalties (IPPC)** in sum of **13.499.000,- CZK** (approximately 520. 000 €)
- **398 opinions on applications** for issue of integrated permit or permit changes – compared to 249 in previous year
- **2 220 opinions** on projects within EIA and etc.



Moravosilesian Region in Brief

Characteristics	Data
Area	5,554 sq. km.
Population (01-03-01)	1,264,540 (1,156,984 Prague)
Population Density	230 inhabitants per sq. km.
Capital of the Region - Ostrava	316,744 inhabitants

A region with the highest population rate in the Czech Republic.

Population density - 230 inhabitants per sq. km

National average - 130 inhabitants per sq. km

The area is densely populated and is characterized by a high concentration of industry.

OSTRAVA, THE CAPITAL OF MORAVOSILESIA REGION





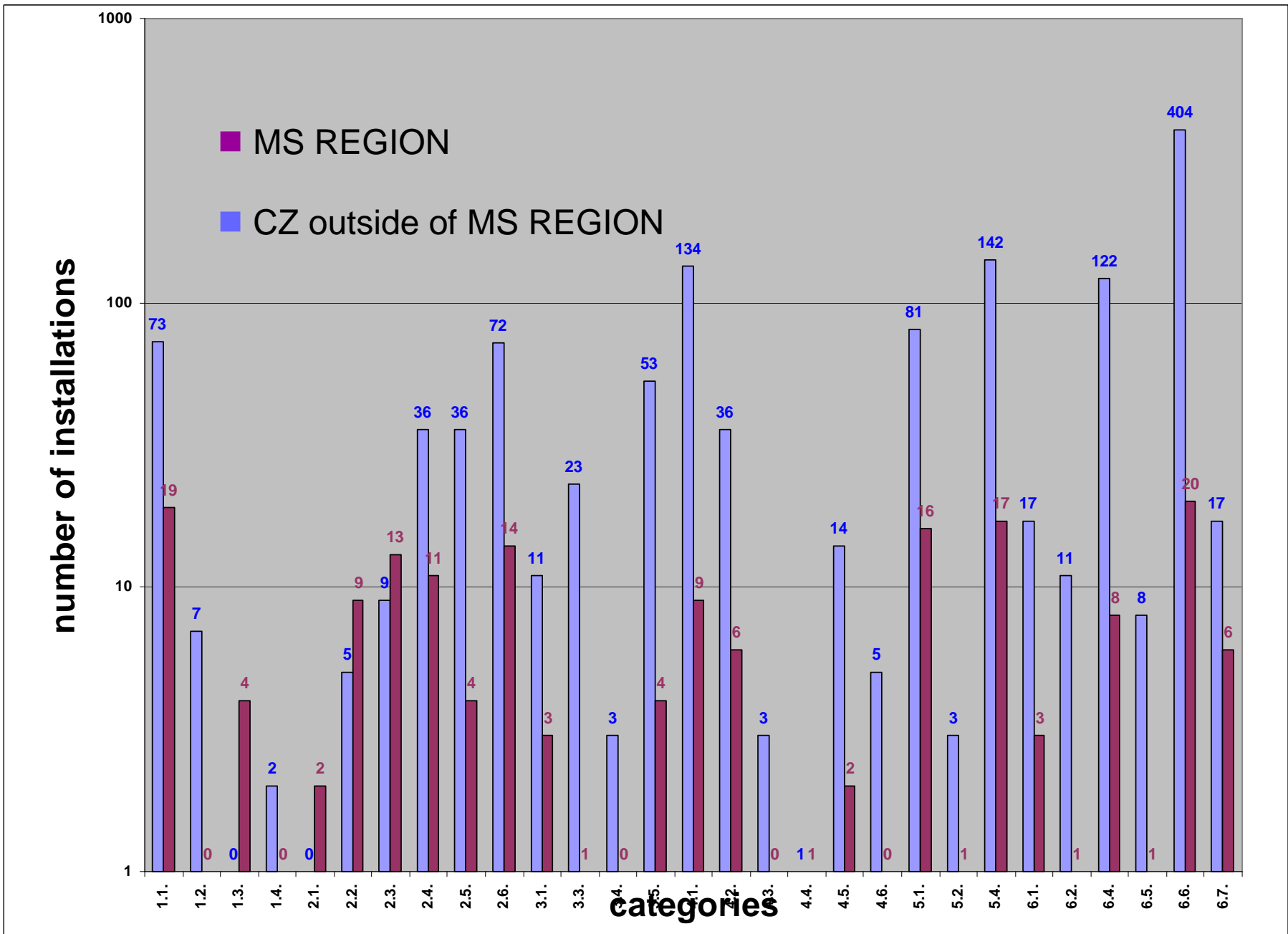
Emissions of Major Pollutants in Czech Regions

Region	TZL *		SO ₂		NO _x		CO		VOC *		NH ₃ *	
	[t / year]	%	[t / year]	%	[t / year]	%	[t / year]	%	[t / year]	%	[t / year]	%
City Prague	1 956.6	2.9	1 477.7	0.7	8 963.5	3.2	21 816.7	4.3	14 136.7	8.1	409.3	0.7
Central Bohemia	11 075.4	16.6	23 477.3	10.8	42 376.5	15.0	63 472.5	12.5	25 448.7	14.6	7 681.7	12.8
South Bohemia	5 415.4	8.1	9 940.9	4.6	14 155.1	5.0	28 649.4	5.6	12 363.7	7.1	6 790.8	11.3
Pilsen	4 819.3	7.2	10 430.2	4.8	14 270.9	5.0	24 761.3	4.9	10 269.0	5.9	5 736.7	9.6
Karlovy Vary	2 322.1	3.5	21 068.9	9.7	12 283.0	4.3	10 546.4	2.1	5 462.4	3.2	1 278.4	2.1
Usti	5 745.9	8.6	76 150.1	35.2	69 896.7	24.7	29 146.8	5.7	15 545.3	8.9	2 387.9	4.0
Liberec	2 142.9	3.2	2 994.4	1.4	5 139.4	1.8	12 413.7	2.4	6 403.2	3.7	1 432.0	2.4
Hradec Kralove	3 549.4	5.3	7 781.8	3.6	9 417.8	3.3	19 611.9	3.9	9 782.6	5.6	4 549.3	7.6
Pardubice	3 701.1	5.6	14 218.7	6.6	20 571.4	7.3	18 071.7	3.6	8 781.8	5.1	4 880.4	8.2
Vysocina	5 501.0	8.2	2 707.9	1.2	14 356.5	5.1	26 168.2	5.1	10 497.3	6.0	7 507.4	12.5
South Moravia	5 329.5	8.0	4 267.6	2.0	19 190.2	6.8	35 188.9	6.9	17 759.5	10.2	6 609.4	11.0
Olomouc	3 719.2	5.6	5 119.1	2.4	11 863.3	4.2	20 773.4	4.1	9 990.9	5.8	3 949.1	6.6
Zlin	2 397.5	3.6	65 29.6	3.0	8 357.2	2.9	14 658.9	2.9	9 348.4	5.4	3 036.2	5.1
Moravian-Silesia	9 094.4	13.6	30 381.9	14.0	32 350.5	11.4	183 014.1	36.0	18 107.0	10.4	3 671.6	6.1
Total	66 769.8	100	216 546.1	100	283 192.0	100	508 293.9	100	173 896.4	100	59 920.2	100

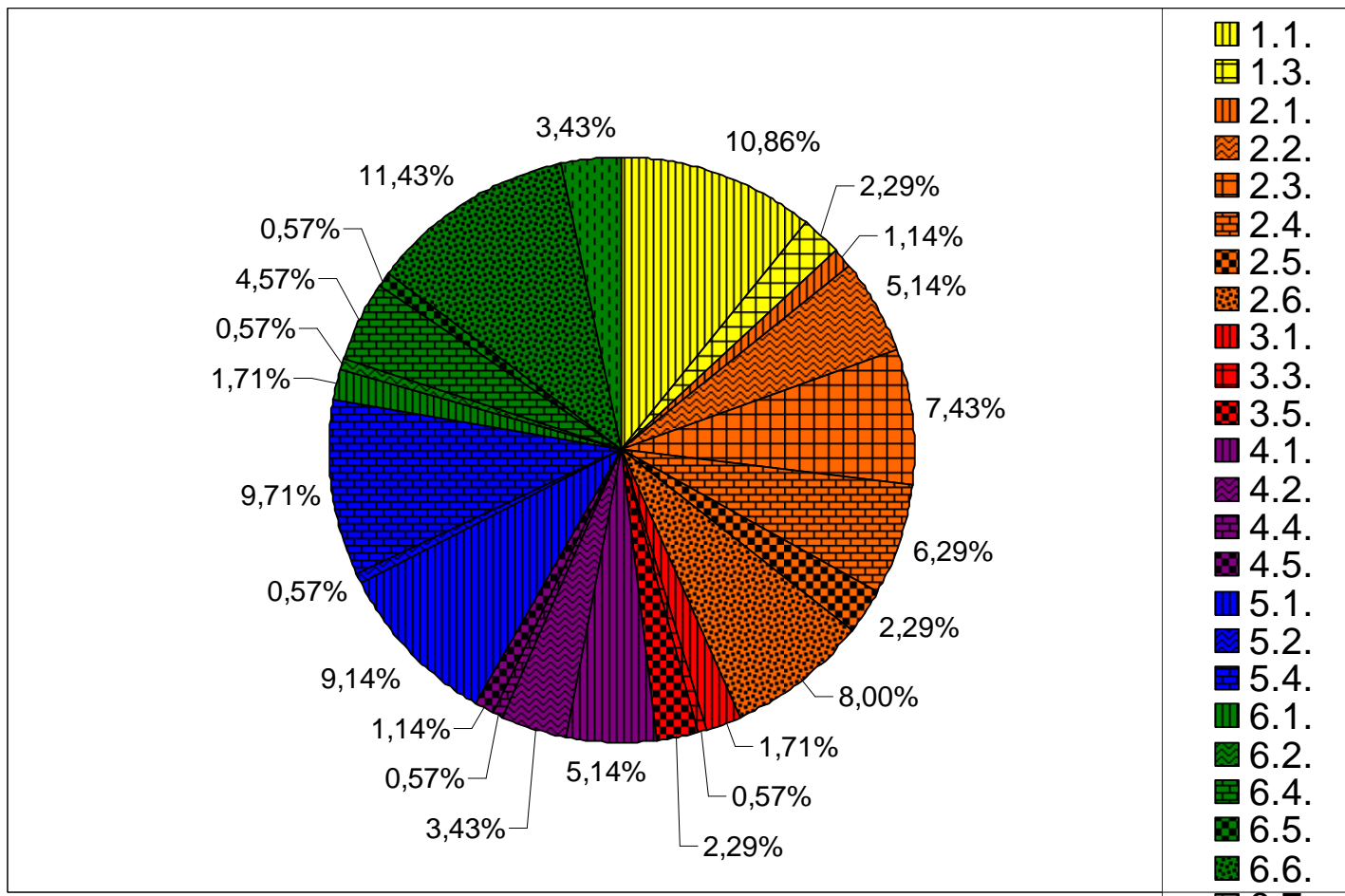


Old Ecological Burdens

- Liquidation of slurry ponds after the mining activity
- Restoration of the old coke plant area in the centre of Ostrava (35 hectares – 1 billion CZK/30 million USD)
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- Removal of spent oils ponds – transfer of ownership back to the state (expected costs 4.5 billion CZK/100 million USD)



SUMMARY OF INSTALLATIONS BY CATEGORIES (ANNEX 1 OF IPPC ACT) IN MS REGION



- Total of 155 IPPC installations
- Several operators in one industrial complex
- The biggest polluters
 - Coke Plants
 - Blast Furnace
 - Steelworks
 - Rolling Mills
 - Machinery & Foundry Plants
 - Combustion Power Plants
- 24 integrated controls per year
- Complaints about dust, odour, noise

Removal of spent oil ponds (lagoons)

Old Ecological Burden – New IPPC Installation

- Category 5.1. – installation for the disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day
- Production of alternative fuel for power plants
- Integrated authorization includes continuous odour monitoring to detect levels in nearby apartment blocks
- Many complaints about the smell of lagoons in summertime









TRADITIONAL METALLURGICAL PLANT

- The largest employer in the region
- The plant with more than a century old tradition
- Complaints by local residents
- Controlled by NGOs

Steelworks

Blast Furnace

Power Plant

Coke Plant



- Schedule of technology modernization
- The frequency of premissions cleaning doubled - for 2008 collected 1800 tons of dust (from fugitive emission sources), which is about 1000 tons more than in 2007
- The project of secondary steel dedusting has been completed, so the notorious red smoke is gone
- Planting of 1111 trees in the Ostrava region in 2009

For more information

Useful links

- Permitting process [www.env.cz/ippc.](http://www.env.cz/ippc)
- IPPC [www.ippc.cz.](http://www.ippc.cz)
- CEI [www.cizp.cz.](http://www.cizp.cz)
- Environmental IS www.zeus.cz

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