

Food Research Institute, Bratislava

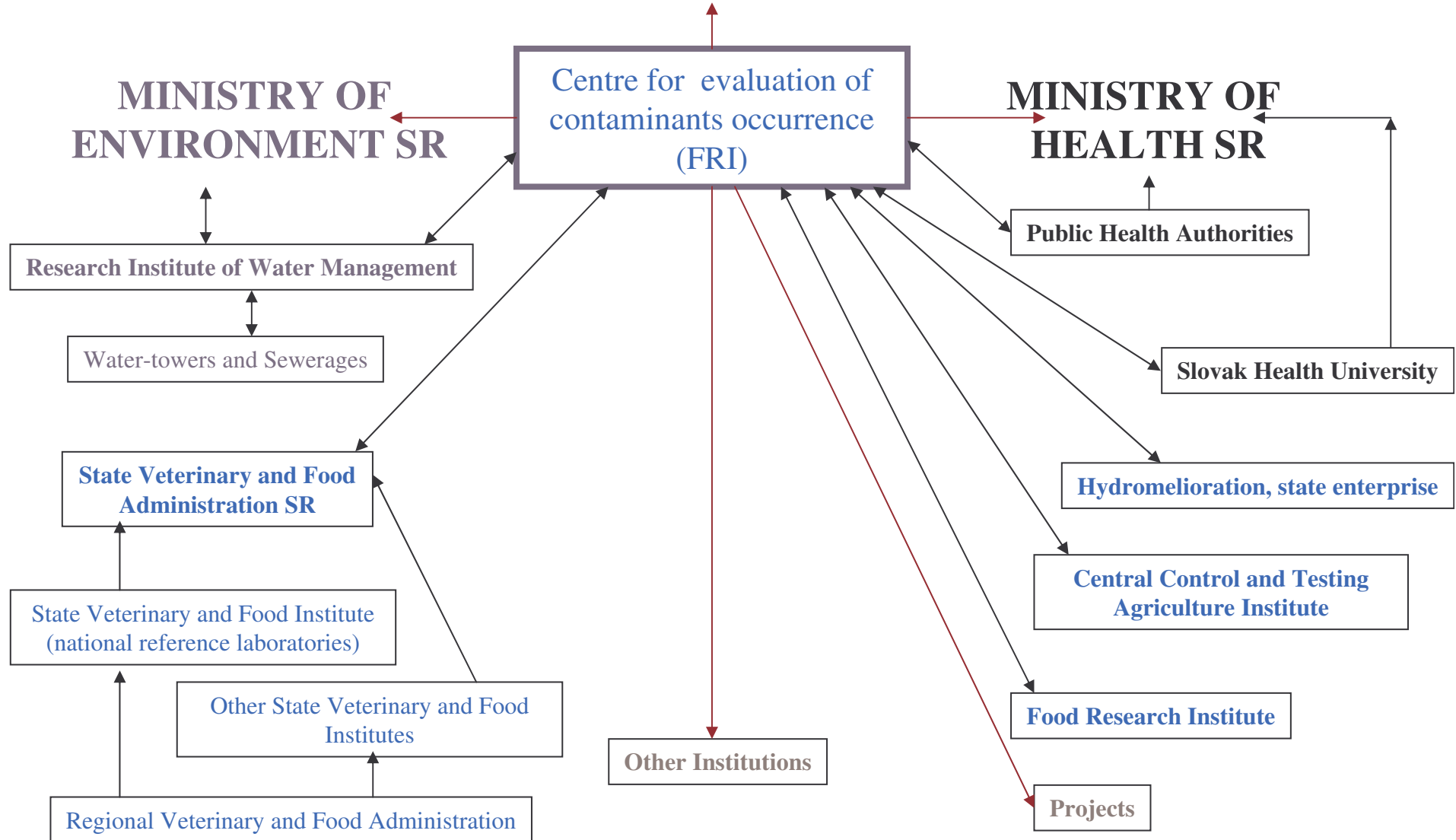


Food Safety in Slovakia

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System of data inputs and outputs

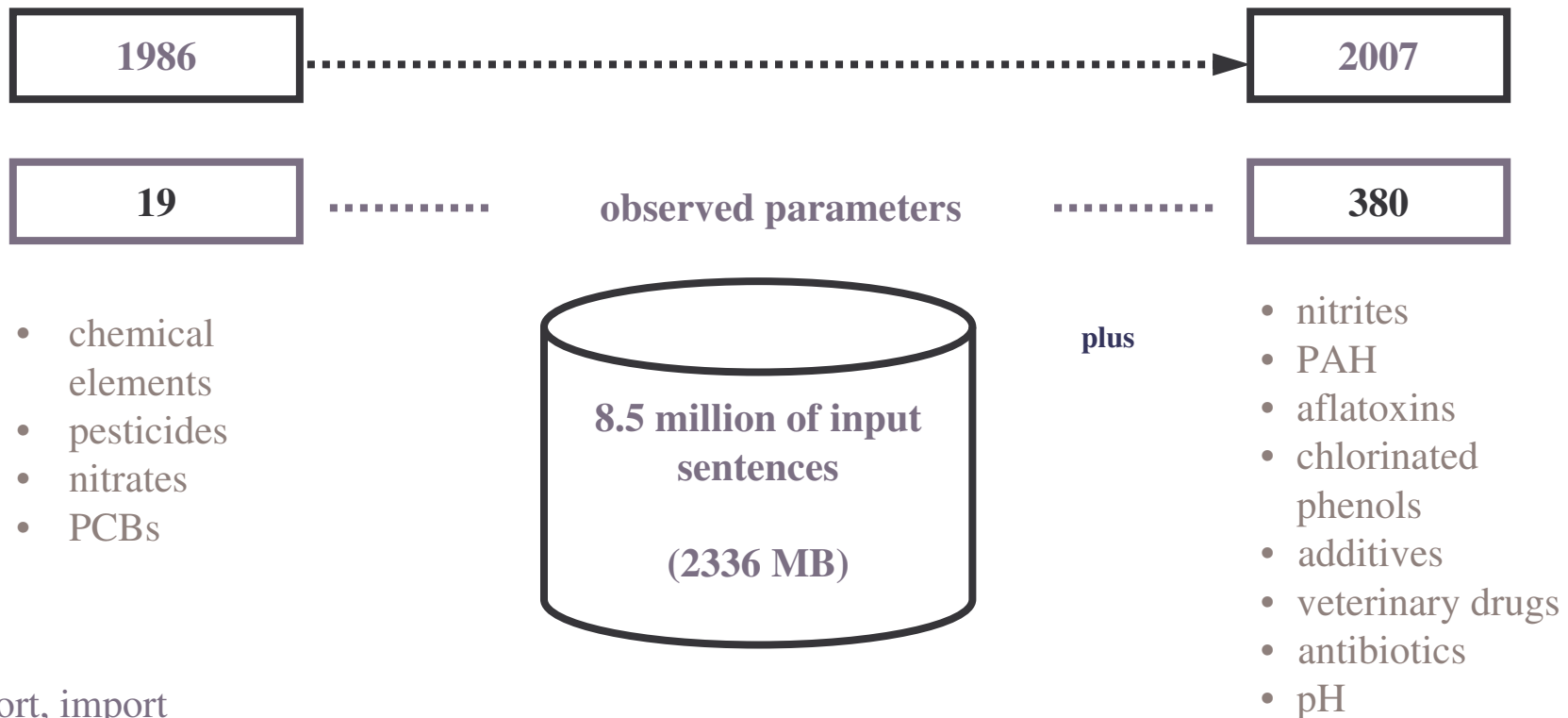
MINISTRY OF AGRICULTURE SR



System of data inputs and outputs

Department for Evaluation of Food Contaminants – 1986 - FRI

Collection and evaluation of data from control and monitoring



Export, import

Observed commodities - water (irrigation, drinking, feeding), feedstuffs, soil, plant raw material, animal raw material, foodstuffs



Information system on contaminants

Information system on contaminants

Stable Data Base

- ◆ SR Limits
- ◆ Foreign Limits
- ◆ Data Base AQA
- ◆ Codes of States
- ◆ Geographical broken-up of SR

Data from PMS - C

- ◆ Coordinated Pointed Monitoring
- ◆ Market Basket Monitoring
- ◆ Monitoring of Whole-day Diet and Baby Food
- ◆ Monitoring of game

Results of Control

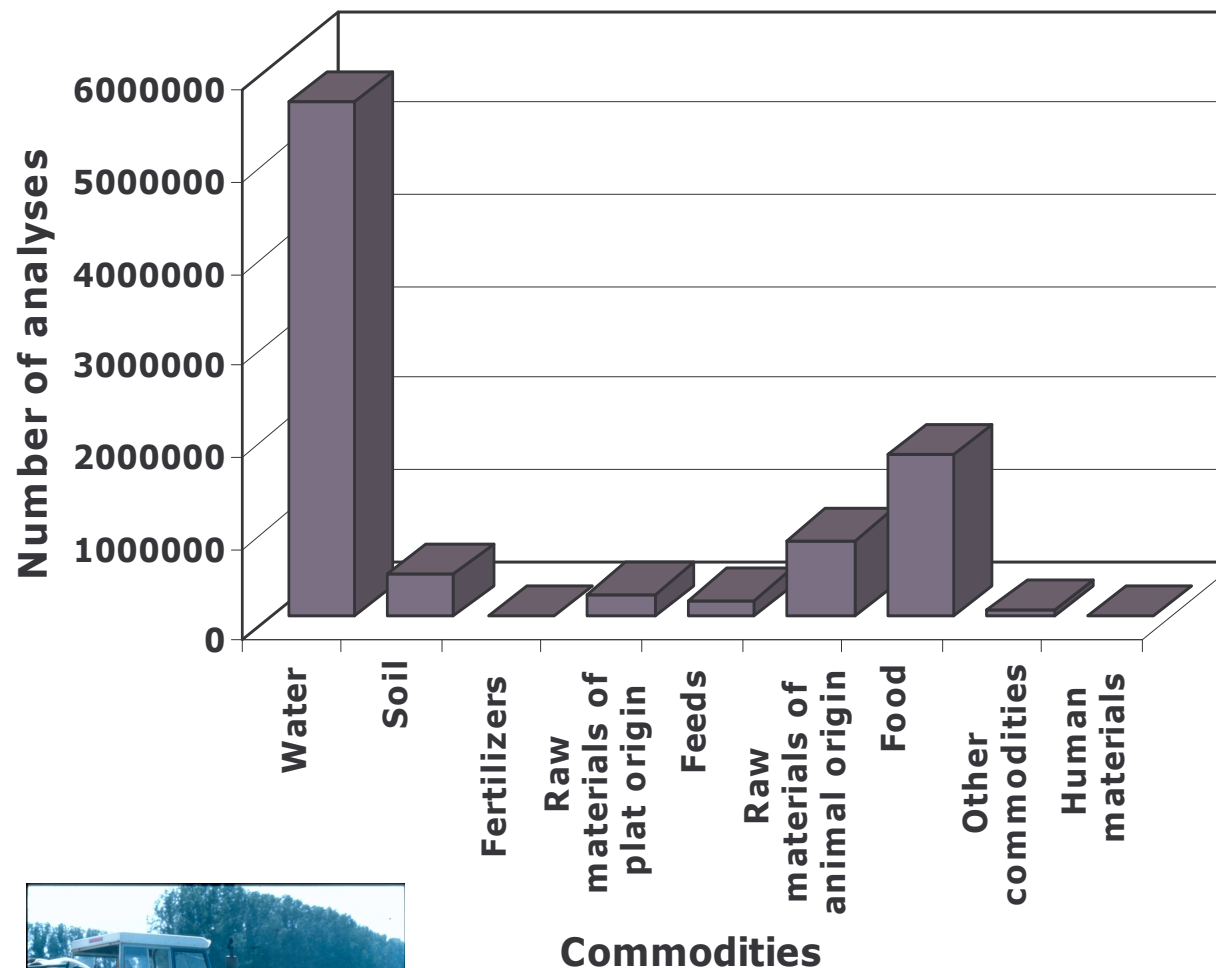
- ◆ Water
 - Irrigation
 - Drinking
 - Feeding
- ◆ Inputs into Soil
- ◆ Feedstuffs
- ◆ Plant Raw Material
- ◆ Animal Raw Material
- ◆ Foodstuffs
- ◆ Import

Data from Alternative Agriculture



Number of analyses in various type of commodities

- More than 9 156 331 analyses of observed parameters in water, agricultural soil, feed, raw material of animal and plant origin, food commodities and human materials (breast milk, human fat) have been carried out since 1986 in Slovakia.



- In general 912 various types of parameters have been observed during the last 20 years.

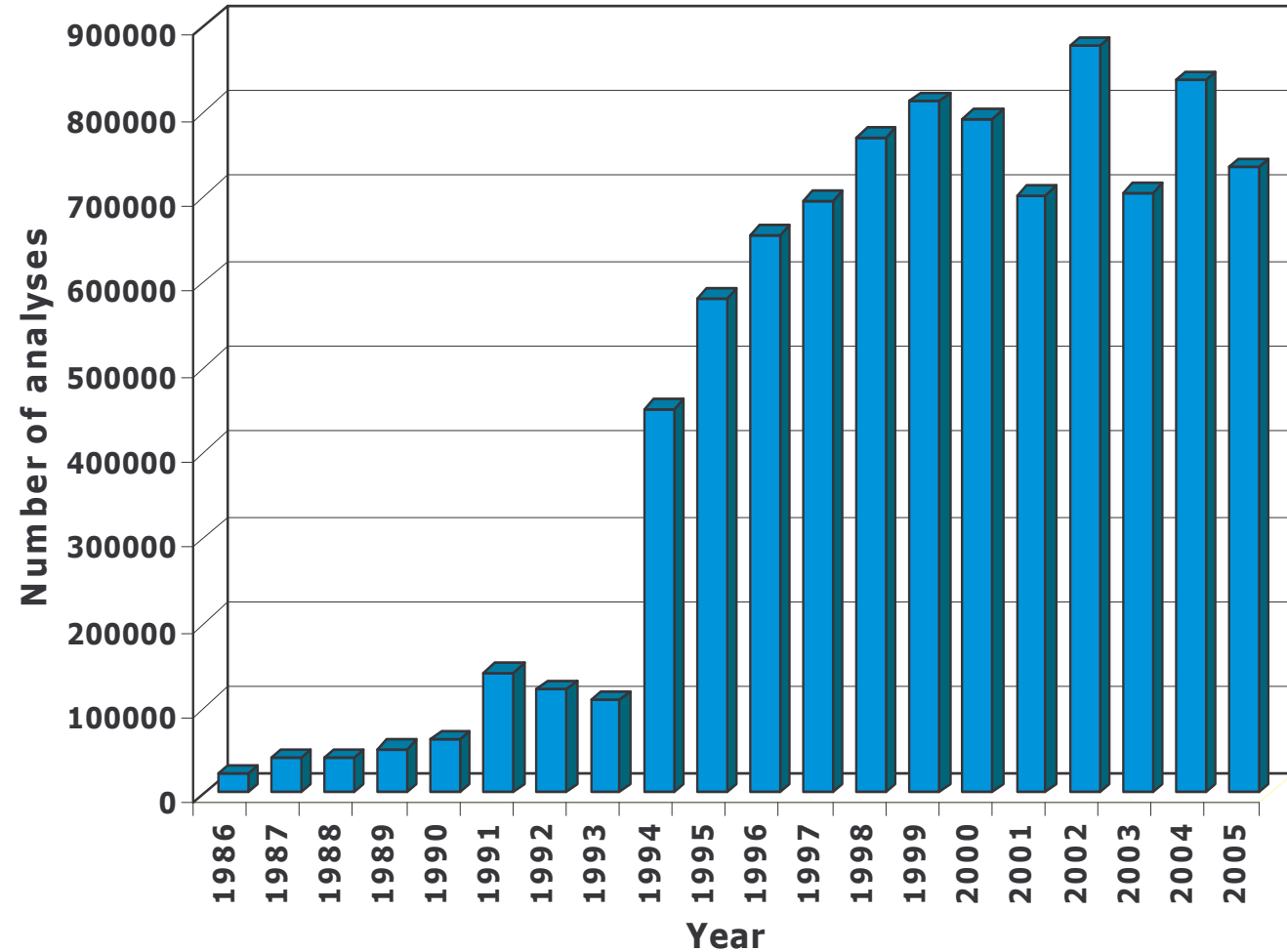


Monitored groups of parameters in food

Sledovaný parameter	Počet	Sledovaný parameter	Počet
Chemické prvky -25	810533	Biofyzikálne vlastnosti potrav.živ.pôvodu	3030
Aditívne látky - 107	427457	Organické kyseliny celkové	2917
PCB - 7	414929	Dusitany	2189
Mikrobiologické vyšetrenia - 94	400721	Aldehydy	1688
Pesticídy - 149	395633	Tuky	1038
Inhibičné látky	72278	Popol	943
Rezíduá antibiotík	60234	Mechan. a hydromech. vlastnosti	610
Veterinárne prípravky	46776	Elektrické vlastnosti	445
PAH	36096	Chlórované fenoly	399
Mykotoxíny	36088	Alkoholy	381
Dusičnany	31556	Biofyz.vlastnosti potrav.rastl.pôvodu	232
Lipidy celkové	27919	Chlórované benzény	174
Voda	27462	Prímesi a nečistoty	160
Rádioaktívita	23410	Fyzikálne vlastnosti	145
Endogénne cudzorodé látky	21081	Organické rozpúšťadla	138
Iné kontaminanty	18102	Vitamíny	66
Sušina celková	12644	Senzorické a optické vlastnosti	62
Sacharidy a príbuzné látky	12008	Cukry celkové a škroby	35
Iné ukazovatele	6674	Rozpustné a nerozpustné látky	33
Bielkoviny celkové	4323	Alkoholy a alkaloidy	21
pH	4102	Energetická hodnota	11
Termodynamické vlastnosti	3419	Celulózy a hemicelulózy	5
Ftaláty	3090		

Number of analyses from 1986 to 2005

- In 1994 the steep rise of number of analyses was due to addition of the database of drinking water



Evaluation of data

- **Report on control of contaminants**
- **Report on monitoring of contaminants in food and feed**
<http://enviroportal.sk/ism/spravy.php>
- **Statistical evaluation of results**
- **Graphical evaluation of results**
- **Geographical evaluation of results**
- **Calculation of exposure assessment of the population of the Slovak Republic to additives and contaminants**
- **Materials for the Administration of the Ministry of Agriculture of the SR (yearly)**
- **Materials for the Administration of the Ministry of Environment of the SR (since 2004)**
- **Materials for Governmental Deliberation of SR (1993-2003)**





Thank you for your attention

Angela Světlíková, Danka Šalgovičová