

Institute of Agricultural and Food Economics National Research Institute



Food Safety System in Poland

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Food adulteration - an old problem

- Code of Hammurabi (XVIII BC) Mesopotamia : rules of beer trade
- The Bible (the Wisdom of Sirach, II BC) "It is difficult for a merchant to keep himself from wrong doing, and for a retailer to be acquitted of sin" (Sirach 26:29)
- Pliny the Elder (23-76 AD): *the Natural History:* adulterated products in ancient Rome:
 - bread (chalk)
 - wine (water, lime, gypsum, marble)
 - cheese (thyme, vinegar)
- The Assize of Bread and Beer (1266) England linking the price of cereals with the price of bread and beer
- Reinhaitsgebot (1516) Bavaria/Germany beer standarsd: water, hop, barley brewing and beer trade
- Krakowska taksa żywnościowa (*Cracow Assize of Food*, 1573) Poland rules of trade: bread, beer, wine, meat, fish *beer standarsd: water, hop, wheat*

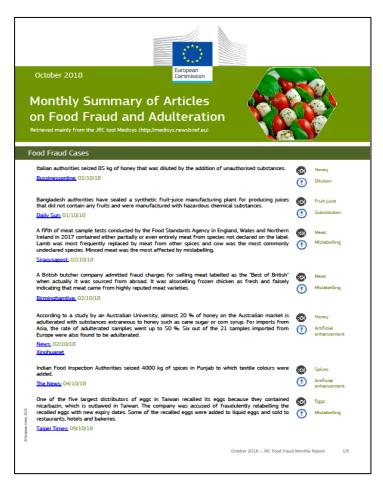
Food adulteration - an old problem (cont.)

The average level of food adulteration

- Canada (the 1850s 70s) over 50%
- Great Britain (the 1850s) over 65%
- USA (XIXth XXth) up to 70-80% (ketchup, smoked meat, sausage, jelly, canned peas, candies)

Food adulteration – present day

EU Monthly summary of articles on Food Fraud and Adulteration (since September 2016)

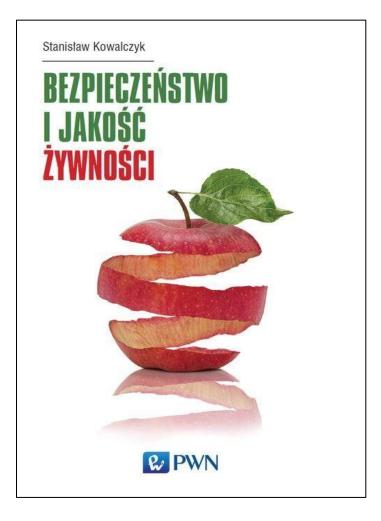


Food adulteration – present day

EU Monthly summary of articles on Food Fraud and Adulteration (October 2018)

- (Great Britain): A fifth of meat sample controlled by the British Food Standards Agency in 2017 contained meat from species not declared on the label.
- (Australia): According to a study by an Australian University, 20 % of honey on the Australian market is adulterated; for imports from Asia up to 50 %, from Europe – up tp 30%.
- (Spain): 37 % of fish dishes in restaurants in Madrid adulterated (other species of fish).
- (Italy): Italian authorities seized 300,000 litres of adulterated wine (synthetic flavourings were added)

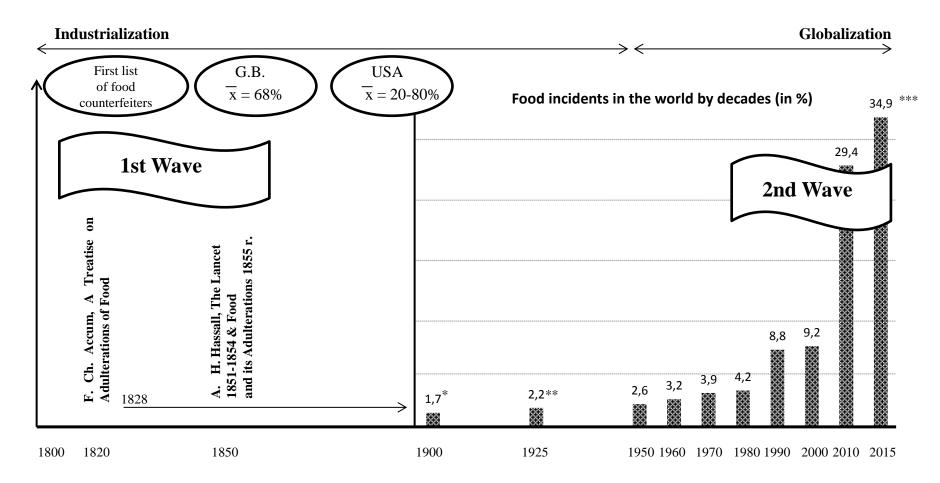
Food adulteration – present day



over 700 food incidents from around the world

A food incident is where concerns about actual or suspected threats to the safety of food and feed require intervention to protect consumers. [UK Food Standards Agency]

Food adulteration in the world (1800 – 2015)



* 1,7% - do 1900 r., ** 2,2% - lata 1900-1925, *** 34,9% - po 2010 r.

Źródło: Opracowanie własne.

1st Wave: XIXth Century

Main causes:

- industrialization
- emergence of an "anonymous consumer"

Methods of adulteration:

- use of substances harmful for health and life

2nd Wave: XXth/XXIth Century

Main causes:

- globalization,
- global/long food supply chain (more and more intermediaries)

Methods of adulteration:

- use of substances less harmful for health and life

.....more for wallet

Food adulteration – a global problem

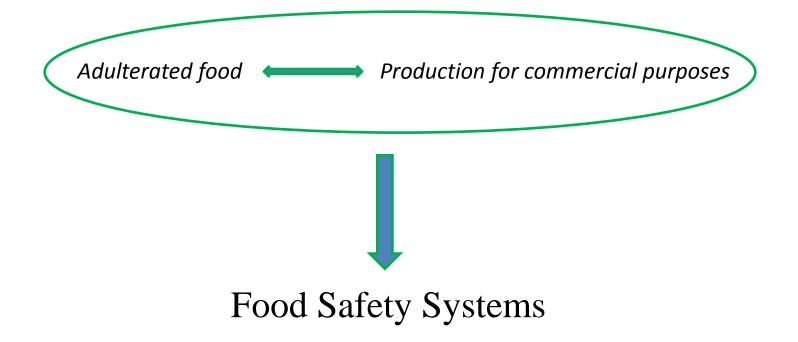
",,with globalization, goods and products can almost flow freely between countries, regions, and continents. So the food safety problem is therefore no longer a national or regional issue, but rather a global one.

"Food safety problem is a global issue" By Ho Chi-Ping ChinaDaily, 2011-06-15 http://www.chinadaily.com.cn/hkedition/2011-06/15/content_12697152.htm Access: 04-12-2018

Food fraud is a problem around the world leading to unease and effects to peoples health

Dr . Amy Kircher, Director of the Food Protection and Defense Institute University of Minnesota https://www.thescientistschannel.com/disrupting-food-adulteration-around-the-world Access: 04-12-2018

Consequences of globalization and food adulteration

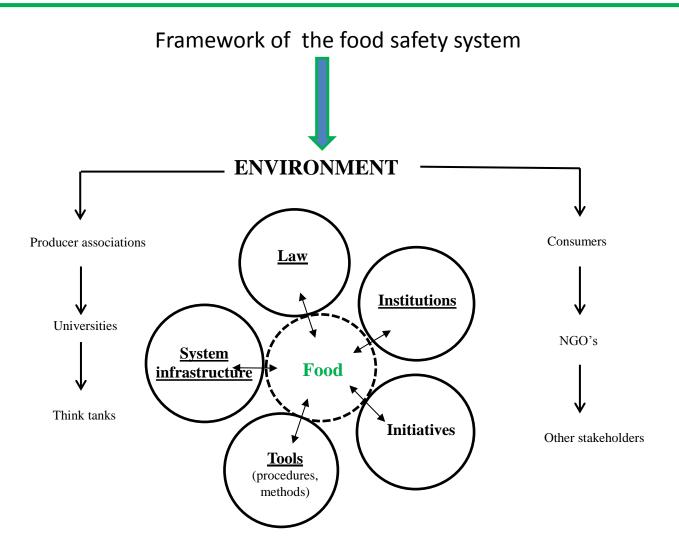


What is the Foof Safety ?

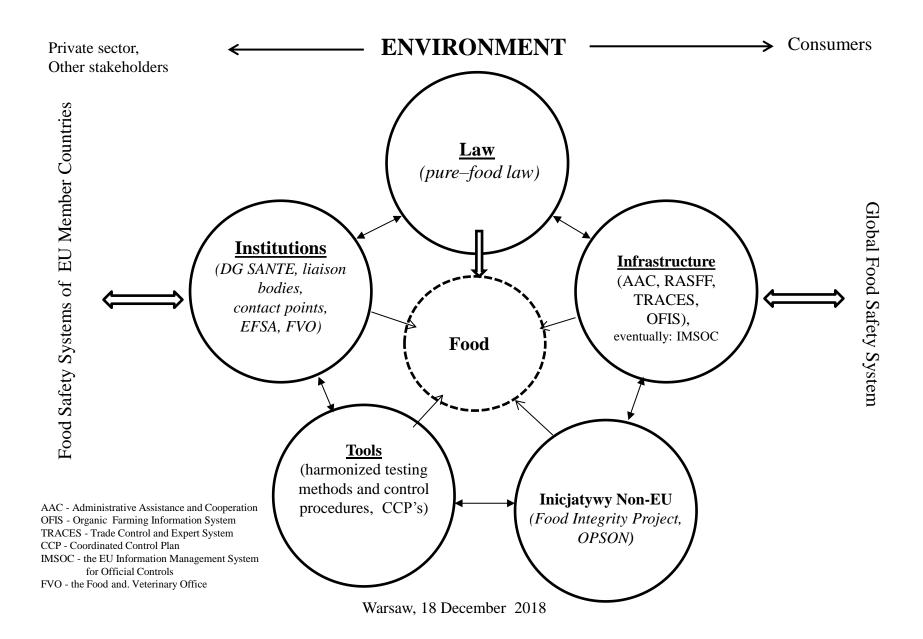


The whole of activities aimed at minimizing the risk of production and buying contaminated or adulterated food

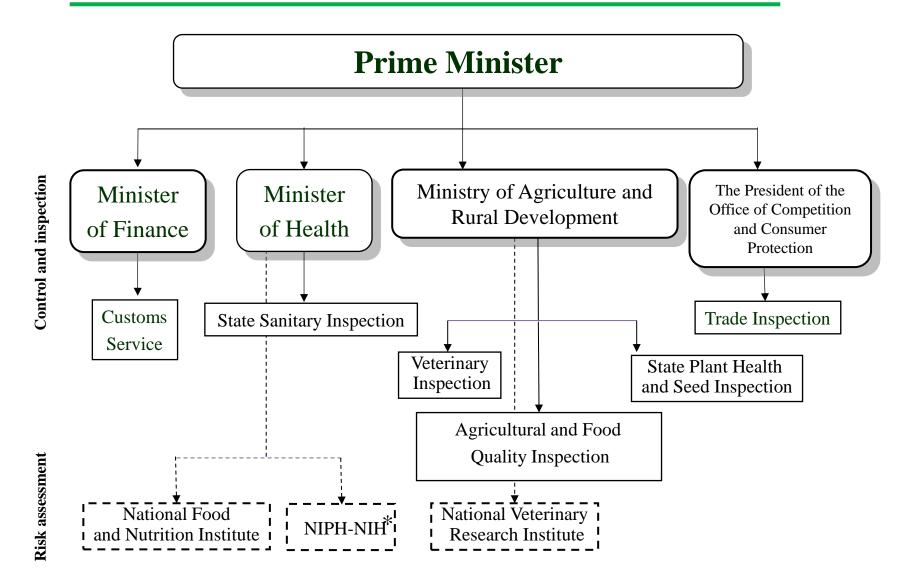
What is the Foof Safety System ?



EU Food Safety System



Structure and Organization of Official Services Responsible for Food Control in Poland



* National Institute of Public Health-National Institute of Hygiene (NIPH-NIH)

State Sanitary Inspection

official control of:

- foodstuffs hygiene,
- pesticide residues in food,
- contaminants,
- import of food of non-animal origin,
- materials and articles intended to come into contact with food,
- food additives,
- GMO in food,
- food supplements
- novel food.

Plant Health and Seed Inspection

- evaluation of how plants are threatened by pests,
- examination of samples of plants, plant products, soil and grounds to state the presence or the absence of pest organisms.





Veterinary Inspection

- examination of slaughtered animals and their meat,
- border veterinary control,
- supervision of safety of animal origin foodstuffs, including veterinary conditions of production,
- processing, storing, transporting and retail sale,
- supervision of producing, marketing and using of feedingstuffs,
- supervision of usage of pharmaceuticals and medical substances intended for animals,
- control of the occurrences of chemical and biological, medicinal and radiation contamination residue in foodstuffs of animal origin and feedingstuffs,
- supervision of health of animals
- supervision of compliance with regulations on animal welfare,

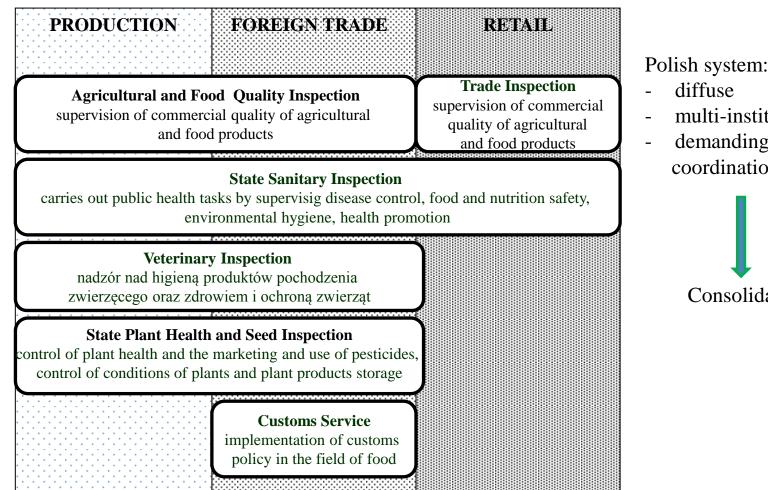
Agricultural and Food Quality Inspection

- "Economic safety", control of commercial quality of agricultural and food products in food processing plants.
- control of agricultural and food products labelled, with registered protected geographical indications, protected designations of origin or certificates of specific character,
- control of agricultural and food products storage and transport conditions, ٠
- control of organic production, ٠
- co-operation with paying agencies (Agency for Restructuring and Modernisation of ٠ Agriculture) in the scope of the Common Agricultural Policy,
- co-operation with or participation in international organisations working in the area ٠
- of commercial quality and international marketing of agricultural and food products (Codex ٠ Alimentarius Commission, United Nations/Economic Commission for Europe - Working Party on Agricultural Quality Standards, OECD - Standards for Fruit and Vegetables).

Trade Inspection

- control of commercial quality of agricultural and food products in wholesale and retail sale,
- control of labelling of agricultural and food products in wholsale and retail sale, ٠
- mediation in disputes between consumers and operators to protect consumer interests and ٠ rights

Structure and Organization of Official Services Responsible for Food Control in Poland

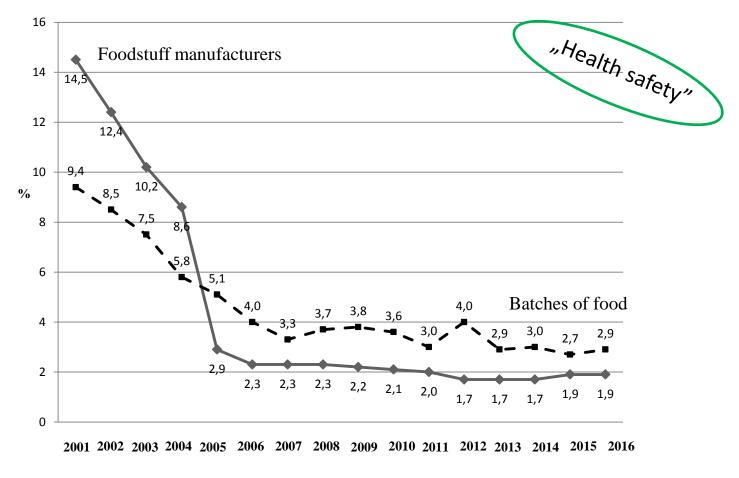


diffuse

- multi-institutional
- demanding good coordination



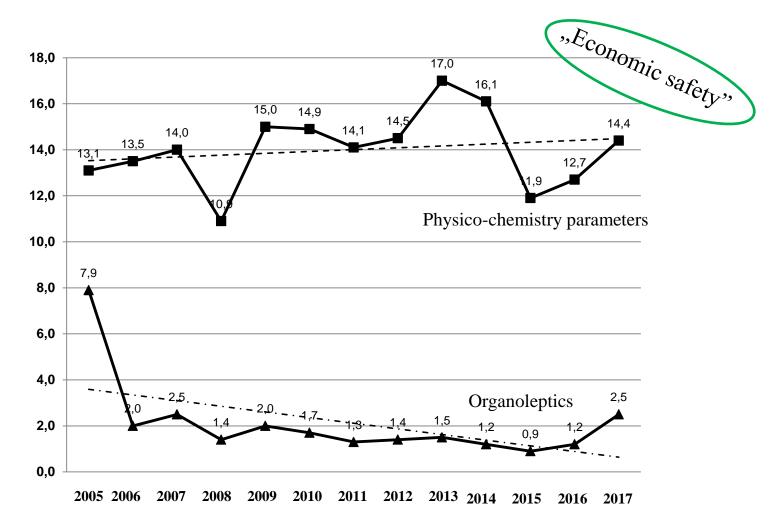
Part of food batches with inadequate health quality and foodstuff manufacturers with sanitary conditions not in line with the requirements of food law.



Source: Control results of State Sanitary Inspection

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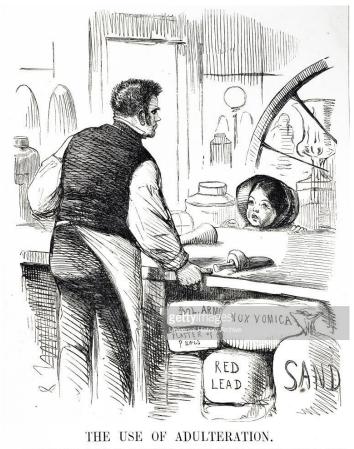
Inspected foodstuff batches showing transgressions according to quality control parameters as found during 2005- 2017 (in %)



Source: Control results of Agricultural and Food Quality Inspection

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Thank you for your attention !



<u>Little Girl:</u> Please, a quarter of a pound of your best tea to kill the rats and a ounce of chocolate to dislodge of beadles

Little Grd. "IF YOU PLEASE, SIR, MOTHER SAYS, WILL YOU LET HER HAVE A QUARTER OF A POUND OF YOUR EEST TEA TO KILL THE RATS WITH, AND A OUNCE OF CHOCOLATE AS WOULD GET RID OF "FEES HERGE BEADLES"

Source: https://www.gettyimages.co.uk/detail/news-photo/cartoon-titled-adulteration-of-food-dated-19th-century-news-photo/973263134.