











# The methodology of the Italian Total Diet Study 2012-2014

- National Institute of Health (ISS)
- National Institute of Environmental Health Sciences (NIEHS)
- National Institute of Occupational Safety and Health (NIOSH)
- National Institute of Standards and Technology (NIST)
- National Institute of Environmental Health Sciences (NIEHS)
- National Institute of Occupational Safety and Health (NIOSH)
- National Institute of Standards and Technology (NIST)



Piero Zanoni





## Health risk assessment

### Effect assessment

### Exposure assessment

- Exposure sources
- Exposure route
- Exposure level
- Highly exposed groups

### Hazard identification

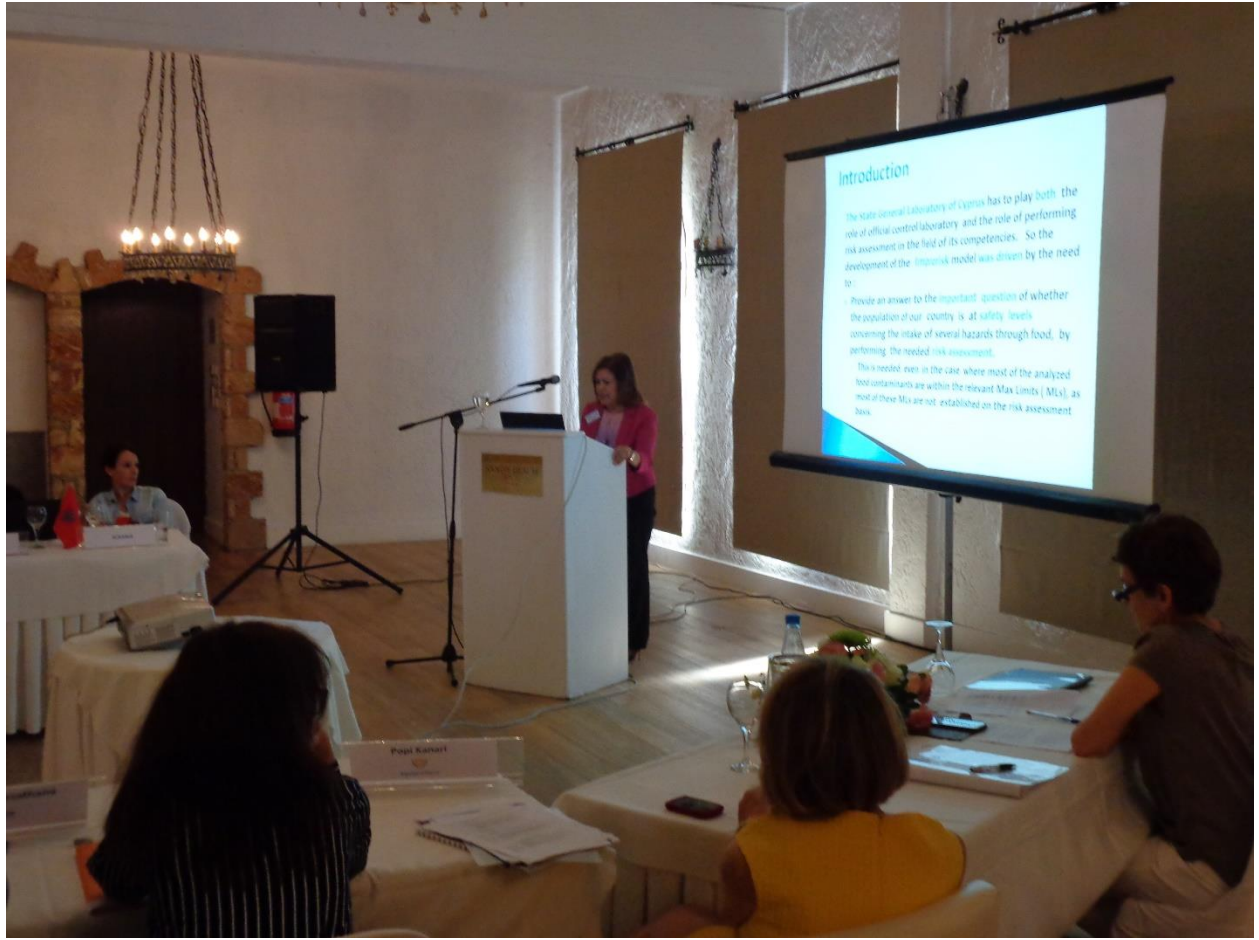
Identification of negative health effects  
→ target organ and critical effect

### Hazard characterization

- Selection of critical data
- Mechanism of toxicity
- Dose-response for critical effect
- "Point of departure"
- Kinetic and dynamic variability
- Sensitive groups

### Risk characterization

Compare estimated exposure and safe exposure level



## Introduction

The State General Laboratory of Cyprus has to play both: the role of official control laboratory and the role of performing risk assessment on the field of its competencies. So the development of the intrinsic risk model was driven by the need to:

- Provide an answer to the important question of whether the population of our country is at safety levels concerning the intake of several hazards through food, by performing the needed risk assessment.

This is needed even in the case where most of the analyzed food contaminants are within the relevant Max Limits (MLs), as most of these MLs are not established on the risk assessment basis.



























