



## International risk assessment for chemicals in food

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## Fighting against hunger

- Feeding 9 billion people by 2050
- Generating incomes by facilitating access to international market
- 35% of world's food supply would be lost without pesticides



## Ensuring food safety

- Pesticides potentially harmful for human health
- Scientific methods to assess the risks are improving
- 30 % of pesticides used in developing countries do not meet international criteria



3 | EuroMix kick-off meeting - 20-21 May 2015



## Risk-based approach

WHO promotes a risk-based approach for countries to set MRLs for pesticides in food



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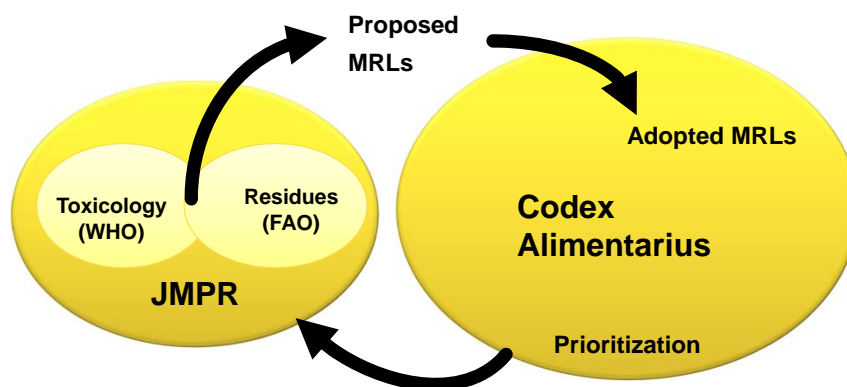


# Good Agricultural Practices

WHO supports the development and implementation of GAP for pesticide application



## General procedure



## Respective roles of JMPR and Codex

- JMPR
  - About 10 new compounds per year and 2 to 4 periodic re-evaluation
  - About 200 to 300 Maximum Residue Levels proposed by year
  - Possibility for Member States to request for re-evaluation based on public health concern and supported by adequate data
- Codex Committee on Pesticide Residues
  - About 200 pesticides regulated
  - About 3,500 MRLs adopted by Codex
  - Electronic working group establishing the list of priorities for JMPR

## The JMPR assessment

- Evaluation of toxicological data
- Evaluation of the significance of metabolites and degradates
- Establishment of Acceptable Daily Intake (Chronic) and Acute Reference Doses (Acute)
- Estimation of chronic (IEDI) and acute (IESTI) exposure
- Proposal for Maximum Residue Levels

## Key challenges for JMPR

- Evaluation of the significance of metabolites and degradates
- Interpretation of minor and adaptive effects
- Consider cumulative assessment group
- Consider risk for less-than-lifetime exposure
- Increase the total number of compounds evaluated by JMPR
- Increase the number of compounds included for periodic re-evaluation and supported by Member States

## JMPR database

<http://apps.who.int/pesticide-residues-jmpr-database>

### Inventory of evaluations performed by the Joint Meeting on Pesticide Residues (JMPR)

This inventory summarizes evaluations of pesticides that have been performed by the Joint FAO/WHO Meeting on Pesticide Residues (JMPR). It does not include the maximum residue levels (MRLs) that have been recommended by JMPR.

Maximum residue limits adopted by Codex Alimentarius Commission are available on: [www.codexalimentarius.org/standards/pesticide-mrls/](http://www.codexalimentarius.org/standards/pesticide-mrls/)

0-9   A-C   D-F   G-I   J-L   M-O   P-R   S-U   V-Z   All

**Thank you**

**Question ?**