

EU-funded Project



Monitoring
and
MoniQA
Quality
Assurance

“Towards the harmonisation of analytical methods for monitoring food quality and safety in the food supply chain”

Contract N0. FOOD-CT-2006-36337

www.moniqa.org

MoniQA

www.moniqa.org



SIXTH FRAMEWORK PROGRAMME



MoniQA

Network of Excellence



Funded by the European Commission
within the Sixth Framework Programme (FP6)
Topic T5.4.5.1: Quality and safety control strategies for food (NOE)

Coordinator:

Roland Ernest Poms, ICC – International Association for
Cereal Science and Technology, Vienna, Austria

33 member institutions from 20 countries / 4 continents
Currently: 92 registered institutions from 35 countries

A total of **155 researchers** including 40 doctoral students

Duration: **5 years** – starting 1 February 2007

EU funding: 12.3 M €



www.moniqa.org



SIXTH FRAMEWORK
PROGRAMME



Motivation for MoniQA

- **New EU Regulations**
(e.g. food allergens, mycotoxins, other food contaminants)
- **Fragmentation of research and standardisation**
(e.g. little or no communication between research centers and standardisation bodies, duplication of work, more collaboration, decreasing costs...)
- **Limited validity of standardisation/validation certificates**
- **Need for rapid methods**
- **Lack of appropriate validation protocols for new and rapid methods**
- **Lack of reference methods and reference materials for some analytes**
- **Dependance on voluntary work**

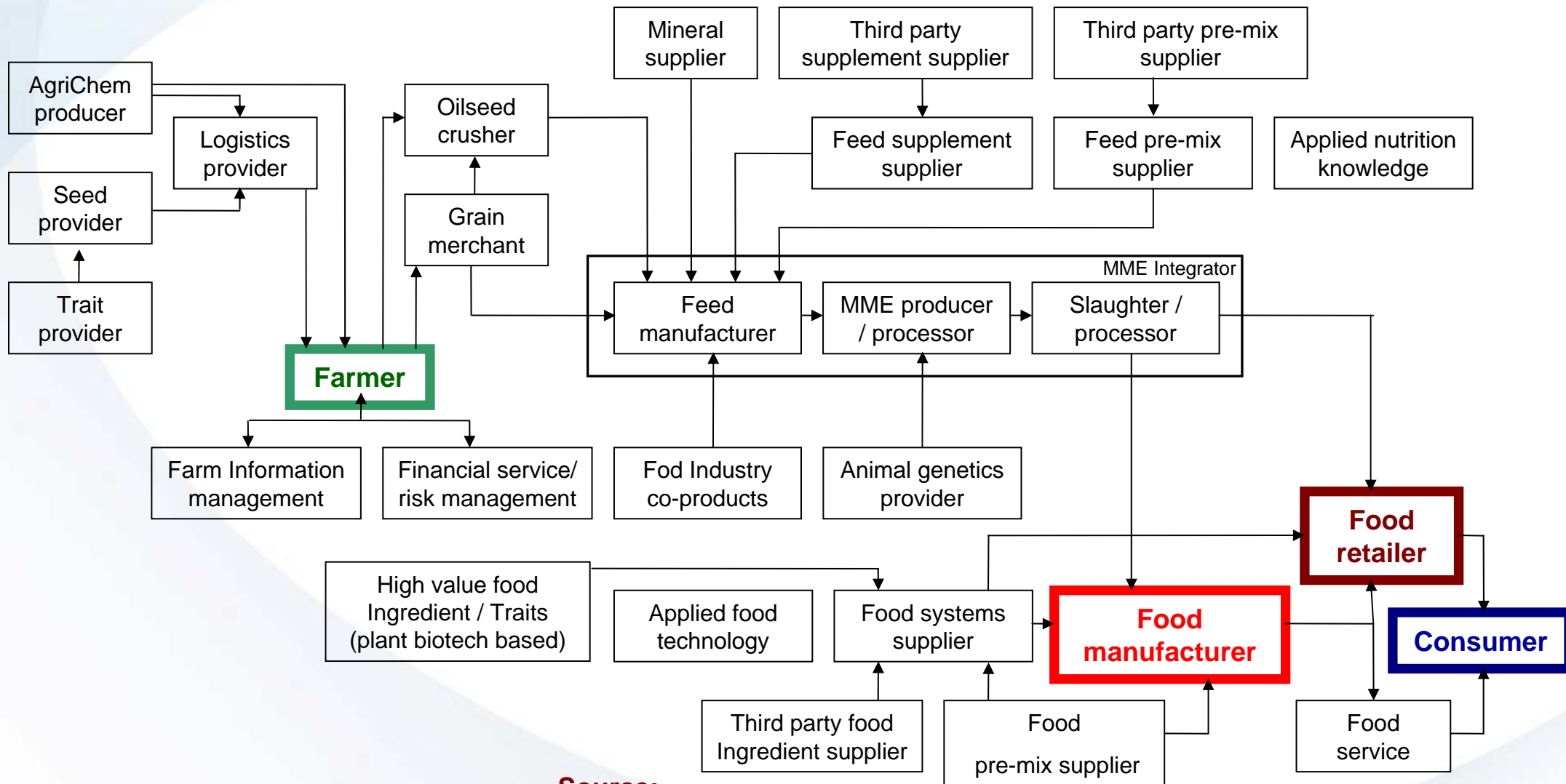
MoniQA in a nutshell

Scientists from 20 countries collaborate in the MoniQA network to harmonize worldwide food quality and safety monitoring and control strategies

Harmonised food quality and safety control adds value in the food chain and will improve consumer confidence

Socio-economic impact assessment will enhance effectiveness and efficiency of new food quality and safety regulations

Total Food Supply Chain



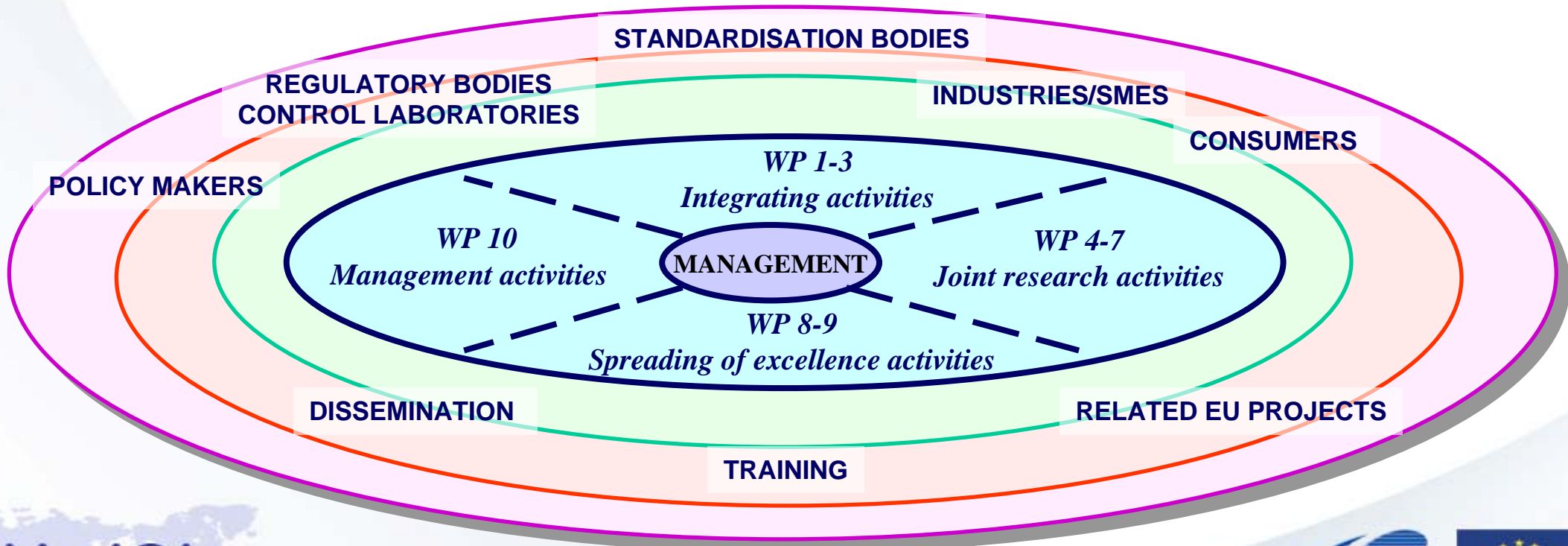
Source:
European Technology Platform on Food for Life

Towards the harmonisation of analytical methods for monitoring food quality and safety in the food supply chain

Countries Involved:

AT, BE, BG, DE, ES, FIN, GR, HU, IT, NL, NO, PL, TR, UK
China, Egypt, Indonesia, Israel, New Zealand, Vietnam

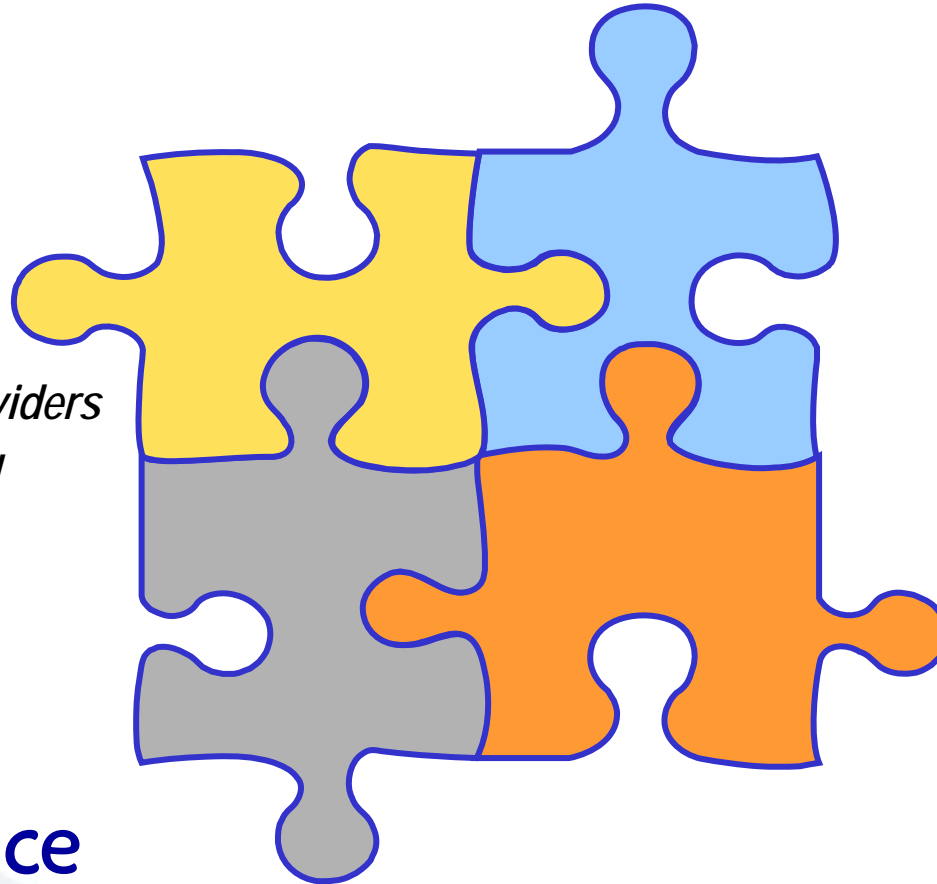
EU funding: 12.3 M €



Stakeholders

Industry / SMEs

- *Food Manufacturers*
- *Retailer*
- *Food Industry Lobby*
- *Method providers / Test kit providers*
- *Providers of Reference Material*
- *Laboratories*
- *Trade organisations*



Authorities

- *National / International Regulatory Bodies*
- *Validation, Standardisation, Proficiency Testing Bodies*
- *Authorities / Policy makers*
- *European Commission*

Research & Science

- *Universities*
- *Research institutes* - *PhD students*
- *Young scientists*
- *Senior Scientists*

Consumer

- *Consumer Protection Group*
- *Consumer organisations*
- *The press and media*

Topics

- **HACCP**
- **Sampling**
- **Use and validation of rapid methods** (DNA-based methods, ELISA-based methods, spectroscopy-based methods, advanced technologies)
- **Availability and use of Reference Materials**
- **Shelf life and storage of food products**
- **Traceability of food products and components**
- **Food safety issues** (biotoxins, food allergens, microbiological contaminants, banned and toxic ingredients, animal feed residues, plant production residues, industrial residues)
- **Food quality issues** (authenticity of raw materials and food products, indicators for processing and storage history, shelf life quality indicators, packaging/contact materials, chemical indicators)
- **Social and legal aspects**
- **Economical impact**

Work Packages

WP1	Coordinating and merging research portfolios
WP2	Personnel exchange and mobility
WP3	Achieving sustainability
WP4	Harmonisation and standardisation of analytical methods
WP5	Advanced process and ICT technologies
WP6	Development of database for food safety hazards
WP7	Economical impact and cost efficiency
WP8	Dissemination and Communication Management
WP9	Joint education programmes, training tools and supervisory bodies
WP10	Consortium Management

MoniQA Expected Results

Expected Result	Main beneficiaries outside of the Network
<i>Durable integration</i>	Authorities, standardisation bodies, industry / SMEs, consumers
<i>Workshops, conferences</i>	Associates, Industry, SMEs, interest groups, consumers
<i>Mobility programme and training</i>	Researchers, PhD students, academic teaching personnel especially INCO and Third countries
<i>Guidelines for validation and presentation of results</i>	Associates, standardisation bodies, authorities, providers of analytical methods and technologies, SMEs
<i>Database: food safety and quality analytical methods</i>	Associates, food manufacturers, control laboratories, authorities, providers of methods, SMEs
<i>Follow up research projects</i>	Research institutions, SMEs,
<i>Publications</i>	All stakeholders
<i>Better Regulations</i>	European Commission, Food Manufacturers, Consumer
<i>Research Agenda 2010</i>	Research institutions, SMEs, European Commission

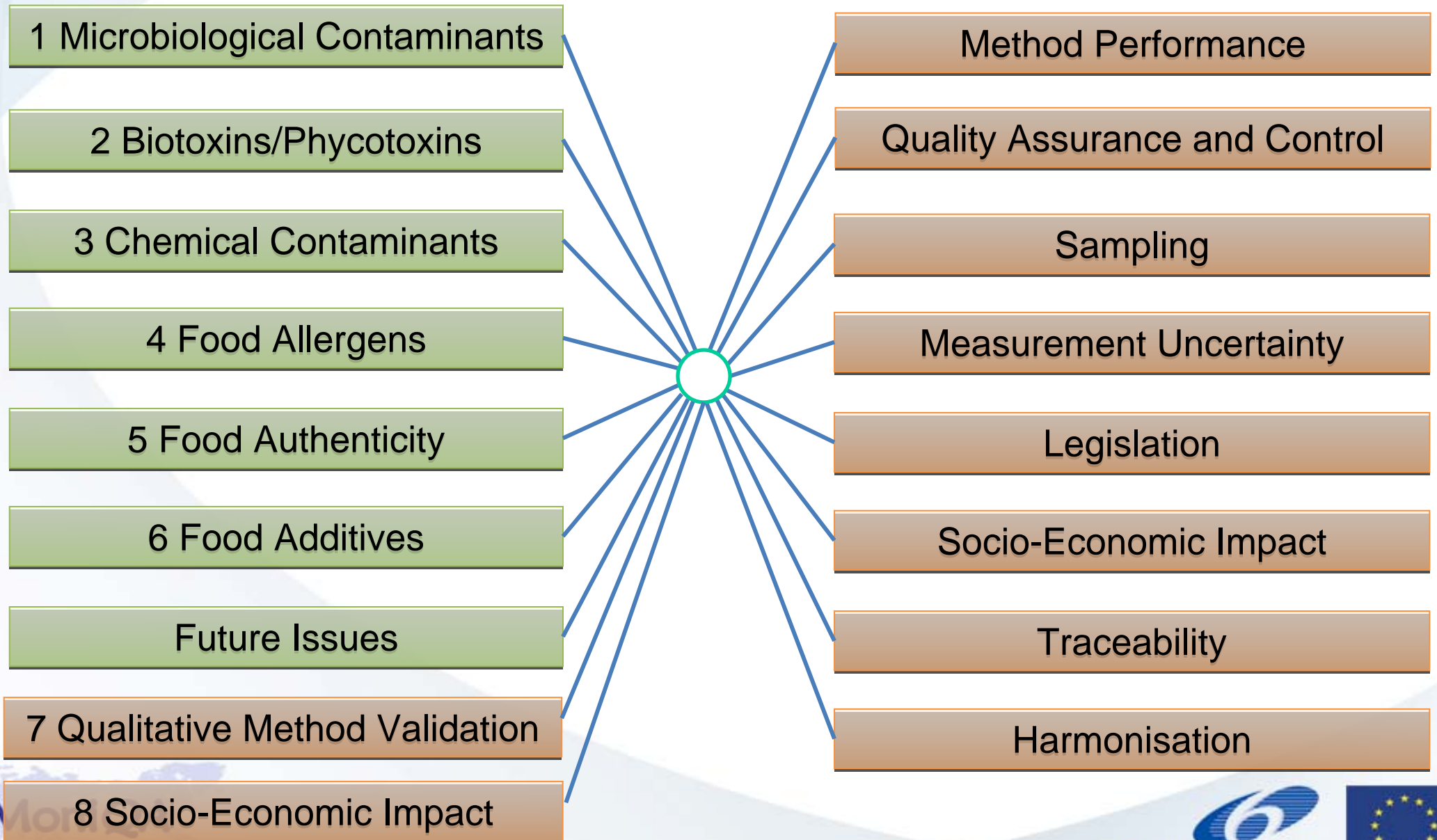
Key Deliverables

1. The MoniQA global food quality and safety **research network**
2. A fully functional **mobility programme**
3. **A sustainability programme** and related activities
4. **Harmonisation guidelines** for analytical methods and emerging technologies
5. Report of **modernisation potential** (advanced on-line technology, research agenda 2010 – 2020).

Key Deliverables cont'd

6. **Database** of food quality and safety issues and corresponding analytical tools
7. **Socio-Economic impact** analysis of new regulations and implementation of (new) HACCP systems
8. **Knowledge management platform and culture; dissemination activities**
9. **International curricula** of recognised training courses (including e-learning)
10. An efficient and quality assured **network management scheme** that can be **sustained beyond the EC funding**.

Working Groups



The MoniQA Vision

Year 1

Orientation

Resource inventories
Assess best practice
Establish stakeholder groups
Design databases

Year 2

Structuring

Resource sharing concepts
Launch databases
Sustainability strategies
Joint education concept

Year 3

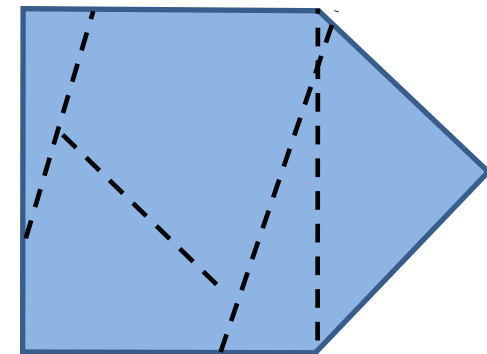
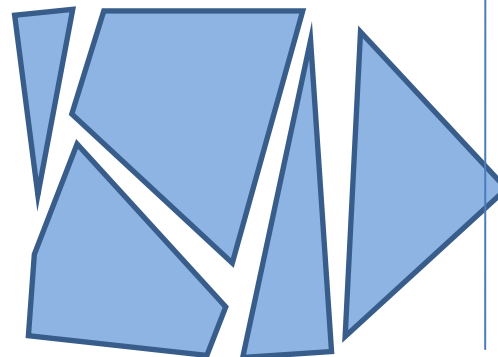
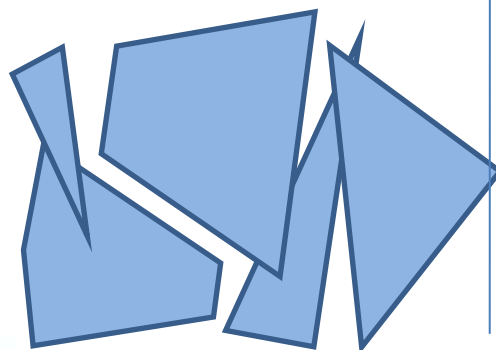
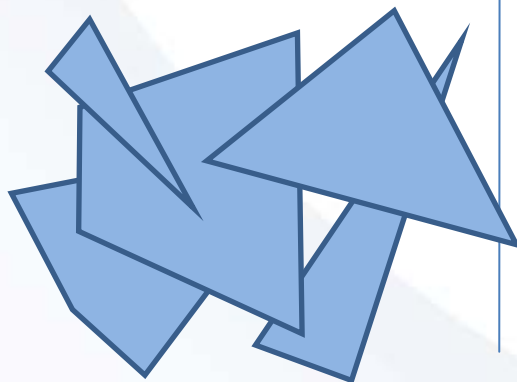
Alignment

Implement resource sharing
Utilise databases
Mobilised personnel
Shared knowledge

Year 4+

Harmonisation

Sustainable network
Harmonised validation strategies
Stakeholder confirmation



MoniQA Network of Excellence

Partners

- 1 ICC - International Association for Cereal Science and Technology (Coordinator), *AT*
- 2 BOKU - Universität für Bodenkultur Wien, *AT*
- 3 Ain Shams University, *Egypt*
- 4 Campden and Chorleywood Food Research Association, *UK*
- 5 Centre d'Economie Rurale (CER Groupe), *BE*
- 6 Eurofins Analytik GmbH, *DE*
- 7 Centro Tecnológico Gaiker, *ES*
- 8 Central Science Laboratory, *UK*
- 9 Q-Plan - International Quality and Environment Services S.A., *GR*
- 10 TÜBITAK Marmara Research Center, *TR*
- 11 University of Food Technologies, *BG*
- 12 VocalTag Ltd., *Israel*
- 13 VTT Technical Research Centre of Finland, *FIN*
- 14 University of Naples Federico II, *IT*
- 15 Norwegian Food Research Institute, *NO*
- 16 National Technical University of Athens, *GR*
- 17 National Institute for Public Health and the Environment, *NL*

Partners cont'd

- 18 Sichuan University, *CN*
- 19 Istituto Nazionale di Ricerca per gli Alimenti e la Nutrizione, *IT*
- 20 Budapest University of Technology and Economics, *HU*
- 21 Institute of Environmental Science and Research, *New Zealand*
- 23 National Food and Nutrition Institute, *PL*
- 24 Hacettepe University, *TR*
- 25 CCOA - Chinese Cereals and Oils Association, *CN*
- 26 Institut Pertanian Bogor, *Indonesia*
- 27 Hanoi University of Technology, *Vietnam*
- 28 Institute of Food Research, *UK*
- 29 National Research Council, *IT*
- 30 RTD Services, *AT*
- 31 JRC- Joint Research Centre, *BE*
- 32 Rheinische Friedrich-Wilhelms Universität Bonn, *DE*
- 33 ICCR - Interdisciplinary Centre for Comparative Research in the Social Sciences, *AT*
- 34 University of Bologna, *IT*

MoniQA Advisory Panel

Short	Organisation Name	Country	Type
CEN Research	European Committee for Standardisation	Belgium	INT ORG
CEN TC 275	CEN Technical Committee on Horizontal Methods	Germany	INT ORG
FAO/WHO	Codex Alimentarius - Joint FAO/WHO Food Standards Programme	Italy	INT ORG
HC	Health Canada	Canada	GOV/RES
IAM	Inter Agency Meeting	Hungary	INT ORG
TNO	TNO – Netherlands Organisation of Applied Scientific Research	Netherlands	INT ORG
JRC-IHCP	Joint Research Centre - Institute for Health and Consumer Protection	Italy	JRC
ILSI-Europe	The International Life Sciences Institute - Europe	Belgium	INT ORG
INRA	Institut Scientifique de Recherche Agronomique	France	GOV/RES
ISO TC34	International Standards Organisation, ISO TC 34 Foods	Switzerland	INT ORG
IUFOST	International Union of Food Science & Technology	USA	GOV/RES
AOCS	American Oils Chemists' Society	USA	INT ORG

How to get involved?

e.g. As Associated Partner (currently no access fee!!!)

- Voluntary participation "Dissemination" programmes,
- No participation in the Management Programme,
- Signing of a letter of interest and a non-disclosure agreement,
- Favourable conditions for participation in **MONIQA events**
- Collaboration and involvement in **Working Groups**
- Consideration for partnering in **new projects**
- Involvement and selective invitation to **expert panels**
- **Future offers** (subscriber fees are likely):
 - 1) participation in exchange and mobility programmes
 - 2) access to the MoniQA databases

Expression of interest ...please complete the form!

...go to www.moniqa.org