

EuroFIR



QUALITY SYSTEMS AS A TOOL IN VALIDATION OF NUTRIENT DATA: THE EuroFIR APPROACH

Isabel Castanheira¹, Susanne Westenbrink², Marine Oseredczuk³, Paul Hulshof⁴,
Peter Hollman⁴, Jayne Ireland³, Anders Møller⁵, Simonetta Salvini⁶, Hedwig Beernaert⁷,
Maria Antónia Calhau¹, Paul Finglas⁸

¹ National Institute for Health Dr Ricardo Jorge (INSA), Portugal; ²TNO Quality of Life / NEVO Foundation, the Netherlands; ³French Food Safety Agency (AFSSA), France; ⁴Wageningen University (WU), The Netherlands; ⁵Danish Food Information (DFI), Denmark; ⁶CSPO-Scientific Institute of Tuscany, Italy; ⁷Scientific Institute of Public Health,(IPH) Belgium; ⁸Institute of Food Research (IFR), United Kingdom



31st NNDC, Washington, 27 April, 2007



OUTLINE

- ✓ The need of standardized food composition data in Europe
- ✓ The EuroFIR Quality Approach
- ✓ Quality Principles and Practices
- ✓ Preliminary Results
- ✓ Further Developments



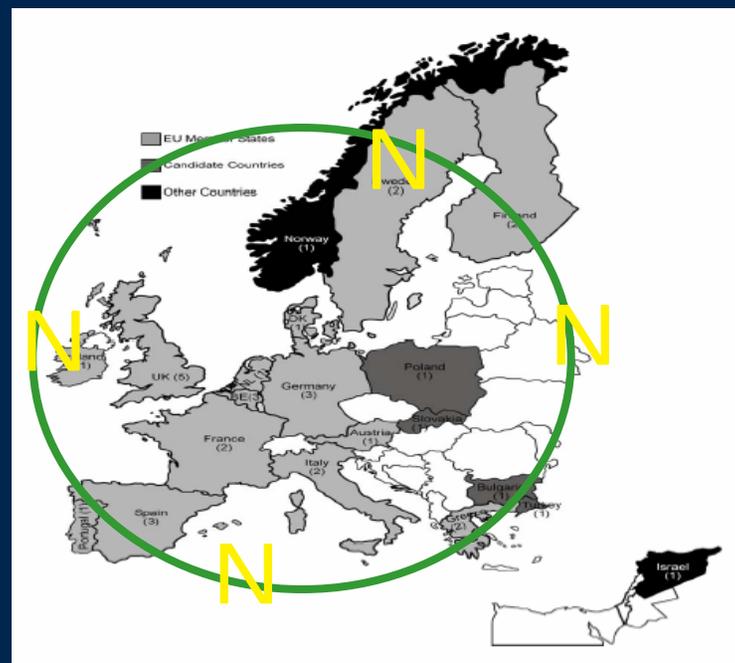
OBJECTIVES



PURPOSE

Key issues of Food Composition Data in Europe

- ✓ Provide data in accordance with international standards
- ✓ To assist multicenter studies investigating diet and health relationship
- ✓ Nutritional labelling



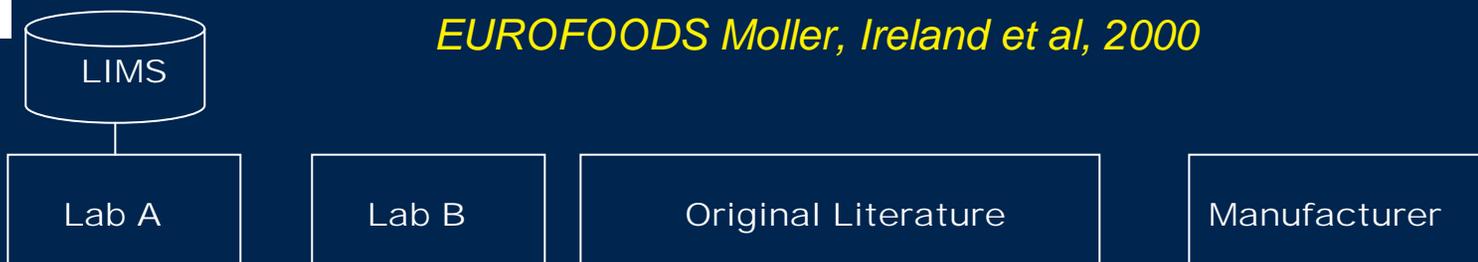
EuroFIR aims to develop and integrate a comprehensive, coherent and validated databank providing a single, authoritative source of food composition data in Europe.



DRAWBACKS

EUROFOODS Moller, Ireland et al, 2000

Level 1



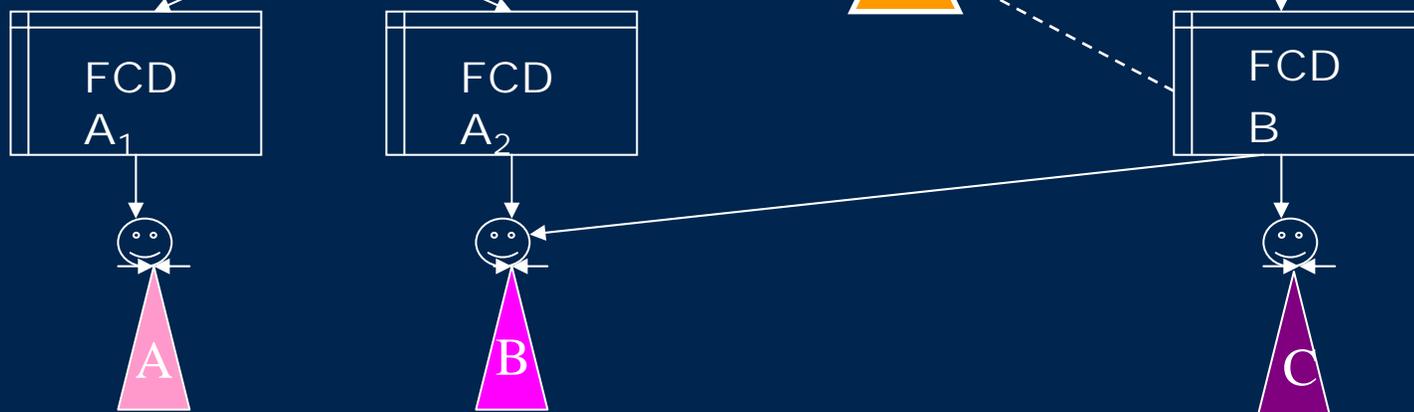
Level 2



Level 3



Level 4





AIMS & GOALS

This work focus on:

- 1) The contribution of a Quality Framework for scientific validation and exploitation of food composition data
- 2) The approach to organize quality principles and practices around laboratories, national compilers, databank systems and users and stakeholders purposes and satisfactions
- 3) Processes, procedures and experiences during the development of framework



MATERIALS & METHODS



QUALITY PRINCIPLES





TOOLS & PRACTICES

- Questionnaire
- Quality Management Systems based on ISO series
- Quality Control of Compilation Process inspired in HACCP (Hazards Analysis of Critical Control Points)
- Quality Assurance of Computerized System
- Data Quality Assessment System



RESULTS

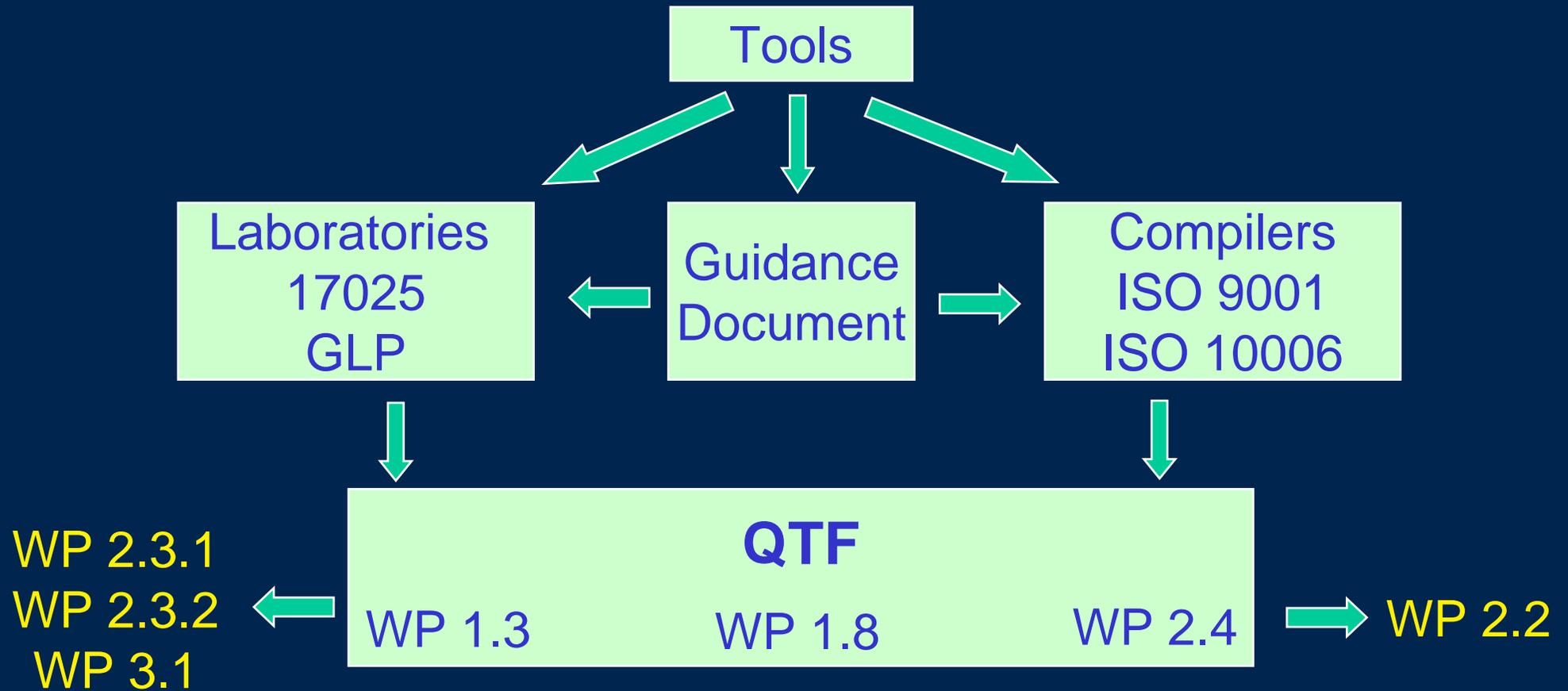


QUESTIONNAIRE RESULTS

- Laboratories accredited
- Laboratories with Quality System in place
- Compilers using Data Quality assessment system
- Compilers with Quality Assurance criteria for computerized system
- Compilers Institutions holding ISO certification



ORGANIZING QUALITY





ORGANIZING QUALITY(2)

Coordinator

WP1.3 (INSA)

QMS (INSA)

Compilation (AFSSA/Nevo)

Computerised Systems
(Nubel)

Quality Indices
(CSPO/AFSSA)

Training (SLU)

WP1.8
(DFVF/AFSSA)

CEN (NFA)

FID (AFSSA)

Compiler Network (DFVF)

Training (SLU)

WP2.4
(DFVF/IFR)

Compilation (IFR/UCC)

Data Quality (IFR)

Training (SLU)



PLANING FRAMEWORK

2005 |

2006|

2007|

2008|

2009

Conform to requirements

Training,
Document control,
Audits

Management Reviews
Quality Policy

Quality Control

Quality Assurance

Quality Management



QUALITY REQUIREMENTS

Pre and analytical stages

Compilation

Databanks

Defined by WP1.3 and Research Platform

Sampling

- Sampling Protocols in place according with fit for purpose

Analysis

- Laboratory Accreditation
- PT schemes
- Method Validation
- Quality Management System

Defined by Compilers Network:

- Recommendations from EUROFOODS
- Food Indexing (Languag)
- Value documentation
- Others defined by WP1.8

Defined by WP1.3

- FlowChart
- Quality Index
- SOPs
- Quality Management System

Defined by Quality Task Force and Sustainability Platform

- Technical Recommendations for datasets
- Criteria in place for computerized system
- Compliance with regulatory requirements (eg nutrition labelling; assessment of dietary exposure; national consumatio)

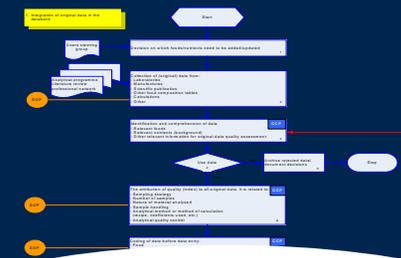


TG2 contribution on compilation process (1)

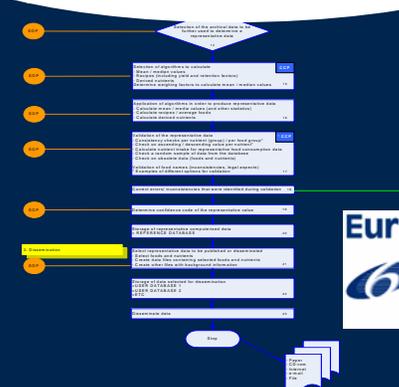
STEP 1: approach based on HACCP principles at a general level

1. Describe the general compilation process
=> all compilers compilers organizations can fit in
=> common understanding of compilation within EuroFIR.
=> benchmarking?
2. Identify hazards within this process
3. Identify critical points of the process

STEP 2: proposal of practical tools for compilers to adapt to their organization



1 = general flow chart of the compilation process





TG2 contribution on compilation process (2)

STEP 2: propose practical tools for compilers to adapt to their organization

4. Proposal of general standard operating procedures (SOPs) for each critical step identified in the flow chart

=> SOPs for attribution of quality indices and coding of nutrients, foods and background information.
=> for other general SOPs, involve compilers outside this taskgroup.

2 = general SOPs

TITLE
NUMBER/VERSION
SCOPE
OBJECTIVE
DEFINITIONS
RESPONSIBILITIES
PROCEDURE
REMARKS
REFERENCES
APPENDICES

Contents

Material technical requirements

Archival of data

Training of personnel

When?

Who?

How?

Exceptions

Checkings and corrections of errors



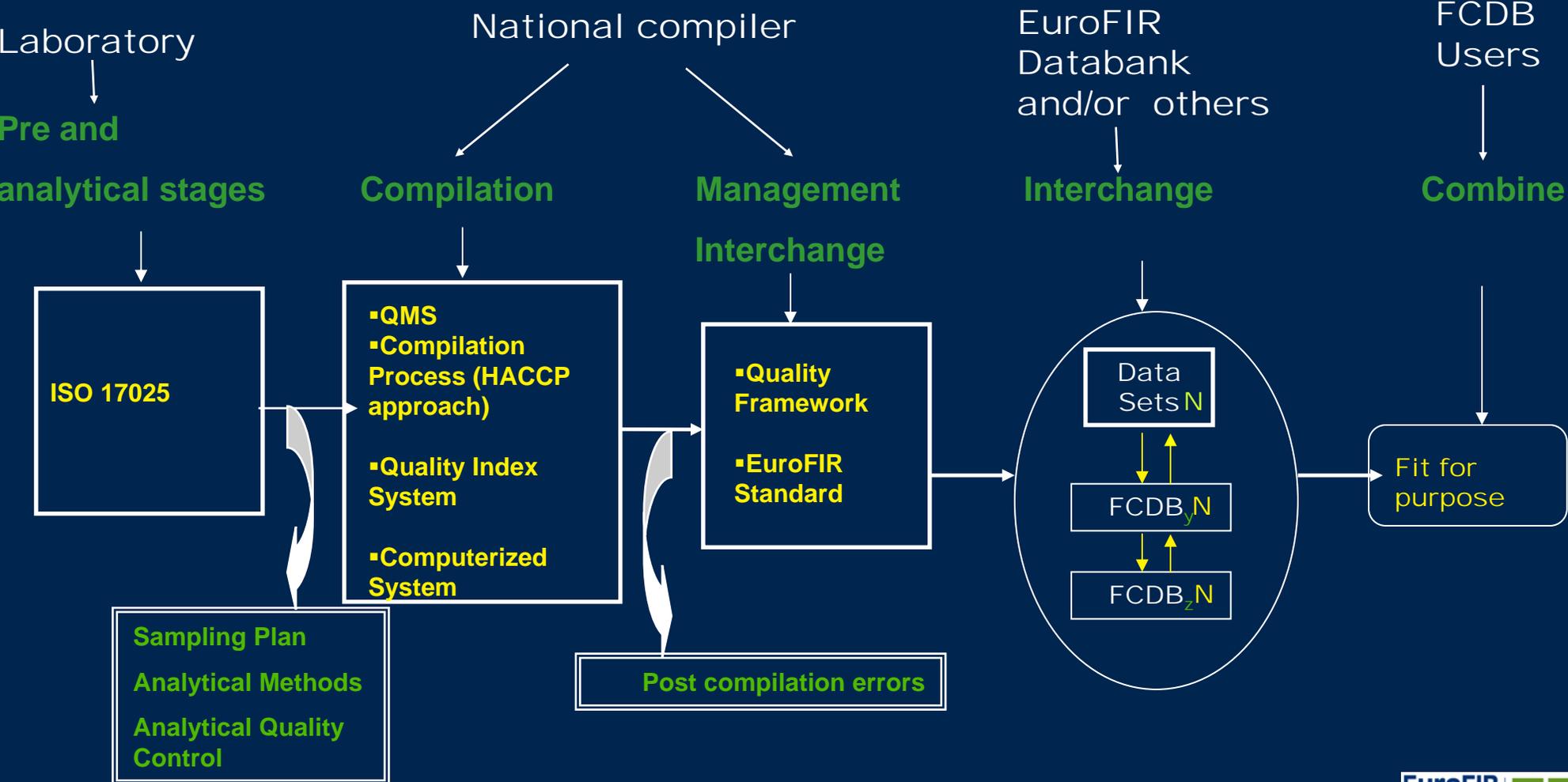
Quality Assurance Issues for Computerized Systems

Limit requirements to a set minimum of minimum requirements

- Network configuration of FCDBs
- Software development and application
- Security aspects
- List of required Standard Operating Procedures (SOPs)
- The necessity for contingency plans
- Back ups and archives
- Responsibilities

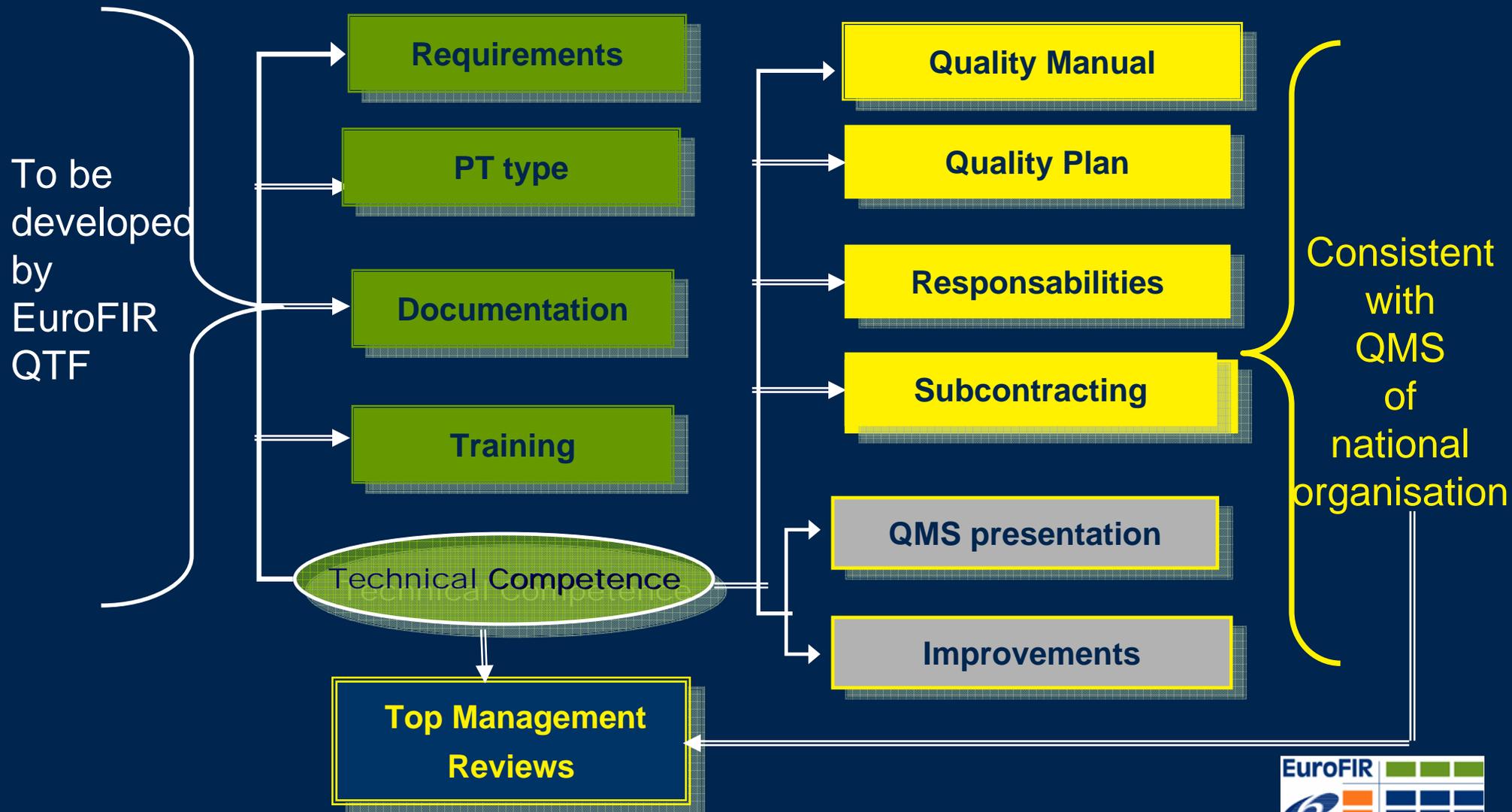


DESIGN





Quality Management System for Compilers





TRAINING

SEVENTH INTERNATIONAL
GRADUATE COURSE

*on Production and Use of
Food Composition Data
in Nutrition*

Announcement
December 2004

FoodComp 2005 Wageningen
31 October - 16 November 2005
Wageningen, The Netherlands

Organized by
Graduate School VLAG (Advanced Studies in Food Technology, Agrobiotechnology, Nutrition and Health Sciences) and the Division of Human Nutrition of Wageningen University

In cooperation with

 United Nations University
(Food and Nutrition
Programme for Human and
Social Development)

 Food and Agriculture
Organisation of the United Nations
(Food Policy and
Nutrition Division)



Block: Data Quality

Role of Quality Management Systems

Analytical data quality

Quality Aspects of compilation process

Data expert systems

EuroFIR Quality Issues

2007



ACHIVEMENTS

Compilation Process

Compilation Process Flow-chart
Hazards & SOPs

Quality Management Systems

Criteria Lab Selection
PT schemes
Guidance Document (Compilers & Lab)

Quality Index

Draft Prototype system for quality assessment of data from scientific publications

Computerized System

Quality assurance criteria computerized system

Training

Lectures Food Comp
Course Bratislava



TOWARDS CERTIFICATION



EuroFIR 
 
www.eurofir.net

Certification



AUDITING QUALITY PRACTICES

IMPLEMENTATION OF QUALITY REQUIREMENTS

CONSENSUS ON QUALITY REQUIREMENTS



SIGNIFICANCE



DRAWING CONCLUSIONS

Quality Policy founded in open and constructive debate solves former inconsistencies, observed in previous projects

Quality principles and practices validated by fit for purpose are fundamental in assuring improved quality for the exchange of data across Europe and beyond



**WE THANK YOU FOR
ATTENTION**



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