

# Rapid methods for food and feed safety; the CONffIDENCE project

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# Welcome !



# Introduction to CONfIDENCE

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- What ?
- Why ?
- Who ?

# CONFIDENCE in a nutshell

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## *Chemical* CONtaminants

# CONFIDENCE in a nutshell

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CONTaminants in *food* and *feed*:  
Inexpensive DETection  
for Control of Exposure



# CONFIDENCE passport

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- FP7 Collaborative Project first call “Food, Agriculture & Fisheries, and Biotechnology”
- Duration: May 2008 – April 2012
- 16 partners from 10 countries, representing universities, research institutes, industry and SMEs
- Budget: 7.5 Mio €
- Co-ordinator: RIKILT - Institute of Food Safety, part of Wageningen UR (NL)

# The objectives



- Development and validation of new simplified inexpensive detection methods for chemical contaminants from farm to fork
- Improved exposure assessment through monitoring of selected contaminants
- Contribute to validation of predictive hazard behaviour models
- Dissemination and training of new detection methods to all relevant stakeholders, to advance technology exploitation

# The commodities

## Food

&

## Feed

➤ Fish/shellfish

Fish feed

➤ Cereals

Cereal-based feed

➤ Potatoes/vegetables

➤ Honey

➤ Eggs

➤ Meat

➤ Dairy products





# The target contaminants

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- Cluster 1: Organic pollutants
  - POPs
  - Perfluorinated compounds (PFCs)
  - Pesticides
- Cluster 2: Veterinary pharmaceuticals
  - Antibiotics
  - Coccidiostats
- Cluster 3: Heavy metals speciation
- Cluster 4: Biotoxins
  - Alkaloids
  - Marine biotoxins
  - Mycotoxins

# Introduction to CONfIDENCE

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- What ?
- Why ?

# Why *CONFIDENCE* (1) ?

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- To assure chemical safety and quality in the European food supply; support of EC policies and competitiveness of food and feed industries
- To improve multi-detection (“multiplex”) possibilities, e.g. for antibiotics
- To improve inexpensive screening possibilities, e.g. for metal speciation

# Why CONFIDENCE (2) ?

- To speed-up analysis for factory approval of lots



- To contribute to the assessment of risks of emerging contaminants
  - e.g. plant toxins such as pyrrolizidine alkaloids



# Why *CONFIDENCE* (3) ?

- To contribute to the generation of data for exposure assessment, e.g. for PFC's:



**Perfluorooctane sulfonate (PFOS),  
perfluorooctanoic acid (PFOA) and their salts**  
Scientific Opinion of the Panel on Contaminants in  
the Food chain

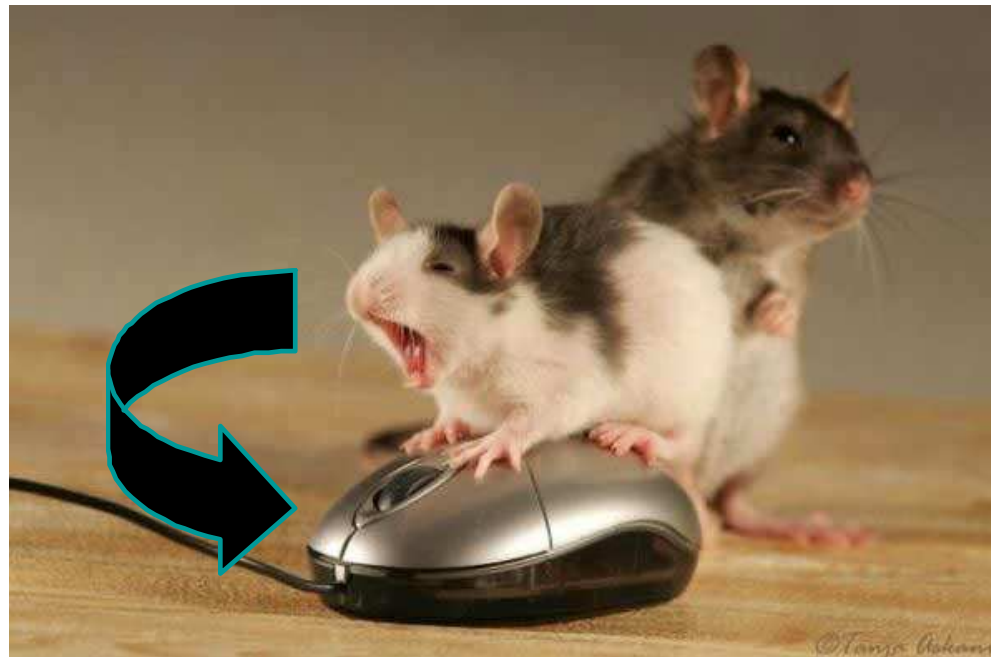
Adopted on 21 February 2008

“Due to the substantial lack of suitable analytical data, many assumptions have been made in order to derive exposure estimates.”



# Why CONFIDENCE (4) ?

- To replace animal based bioassays, e.g. the mouse assay for marine biotoxins



# Introduction to CONfIDENCE

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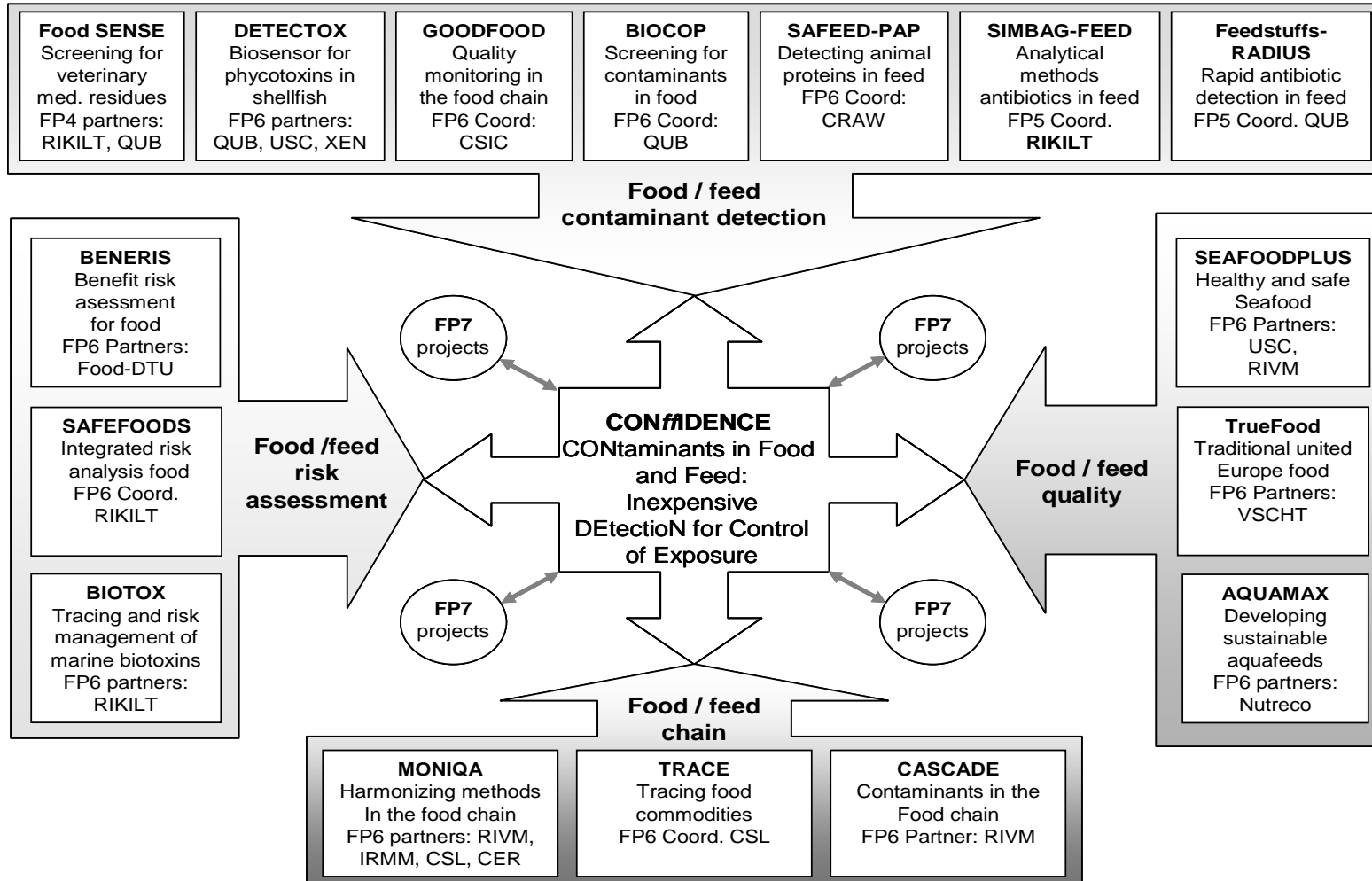
- What ?
- Why ?
- Who ?

# The consortium





# European approach



# Thank you for your attention !

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