ILSI Europe's contributions to food safety and nutrition

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Executive director

ILSI Europe

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Global Scope

European branch of the worldwide International Life Sciences Institute (ILSI)

ILSI Mission

To improve
public health and safety
through
advancement of science

Food and Agriculture Organization

Grants ILSI

Specialised Consultative Status

World Health Organization

Recognises ILSI as a

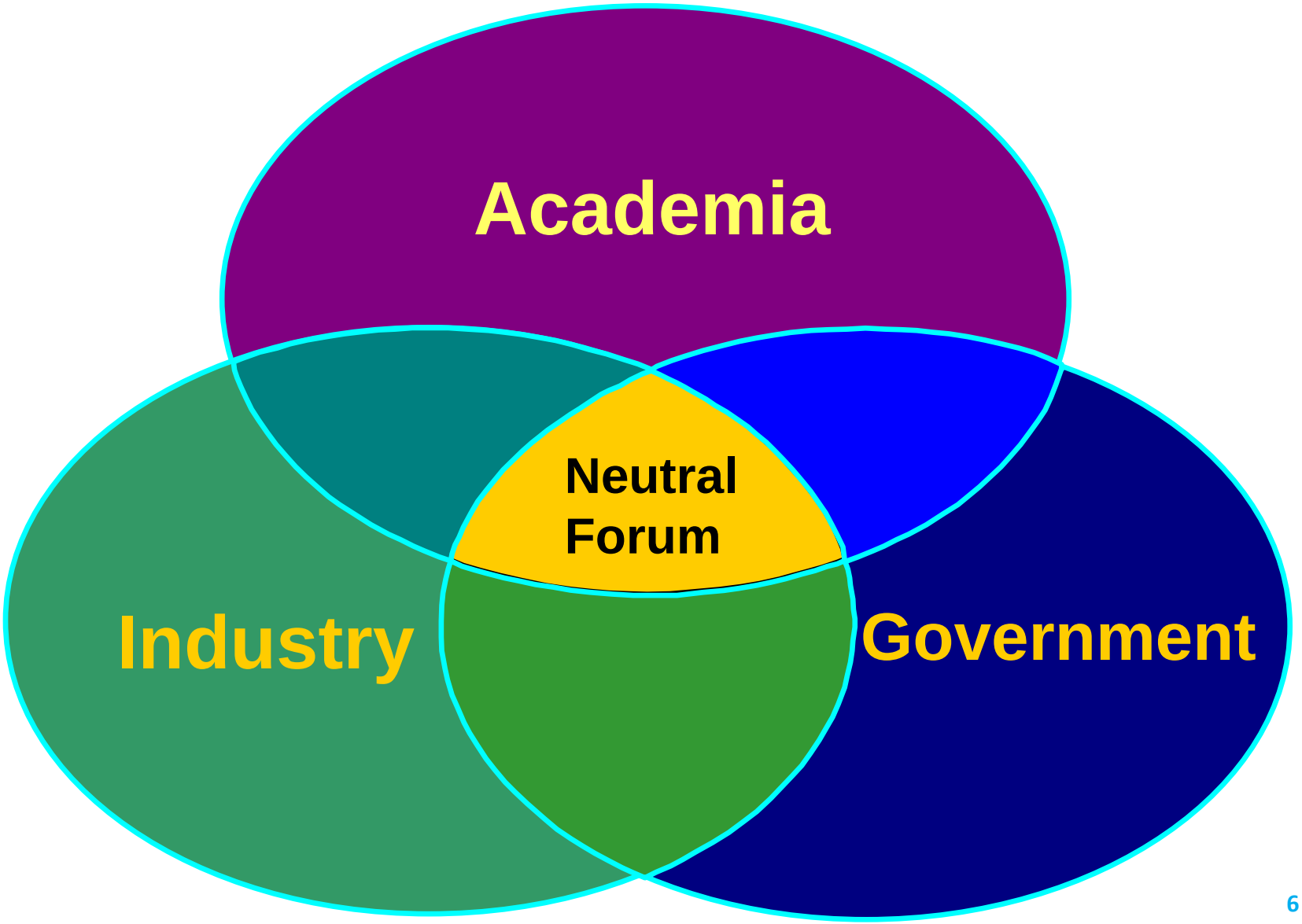
Nongovernmental Organisation (NGO)

ILSI Europe

efsa
European Food Safety Authority

ILSI Europe is represented in the Stakeholder Consultative Platform of the European Food Safety Authority (EFSA)

ILSI's key relationships



ILSI Europe Members in 2011

Abbott Nutrition
Ajinomoto Europe
Barilla G. & R. Fratelli
BASF
Bayer CropScience BioScience
Beverage Partners Worldwide
Bionov
Biosearch Life
Bunge Europe
Campbell Soup Company
Cargill
Carlsberg
Chiquita Brands International
Clasado
Coca-Cola Europe
Colloïdes Naturels International
Cosucra Groupe Warcoing
Danisco
Danone
Dow Europe
DSM
DuPont de Nemours
Firmenich
Givaudan
H J Heinz
Institut Mérieux
International Nutrition Company
Kellogg Europe
Kikkoman Foods Europe
Kraft Foods Europe
Lallemand SAS
Luigi Lavazza
Mars
Martek Biosciences Corporation
McDonald's Europe
McNeil Nutritionals
Mead Johnson Nutrition
Merck Consumer Healthcare
Monsanto Europe
National Starch
Naturex
Nestlé
PepsiCo International
Pfizer Consumer Healthcare
Premier Foods
Procter & Gamble
Puratos Group
Red Bull
Roquette Group
Royal FrieslandCampina
Rudolf Wild
Schwabegroup
Sensus
Seven Seas
Solae Europe
Soremartec Italia – Ferrero Group
Südzucker/BENEO Group
Syngenta Crop Protection
Swiss Quality Testing Services
Tate & Lyle
Tereos-Syral
Tetra Pak Research
Ülker Bisküvi
Unilever
Yakult Europe

ILSI Europe's aims

- To provide a unique platform for scientists from academia, government and industry to jointly advance the best available fact-based, objective science on public health topics

- To provide consensus-based scientific information on food and health, which is widely communicated

ILSI Europe's task force portfolio

Assessment of Benefits & Risks

- Addition of nutrients to food
- Emerging technologies
- Food intake methodology
- Functional foods
- Novel foods and nanotechnology
- Risk analysis in food microbiology
- Risk assessment of chemicals in food
- Risk assessment of genotoxic carcinogens
- Threshold of toxicological concern

Food Chain

- Emerging microbiological issues
- Environment and health
- Packaging materials
- Process-related compounds and natural toxins

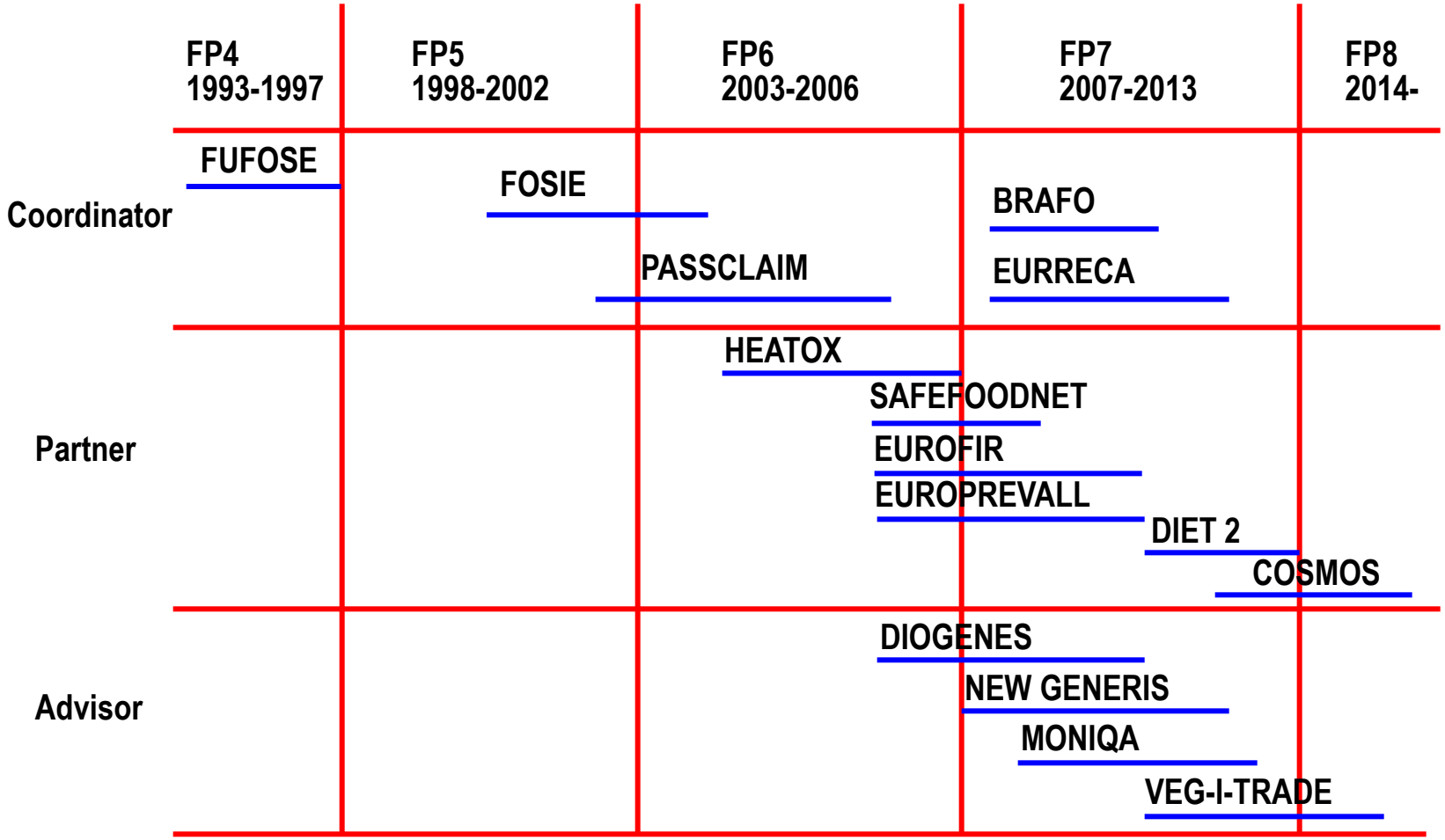
Societal Aspects

- Consumer science

Diet, Health & Disease

- Dietary carbohydrates
- Eating behaviour and energy balance
- Food allergy
- Metabolic imprinting
- Metabolic syndrome
- Nutrient requirements
- Nutrition and immunity in man
- Nutrition and mental performance
- Prebiotics
- Probiotics
- Weight management in public health

ILSI Europe's EC project portfolio

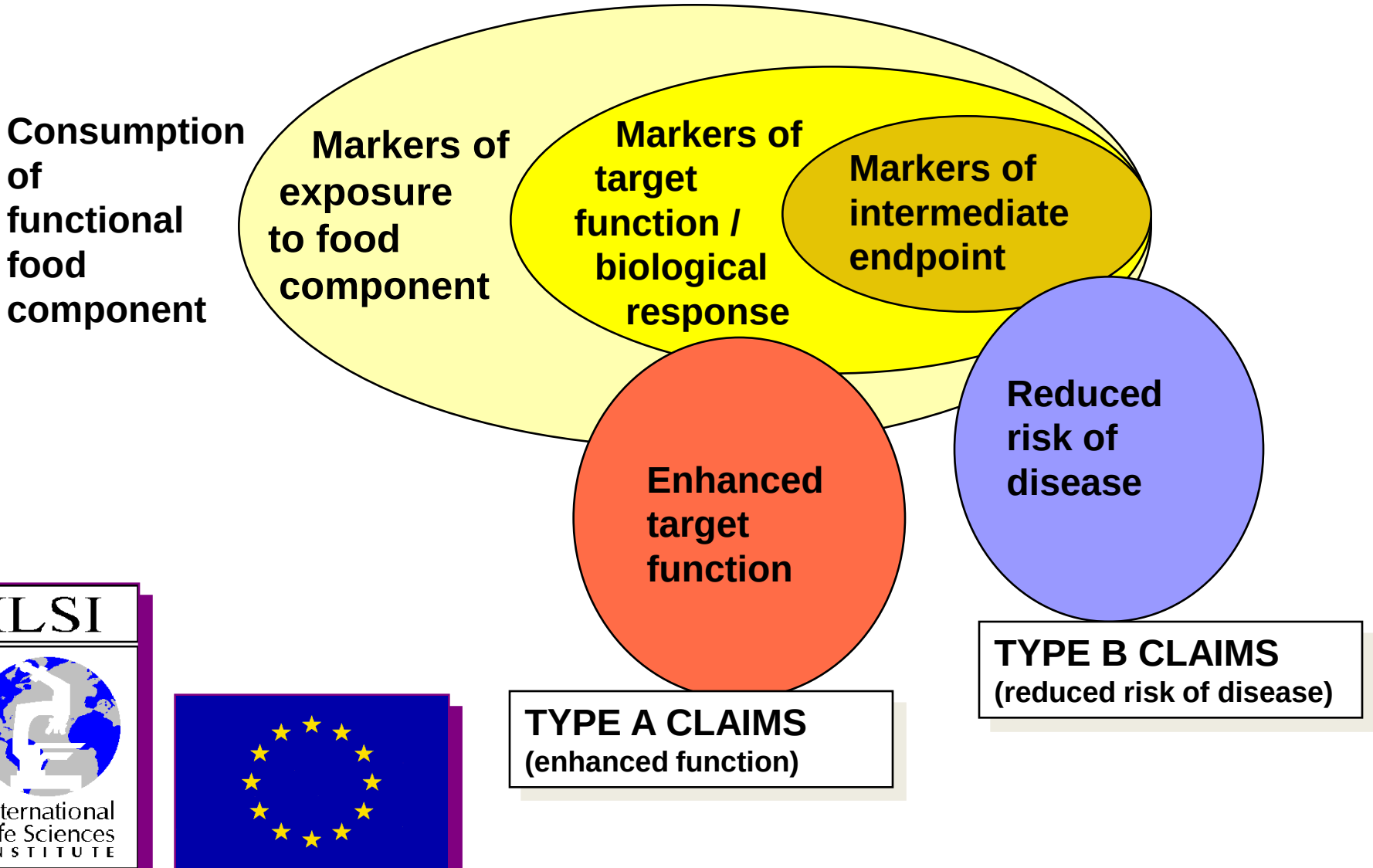


Key contributions

- Micronutrient requirements (e.g. EURRECA)
- Integrated risk-benefit assessment framework (BRAFO)
- Risk assessment of chemicals in food (FOSIE)
- Margin of Exposure (MoE)
- Food allergy risk assessment
- Scientific assessment of health claims on food (e.g. FUFOSE, PASSCLAIM)
- Threshold of Toxicological Concern (TTC)
- Safety evaluation of nanomaterials
- Pathogen risk assessment
- Safety evaluation of packaging materials
- … and much more

FUFOSE: from biomarkers to claims

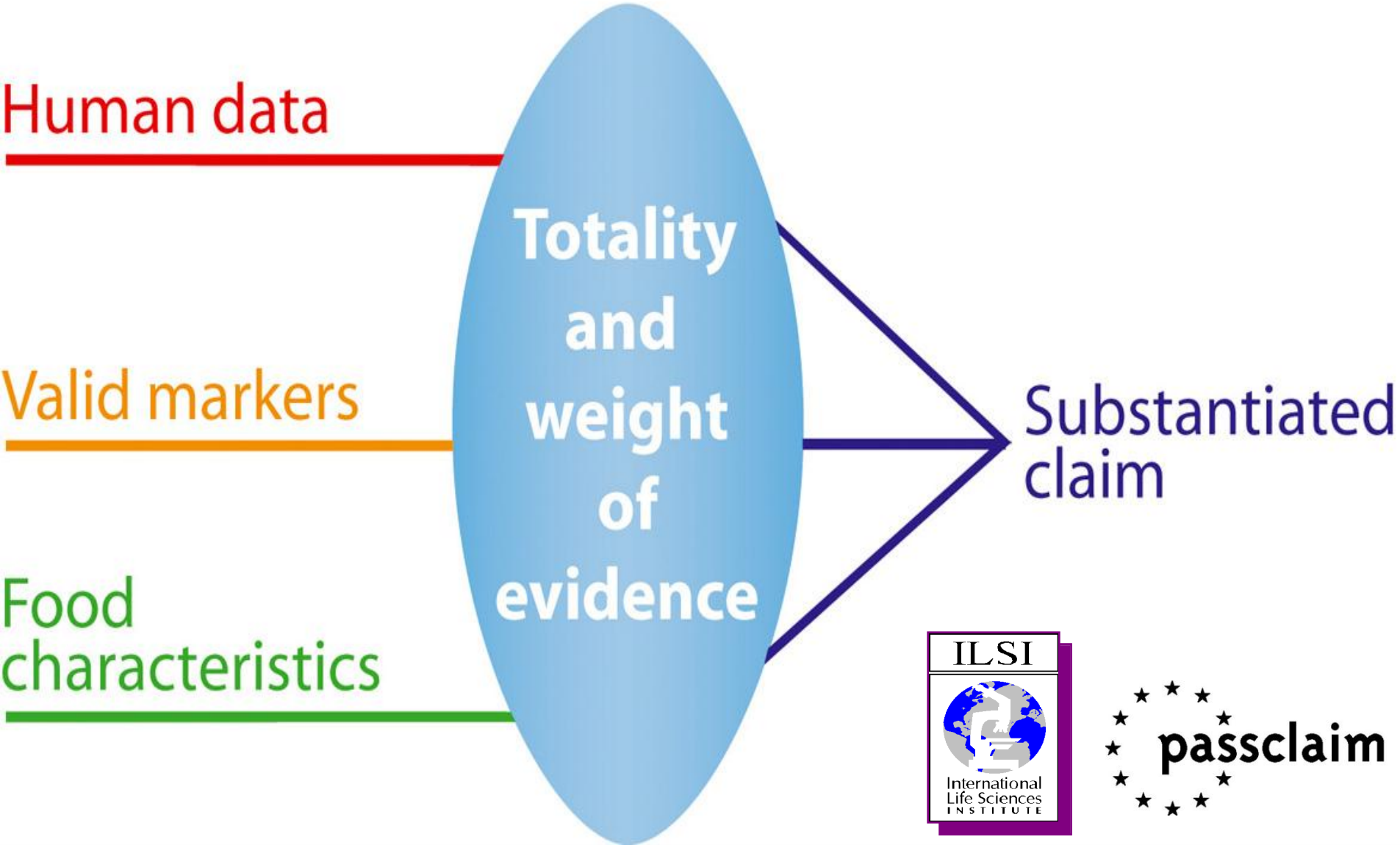
1996-1998



ILSI
International Life Sciences INSTITUTE

PASSCLAIM

2001-2005



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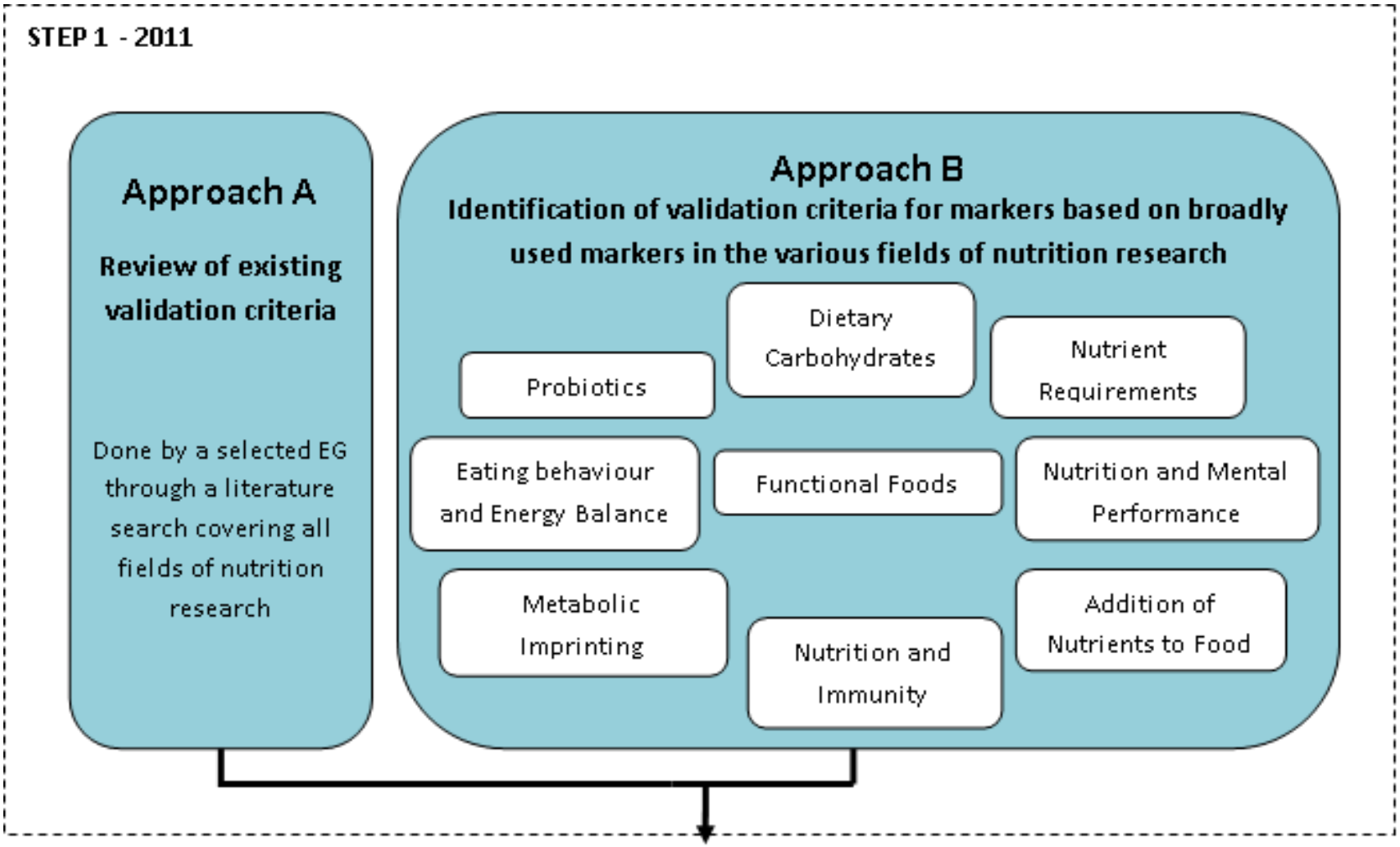
passclaim

Current work on health claims

- **Further guidance for health claim substantiation**
- ***Resistance against challenge* as biomarker for health**
- **Marker Initiative**

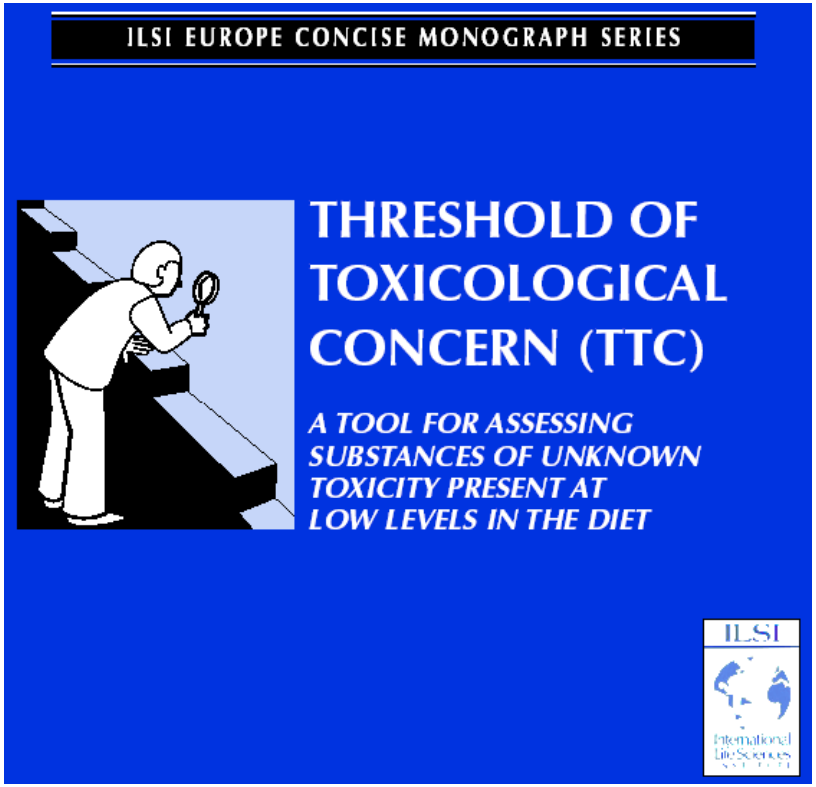
Marker Initiative



Collaboration with EURRECA, BOND, BIOCLAIMS, NUTRITECH, WHO-IARC, …

TTC: Threshold of Toxicological Concern

- **Exposed to thousands of chemicals**
- **Increasing analytical sensitivity**
- **Prioritisation for RA is needed**



TTC decision tree

A "funnel" of questions to select the appropriate TTC value for the chemical

Does the estimated intake exceed the TTC ?

No

Substance would not be expected to be a safety concern

Yes

Risk assessment requires compound-specific toxicity data

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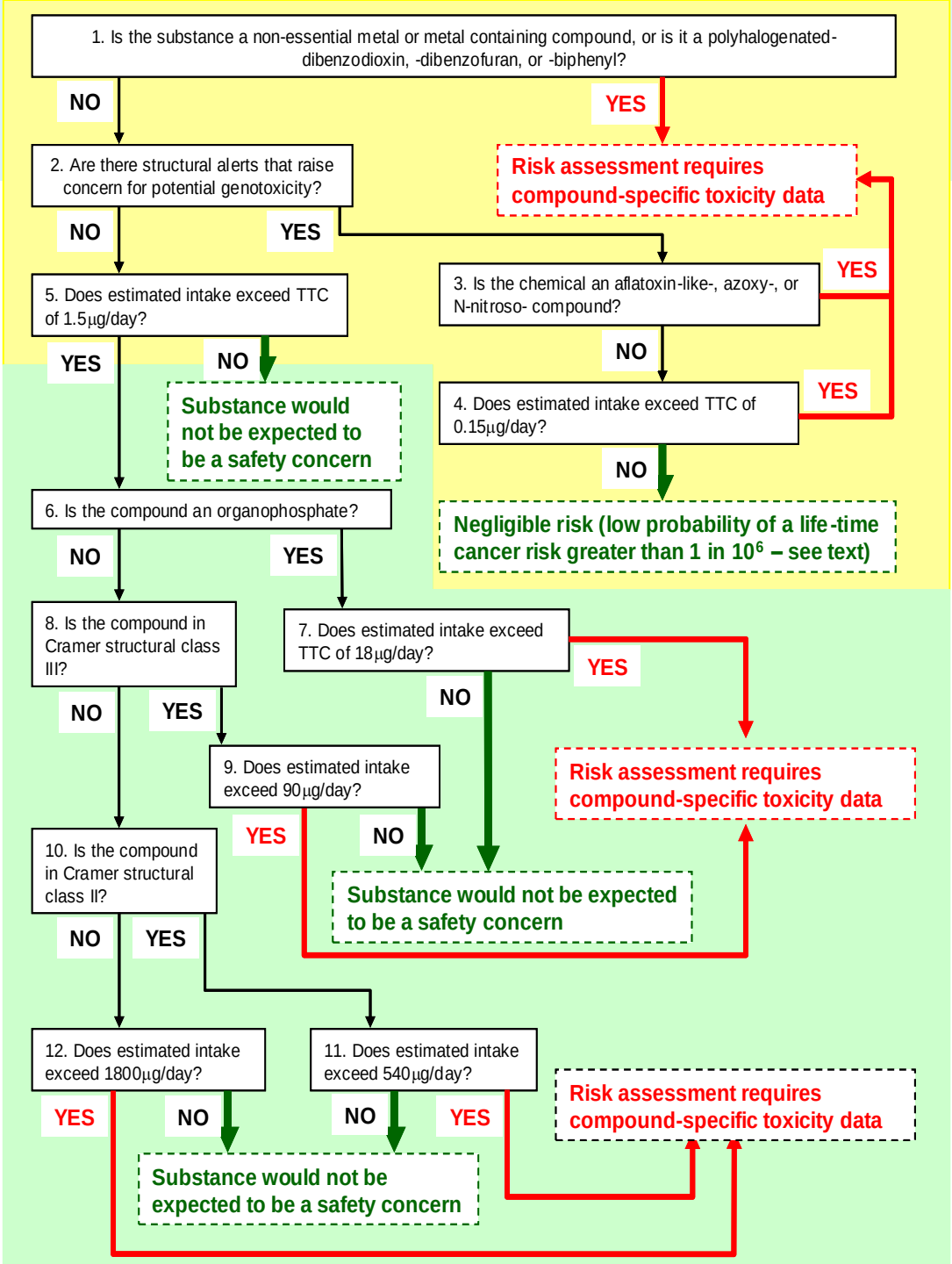
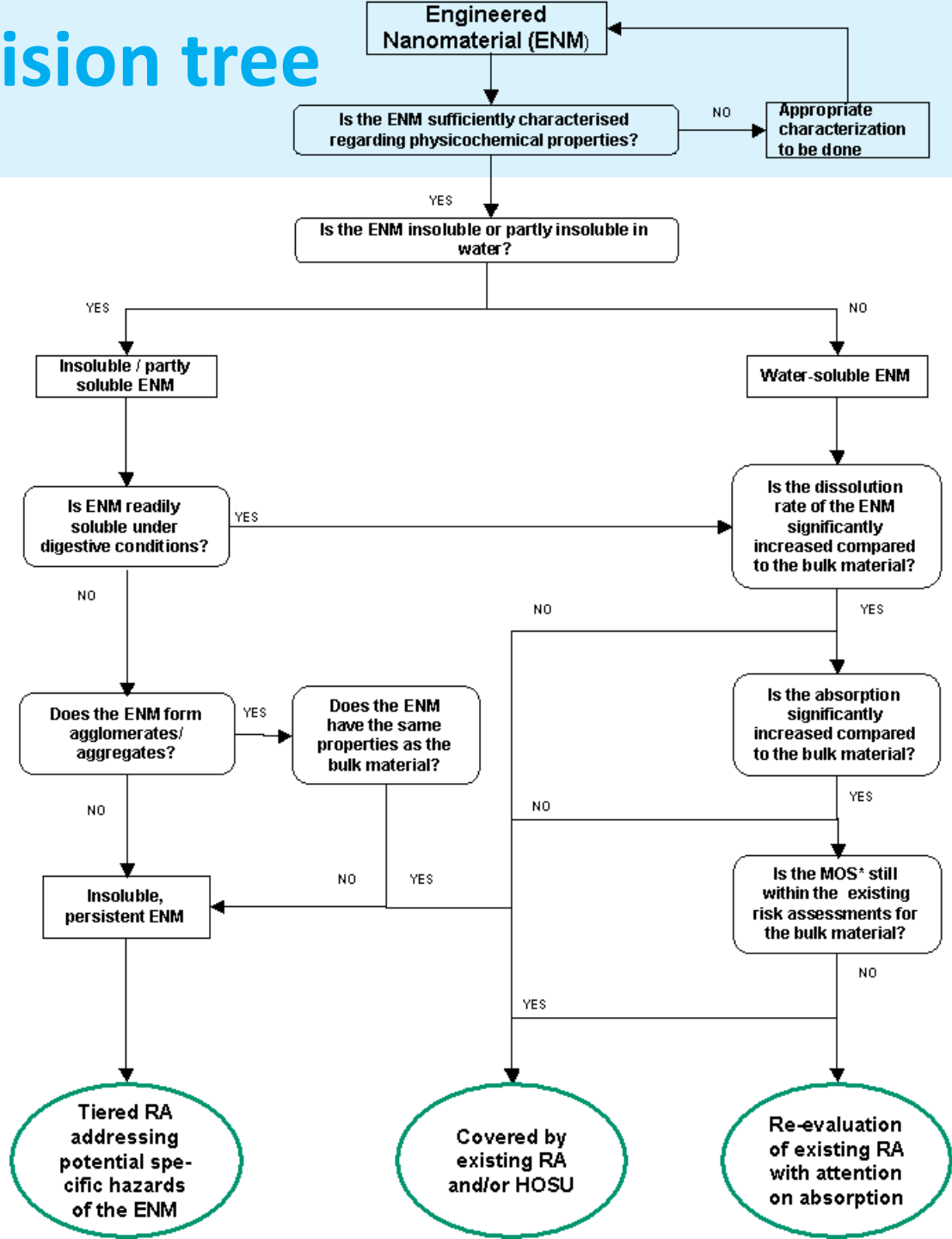
CANCER

NON-CANCER



Nano decision tree

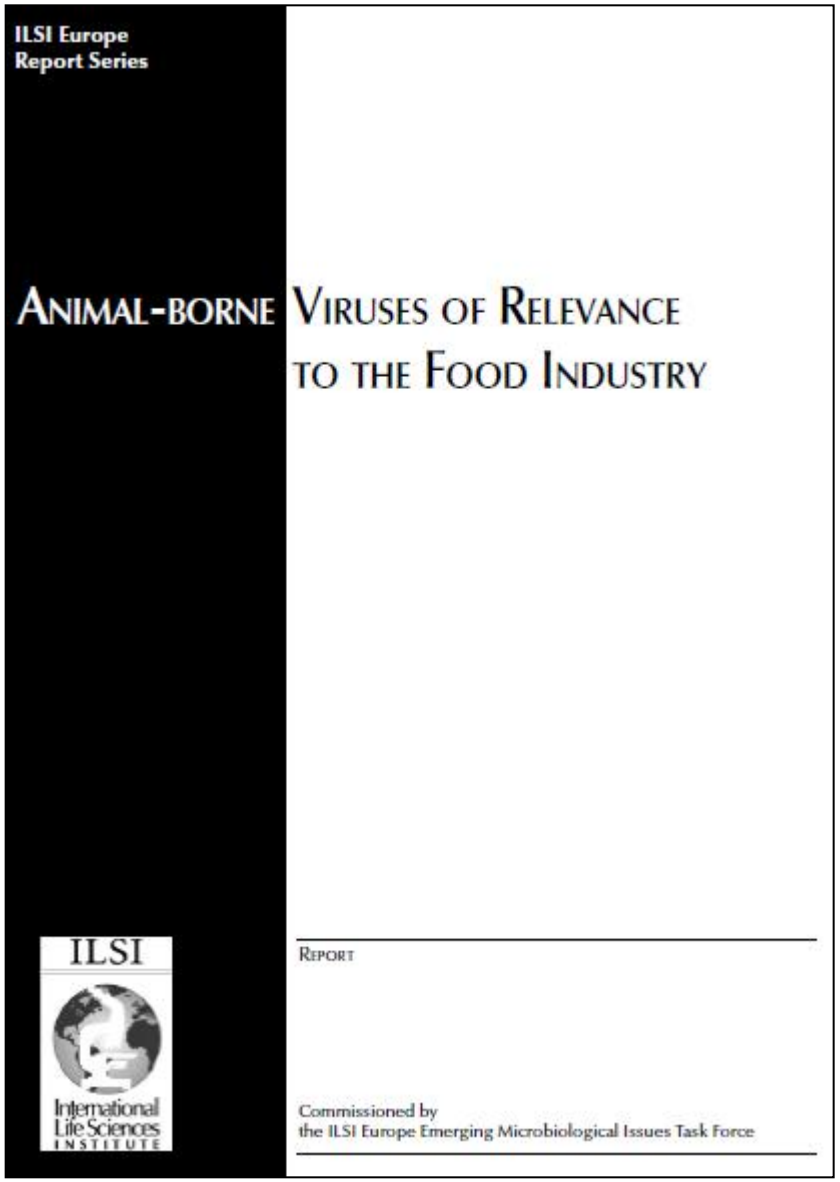
- Characterisation
- Solubility
- Agglomeration
- Absorption



Pathogen report series

- Animal borne Viruses
- Campylobacters as zoonotic pathogens: a food production perspective
- Paratuberculosis and the food chain
- Mycobacterium avium subsp.
- Foodborne protozoan parasites
- TSE as a zoonotic disease
- Foodborne Viruses
- Enterohaemorrhagic *Escherichia coli*
- *Salmonella* typhimurium DT 104

Free downloads from www.ilsi.eu



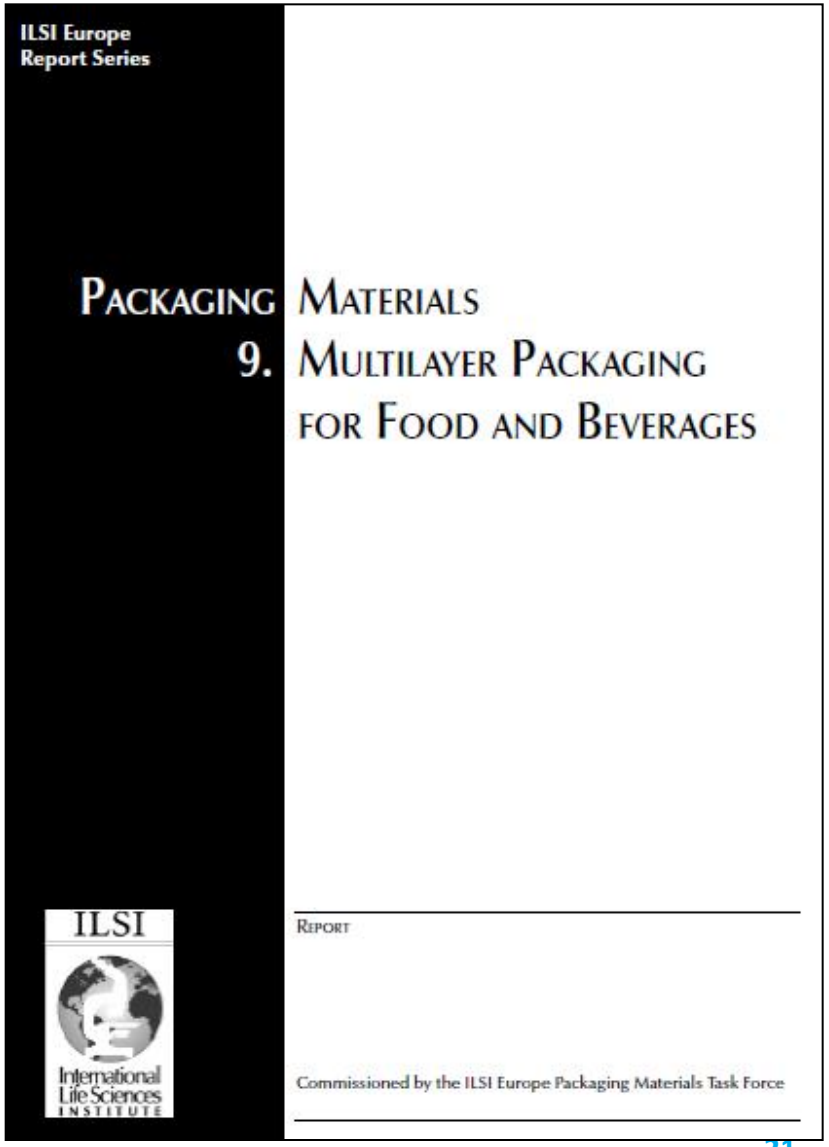
Packaging Materials report series

- Polyethylene terephthalate (PET)
- Polystyrene
- Polypropylene
- Polyethylene
- Polyvinyl chloride
- Paper and board
- Metal packaging for foodstuffs
- Multilayer packagings

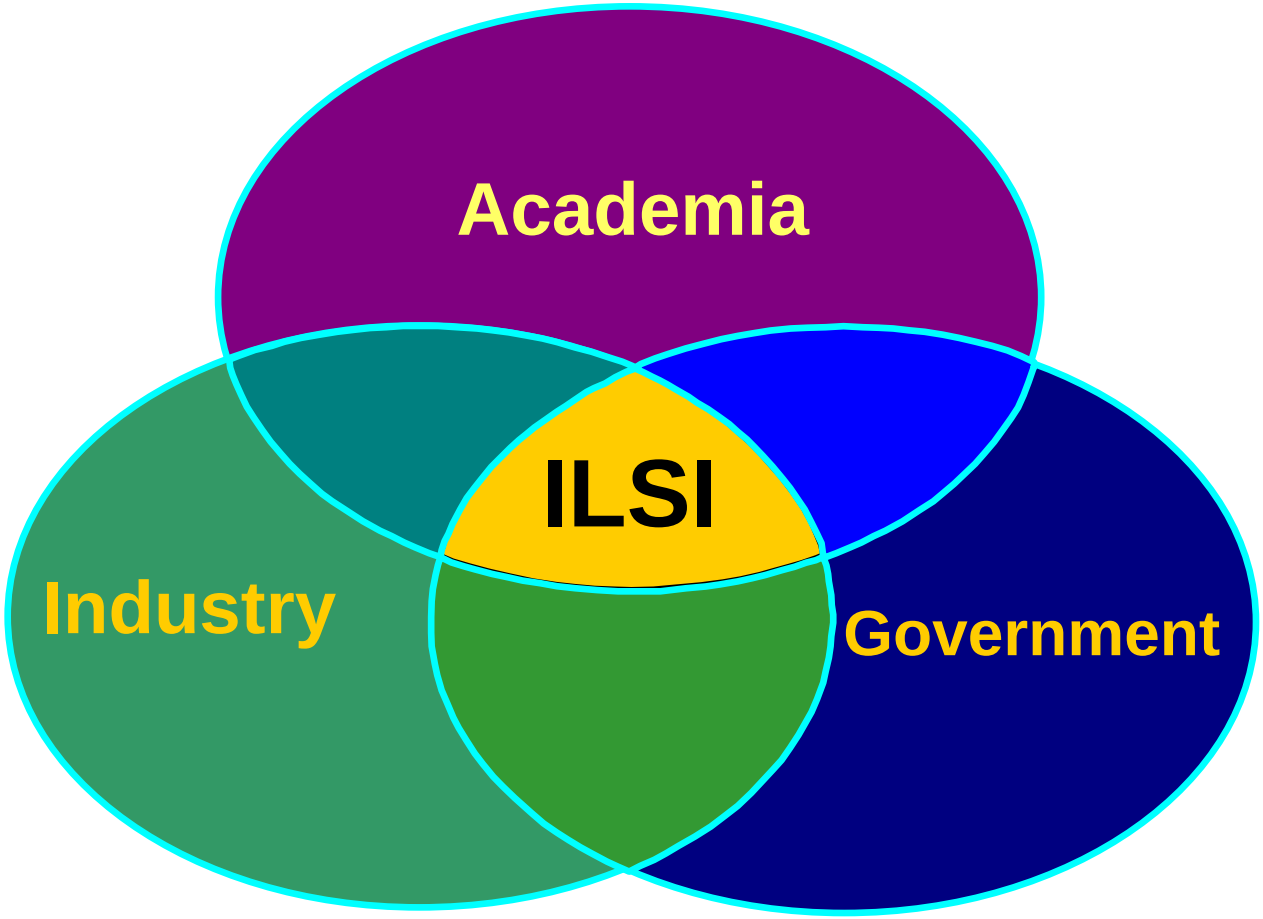
- *Printing food contact materials*

5th International Symposium on Food Packaging

14-16 November 2012, Berlin, Germany



Key to a healthy future



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