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حلول ابتكارية لنظم غذائية مستدامة

CREATIVE SOLUTIONS FOR SUSTAINABLE FOOD SYSTEMS

> مؤتمر دبي العالمي الخامس عشر لسلامة الأغذية

15th DUBAI INTERNATIONAL FOOD SAFETY CONFERENCE



Reviewing

**Best Practices in** 

Food Regulatory

Development

Prof. Samuel Godefroy, Ph.D. Food Risk Analysis and Regulatory Policies, Université Laval, Canada

## A Reminder of the Collaborative Nature ....

Ensuring the Safety, Quality and Authenticity of Food is a Shared Responsibility:

- □Industry Primary Responsibility
  - Sourcing ingredients.
  - Safe & sanitary conditions of production & sale.
  - Honest representation to consumers.

#### 

- Choice of food and consumption as per direction.
- Food handling and conservation as per recommendation to avoid spoilage and contamination (including cross-contamination).

Regulators

Delegated authority from consumers to oversee "food" on their behalf.





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## Food Control Programs According to CXG 82-2013

Control programs are the collective actions and activities in place to manage specific food safety hazards, assure quality and safety of food and fair practices in the food trade







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# Operations of the Food Competent Authority

### **An Effective Food Safety Competent Authority:**

- Anchors its actions and operations in a *robust legislative and regulatory framework* that enables it to "develop, establish, implement, maintain and enforce a national food control system".
- Bases its food safety decisions un the application of the *Risk Analysis Principles*.
- Ensures effective food regulatory operations both for standard setting and compliance and enforcement
- □ Is supported by a **focused**:
  - Scientific capacity for risk assessment and
  - Laboratory operations.













### RISK





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## Successful Food Regulatory Development



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## Moving Towards Risk-Based Interventions







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### Paradigm Shift: Promote Compliance – VADE Approach

#### Alternative to Enforcement

#### **1.** Voluntary compliance

- Achieved through education, engagement, communication
- 2. Assisted compliance
  - interventions heavily reliant on monitoring, support to compliance
- 3. Directed compliance
  - range of tools to direct a desired behaviour change : Corrective Action
- 4. Enforced compliance
  - "iron fist" / application of full extent of the law





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## Levers of Change .... Emerging Issues

- Continued Focus on Consumer Protection and Sensible Use of Labelling Measures
- Managing Innovation: Areas with High Velocity of Change:
  - Disruptive Technologies: e.g., cold pasteurization techniques
  - Packaging applications
  - Sustainability objectives
  - Novel Sources of Proteins / Novel Foods

Availability of Resources to Address Emerging Food Regulatory Issues







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# National Food Labelling Requirements – Levers

- International standards and guidance.
- Health concerns that can be answered partially or entirely through labelling.
- □Food production practices at the local level.
- Concerns identified by consumers:
  - Societal issues.
  - Cultural matters.
- Recommendations coming from public health requirements identified Nationally or Internationally









## Nationally Imposed Food Labelling Measures

### **Categorizing National Food Labelling Measures and How they are Regulated**



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## Attempt at Differentiating Food Labelling Measures



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## Food Labelling Regulatory Policy – Merits

### **Creates a framework for Conditions of Use of Labelling as**

a food regulatory instrument

Predictable environment Benchmark for interventions







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## Food Packaging Applications



## Potential for Exposure: Daily Intake Estimates



From 2000 to 2012, a probable daily intake estimate was calculated for total of **424** chemical migrants from packaging materials.

58% below 0.025 ug/kg bw/day

## Several Questions Emerge In Assessments

□How to assess FP chemicals with low estimated exposures and limited toxicology data?

□How to define low exposure from a chemical risk?

Biological activity (e.g., toxicity) of substances is governed by their physicochemical properties, which in turn are determined by their chemical structure.

Inference of a presumed existence for a functional relationship between structure and activity.











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## Example of Collaboration: Co-Regulation



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collaboration is everything









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