

Times of Trouble – Times of Fraud

Dr. Bert Popping Bert.popping@focos-food.com May 24, 2022

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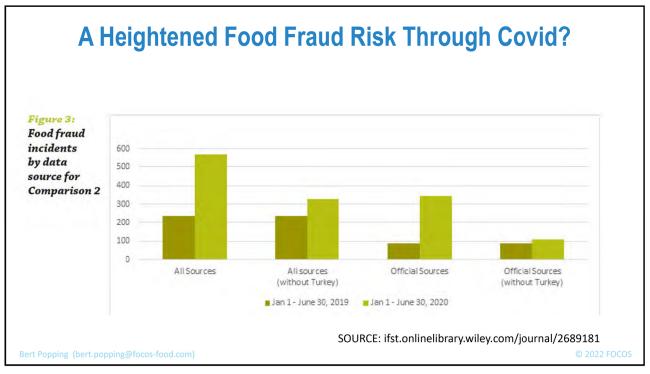




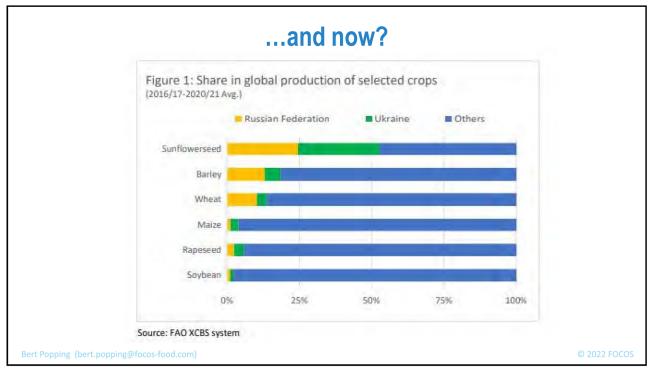


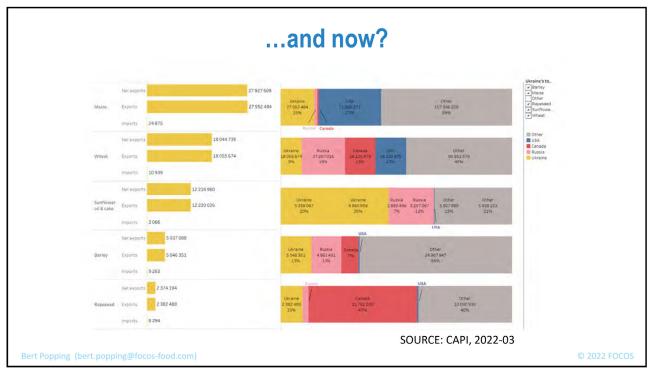




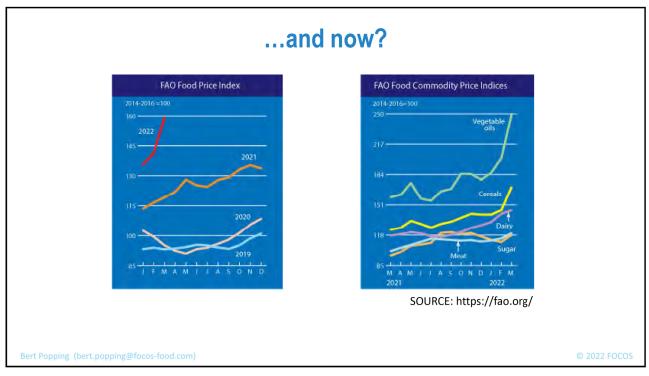


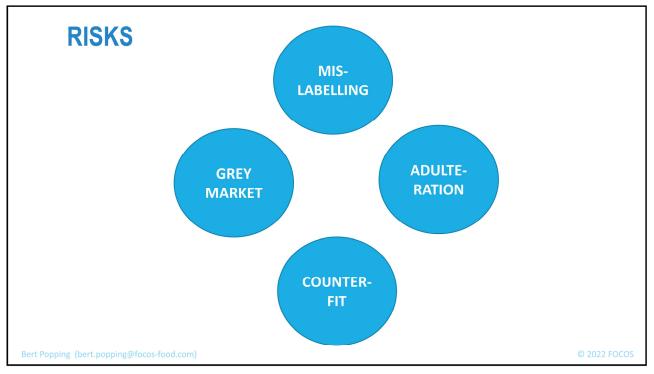


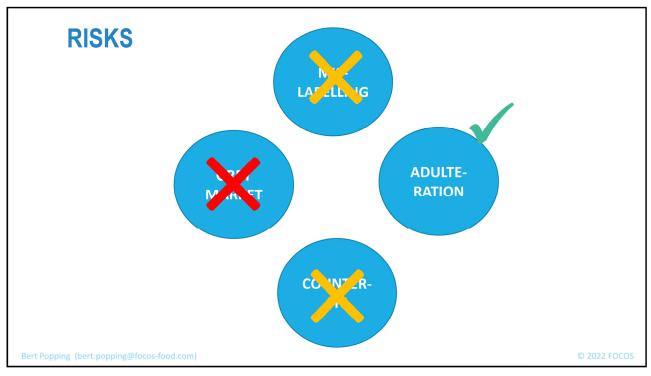


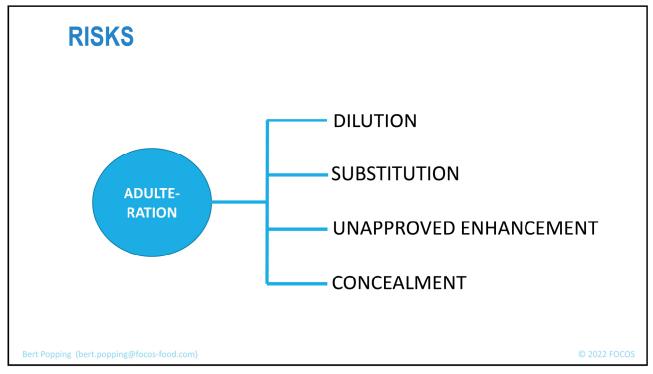












Two Types of Risks

1) DIRECT

- Due to agricultural production losses in Ukraine
- Due to agricultural export bans from Russia

2) INDIRECT

- Due to the increasing cost of fuel & production
- Due to increasing fertilizer prices

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Direct Risks: Wheat

What we might see:

- Lower quality wheat with added high protein flour (e.g. legumes)
- o Risks:
 - Myotoxins high
 - Undeclared allergens from legumes

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Direct Risks: Sunflower Oils

What we might see:

Mixes of sunflower oils with other (low quality) oils

Risks:

- Contaminated oils

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Fast Forward 2022

2007 - 2008

- High fertilizer prices
- Grain shortages
- High oil prices
- Melamine incident
- Food riots

2022

- High fertilizer prices
- Grain shortages
- High oil prices

• A recipe for disaster?

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Risk Mitigation for Food Manufacturer

- Vulnerability Assessment / Management
- Testing

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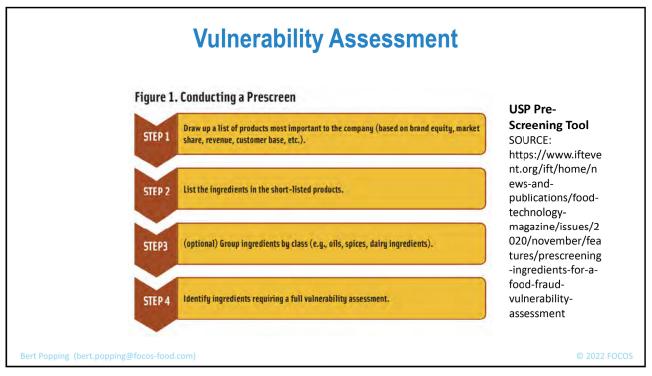
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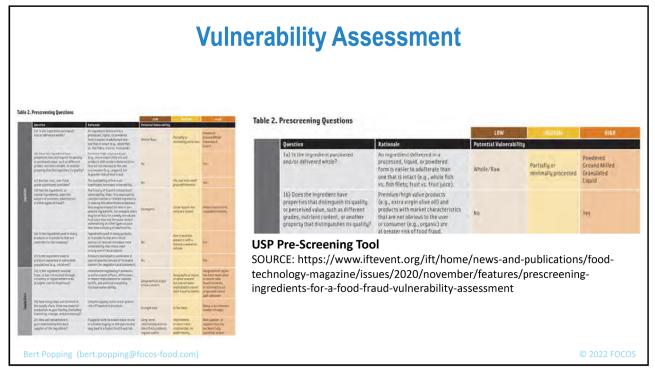
Vulnerability Assessment

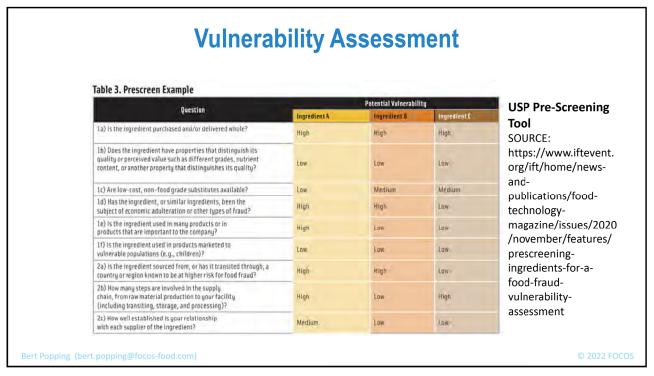
- Revisit your vulnerability assessment in light of the changing market and price situation
- Use Pre-Screening tools (e.g. USP tool)

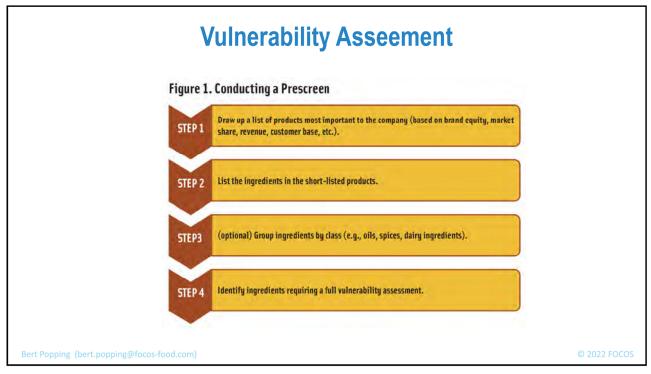
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Vulnerability Assessment

- Revisit your vulnerability assessment in light of the changed market and price situation
- Use Pre-Screening tools (e.g. USP tool)
- Deep-dive in top risk ingredients identified by Pre-Screening tool
- Monitor changes / issues (e.g. via DigiComply)

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Vulnerability Assessment

- Revisit your vulnerability assessment in light of the changed market and price situation
- Use Pre-Screening tools (e.g. USP tool)
- Deep-dive in top risk ingredients identified by Pre-Screening tool
- Monitor changes / issues (e.g. via DigiComply)
- Re-evaluate when parameters change (price, availability)

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Risk Mitigation: Improving Sampling

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Random Sampling vs Risk-based Sampling

- Random Sampling vs Risk-Based Sampling
- Laboratory Analysis vs PreScreening

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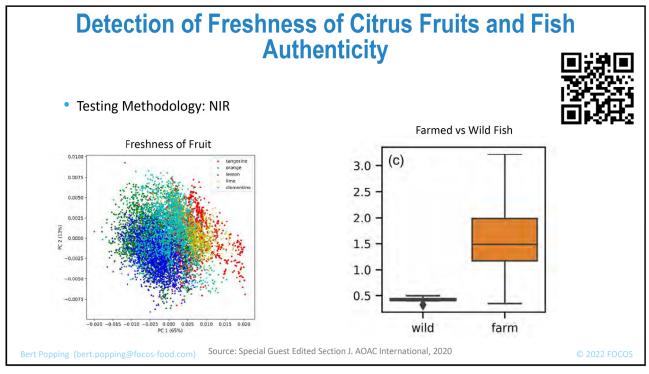


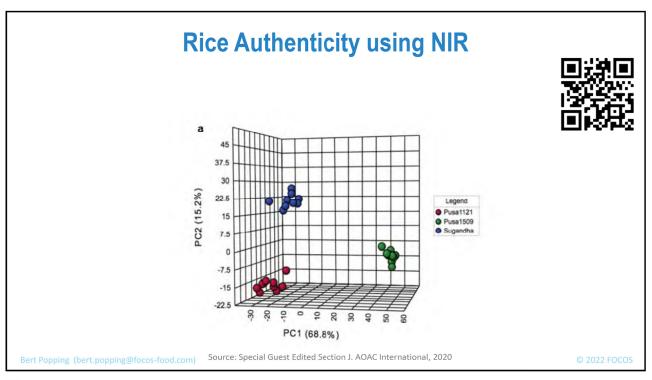
GOAL
SMART SAMPLING

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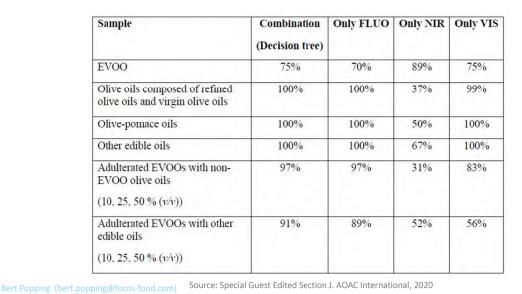








Authenticity of Olive Oil using Multi-Sensor Approach





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