

# Appendix 8: What works to prevent food fraud- comparison of food fraud vulnerability assessment models and tools and food fraud prevention strategies

**Table 8.1 Food Fraud Vulnerability Assessment Models**

<b>Source</b>	Joint Nordic Food Fraud Threat Assessment for Food Fraud	Spink et al
<b>Metrics</b>	33 measures 5 x 5 matrix for assessment of impact and probability. 4 x 4 matrix for assessment of impact and probability used in the national threat assessments with the unknown dimension.	5 X 5 Ma
<b>Risk criteria</b>	Impact and probability 5 levels. Very high, high, moderate, low, very low. National threat Impact and probability 4 levels high, moderate, low, unknown	5 levels Very high very low
<b>Likelihood</b>		X
<b>Impact</b>	X Financial X Societal	X
<b>Consequences</b>	-	-
<b>Opportunities</b>	X Technical opportunities; Opportunities in time and space	X Techni Opportun space

<b>Motivations</b>	X Financial motives; Culture and conduct	-
<b>Control (supervisory) measures</b>	X Technical; Prevention	-

**Table 8.2 Food Fraud Prevention Models**

<b>Model</b>	<b>Food Fraud Initial Screening Model (FBO level)</b>	<b>Food Fraud Prevention Strategy (FBO Level)</b>	<b>Food Fraud Prevention Strategy (national)</b>
Source	Spink et al. (2016a)	Spink et al. (2016b)	Spink et al. (2017)

Model	Food Fraud Initial Screening Model( FBO level)	Food Fraud Prevention Strategy (FBO Level)	Food Fraud Prevention Strategy (national level)
<p>Stage 1 Define scope, basic terms and screen hazards/threats</p>	<p>Food Fraud Initial Screening (FFIS) Matrix  Variables  Product or Group  AND  Market or Region</p> <p>Step 1 define the scope and basic terms.</p> <p>Step 2 Review incidents (databases) and suspicious activity</p> <p>Step 3A Conduct FFIS for health hazards.  Step 3B Conduct FFIS for enterprise wide risks and financial impact.</p>	<p>Food Fraud Initial Screening (FFIS) Matrix  Review phase  Organise team</p> <p>Create Food Fraud Policy, Mission Statement, Draft Food Fraud Prevention Strategy/Plan</p> <p>Conduct FFIS  Gather background information to inform FFVA</p>	<p>Developing common standards point and developing standards sharing of practices vulnerability assessments Third party develop standards protocols approach be audited certificate</p>

Model	Food Fraud Initial Screening Model( FBO level)	Food Fraud Prevention Strategy (FBO Level)	Food Fraud Prevention Strategy (national)
<p>Stage 2 Conduct hazard analysis/vulnerability assessment and document</p>	<p>Food fraud vulnerability assessment (very high to very low) Step 4 (paper states this is risk ranking)</p>	<p>Undertake FFVA</p>	<p>Undertake at national business</p>
<p>Stage 3 Undertake risk ranking using matrix or decision tree or other tool.</p>	<p>Corporate Risk Map Plots FFIS risk assessments 5x5 matrix likelihood (very high to very low) AND Impact (very high to very low).  Step 4 In Spink et al., (2019) this changes to Likelihood and consequences</p>	<p>Map food fraud vulnerabilities</p>	<p>-</p>

Model	Food Fraud Initial Screening Model( FBO level)	Food Fraud Prevention Strategy (FBO Level)	Food Fraud Prevention Strategy (national level)
<p>Stage 4 Development, validation, implementation and verification of a food control management system (FCMS)</p>	<p>Resource Allocation Decision based on risk rating, (Step 4)</p>	<p>Consider countermeasures and control systems to address Very High and high vulnerabilities. Propose a Food Fraud Prevention Plan.</p>	<p>Develop and implement appropriate countermeasures and control systems.</p>

