Food in the Platform Economy

Assessments (Accessible Version)¹

Description

This document presents a proof of concept tool for assessment of salient food safety and integrity risks by several types of online food actors.

The tool is composed of five worksheets:

- Risk maps (1x): Declare the foundational rationales that can be used to gauge risk.
- List of hazards (3x): Enumerate challenges that could contribute to food safety or integrity incidents (one sheet declares the format used and what each cell means, another sheet lists hazards for use by the vendors' components of the assessments, and a third one lists hazards for use by the intermediary platforms' components).
- Assessment (1x): A macro-enabled worksheet that generates assessment questionnaires.

Macros must be enabled for this file to work.

Please note that this file has an associated report that explains the file in much more detail.

This file is a proof of concept to demonstrate feasibility and functionality (please refer to the associated report for a more detailed explanation). By the same token, the file does not present a ready-to-use final tool."

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¹ The original version of this file is a macro-enabled Excel file. For accessibility, this document presents an easier-to-read version of this tool.

Version control

- v. 08/02/2021: Additionally, adjusted text variously for consistency across all tools/files in this project.
- v. 12/01/2021: First version of the (external) assessment module (this file) as a standalone document. Previously, assessments were offered as part of the master document noted below, which was large and somewhat hard to follow. The new set of standalone documents facilitate communication.
- v. 01/01/2021: The master risk ranking matrix used to generate this module was quality assured by a member of the FSA's Analytics Unit. No additional quality assurance is deemed necessary at the moment because the proof of concept nature of the tool implies a need for changes before a final product is available.
- v. 10/11/2020: Visual presentation improved. General functionality revised.
- v. 01/10/2020: Accidentally named and shared with wrong date in version, see v. 10/11/2020 for pertinent info.
- v. 30/09/2020: First functional version of master risk ranking matrix (covering multiple types of online food actors and presenting the functionality for self-assessments by actors as well as assessments by auditors, inspectors and/or regulatory organisations).

Risk ranking rules

What are risks?

Risks are the result of considering the likelihood of a (potential) hazard being realised and the impact of such event (r = likelihood * impact).

What is a risk rank?

Risk ranking is a way to compare the risk represented by different actors (or types of actors).

What does this worksheet do?

This sheet specifies rules that enable assessing the likelihood and potential impact of non-descript hazards related to online food businesses (and declare the uncertainty associated with estimates). These rules are foundational to all other sections of this file.

Table 1: Food safety risk map.

e 1: Food safety risk map.			
	Impact		
	Low	Medium	High
	Mild illness: not usually life- threatening, usually no sequelae, normally of short duration, self-limiting symptoms (e.g. transient diarrhoea).	Moderate illness: incapacitating but not usually life-threatening, sequelae rare, moderate duration (e.g. diarrhoea req. hospitalisation).	Severe illness: causing life- threatening or substantial sequelae or illness of long duration (e.g. chronic hepatitis).
Events occur almost certainly.	6	12	18
High Occurs very often (>99%).	5	10	15
Medium Occurs regularly (10- 99%).	4	8	12
Rare but does occur (1-10%).	3	6	9
Very low Very rare but cannot be excluded (<1%).	2	4	6
Negligible Extremely rare, does not merit consideration.	1	2	3
	Uncertainty		
	Low Solid and complete data available; strong evidence in multiple references; authors report similar conclusions.	Medium Some but no complete data available; evidence in a small number of references; authors' conclusions vary.	High Scarce or no data; evidence in unpublished reports, observations, or personal communication; authors' conclusions vary.
	Very high Events occur almost certainly. High Occurs very often (>99%). Medium Occurs regularly (10-99%). Low Rare but does occur (1-10%). Very low Very rare but cannot be excluded (<1%). Negligible Extremely rare, does not	Impact Low	Impact Low Medium

Table 2: Food integrity risk map.

Tabl	Table 2: Food integrity risk map.					
		Impact				
		Low	Medium	High		
		No effects, or so mild that they do not merit to be considered	Concrete non- health impact (e.g. financial loss).	Systemic non- health impact (e.g. loss of trust in sector).		
	Very high Events occur almost certainly.	6	12	18		
	High Occurs very often (>99%).	5	10	15		
Likelihood	Medium Occurs regularly (10- 99%).	4	8	12		
Likeli	Rare but does occur (1-10%).	3	6	9		
	Very low Very rare but cannot be excluded (<1%).	2	4	6		
	Negligible Extremely rare, does not merit consideration.	1	2	3		
		Uncertainty				
		Low Solid and complete data available; strong evidence in multiple references; authors report similar conclusions.	Medium Some but no complete data available; evidence in a small number of references; authors' conclusions vary.	High Scarce or no data; evidence in unpublished reports, observations, or personal communication; authors' conclusions vary.		
		1	2	3		

Hazards (Info)

What is a hazard?

A hazard is an issue that could develop into an undesired event.

What hazards is this document hoping to identify?

The FSA has guidance applicable to the normal operation of food businesses. This project is interested only in hazards that result, specifically (or, at least, especially), of the online nature of aspects of the activities by online food businesses.

Why does this section do?

This three-worksheet section declares the hazards that have been identified as applicable to online food businesses. It is arranged in a way that makes it easy to add new hazards. Additionally, feedback is welcome, as are suggestions for additional hazards (please input feedback as comments).

Table 3: Example module (Describes the types of actor this module applies).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Title. Explanation.	This column presents the hazard as a question for self-reflection by the business.	This column presents the hazard as questions for external assessment, in a non-descript manner that can be adjusted to match assessments	Safety impact. This column provides a drop-down menu for experts (or committees) to define the potential health impact that could	Integrity impact. This column provides a drop-down menu for experts (or committees) to define the potential non- health impact that could

	at different	derive from	derive from
	levels.	this hazard.	this hazard.

^{*} Values in cells highlighted red are exclusively to demonstrate file functionality. They have been selected arbitrarily and without even looking at the question next to them, as opposed to corresponding to any type of implicit or explicit guesstimate or assessment.

Hazards (Vendors)

Table 4: General (Applicable to all online food businesses)

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Imperfect registration. Some online food vendors may not be aware of or interested in registration.	Are you a registered food business?	Is [this vendor (type)] a registered food business?	Medium	High
Limited experience. New entrants might be tempted to prioritise the learning of online market dynamics over food safety and integrity concerns.	Have you been operating online for many years?	Has [this vendor (type)] operated online for many years?	Medium	Medium

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Table 5: Vendor-101 (Applicable to all online food vendors).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Cleanliness. Cleanliness is a foundational requirement. It would be good to confirm if online vendors prioritise it.	Do you ensure that the working environment is clean and suitable for safe food production?	Does [this vendor (type)] prioritise cleanliness?	Low	Medium
FSMS. It is unknown whether all online vendors have a food safety management system (FSMS) in place.	Do you have a food safety management system (FSMS) in place to cover all of your food business activities?	Does [this vendor (type)] have an FSMS in place?	Low	Medium
FSMS (online considerations). Even if a vendor has an FSMS, the vendor might	Have you considered how online activities may call for	Has [this vendor (type)] considered how online activities may call for	Low	Medium

be unaware of	adjusting your	adjusting its		
the various	FSMS?	FSMS?		
ways in which				
online				
operations				
may affect the				
process.				
Lack of food				
safety training.				
The extent to				
which online				
food vendors	Have you	Has [this		
pursue food	received food	vendor (type)]		
safety training	safety	received food	High	Medium
is unknown,	training?	safety		
but much		training?		
variation				
across types				
of vendors is				
plausible.				
Traceability. It		Does [this		
is unknown	Do you know	vendor (type)]		
whether many	your	understands		
online vendors	traceability	traceability		
keep due	obligations	requirements	Medium	Medium
records of all	and keep	and keeps		
steps in the	records	traceability		
intermediation	accordingly?	records?		
process.				
Allergens	Are you aware	Does [this		
(understandin	of all 14	vendor (type)]	High	Medium
g). Gaps in	allergens and	understand		

communicatio n vis-à-vis the platform	prepare your food in accordance to	allergen risks & related procedures?		
economy may mean some vendors are only partially aware of allergens and applicable procedures.	the FSA's allergens guidance?			
Allergens (display across sales channels). Some online food vendors may not display allergen information across all online sale channels.	Do you declare allergen information in all sales channels?	Does [this vendor (type)] display allergen information in all sales channels?	Medium	Medium
Allergens (packaging/ser vice). Some vendors may not display allergen information in packaging or during service	Do you declare allergen information in your packaging and/or at service?	Does [this vendor (type)] display or declare allergens at point of service?	Low	Medium

due to considering online declarations sufficient				
FHRS (coverage). Very small online food vendors may not be covered by the FHRS.	Are you covered by the FSA's Food Hygiene Rating Scheme (FHRS)?	Is [this vendor (type)] covered by the FHRS?	Low	Medium
FHRS (herd effects). Display of FHRS by vendors covered by it may be challenged by their need to appear in listings alongside vendors not covered or not displaying FHRS.	Do you display your FHRS across all sales channels?	Does [this vendor (type)] display FHRS in all sales channels?	Low	Medium
Food fraud (quality of supply).	Do you avoid ingredients buying at	Is [this vendor (type)] buying discounted	Low	Medium

Online	discounted	food products		
vendors may	prices and/or	or buying from		
be at	from non-	non-reputable		
increased risk	reputable	sources?		
of being	sources?			
targeted by				
organised				
crime.				
Food fraud				
(lack of				
customer				
oversight).				
The				
disconnection	Do you			
between	Do you	la Ithia yandar		
preparation	prepare food in front of	Is [this vendor (type)] running		
and	customers or	a 'dark'	Low	Medium
consumption	serve food in	kitchen?		
may increase	premises?	KITCHETT!		
the	premises:			
opportunity for				
fraudulent				
behaviour by				
some online				
food vendors.				

Table 6: Logistics (Applicable to vendors involved in food delivery and/or food events' management, incl. those that outsource these tasks to contractors or independent partners/associates).

Hazard Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
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Delivery				
(oversight).				
The relation				
between the				
vendors and	Irrespective of	Daga Maia		
those fulfilling	who performs	Does [this		
logistical	it, do you have	vendor (type)]		
needs for	oversight and	have oversight and control of		
them may vary	control of all	all aspects of	Low	Medium
significantly,	aspects of	delivery and/or		
implying	delivery and/or	event		
varying	event	management?		
degrees of	management?	managomont		
oversight over				
food delivery				
and/or events'				
management.				
Delivery				
(training).				
Trained		Does [this		
delivery	Is your food	vendor (type)]		
personnel are	delivered by	have their		
less likely to	someone with	food delivered	High	Medium
incur food	food safety	by someone		Mediam
safety and	training?	trained in food		
integrity	5	safety?		
issues than		,		
untrained				
personnel.				
Delivery	Do you or your	Does [this		
(temperature).	delivery	vendor (type)]	Medium	Medium
Food	partner control	have		
(including	the	appropriate		

groceries) is	temperature of	temperature		
susceptible to	the food you	management		
changes in	deliver?	procedures/de		
temperature.		vices?		
Delivery (contamination). Food (including groceries) can be unintentionally or intentionally contaminated during delivery.	Do you or your delivery partner take measures to avoid food being contaminated during delivery?	Does [this vendor (type)] have systems or procedures in place to avoid food being contaminated during delivery?	Low	Medium
Mix-ups (foundational). Accidental mix-ups seem likely in the context of delivery of multiple orders or management of large events.	Do you have procedures to avoid orders from being mixed-up before or during delivery?	Does [this vendor (type)] have appropriate procedures to avoid order mix-ups?	High	Medium
Mix-ups (non- foods). Some online vendors may deliver mixed food	Do you have procedures to avoid food products being mixed with	What is the % of this type of vendor that have appropriate	Medium	Medium

products or manage during anon-food items mixinvolving both types of products. The digital aspects of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after	and non-food	non-food	procedures to		
events involving both types of products. The digital aspects of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after. Do you have procedures to avoid ingredients being mixed during allergens may easily be confused during or after.	products or	products	avoid food and		
involving both types of products. The digital aspects of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredients being mixed during allergens may easily be confused during or after	manage	during	non-food		
types of products. The digital aspects of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after	events	transport/deliv	items mix-		
products. The digital aspects of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after	involving both	ery?	ups?		
digital aspects of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredients being mixed during allergens may easily be confused during or after	types of				
of logistics involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredient mix-ups? Does [this vendor (type)] have appropriate procedures to avoid ingredient mix-ups?	products. The				
involved may increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredient mix-ups? Does [this vendor (type)] have appropriate procedures to avoid ingredient mix-ups?	digital aspects				
increase all associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredients being mixed during transport? Does [this vendor (type)] have appropriate procedures to avoid ingredient mixups? Low Medium Medium	of logistics				
associated risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredients procedures to avoid ingredient mix-ups? Does [this vendor (type)] have appropriate procedures to avoid ingredient mix-ups? Low Medium Medium Medium Medium	involved may				
risks. Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have vendor (type)] have appropriate procedures to avoid ingredient mix- ups? Low Medium Medium Medium Medium	increase all				
Mix-ups (allergens). Given separation between production and consumption, products containing allergens may easily be confused during or after Do you have procedures to avoid ingredients procedures to avoid ingredient mix- ups? Does [this vendor (type)] have appropriate procedures to avoid ingredient mix- ups? Low Medium Medium	associated				
(allergens). Given separation between Do you have production and consumption, products containing allergens may easily be confused during or after Does [this vendor (type)] have appropriate procedures to avoid ingredients procedures to avoid ingredient mix- ups? Low Medium Medium Medium	risks.				
Given separation between Do you have production and consumption, products containing allergens may easily be confused during or after Does [this vendor (type)] have appropriate procedures to avoid appropriate procedures to avoid ingredient mix- ups? Low Medium Medium Medium Medium Medium	Mix-ups				
separation between Do you have production and avoid avoid appropriate consumption, products containing allergens may easily be confused during or after Does [this vendor (type)] have appropriate procedures to avoid ingredient mixups? Low Medium Medium Medium	(allergens).				
between Do you have production and avoid avoid and consumption, products being mixed containing allergens may easily be confused during or after Do you have vendor (type)] have appropriate procedures to avoid ingredient mixups? Low Medium Medium Medium	Given				
between production procedures to and avoid ingredients products containing allergens may easily be confused during or after vendor (type)] have appropriate procedures to avoid ingredient mixups? Low Medium Medium Medium Medium	separation		Does Ithis		
production avoid avoid appropriate procedures to avoid appropriate procedures to being mixed containing allergens may easily be confused during or after have appropriate procedures to avoid ingredient mixups? Low Medium Medium Medium	between	Do you have	_		
and avoid appropriate procedures to avoid avoid avoid avoid avoid ingredient mix- easily be confused during or after avoid appropriate procedures to avoid ingredient mix- ups? Low Medium Medium Medium Medium Medium Medium	production	procedures to			
consumption, products being mixed containing allergens may easily be confused during or after	and	avoid			
containing allergens may easily be confused during or after	consumption,	ingredients		Low	Medium
containing during ingredient mix-ups? easily be confused during or after	products	being mixed			
easily be confused during or after	containing	during			
confused during or after	allergens may	transport?			
during or after	easily be				
	confused				
	during or after				
transport.	transport.				

 Table 7: Personal (Applicable to very small 'personal' type of online food vendors).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Mixed activities (storage). Some small online food vendors may not store domestic and business foods separately.	Do you store the food that you use for your business activities separately from the food you use for personal consumption?	Does [this vendor (type)] separate domestic/busi ness storage?	Medium	Medium
Mixed activities (preparation). Some online food vendors may not separate the preparation of food for business and domestic consumption.	Do you prepare the food you sell to or exchange with others separately from the food for your own domestic consumption?	Does [this vendor (type)] separate domestic/busi ness preparation?	High	High

Nomadic practices (foundational). Some online food vendors travel or otherwise change kitchens in the process of providing services.	Do you change or alternate where or how you store or prepare food?	Does [this vendor (type)] change kitchens as part of their business model?	Medium	Medium
practices (procedures). A degree of nomadic practices may be impossible to avoid, but procedures to manage the location changes involved may reduce their risk.	Do you have guidelines or procedures to manage the food safety and integrity risks of changing where or how you store or prepare food?	Does [this vendor (type)] have procedures to manage the constantly changing circumstances?	High	High

Table 8: MSMEs (Applicable to all MSME vendors).

Hazard Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
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n/a. Medium				
sized SME				
vendors are				
the archetypal				
type of online				
food vendors.	m/a	7/2	Madium	Medium
Most	n/a.	n/a.	Medium	Medium
applicable				
hazards were				
covered in				
previous				
modules.				

 Table 9: Large (Applicable to large or industrial type of online food vendors).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Assessment. Large food businesses often have food safety and integrity procedures in place, but it is uncertain if they have specifically assessed added risks that may arise	Have you evaluated the added food safety and integrity challenges that may arise from the online aspects of your business operations?	Has [this vendor (type)] evaluated the added food safety/integrity challenges that may arise from the online aspects of its operations?	Low	High

Hazards (Platforms)

 Table 10: General (Applicable to all online food businesses).

Hazard	Self- ssessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
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Imperfect registration. Registration expectations for platforms are unclear. Limited	Are you a registered food business?	Is [this platform/mark etplace (type)] a registered food business?	Medium	Medium
experience. New entrants might be tempted to prioritise the learning of online market dynamics over food safety and integrity concerns.	Have you been operating online for many years?	Has [this platform/mark etplace (type)] operated online for many years?	Medium	Medium

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Table 11: Intermediary-101 (Applicable to all intermediary platforms).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Unregistered vendors. Platforms not requiring vendors to be registered	Do you require and check registration as food business from vendors	Does [this platform/mark etplace (type)] block admission to	Medium	Medium

food	operating in	unregistered		
businesses	your platform?	vendors?		
may contribute				
to an increase				
in the number				
of				
unregistered				
food				
operators.				
Traceability. It				
is unknown				
whether online				
platforms (or				
how many)	Could you			
are sufficiently	trace a food	Could [this		
close to their	product/servic	platform/mark		
vendors to	e sold or	etplace (type)]		
facilitate	exchanged	trace products	Low	High
traceability	through your	sold through it		
should a need	platform to its	to individual		
for such thing	vendor?	vendors?		
arise (this can	vondor:			
be extended				
to the ability to				
consider				
complaints).				
Communicatio				
ns with	Do you	Does [this		
vendors.	maintain	platform/mark		
Platforms that	regular	etplace (type)]	Medium	Medium
regularly	communicatio	regularly		
engage with	n with the	communicate		
their vendors				

on food safety	vendors in	with its		
and integrity	your platform?	vendors?		
issues can				
help				
communicate				
applicable				
guidance				
if/when				
needed; the				
opposite might				
represent a				
communicatio				
ns challenge.				
Interest in				
food				
safety/integrity				
. The degree		Doog Ithio		
to which	Do you	Does [this		
different	Do you include food	platform/mark etplace (type)]		
platforms	safety and	explicitly		
encourage	integrity	include food		
vendors to	considerations	safety and	Low	High
think about	in your	integrity	LOW	riigii
food	communicatio	considerations		
safety/integrity	ns with	in vendor		
is not well	vendors?	communicatio		
known		ns?		
(especially				
outside the				
takeaway				
sector).				

Interest in food safety culture. The degree to which different platforms encourage vendors to think about their food safety culture is unknown.	Do you include food safety culture considerations in your communications with vendors?	Does [this platform/mark etplace (type)] explicitly include food safety culture considerations in vendor communications?	Medium	High
communications. Good communicate with LAs and the FSA can facilitate regulation; poor communication may represent a challenge.	Do you have established channels/proc edures to communicate with local authorities (LAs) and the FSA?	Does [this platform/mark etplace (type)] have an established communicatio n channel/proce dure with LAs and the FSA?	Medium	Medium

Facilitating allergen declarations. Functionality differentials may affect the extent to which a platform facilitates allergen declarations (and their visibility).	Do you provide the functionality for vendors' allergen declarations to be visible?	Does [this platform/mark etplace (type)] make allergen declarations visible?	Low	High
FHRS (admission). Platforms that require vendors to have a minimum FHRS score may represent a lower risk than those that do not.	Do you require a minimum FHRS score from your vendors?	Does [this platform/mark etplace (type)] require a minimum FHRS score from vendors?	Medium	Medium
FHRS (display). Functionality differentials may affect the extent to which a	Do you provide the functionality for vendors' FHRS score to be visible?	Does [this platform/mark etplace (type)] make FHRS scores visible?	Medium	Medium

platform facilitates FHRS display (and their visibility).				
Quality assurance. Platforms with quality assurance processes may help to reduce the likelihood of unintentional incidents and fraud-related incidents.	Do you inspect or otherwise quality-assure your vendors?	Does [this platform/mark etplace (type)] inspects or otherwise quality-assures vendors?	Medium	Medium

Table 12: Logistics (Applicable to intermediary platforms involved in food delivery/events' management, incl. outsourcing).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
			,	,

Ownership. The ownership over issues that may arise during food delivery or management of food events/experie nces may vary as per the relation between platforms and contractors/as sociates.	Irrespective of who performs it, do you have oversight and control of all aspects of delivery and/or event management?	Does [this platform/mark etplace (type)] have oversight and control of all aspects of delivery and/or event management?	Medium	Low
Delivery (training). Trained delivery or event management personnel are less likely to incur food safety and integrity issues than untrained personnel.	Do you require or provide food safety training from/to your delivery or event management team?	Does [this platform/mark etplace (type)] require or provide food safety training from/to its delivery or event management team?	High	Medium
Delivery (temperature). Food	Do you ask/provide equipment	Does [this platform/mark etplace (type)]	Medium	Low

(including	from/to you	ask/provide		
groceries) is	delivery or	equipment		
susceptible to	event	from/to their		
changes in	management	delivery or		
temperature.	team to	event		
	ensure that	management		
	food	team to		
	temperature is	ensure that		
	maintained	food		
	throughout	temperature is		
	delivery or	maintained		
	service?	throughout		
		delivery or		
		service?		
		Does [this		
	Do you	platform/mark		
Delivery	ask/provide	etplace (type)]		
(contamination	guidelines and	ask/provide		
). Food	equipment	guidelines and		
(including	from/to you	equipment		
groceries) can	delivery or	from/to their		
be	event	delivery or	High	Medium
unintentionally	management	event		
or intentionally	team to avoid	management		
contaminated	food being	team to avoid		
during	contaminated	food being		
delivery.	during delivery	contaminated		
	or service?	during delivery		
		or service?		

Mix-ups (foundational). Accidental mix-ups seem likely in the context of the delivery of multiple orders and during the management of large events.	Do you ask/provide guidelines and equipment from/to you delivery team to avoid orders being mixed-up during delivery?	Does [this platform/mark etplace (type)] ask/provide guidelines and equipment from/to you delivery team to avoid orders being mixed-up during delivery?	Medium	Low
Mix-ups (mixed goods). Some platforms sell food and non- food products. It is unknown if food is being mixed with other products in a way that could lead to cross- contamination.	Do you have procedures to avoid food products being mixed with non-food products during transport/deliv ery?	Does [this platform/mark etplace (type)] have procedures to avoid food products being mixed with non-food products during delivery?	High	Medium
Mix-ups (allergens). Mix-ups of allergen and non-allergen items seem	Do you have procedures to avoid ingredients being mixed during	Does [this platform/mark etplace (type)] have procedures to avoid	Medium	Low

transport and	ingredients		
service?	being mixed		
	during		
	transport and		
	service?		
provide logistical services that lead to you,	Does [this		
your staff,	platform/mark		
personnel,	etplace (type)]		
partners, or	combine/matc	Low	Medium
associates	h		
_	⁻		
-	_		
s by the vendors in your platform into single orders?	vendors in it?		
	Do you provide logistical services that lead to you, your staff, personnel, partners, or associates combining products/offer s by the vendors in your platform into single	service? being mixed during transport and service? Do you provide logistical services that lead to you, your staff, personnel, partners, or associates combining products/offer s by the vendors in your platform into single being mixed during mixed during mixed and service? Does [this platform/mark etplace (type)] combine/matc associates h combining products/servi ces by the vendors in it?	being mixed during transport and service? Do you provide logistical services that lead to you, your staff, personnel, etplace (type)] partners, or combine/matc associates combining products/offer s by the vendors in your platform into single being mixed during transport and service? Low

Vendor matching (traceability). Without due internal record- keeping by the platform, vendor matching activities may challenge traceability even further.	Do you keep detailed records of the ways in which you combine/matc h offers by different vendors in your platform?	Does [this platform/mark etplace (type)] keep detailed records of the ways in which offers by different vendors in the platform are combined?	High	Low
Meta- aggregation (foundational). Platforms that complement their listings with products or services from other platforms might face added food safety and integrity challenges.	Do your listings include (outsourced) products/servi ces by vendors external to your platform and/or from other platforms?	Does [this platform/mark etplace (type)] list (outsourced) products/services by external vendors or from other platforms?	Low	Medium
Meta- aggregation (traceability). Platforms that	Do you keep detailed records of the products/servi	Does [this platform/mark etplace (type)] keep detailed	Medium	Low

complement	ces you	records of the
their listings	outsource/agg	products/servi
with products	regate from	ces it
or services	external	outsources/ag
from other	vendors	gregates from
platforms	and/or other	external
might	platforms?	vendors or
represent a		other
particularly		platforms?
poignant		
traceability		
challenge.		

Table 13: Open/social marketplaces (Applicable to 'marketplace' intermediary platforms).

Hazard	Self- assessment	Diagnosis	Impact (potential, health)*	Impact (potential, non-health)*
Illicit activities. Marketplaces are attractive for vendors who want to sell illegal food items.	Do you monitor listings to ensure no illegal food items are sold or otherwise traded through your marketplace?	Does [this platform/mark etplace (type)] monitor listings to ensure no illegal food items are sold or otherwise traded through it?	Medium	High
Repeat offenders. Marketplaces	Do you require proof of ID or business	Does [this platform/mark etplace (type)]	Medium	Low

not req	uiring	registration	require proof
proof of ID or		from users as	of ID or
registration		a pre-requisite	business
from vendors		to enabling the	registration
may provide		marketplace	from users as
an opportunity		functionality?	a pre-requisite
for repeat			to enabling the
offenders to			marketplace
continu	ie		functionality?
busines	ss		
indefini	itely.		

Assessment Form²

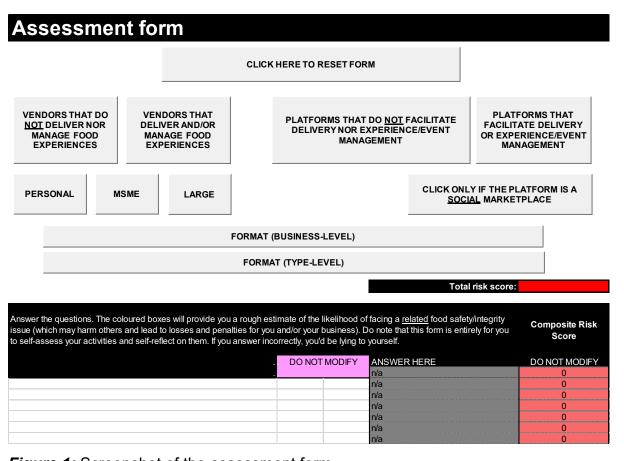


Figure 1: Screenshot of the assessment form.

² In the original version of this file the assessment form contains actionable buttons by which to select the type of actor/business to analyse. Macros then populate the

Administrative sections³

Table 14: Tables needed for main file functionality.

Impact A			
Low			
Medium			
High			
Impact B			
Low			
Medium			
High			
Likelihood (assessment)			
NO (or, 0% of this type of vendors/platforms)			
MINIMALLY (or, < 1% of this type of vendors/platforms)			
SOMETIMES (or, 1-10% of this type of vendors/platforms)			
REGULARLY (or, 10-90% of this type of vendors/platforms)			
ALMOST ALWAYS (or, > 99% of this type of vendors/platforms)			
YES (or, 100% of this type of vendors/platforms)			
n/a			

form with applicable questions. In this file, a screenshot is given in lieu of the ability to offer working macros.

³ The original file contains an additional section/sheet for functionality, with the

contents declared below.