

**Foresight in the livestock[[1]](#footnote-1) sector: a glance into the future**

**We are kindly inviting you to participate in this exercise whose purpose is for us to prepare better and with additional “foresight” our future actions and interventions.** With your contribution, you will help us to gather better information and you will become members of the FAO Livestock Foresight Network of Experts and be involved in future activities and updating. Your answers will be handled confidentially, but as member of the network, you will be informed with the results of the survey. This exercise is a first step to identify issues that could lead to specific thematic fora and workshops. **We would be grateful if you could provide us your opinion by filling in the sections below and send the document back to us by 15 July 2017.**

FAO is carrying out a foresight exercise to identify issues of emerging importance in the future in the livestock sector and more specifically in:

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| Animal health |  | Animal welfare |  | Animal production |

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|  | Feed safety |  | Safety of food of animal origin |  |

**These issues can be:**

* completely new and unexpected OR
* expected as consequence of the current situation OR
* already existing, but of increased importance in the future OR

**What is foresight?**

*Foresight is the purposeful act of looking forward in order to gain knowledge about the future, and is supported by a collection of ‘forward looking’ techniques that can be used to support decision-making, in particular strategic decisions.*

**How does it work?**

This exercise is a forward thinking process. It is a very important and interesting exercise that we want you to be a part of. Please, note that we would like to receive your personal, honest and informal opinion, not the official position of the institution/organization/company you are working for. Replying requires you to think “**out of the box**” and “**leave your professional comfort zone**” letting aside image and career restrains while always maintaining a professional, scientific and evidence based approach. Do not hesitate to express controversial and less popular aspects and opinions 9you are not going to be judged for those). You need to think beyond the usual boundaries. Considering the complexity and the multi-sectorial nature of the livestock sector, we are conducting this survey among a number of different stakeholders (from research centers, academia, intergovernmental organizations, national authorities, private sector, financial institutions, civil society, professional organizations, food movements, etc.) worldwide.

We ask you to answer the following questions as detailed and specific as possible. We do not seek repetitive broad answers. In order to limit the exercise and to retrieve valuable inputs from your side, we would like you, depending on your knowledge and expertise, to focus on one or more of the following five focus areas: 1) animal health, 2) animal production, 3) animal welfare, 4) feed safety, 5) safety of food of animal origin.

**Definitions:**

* Issues:With the word ’issues’ is meant either **hazards/challenges**, but also (positive) **opportunities or trends** that might have an impact on the livestock sector globally.
* Emerging issues: are those that are **new or unexpected**. Although their effect is currently not necessarily being experienced, these issues may **cause a change** in the status quo. They are also those which are expected as consequence of the current situation or already existing, but of increased importance in the future.
* Critical issues: are those that are the **most pressing** ones, and as such need to be addressed and considered as **priorities**.
* Driver of change: A driver refers to the **underlying cause of change** that might lead to the presence or potential occurrence of an issue. A driver of change could lead to hazards as well as opportunities. E.g.: climate change, globalization, economic factors, trade, new technologies, new scientific progress, urbanization, cultural change, public awareness or migration.

**General Info about the respondent**

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| --- | --- |
| **Full name** |  |
| **Institution/Organization/Company** |  |
| **Function** |  |
| **Contact (email)** |  |
| **Country** |  |

**Region** *(please mark with an* ***X****)*

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| European Union and Economic European Area |  | Southern and Eastern Asia |  | Latin America and the Caribbean |  |
| Balkans and Eastern Europe |  | Northern Africa and Near East‬‬‬ |  | Northern America (excluding Mexico)‬ |  |
| Central Asia |  | Sub-Saharan Africa |  | Oceania and Pacific |  |

**Sector in which you work** *(please mark with an* ***X****)*

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| research centers |  | governmental institutions |  | civil society |  | media |  |
| academia |  | producers and private sector |  | professional organizations |  | students |  |
| intergovernmental organizations |  | financial institutions |  | food movements |  | others *(pls. specify)* |  |

**Background/Area of expertise**

Please specify:

1. **ANIMAL HEALTH** 
   1. **Identification of emerging hazards and/or challenge**

Please identify what you believe to be three **emerging hazards and/or challenges** **in the future** (as detailed as possible). According to your opinion which hazards/challenges are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical. Please, note that certain issues, could be at the same time a hazards/challenge AND an opportunity, in that case, you can mention them both in the table below and in the successive.

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| **ANIMAL HEALTH - hazards and/or challenge** | | | | | | |
| **Emerging hazards and challenges** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging hazards/challenge. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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* 1. **Identification of emerging opportunities**

Please identify what you believe to be three **emerging opportunities in the future** (as detailed as possible). According to your opinion which opportunities are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical.

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| **ANIMAL HEALTH - opportunities** | | | | | | |
| **Emerging opportunities** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging opportunity. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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1. **ANIMAL WELFARE** 
   1. **Identification of emerging hazards and/or challenge**

Please identify what you believe to be three **emerging hazards and/or challenges** **in the future** (as detailed as possible). According to your opinion which hazards/challenges are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical. Please, note that certain issues, could be at the same time a hazards/challenge AND an opportunity, in that case, you can mention them both in the table below and in the successive.

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| **ANIMAL WELFARE - hazards and/or challenge** | | | | | | |
| **Emerging hazards and challenges** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging hazards/challenge. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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| **ANIMAL WELFARE - opportunities** | | | | | | |
| **Emerging opportunities** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging opportunity. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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1. **ANIMAL PRODUCTION**
   1. **Identification of emerging hazards and/or challenge**

Please identify what you believe to be three **emerging hazards and/or challenges** **in the future** (as detailed as possible). According to your opinion which hazards/challenges are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical. Please, note that certain issues, could be at the same time a hazards/challenge AND an opportunity, in that case, you can mention them both in the table below and in the successive.

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| **ANIMAL PRODUCTION - hazards and/or challenge** | | | | | | |
| **Emerging hazards and challenges** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging hazards/challenge. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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* 1. **Identification of emerging opportunities**

Please identify what you believe to be three **emerging opportunities in the future** (as detailed as possible). According to your opinion which opportunities are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical.

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| **ANIMAL PRODUCTION - opportunities** | | | | | | |
| **Emerging opportunities** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging opportunity. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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1. **FEED SAFETY**
   1. **Identification of emerging hazards and/or challenge**

Please identify what you believe to be three **emerging hazards and/or challenges** **in the future** (as detailed as possible). According to your opinion which hazards/challenges are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical. Please, note that certain issues, could be at the same time a hazards/challenge AND an opportunity, in that case, you can mention them both in the table below and in the successive.

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| **Feed safety - hazards and/or challenge** | | | | | | |
| **Emerging hazards and challenges** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging hazards/challenge. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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* 1. **Identification of emerging opportunities**

Please identify what you believe to be three **emerging opportunities in the future** (as detailed as possible). According to your opinion which opportunities are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical.

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| **FEED SAFETY - opportunities** | | | | | | |
| **Emerging opportunities** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging opportunity. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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1. **SAFETY OF FOOD OF ANIMAL ORIGIN**
   1. **Identification of emerging hazards and/or challenge**

Please identify what you believe to be three **emerging hazards and/or challenges** **in the future** (as detailed as possible). According to your opinion which hazards/challenges are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical. Please, note that certain issues, could be at the same time a hazards/challenge AND an opportunity, in that case, you can mention them both in the table below and in the successive.

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| **SAFETY OF FOOD OF ANIMAL ORIGIN - hazards and/or challenge** | | | | | | |
| **Emerging hazards and challenges** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging hazards/challenge. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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* 1. **Identification of emerging opportunities**

Please identify what you believe to be three **emerging opportunities in the future** (as detailed as possible). According to your opinion which opportunities are the most **critical**, that need to be dealt with as a priority. Please give each a score from 1 to 6 where 1 is the most critical.

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| **SAFETY OF FOOD OF ANIMAL ORIGIN - opportunities** | | | | | | |
| **Emerging opportunities** | **Score**  *(1 to 6)* | **Degree of confidence**  *(low, medium, high)* | **Explanation** | **Drivers of change** | **Impact** | **Timeframe**  *short term (2-5 years)*  *medium term (5-10 years)* |
| *Write a short description.* | *Give a score from 1 to 6, where 1 is the most critical.* | *Indicate solidity of the currently available knowledge base. Indicate if low, medium or high.* | *Write 1-2 paragraphs on why you selected this emerging opportunity. Provide references, like information/data, knowledge, if possible.* | *Describe the drivers of change that might lead to it.* | *Indicate if the impact is sector-specific (which one?), if it affects only some population groups (indicate), or if it is country/region specific (indicate which).* | *Indicate when the issue will become critical. Short term (2-5 years) or*  *medium term (5-10 years).* |
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Comments or any additional feedback on the exercise:

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1. Please note that for the purpose of this exercise, the word “livestock” include also working (traction and transport) animals [↑](#footnote-ref-1)