Biosecurity: the key of ASF control

生物安全:非洲猪瘟(ASF)控

制的关键点



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Biosecurity 生物安全

the most effective control tool for ASF 控制ASF最有效的工具

The only potent tool we have... 我们所拥有的唯一强力工具...... 1st step: collecting our thoughts 第1步:整理我们的思绪

What do we think of, when we see the word

BIOSECURITY?

当我们看到"生物安全"这个词时,我们会想到什么?

Biosecurity: EU Animal Health Law

生物安全: 欧盟动物保健法

'Biosecurity' means the

sum of management and physical measures designed to reduce the risk of the introduction, development and spread of diseases to, from and within:

- (a) an animal population, or
- (b) an establishment, zone, compartment, means of transport or any other facilities, premises or location

"生物安全"是指在以下事物进出通道上或在其内部,用于降低疾病引入、演化和传播风险的所有物理性和管理性措施·

- (a) 动物群体或
- (b)组织机构、地区、隔间、运输工具或其它任何设施、 场所和位点

More definitions 其它定义

OIE, Terrestrial Animal Health Code - Glossary

国际兽医局,陆生动物卫生法典--术语汇编

Biosecurity means a set of management and physical measures designed to reduce the risk of introduction, establishment and spread of animal diseases, infections or infestations to, from and within an animal population.

生物安全是指在进出动物群体的通道上或在其内部,用于降低动物疾病、传染病或虫害引入、发生和传播风险的一系列物理性和管理性措施。

Hardware

硬件







→ Software软件 (Mindset/Philosophy)

(思维模式/思想体系)

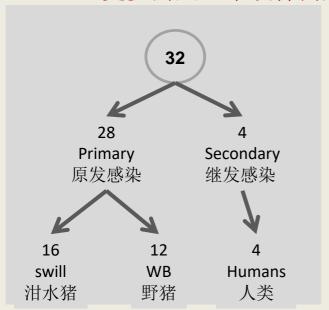


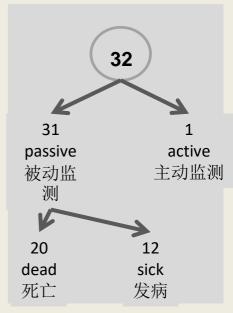


Back to ASF Prevention 回到ASF的预防

More a hardware or a software problem?

更多的是一个硬件问题还是软件问题?





ASF outbreaks in Latvia in 2014, field observations (Oļševskis et al., 2015) 2014年拉脱维亚ASF疫情实地观察(Oļševskis等,2015)

How to implement specific biosecurity plans? 如何实施特定的生物安全计划?

1. Know the production systems you want to address («know your friends»)

了解你要面对的生产系统("了解你的朋友")

2. Know the disease and its spreading pathways (know your enemy»)

了解疾病及其传播途径("了解你的敌人")

- 3. Be pragmatic and reasonable 实用、合理
- 4. Be strict in the implementation 严格执行

Production systems

生产系统

There are a number of different animal production systems to take into account when biosecurity measures are reviewed. These include:

在谈论生物安全措施时,需要虑及一些不同的动物生产系统,包括:

- Large size commercial farms where production is professionalized 大规模商业化养殖场:专业化生产
- Family farms backyard farms or hobby farms having one or a few pigs and perhaps some other animals
 - 家庭农场-农家后院或休闲农场:有一头或几头猪,可能还有其它动物
- Organic farms with less intensive production systems and partly based on free range of animals

有机农场: 非集约化生产系统,部分为自由放养牧场

Farmed pigs 农场猪

- no swill feeding 不喂泔水
- no outdoor keeping 非户外喂养
- good veterinary service 良好的兽医服务
- registered holdings 登记在案
- movement control 流转控制
- good bio-security 良好的生物安全
- controlled trade 贸易管制
- professional management 专业化管理

Back yard pigs 农家后院猪

- swill feeding 饲喂泔水
- outdoor keeping 户外喂养
- poor veterinary service
 兽医护理差
- inadequate registration
 登记不全
- home slaughtering 自宰
- inadequate movement control 流转控制不充分
- bad bio-security 生物安全性差
- uncontrolled markets 市场不受控制
- tradition, etc.

Backyard farming: A biosecurity challenge

庭院养殖: 生物安全存疑

Backyard pig farming apart from tradition

除是传统习俗外,庭院养猪:

- plays an integral role in recycling of food 在食物循环利用中起着不可或 缺的作用
- plays an important role for meat supply in rural areas 对农村地区的肉类供应发挥重 要作用
- is a valuable cash income
 是一项重要的现金收入源





What do we need to prevent ASF? 为防ASF,我们需要做什么?

No contact with wild boar 不与野猪接触

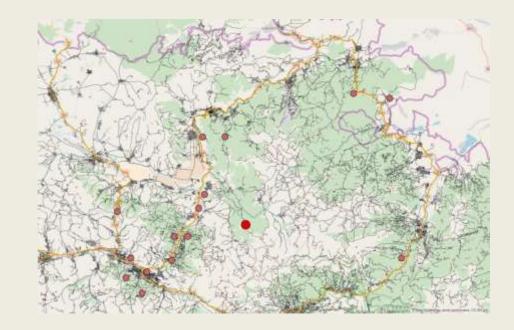
No contact with pigs of other farms 不与其它农场的猪接触

No access to animals for visitors 访客没有接触过动物

No swill feeding 不饲喂泔水

No roughage feed or bedding harvested in areas with infected wild boar 粗饲料或垫草不得来自患病野猪的活动区域

Backyard farming 庭院养殖



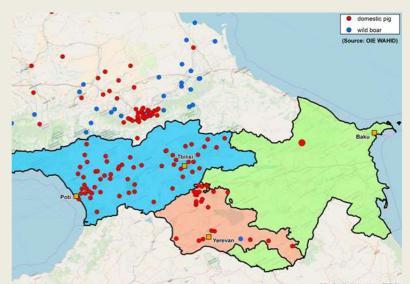
Three basic biosecurity rules 3项基本的生物安全准则

- 1. No swill feeding 不饲喂泔水
- 2. No contact between the pig(s) on the farm and susceptible animals 农场内的猪与易感动物无接触
- 3. The owner/keeper change clothes on entering the stable and leaving the stable 在进出猪舍时,业主/饲养员更换衣物

TRADITION 传统习俗

Home slaughtering at Christmas 在圣诞节自宰







Segregation

隔离







This can not be enough! 这还不够!





Improving Biosecurity

提高生物安全

What can we expect?

我们能期待什么?

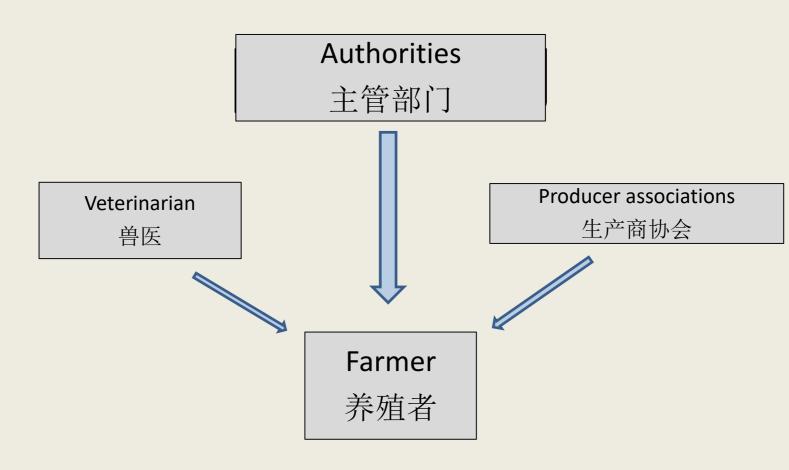


Are we realistic? 我们现实吗?

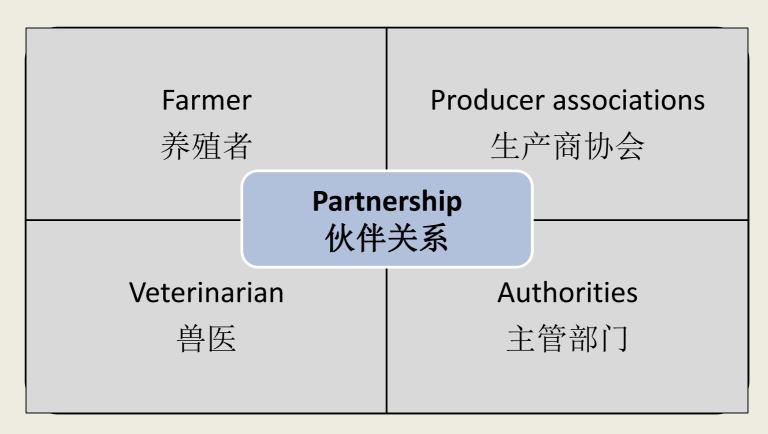




How do we get there 我们怎么才能做到这些?



How do we get there 我们怎么才能做到这些?



More than anything 最重要的是

Biosecurity is a "mindset" or "philosophy" that must be developed by producers

生物安全是一种生产者必须建立的"思维模式"或"思想体系"

- It requires the adoption of a **set of attitudes** and behaviors by people to reduce risk in all activities 它需要人们在所有活动中采取一系列态度和行为,以降低风险
- There is no "one fits all" solution biosecurity should be adapted to present risks
 没有"放之四海而皆准"的解决方案,生物安全应与当前风险
 匹配

Put the producer in the center 以生产者为中心



Tell me, I will forget! 告诉我,我会忘记!

Show me, I may remember! 展示给我看,我可能会记住!

Involve me, I will understand! 让我参与,我可以弄明白!

Chinese proverb 中国谚语

Biosecurity is Risk Management 生物安全即风险管理

Risk is never = 0 风险永远不会为零

Perception of risk is "personalized" 风险认知"仁者见仁,智者见智"

- Do we <u>always</u> put the seatbelt on? 坐在车上时,我们总会系好安全带吗?
- Do we <u>always</u> respect the speed limit? 我们总会遵守限速规定吗?
- Do we <u>never</u> touch the mobile while driving? 在开车时,我们从不触碰手机吗?
- Do we <u>immediately</u> change oil when reaching certain km? 当达到特定公里数时,我们会立即更换机油吗?

Biosecurity in a context 生物安全情景

"Peace time" Biosecurity "平时"的生物安全

- Routine work on farm 农场内日常工作
- No specific target 没有明确目标

"Crisis-oriented" Biosecurity "面向危机"的生物安全

- Goes beyond the normal routine 超出日常工作范畴
- Has a specific target 具有明确目标
- Additional efforts (ideally) with a time horizon 付出额外的努力-(在理想情况下)有时间范围或期限

Both follow the same principles but have different main concerns and dimensions

两种情景遵循相同的原则,但关注焦点和工作范畴不同

Biosecurity – Conclusions 生物安全 – 结论

 Good biosecurity is a vital part of keeping new diseases away from animals.

良好的生物安全是让动物远离新发疾病的关键。

 A good biosecurity is alway essential- diseases may not always be apparent, especially in the early stages.

良好的生物安全总是必需的--疾病并不总是显而易见,尤其是在早期阶段。

 A good biosecurity is based on a partnership involving livestock producers, veterinarians and official authorities.

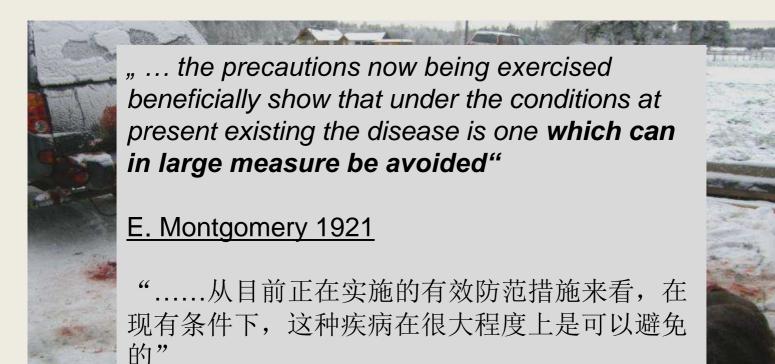
良好的生物安全基于畜禽生产商、兽医和主管机构的合作。

Biosecurity in the forest...

森林生物安全.....







E. 蒙哥马利, 1921

Biosecurity during hunting!!!

狩猎期生物安全!!!

Photo: V. Guberti 照片来源: V. 古贝蒂