A PERSPECTIVE ON EQUINE INFLUENZA

Graeme Cooke
Director
Overview

1. The FEI as a Global organisation

2. The FEI International Equestrian Events and Growth Rate

3. What needs protecting? What is at risk?

4. Key issues, and needs with regard to the threat of Equine Influenza
Who we are

- 132 affiliated National Federations
- Each year approx 3500 international competitions are organised under FEI rules
- Only Olympic sport involving an animal
- Male & female riders share same podium
REINING SUPREME.
SOME HEROES COME ON HORSEBACK.
Role Of FEI In Equestrian Sport

Protect the image and develop Equestrian Sport

Provide Rules, Regulations & Standards:

Control the technical organisation for all FEI events

- Including Standards, Welfare and Veterinary matters
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The Unique Partnership with the Horse Requires

- RULES OF THE SPORT
- Welfare Codes and Legislation
- Doping and Medication Controls
- OFFICIALS
- Safety and injuries
- VACCINATION, DISEASE CONTROL AND BIOSECURITY
- Identification methods
- INTERNATIONAL TRADE AND MOVEMENT OF HORSES
- Education & Communication
- REGULATIONS
FEI Communication Capability

- FEI Website - FEI.org
- Calendar of Events
- Annual Report
- FEI Press News (Weekly - FAX & email)
- Direct memos to National Federations
- Guidance notes

- FEI Focus
- Digital Media
- Social media
- NF Updates
- Direct mailing
- Training and Development Programmes
- Courses

• REGULATIONS

- Guidance notes
- FEI Veterinary.org
- FEI Veterinary Meetings at major events- Reports
- FEI Veterinary Seminars & Courses
- Direct memos to National Federations
- FEI Directory
- National Head Vets
- FEIvet.com (planned)
Influence Throughout The Horse World
FEI Events 2002 – 2013 by Discipline
Growth in the Americas

- Group IV
- Groups V & VI
- Total Americas
Economic and Social benefits of the Equine Industry

SIGNIFICANT CONTRIBUTER TO THE ECONOMY

SIGNIFICANT EMPLOYER

SUPPORT IN PRESERVATION OF THE COUNTRYSIDE

POWERFUL TOOL FOR SOCIAL INCLUSION AND COHESION
The Equine Economic Effect

- **Germany**, Aachen WEG – 160 Million Euro locally for one event
- **Pan American Games 2011, Mexico** - 100 millions of Pesos
- **UK** equestrian sector is the largest sporting employer in the **UK** - Indirect employment 220 – 270 000, Greater than UK farming
- **EU Equine Industry** over 100 billion Euros per year; horse riders growing by 5% per annum, contributed with more than 1.6 billion Euros to government taxes and 400000 jobs
- **Hungary** – The KINCSEM Horse Cluster - most jobs from horses
- **Ireland** Punchestown, 100,000 spectators a year over 3 days - 43 million euros worth for the local economy

**EVERY 5 HORSES CREATES ONE JOB**
THE FEI EVENT
Be part of the glory, book your packages now!

ALLTECH FEI WORLD EQUESTRIAN GAMES™
2014 in NORMANDY-FRANCE
8 DISCIPLINES . 15 DAYS . 60 NATIONS . 1000 CHAMPIONS

FROM 23 AUGUST TO 7 SEPTEMBER
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FEI
Fédération Équestre Internationale
Let the Games begin!
Direct Revenues from a World Games

Direct economic benefit $233m

- Investment in host venue $80m
- Event management $26m
- Sponsors $12m
- Competing Federations $11m
- Media $3m
- Trade stalls $4m
- Spectator spending $97m

Sponsors $12m

Competing Federations $11m

Media $3m

Trade stalls $4m

Spectator spending $97m

Investment in host venue $80m

Event management $26m
Indirect Revenues from a World Games

Indirect economic benefits
~$400m + non-economic benefits

Transportation

Hotels and catering

Wholesales and retailing

Visitors likely to return and recommend destination

Positive image for locals and visitors

Positive image for locals and visitors

Hotels and catering

Wholesales and retailing

Visitors likely to return and recommend destination

Transportation

Indirect economic benefits
~$400m + non-economic benefits
Number of FEI Events
16 DAYS
8 WORLD CHAMPIONSHIPS
1 WORLD-CLASS EVENT
2010 World Equestrian Games

<table>
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<th>Category</th>
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<tr>
<td>Riders</td>
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<tr>
<td>Nations</td>
<td>60+</td>
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<tr>
<td>Horses</td>
<td>1000 plus</td>
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<td>Spectators</td>
<td>500’000</td>
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<td>250-400 M</td>
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<td>140</td>
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<td>Accreditations</td>
<td>12,500</td>
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<tr>
<td>Volunteers</td>
<td>2,000</td>
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Quarantine Area
KEEP OUT

NO VEHICLE ACCESS
GROWTH OF EQUINE MOVEMENTS
International Races
Disease-free Zone: Conghua City, where the Equestrian Competition Venue located.

Buffer Zone: the 8 administrative areas, which are adjacent to Conghua City.

Biosecure safety Passage for Equine Transportation: Road From Competition Venue to Guangzhou Baiyun International Airport and road from competition venue to Shenzhen Huanggang port.

AN OIE RECOGNISED EQUINE DISEASE FREE ZONE (EDFZ)

THE BUFFER ZONE

HONG KONG
Temporary Quarantine Cincinnati Airport 2010
THE FEI HORSE

An International High Performance Horse under strict Controls
FEI Passports
Horse Inspections & Examinations

Essential To FEI Competition

• Passport Control and Health Check
  - biosecurity and Influenza vaccination checks
  - establish horse identity

• Veterinary Examinations
  - clinical examination to establish health
  - Check for possible disease

• Horse Inspections
  • ensuring horses are fit to compete
**FEI Influenza Regulations**

**Vaccination Record**

<table>
<thead>
<tr>
<th>Date</th>
<th>Place and Country</th>
<th>Vaccine / Vaccin / Vacuna</th>
<th>Name</th>
<th>Batch number</th>
<th>Route / Mode</th>
<th>Name, signature and stamp of official veterinarian</th>
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<td>Gijon</td>
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FEI Vaccination Regulations

Equine Influenza (EI)

Primary Course: 2 vaccinations: 21-92 days apart
First Booster: 7 calendar months

Booster Vaccinations:
  a) minimum every 12 months

  b) Horses competing:
  within 6 months +21 days (not within the 7 days) before arrival at the Event
Key issues, and needs with regard to the threat of Equine Influenza
HA Phylogenetic Tree Up To 2000

Late 1990’s American lineages dominate

Early 1990’s European and American lineages causing disease
HA Phylogenetic Tree 2010 – Continuing Evolution Of American Lineage

Clade 1
Florida sublineage
(A/eq/Ohio/1/03)

Clade 2
Florida sublineage
(A/eq/Newmarket/5/03)

American
(A/eq/Newmarket/1/93)

European
(A/eq/Newmarket/2/93)

A/eq/Miami/63
**OIE Influenza Expert Surveillance Panel Recommendations**

1995  Representatives of both American and European lineages should be included in vaccines **Newmarket/1/93 or Kentucky/94 and Newmarket/2/93 or Suffolk/89**

2004  Update American lineage to **S. Africa/03 or Ohio/03**, no change ref European strain

2010  Include American **Florida sublineage Clade 1 and Clade 2 strains**, no need to include European lineage strains
Equine Influenza Concerns

- All European countries have widespread influenza vaccination but not sufficient to provide protection at population level
- Equine influenza vaccines are updated too slowly
- Strains with sufficient antigenic differences cause significant disease in vaccinated horses e.g. Newmarket in 2003, Normandy 2012
- OIE recommended Clade 2 not included in commercial vaccinations – many reasons given
- Manufacturer Regulatory Fastrack not available in past
- Industry proactivity has been slow – but must change
Acknowledgments

- European Commission (EU)
- Peden Bloodstock (GER)
- Dr Connie Herholz, Berner Fachhochschule (CH)
- Dr Des Leadon, Int Thoroughbred Breeders Association (IRL)
- London Organising Committee Olympic Games
- World Animal Health Organisation (OIE)
- Royal Veterinary College London
SUMMARY

✓ Now More Movements and Competitions than ever

✓ Need to include American Florida sublineage Clade 1 and Clade 2 strains

✓ Find a way for manufacturers to introduce updated vaccines easily

✓ Industry awareness and Biosecurity awareness essential
FEI Contact and Information

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THANK YOU
Thank you for your attention