



## Policy paper

on the necessity of vaccine banks for major animal diseases which should be available in the European Union in emergency situations or major crisis

*November 2009*

## The scope of the policy paper (I)

- 1) Identification of the infectious diseases for vaccine/antigen banks;
- 2) Conditions under which vaccination is recommended;
- 3) Recommendations for vaccination strategies under emergency situations;



## The scope of the policy paper (II)

- 4) The use of vaccines as part of DIVA-strategies;
- 5) Estimates of size and costs of the vaccine stocks;
- 6) Identifying the need for diagnostic banks;
- 7) Recommendations for improving EU legislation.



## Vaccine banks are part of a holistic concept

- Adequate diagnostic tools and surveillance systems are in place to substantiate that vaccinated animals are free from the infected agent
- Vaccination is a realistic and cost effective strategy
- Trade issues are resolved regarding the vaccinated animals
- The legal basis for emergency vaccination is established and that there is a sound regulatory basis for the vaccines
- The establishment of vaccine banks must be part of a strategic plan prepared during peace time



## Infectious diseases for which vaccine and diagnostic banks should be available

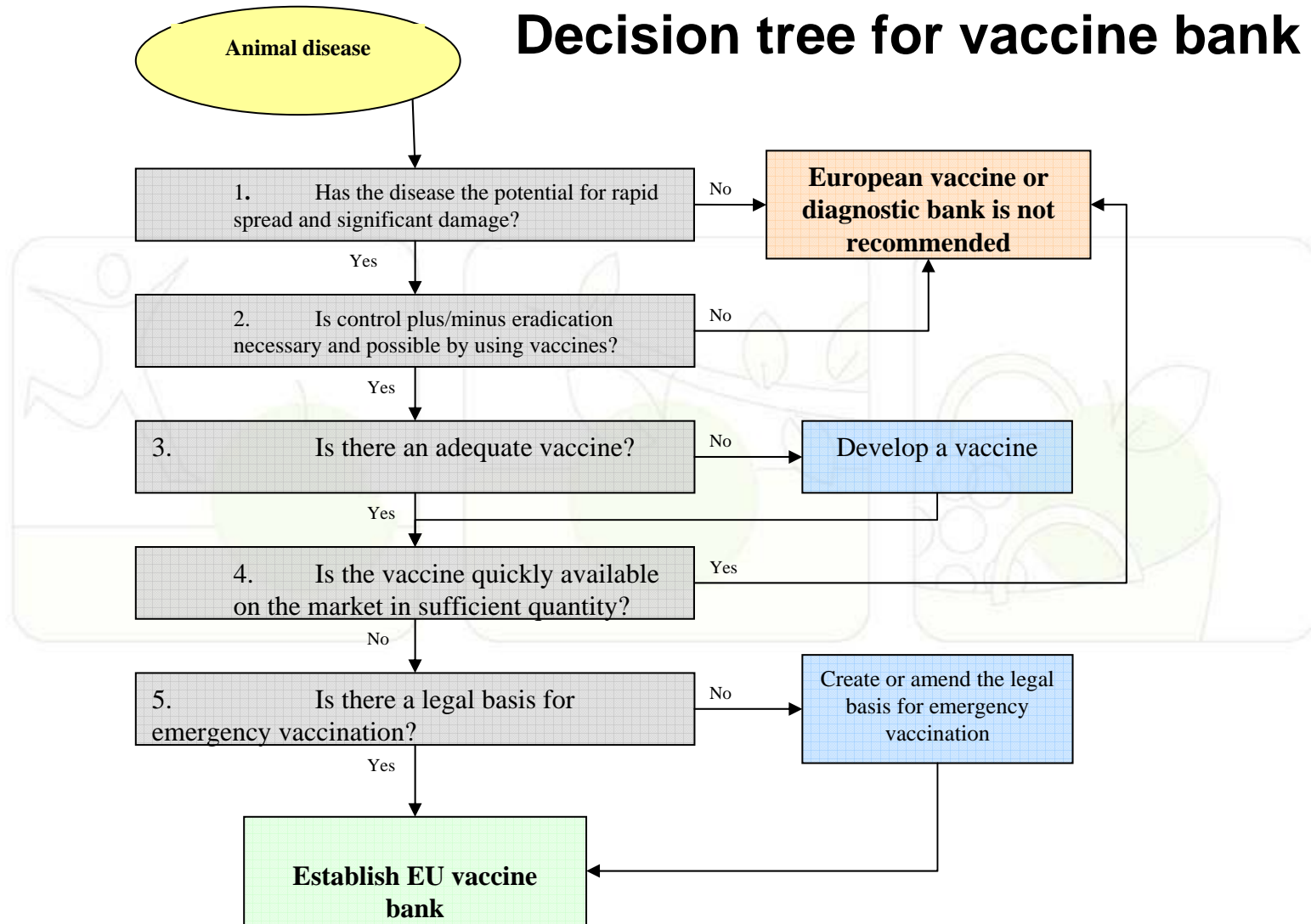
1. Disease qualifying for vaccine and diagnostic bank
2. Disease qualifying only for a diagnostic bank
3. Potential candidates for a vaccine bank
4. Diseases not qualifying for a vaccine bank

**Council Directive 82/894/EEC** on the notification of animal diseases in the Community: 22 infectious diseases are listed, all of which are considered to have a major impact on animal health but also on trade or human health (zoonotic character).

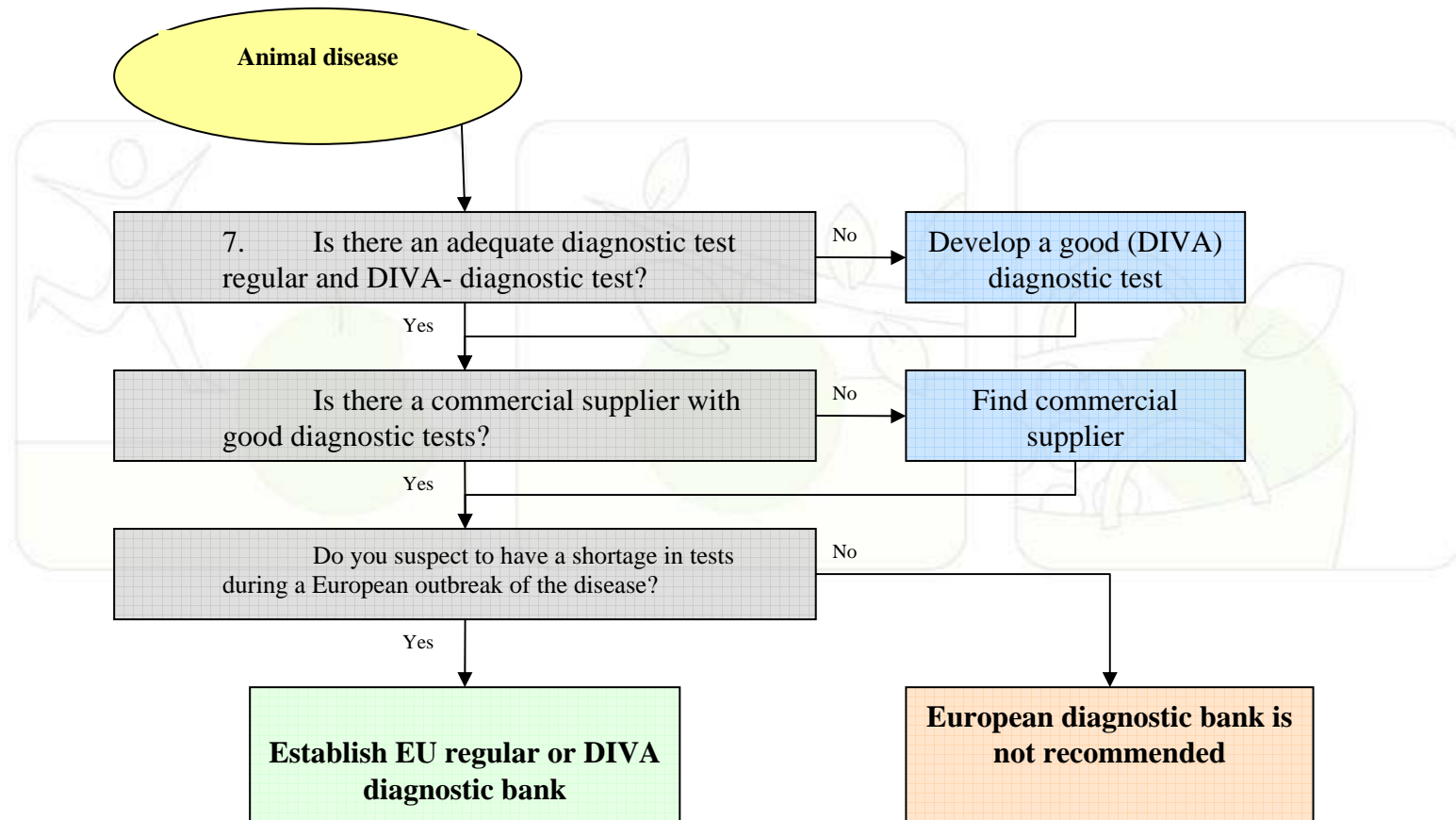


<b>DISEASE</b>	<b>Size of VB (doses)</b>	<b>Estimated costs for VB</b>	<b>Size of DB</b>	<b>Estimated costs for DB</b>
<b>FMD</b>	2.5-5 million doses per strain (risk dependent)		2.5 million tests	
<b>AI</b>	40.000.000	~ 1.2 Mil €	Not needed	Not needed
<b>CSF</b>	2.000.000	~ 2.8 Mil €	50.000	
<b>BT</b>	Against non-endemic serotypes 3, 5, 6, 7, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23 and 24		Not needed	Not needed
<b>ASF</b>	Not applicable	Not applicable	100.000	
<b>AHS</b>	150.000 for serotypes 2, 4, 9	350.000 €		

# Decision tree for vaccine bank



## Decision tree for diagnostic bank





## Holistic approach

Vaccine Banks can only be treated in the context of a vaccination strategy particular for each major animal disease outbreak (e.g. FMD, CSF, AI).

The future use of vaccines can only be seen in connection with diagnostic tools and surveillance systems available to substantiate that vaccinated animals are free from the infected agent when the control measures are lifted.

It is necessary to discuss the availability and quality of diagnostic tests when vaccines are discussed.

## **Future of vaccine banks for emergency Situations depends on:**

- A solid legal basis for emergency vaccination
- A sound regulatory basis for vaccines

The technical aspects and the strategical use of a vaccine bank depend on the legal and regulatory basis