



### Background

- Animal diseases reduce production by at least 20% according to OIE<sup>1</sup>
- It is estimated that the public and private sector spend each about €400 million per year on animal health research
- The Action Plan of the ETPGAH<sup>2</sup> identified gap analysis and research prioritisation as a major hurdle to the delivery of new vaccines, diagnostics and pharmaceuticals

### Objectives

- Bring together world leading disease experts to identify technology gaps for the control of infectious diseases of animals
- Develop a database with the identified research needs to inform funding bodies
- Prioritise research needs based on prioritisation and gap analysis model
- Communicate with stakeholders and funding organisations to inform of the results

### 52 diseases and overall prioritisation score

Epizootic diseases	Score	Food producing animal complexes	Score	Zoonoses	Score
Peste des petits ruminants	385	Poultry coccidiosis	226	Nipah virus	464
African swine fever	373	Paratuberculosis	223	Bovine tuberculosis	359
Rift valley fever	365	Liver fluke	202	Non tse-tse transmitted animal	
Foot and mouth disease	310	Nematodes	193	trypanosomiasis	296
African horse sickness	294	Porcine circo virus type 2	183	Cryptosporidiosis	291
Contagious bovine pleuropneumonia	269	Bovine viral diarrhoea virus	183	Salmonellosis	282
Classical swine fever	247	Small ruminant mastitis	179	Leishmaniosis	262
Lumpy skin disease	244	Varroa mite	177	Brucellosis	254
Bluetongue	241	<i>Staphylococcus aureus</i> mastitis	175	Leptospirosis	250
Orthopox	237	Theileria	174	Hepatitis E virus	237
Sheep and goat pox virus	218	<i>Mycoplasma bovis</i>	173	Anthrax	220
Avian Influenza	209	Swine influenza virus	162	Campylobacter	219
Parapox	152	Swine <i>Actinobacillus pleuropneumonia</i>	159	Q-fever	214
Swine vesicular disease	118	Bovine respiratory syncytial virus	153	Rabies	212
West Nile Virus	118	Swine mycoplasma	143	Verocytotoxigenic <i>Escherichia coli</i>	209
		Bovine herpes virus type 1	107	Chlamydomphila abortus	197
		Porcine reproductive and respiratory syndrome virus	107	Bovine spongiform encephalopathy	180
		Environmental/Streptococcal mastitis	83	Echinococcosis	167
				Congo crimean haemorrhagic fever	162
				Cysticercosis	130

### Work programme

- While initially funded under E.U. FP7, DISCONTTOOLS was relaunched in 2014 with support from national funders in Austria, Greece, Ireland, Italy, the Netherlands, Spain, Sweden, Switzerland and the UK.
- 11 diseases have been selected for updating of information: avian influenza virus, african swine fever, bovine tuberculosis, campylobacter, porcine cysticercosis, VTEC, foot and mouth disease, nematodes, paratuberculosis, PRRS and swine influenza virus.
- One new disease will be added: porcine epidemic diarrhoea virus

<sup>1</sup> World Organization for Animal Health; <sup>2</sup> European Technology Platform for Global Animal Health