

WORKPACKAGE 5

FISH, MICE OR MONKEYS?

The influence of different factors on the choice of model species



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WP5. Fish, mice or monkeys? The influence of different factors on the choice of model species

Tasks

1. Map state-of-the-art and trends in the use of different species
2. Analyse whether the Directive imposes technical and/or normative limitations to the use of particular species as model of choice, and how this could influence research decisions
3. Analyse the pressure exercised by the public opinion on research decisions

	Inclusion criteria			Division criteria		N° of species with a difference of more than 10 percent point relative to the EU average
	N°of animals used 2011 (more than 100,000)	Information on N°of animals used 2012-2013	WP3	N°of animals used relative to R&D expenditure (above/below the European average)	Proportion of species used (in relation to European average)	
1 AUSTRIA	√			-	atypical	2
2 BELGIUM	√	√		+	typical	0
3 CZECH REPUBLIC	√			+	atypical	2
4 DENMARK	√	√		+	atypical	1
5 FINLAND	√	√		-	atypical	1
6 FRANCE	√			+	typical	0
7 GERMANY	√	√		-	typical	0
8 HUNGARY	√		√	+	atypical	2
9 IRELAND	√	√		+	atypical	3
10 ITALY	√		√	-	typical	0
11 NETHERLANDS	√	√		-	atypical	2
12 POLAND	√	√		-	atypical	2
13 SPAIN	√	√		+	typical	0
14 SWEDEN	√	√	√	-	typical	0
15 UNITED KINGDOM	√	√	√	+	typical	0



-Extensive legislation before the transposition of Directive

-Level of Acceptance of animal research Mice/Dogs&Monkeys(Eurobarometer 2010)

-Political geography (North/East/New MS)

QUESTIONNAIRE

Effect of different factors in influencing researchers' decisions on the use of a particular species

Possible factors influencing the choice of study species

Limitations imposed by legislation

Public opinion

Opinions of friends and relatives

Project authorisation process

Evaluation by ethics and animal care committees

Resource allocations and funding

Research question

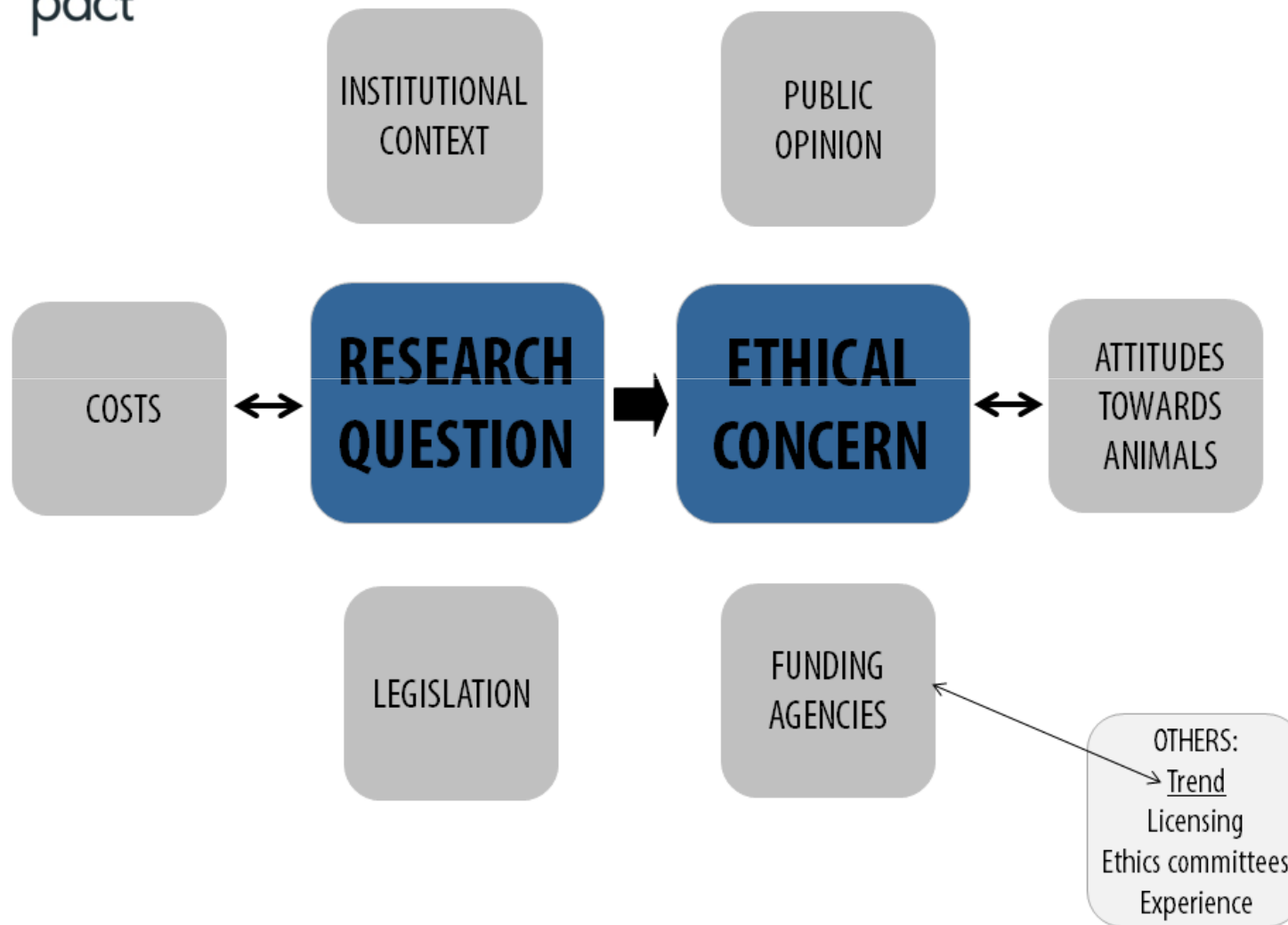
Ethical considerations

Personal attitudes towards animals

Costs

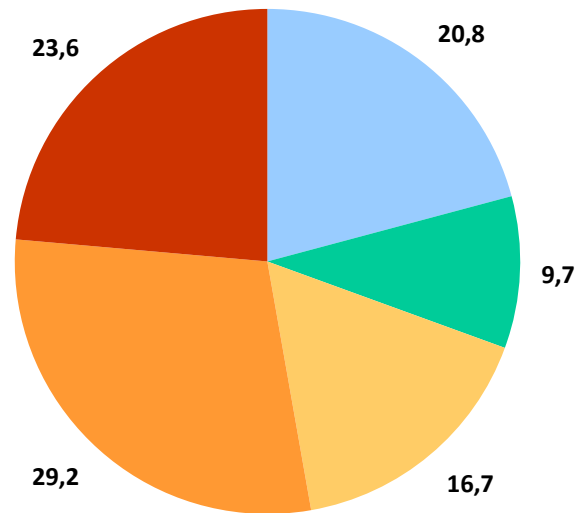
Trends in publishing

Results from interviews to Italian researchers



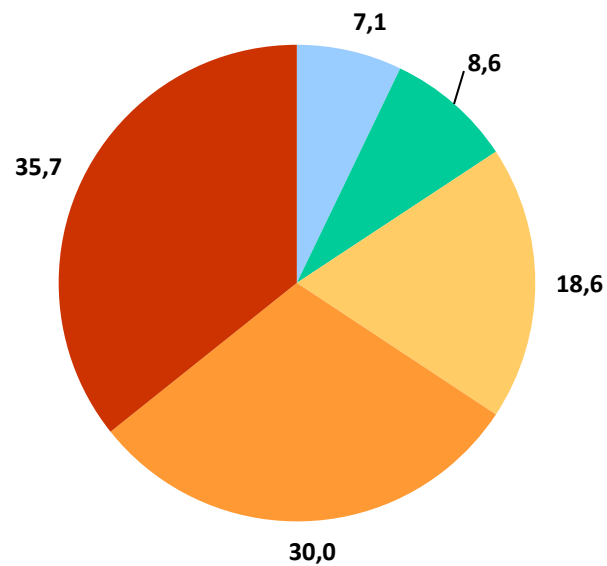
Influence of different factors

Directive

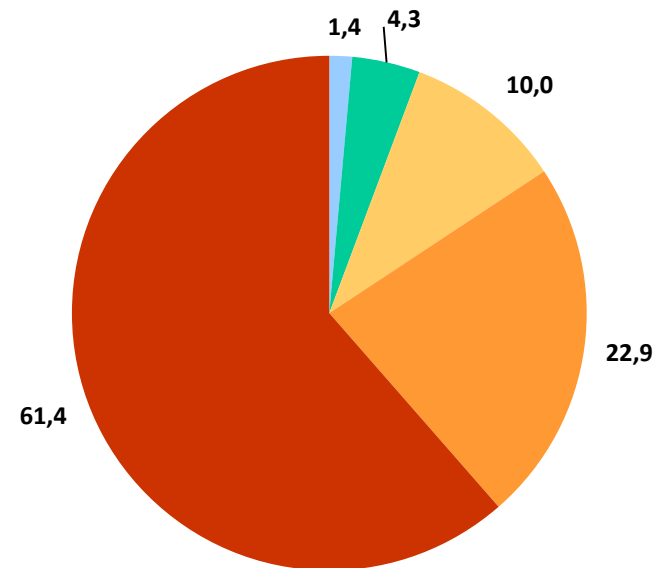


N (503)
Resp. (80)

Not at all Slightly Moderately Very Extremely

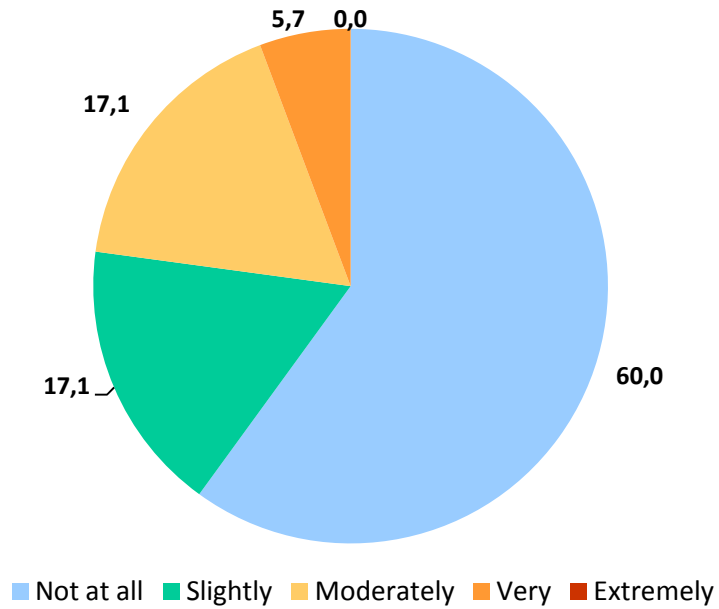


Ethical considerations

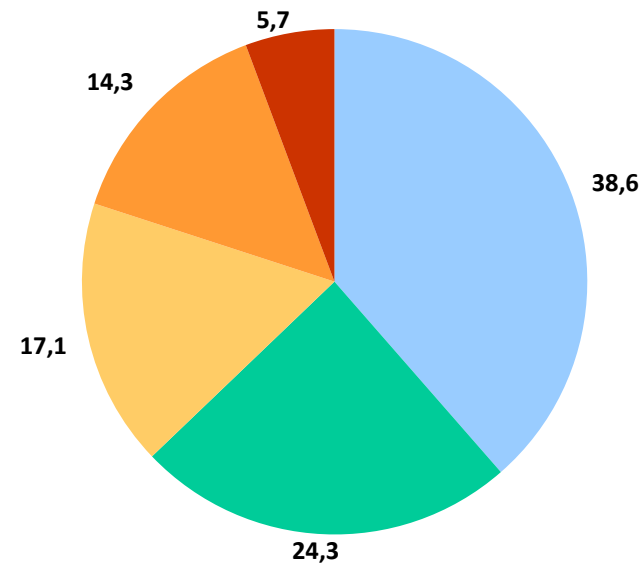


Scientific question

Influence of different factors



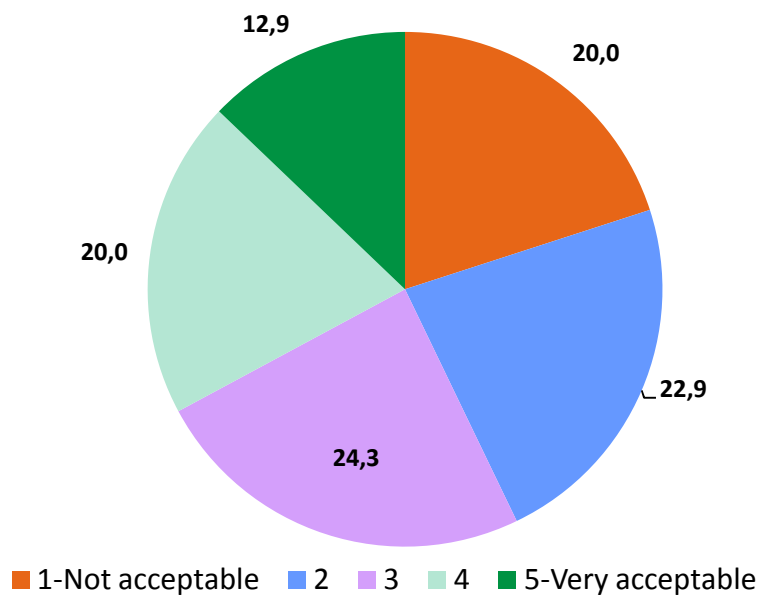
Friends & Relatives



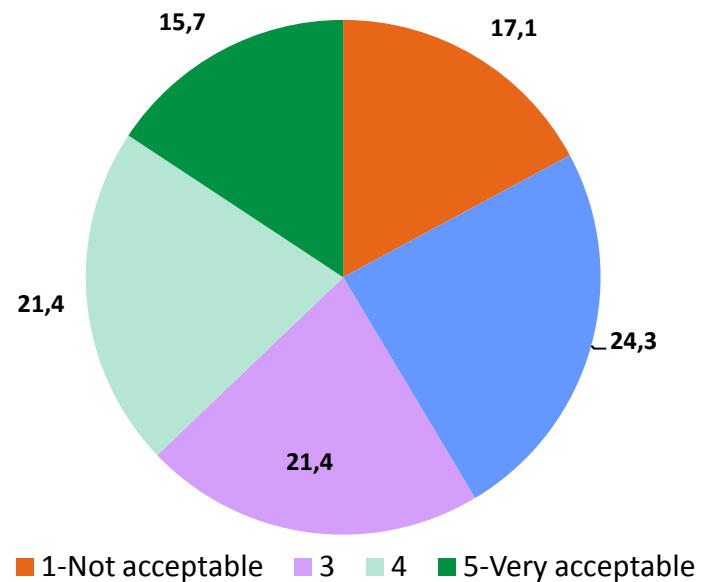
Public opinion

Degree of acceptability of a severe procedure

Rat

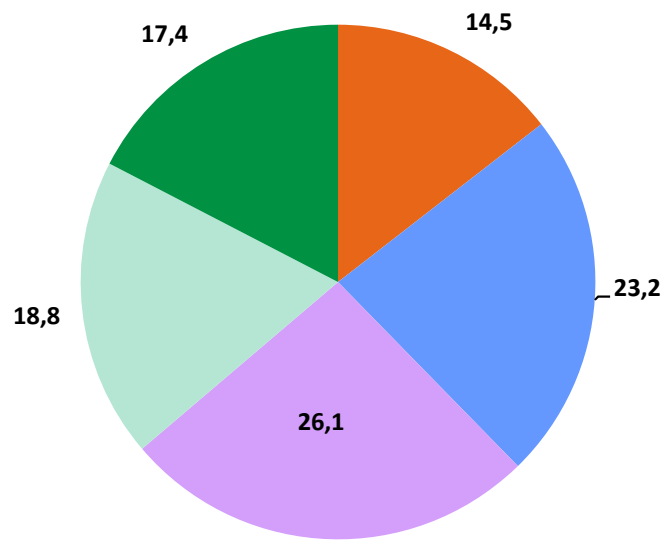


Mouse



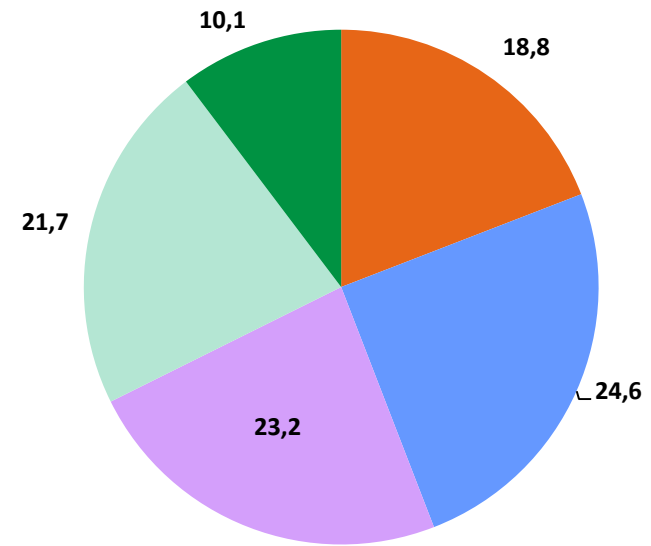
Degree of acceptability of a severe procedure

Fish



1-Not acceptable 2 3 4 5-Very acceptable

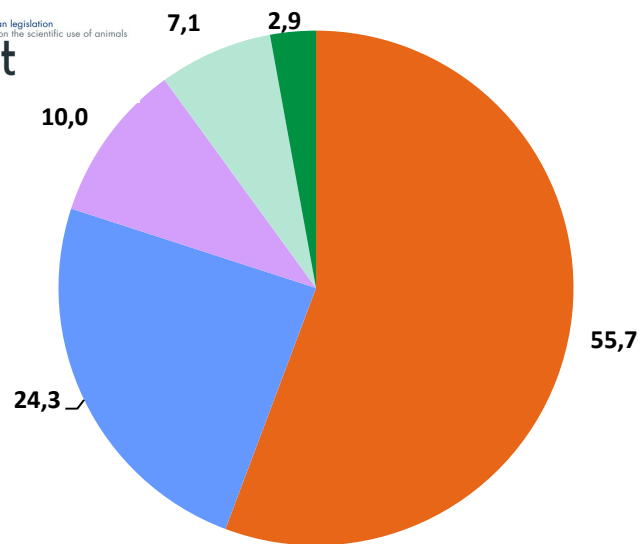
Octopus



1-Not acceptable 2 3 4 5-Very acceptable

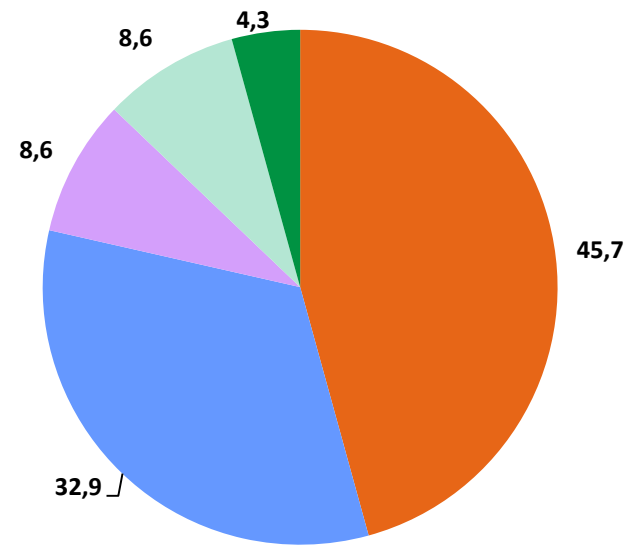
Chimpanzee

anim pact
European legislation
Impact on the scientific use of animals



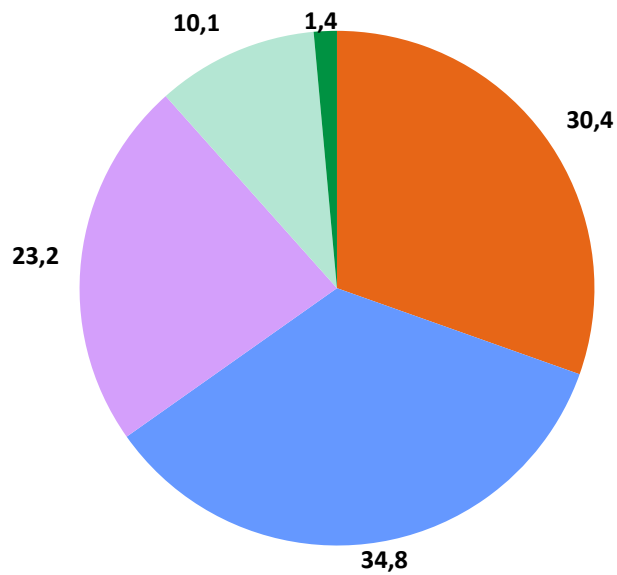
1-Not acceptable 2 3 4 5-Very acceptable

Rhesus monkey

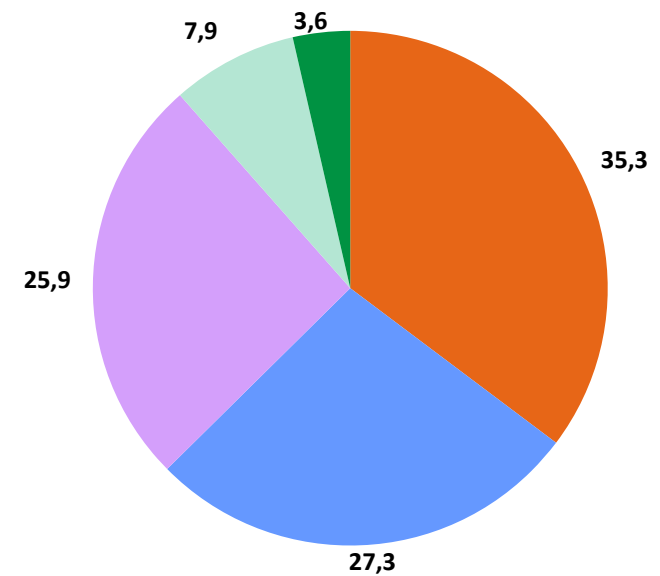


1-Not acceptable 2 3 4 5-Very acceptable

Pig



Dog & Cat



Conclusions

- The correspondence between the scientific question and the model to be used appears to be the most important factor in species choice
- Ethical consideration and concerns follow closely
- Public opinion does not appear to be an important factor
- Why do Non-Human Primates are considered a “special case”?



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