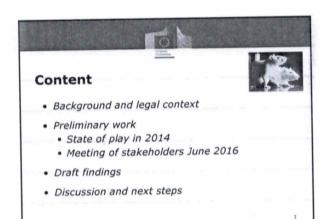
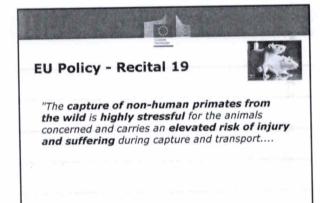
Public consultation meeting

Directive 2010/63/EU Article 10 Feasibility Study

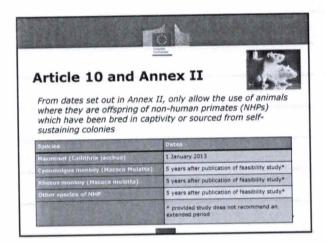
David Anderson davidbanderson911@gmail.com

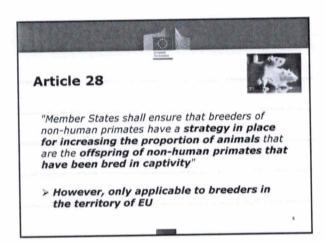
30th March 2017

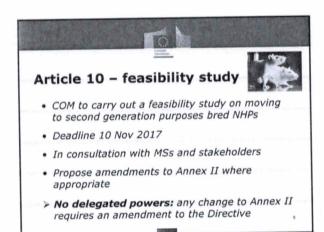




EU Policy - Recital 19	
" In order to end the capturing of animals	
animals that are the offspring of an animal which has been bred in captivity, or that are	
sourced from self-sustaining colonies, should be used in procedures after an appropriate transition period"	
4.	
A REAL PROPERTY OF THE PARTY OF	
Progression	
End use of wild caught animals	
End use of F1s	
1	
Require only use of F2/F2+ generations	
Self-sustaining colonies – use animals only those bred within the colony	
bred within the colony	
No. of the contract of the con	
Evenue de la Authoria	
Exemption in Article 10(3)	
"C	
"Competent authorities may grant exemptions from paragraph 1 on the basis of scientific	
justification."	









Content

- Background and legal context
- · Preliminary work
 - State of play in 2014
 - Meeting of stakeholders June 2016
- Early findings
- Discussion and next steps

Non-Human Primate	(NHP)	Use i	n EU
-------------------	-------	-------	------

	1000	2002	2008	2004	2011	2014 (draft)
Prosimiana	460	10396	677	1201		110
New World	1385 .	1100	1864	V04	700	417
Ond Words	3110	6078	(FRING)	7404	5312	BOAL
Total	7007	10,380	10447	1560	6003	4930

NB - USA use in 2015 - 43,634 NHPs

Origins of NHPs used in EU

	From EU	Office Original	Total	urigins
Mary and		Pronuncary		THE RESIDENCE
The		101	400	97%
Silud	A (25)(1)	0	1035	\$11
2005	677	9	677	486
2008	3203	u .	1001	0%
\$ 911	33:	0	10	0%
201A	140	D	110	0%
PACE NAME OF TAXABLE PACE NAME	AND DESCRIPTION OF	New World Monkeys		THE RESERVE OF THE PERSON NAMED IN
LEGISTON OF	1994 1000	166	1363	470
20012	1004	108	1100	11%
ZEEN	1504	. 00	1504	21-9)
\$00m	101	N. C.	904	0%
2015	6:10	THE STREET	700	7%
2019	#1A	4	419	119
H ROLL		lid World Monkeys	NAME OF TAXABLE PARTY.	THE RESERVE OF THE PERSON
11100	2465	6736	0.189	30%
Service Control	3760	1975	10776	7850
Spride	2016	5/094	3210	73%
gone	4000	77.000	7404	45%
est.	3620	1790	0315	34%
0014	903	90.87	1110	93.4

New Statistical Reporting Comm Implementing Decision (2012/707/EU amended by 2014/11/EU)

- Actual severity
- Genetically Altered Animals
- More detailed purposes
- Species of NHPs
- Source of NHPs
- Generation of NHPs (F0;F1;F2/F2+)
- Annual publication by MS since 2014
- EU report –triennial from 2019

Non Human Primate Use 2014 140 417 Marmoset and tamarins 5,135 348 Cynomolgus monkey Rhesus monkey Vervets Chlorocebus spp. Baboons Squirrel monkey Other species of New World Monkeys (Ceboidea) Other species of Old World Monkeys (Cercopithecoidea) Other species of non-human primates 6,239

Non Human Pri	Newsorked and
	Systems Supplement July
Commenced St. 5/5	Account Species 8 Numerical 1- Management 2- Management 3- Order Annagement 3- Order Annagement 4- Annagement 4- Annagement 5- Annagement 6- Annage
Number of Antonion	Named acciding 2-107% Committee 1-107% Committee 1-107% Committee 2-107% Committee 2-107% Committee 1-107% C

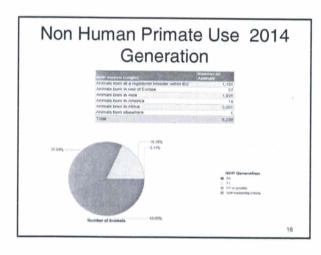
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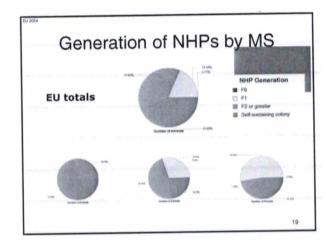
Non		man oy M						201	4
TANCHI THE PARTY OF THE PARTY O	DE C	7 06	13	п	in	п	NI SI	UN	Total user
Microsoph and		, an		- 55		طرستنة			140
granica.		234					77	100	417
Cynomolypes monkey	8	1,475	382	547		643	18	2,382	5.195
Chesas monkey	W	111	2	25	2	5	16	104	34
retvets Chicosebus				14					16
Deligene	Minuser	2	12	149	Alliandin				100
quinel montay		No aming a law	17 11/1	2					
Office apactor of New North Monkeya Colombia)									
Other species of Giz York) Muskeys Corcopethocodes)									
other apropried of this lettrian probabile									
Total year	19	1,907	415	792	2	484	191	2.406	6.219
	794	21%	7%	1386	766	494	484	40%	

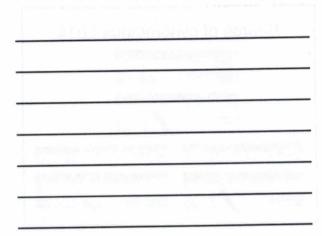
Non Human Primate Use 2014 Origins

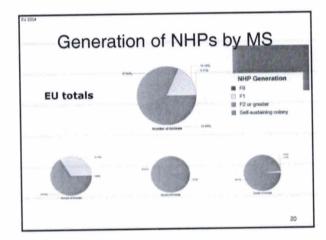
NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	1,151	18.45%
Animals born in rest of Europe	57	0.91%
Animals born in Asia	1.936	31.01%
Animals born in America	14	0.22%
Animals born in Africa	3,081	49.38%
Animals born elsewhere	1	0.02%
Total uses	6,239	100.00%

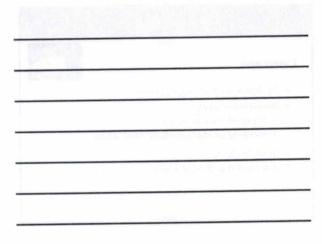
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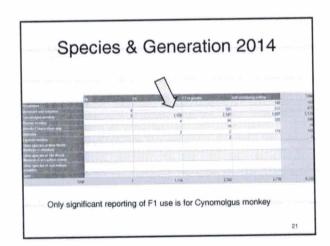


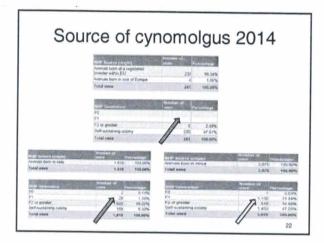






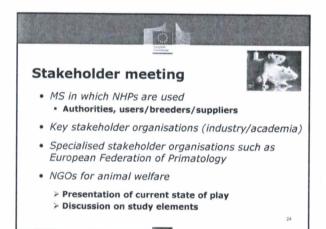








- Background and legal context
- Preliminary work
 - State of play in 2014
 - Meeting of stakeholders June 2016
- Draft findings
- Discussion and next steps



Stakeholder meeting outcome

- > Rhesus, Baboons, Prosimians, Vervets and Squirrel Monkeys already F2 *
- > Concentrate on Cynomolgus
 - · 22% F1
 - 40% F2
 - 37% Self Sustaining Colony (SSC)
- * confirmed as F2 even from SSC

25

Stakeholder meeting outcome Concerns to be addressed

- Demand and supply in EU and from the 3rd countries
- > Costs for F2/F2+
- > Continued need for exemptions
- > Health quality (incl Herpes B virus)
- > Definition of Self-sustaining colony
- > Animal welfare

26

Stakeholder meeting outcome Health quality

- > Health quality
 - Herpes B virus
 - Europe is B virus free
 - · Mauritius is B virus free
 - China
 - Vietnam

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	-				

Herpes B Human zoonotic infection

- > Severe central nervous system disease
 - · permanent neurological dysfunction
 - fatality rate (death) of approximately 80% if not treated
- > Rare but associated with working with NHP
- > Infection e.g. by splash in the eye, bites, scratches
- > Proper personal protective equipment essential

Stakeholder meeting outcome

- > Definition of self-sustaining colony
 - Differing interpretations
 - Could supply from SSC with F0 animals still in breeding colony
 - Follow-up enquiry to MS: 1 not able to obtain generation information without a change to 2012/707/EU
- > Potential Animal Welfare concerns
 - · Poor production of F1
 - · Surplus male animals during transition

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Content

- · Background and legal context
- · Preliminary work
 - Current state of play
 - Meeting of stakeholders
- Draft findings*
- · Discussion and next steps

*Draft findings subject to change as the analysis continues

Survey to users, breeders and suppliers of NHPs



- Invitation to all users, breeders and suppliers of non-human primates (through MS)
- Requested contact details for overseas breeders and suppliers
- Responses from 35 EU users/breeders/suppliers
- Direct contact with overseas breeders/suppliers in Mauritius and Asia

31

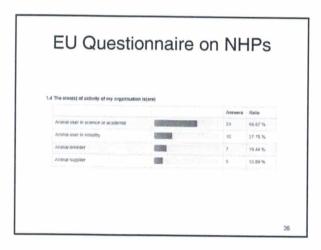
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d	U	WL	lest	IOI I	IIIaiii		111		10

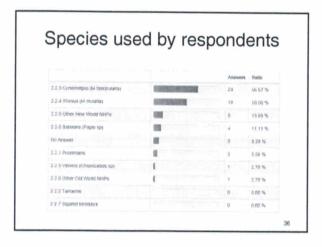
> 36 responses from 8 MS

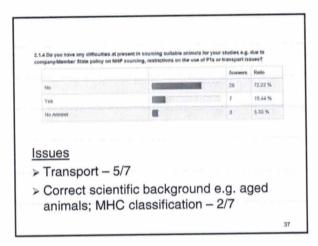
		Answers	Cation
Prince		10	41,67 %
Clermany		7	19.44%
Spain	Market Committee of the	A	11.11%
Pactoerments			8.35%
United Kingdom			833%
Belgium			5.55 %
tally			2.78 %
Sweden	1	1	278%

Are	res	ponses	representative?

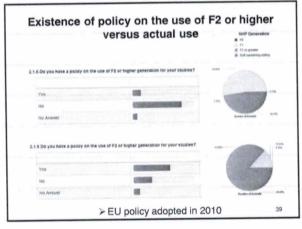
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decrease and		-					20	100	617
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A DESCRIPTION OF THE PARTY OF T		141	7	29	7	9	96	104	346
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Total uses	11	1,897	419	740		120			
	24	21%	.7%	17%	.0%	7%	176	82%)	



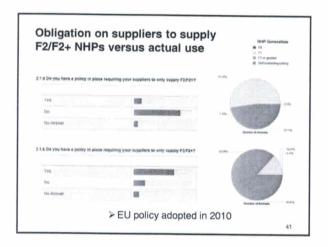




Answers 15	100		e of P2 of higher generation for	to you have a policy on the us
	Ratio	Arrawar		
No.	62.78 %	19	COMMON	
Yes Table 1 14	38.89 %	14	C00000	PS .
No Answer	8.83%			D Answer



Obligation on suppliers to supply F2/F2+ NHPs 2.1.4 Do you have a policy in place requiring your suppliers to only supply F2/F2+7 Answer Ratio 17 47.22 % Yes No Answer Why not? > Shortage of F2s > Not yet legal requirement



Regulatory blocks on transition to F2/F2+ generation 2.1.7 Are there any regulatory demands that ninder the transition to F2/F2+? No. Answer 3 0.52 % Yes 1 2.73 % Single reason for yes - "non-availability of animals"

Checks by users on suppliers

- > 90+% of users have checks in place
- > Methods include
 - Individual health / production records
 - Colony health screening reports
 - Information from suppliers on accommodation and care practices
 - Audits by establishments
 - International Accreditation (AAALAC)

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Progress towards F2/F2+ use for individual species Summary of key issues raised by users

- > Transportation links
- Maintenance of sufficient gene pool / genetic diversity
- Retain possibility to request exemption to use F1 if no other suitable animal available
- > Health status

44

Responses from Overseas Suppliers Cynomolgus

- Direct responses from 2 Mauritian and 1
 Asian supplier
- Information on further 6 Asian centres through EU Supplier

Overseas breeders Cynomolgus

Supplied t	o (L)	As a second		Yotal cat		the Theory	
FO	F1	P2/4	T	FO	P1	F2/+	
	1519	2841	4359	28	3763	7835 by current EU suppliers	
						Combined rapacity: 18591 by all suppliers from where data received	

F2 capacity by current EU suppliers significantly exceeds current use

46

Overseas breeding centres

- > Difficult to match supply and demand
- > EU only part of global market
 - In 2015, USA used 32,962 NHPs; USA imported 22,300 NHPs (90% Cynomolgus; 7% Rhesus)
- > EU alone in legislating for F2
- > Ethical issues re use of wild-caught in Mauritius

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Overseas breeding centres (3 responses)

- > Breeding strategy to increase F2 animals
 - 1 response already only supply F2/F2+
 - 2 responses
 - F1 parents poorer reproductive performance and shorter breeding life than F0 generation
 - Surplus of F1 males during accelerated transition to F2 supply
 - · Important to maintain genetic diversity

Overseas breeding centres Reproductive performance of F1 vs F0

- > 2/3 reduced numbers of births; higher pre-weaning MR; shortened breeding life
- > 2/3 health issues obesity; diabetes versus
- > 1/3 improved reproductive performance and health (vs F0)
 - Considered due to improved nutrition/care practices in captive-bred colonies

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Feedback from EU NHP Breeders Reproductive performance of F1 parents

- No differences noted between generations, but no comparison with F0 performance
- Good management practices deliver good results with naive breeding animals
 - Extended weaning to encourage natal skills
 - · Mixed age breeding groups

50

Surplus F1 Males

- Highlighted as a potential problem during transition
- In practice, this has been managed without unnecessary culling to date

E+

Animal Health

- > Suitable health background necessary for good science
- Herpes B virus is zoonotic pathogen risk to staff has to be managed
- Risks successfully managed by users in 7 MS who obtain Cynomolgus from Asian suppliers

52

Cost of Cynomolgus F1 vs F2

- No significant price differences between F1 and F2 confirmed (concern raised at Commission Impact Assessment in 2007)
- One quoted the same price today for F2 as was stated in the Commission Impact Assessment – 10 years ago

53

Availability of F2 animals

- > Prosimians, Baboons, Vervets, Rhesus
- > Good availability of F2/F2+ animals
- > Special requirements re age; disease
- > Health requirements

	onsider that there will be sufficient suitable	F2/F2+ Cynemolgus	M) a
ascicularis) to meet your need	97,2,	Answers	Fissio
Earlier than 2022			37.50 W
2022		6	25 00 %
2025		9	8.53 %
2020		6	20.65 1

Russ of and many or and and the first
(Name to Committy there have not been being

Date by which F2 Cynomolgus available

- Users of 7/8 MS confirm feasibility of Annex II timelines – without negative impact on research
- > Users of 1/8 MS
 - Those using >50% of animals in that MS confirm feasibility by 2022
 - The rest (in that MS) state additional years needed

00

1 MS - User responses: Inter than 2022 "Toon't know." Inter than 2022 "we corrishow the breeders capability to supply our need if only 22 is required." by 2028 "According to discussion with supplier." This would be needed to the suppliers to increase their stock and organize their work." Tall 1 arimosa are used in research therefore not available for breeding. Accelerated switch would have inspressionness consequences for breeders. by 2028 "Mostly due to breeding capacity and current population of F1 animals analable for breeding. 1006 #29/E9 animals are evaluable, with an appropriate genetic diversity among this population." (the same response by two different issers) 7 a sufficient number of annial might not be available before. 2026 by number of discrement testing of F1 females and polential.

All the same a control of the field of the control of the control

Date by which F2 Cynomolgus available EU and Overseas supplier responses:

- > All EU breeders already supply only F2
- > 2/3 of overseas breeders confirm by 2022 availability
- > 1/3 overseas breeder F2 sufficiency achievable by 2023-2025 (instead of 2022)

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Date by which F2 Cynomolgus available

- Current F2 capacity of EU suppliers today exceeds total EU use
- Total world supply of F2 Cynomolgus exceeds EU needs for F2 (> 2.5 times)
- No significant price differences between F1 and F2 confirmed

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Other elements

- > Legal Service views requested on
 - SSC definition
 - > Use of exemption
- SSC Comm Implementing Decision 2012/707/EU should be changed to require reporting of generation also when from SSC

5		

LSS8

I would say we keep the slide and I can answer. I've reminded LS on our meeting this week have not heard back from them yet.

In any case, since this is a legal question, there's nothing much stakeholders can do. The COM will need to take account of the response and draw conclusions on these basis. No point in speculating what the outcome is. LOUHIMIES Satu Susanna (ENV), 28/03/2017

Summary

- > Rhesus already available as F2
- > Other commonly used species (as per statistics) also available as F2
- Cynomolgus not yet fully available from all currently used suppliers as F2 – however, total supply exceeds demand

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Summary

- > Continued need for exemption on scientific basis
- > Definition of self-sustaining colony to be clarified
- > Reporting to be changed to always include generation

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Next steps

- > Finalise data analysis, further information on additional elements, where appropriate
- Present draft findings to MSs and stakeholders before April
- > Policy decision to be incorporated in Art 58 Review report
- > Review report adoption by 10 November 2017