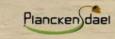




THE EURASIAN BLACK VULTURE AND ITS EEP CHALLENGES IN CAPTIVE BREEDING AND REINTRODUCTIONS



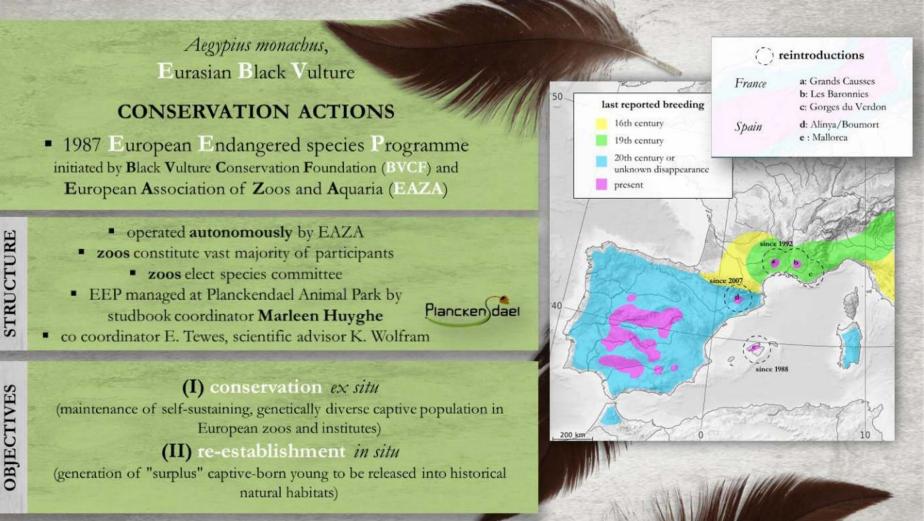
MARLEEN HUYGHE Katja Wolfram











STRUCTURE



present situation EEP **EEP:** THE CHALLENGE OF **EBV** CAPTIVE BREEDING

ETAT DES POPULATIONS POUR LES

ROIS ESPECES DE VAUTOURS DE LA REGION DES GRANDS CAUSSES

BREEDING BIOLOGY

long lifespan, monogamous(?) late sexual maturity long reproductive cycles profound bi-parental investment

> in situ wild-born wild

HATCHING SUCCESS 79% (Skartsi et al., 2008) 152 eggs, 1994-2005, Greece 90% (Hiraldo, 1983) 103 eggs, 1973-1977, secluded Spain

BREEDING SUCCESS 69% (Skartsi et al., 2008) 193 eggs, 1994-2005, Greece 75% (Moran-Lopez et al., 2006) 520 eggs, 2000, Spain 90% (Hiraldo, 1983) 103 eggs, 1973-1977, secluded Spain

ex situ wild-born captive & captive-born captive (Wolfram et al., in prep.) 1980 - 2012, 503 eggs, 72 breeding males, 77 breeding females, 86 breeding pairs HATCHING SUCCESS 32.4% BREEDING SUCCESS 21.7% (> 30 d) reintroduced wild-born wild & captive-born wild HATCHING SUCCESS 67% (LPO, 2010/11)

153 eggs, 1996-2010, Grands Causses BREEDING SUCCESS

59% (LPO, 2010/11) 153 eggs, 1996-2010, Grands Causses



Bilan 2010

Reintroduction and conservation of Vultures in the Verdon canvor



Wolfram

















recommendations for NEW PAIRS (2012)

follow-up pair bonding BEHAVIOR

recommendation for suspension REINTRODUCTIONS

FUTURE ACTIONS

INSTITUTE LEVEL

HUSBANDRY conditions (checklist, questionnaire, personal visits by expert[?])

breeding failure due to DISTURBANCE SPECIAL FOCUS

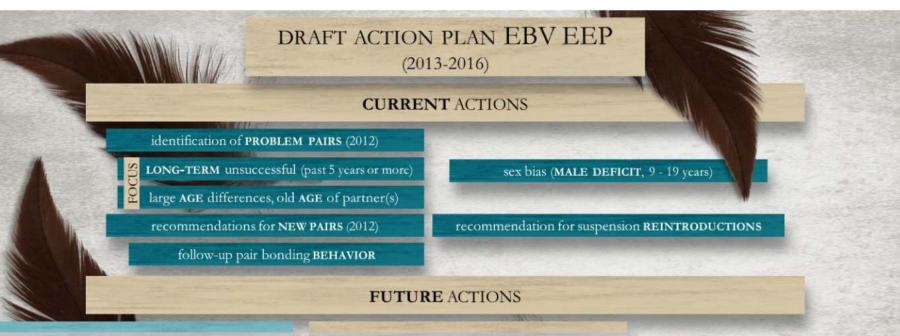
pair BOND quality

participants with scarce COMMUNICATION

suitability of captive NESTS







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EEP LEVEL

improve COMMUNICATION

revision and distribution husbandry GUIDELINES

INTRODUCTION letter for new members

GENETIC sampling and sexing

solve contract issues with NON-EAZA PARTIES







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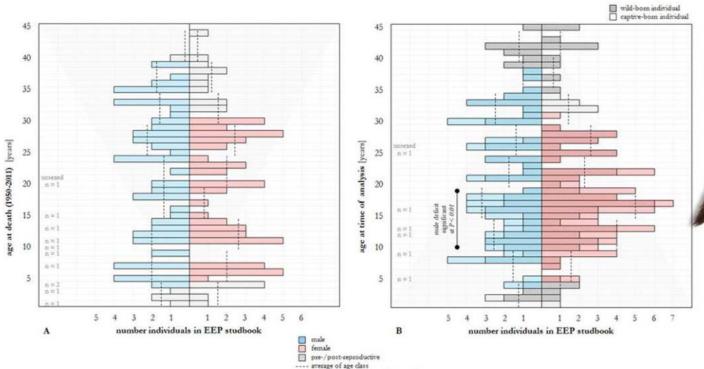
solve contract issues with NON-EAZA PARTIES

improve in situ follow-up of EEP-born **REINTRODUCED** EBVs

improve contacts to revalidation CENTERS, help with IMPORT of males

> examine need/feasibility for **BREEDING CENTERS**





W ideal demography expanding population

Figure 4: Signature of population contraction in the A. mosachus captive population. Reproductive (colored; male: blue, female: rose) and non-reproductive phases (grey) are indicated, as well as number of unsexed individuals. Dashed lines represent average number of individuals per age class of 5 years in either sex. Grey background indicates distribution pattern expected for an expanding population, deviation from which argues for population decline.

K. Wolfram

A: Longevity in the EEP studbook population in the period of 1950-2011 (total records analyzed: males n = 70, females n = 72, unknown sex n = 11), high early chick mortality within the first 30 days excluded.

B: Composition of the living EEP studbook population at time of analysis (males n = 84, females n = 100, unknown sex n = 6) depicted as conventional age pyramid. Patterned bars represent wildcaught (male n = 61, female n = 74), blank bars represent captive-born individuals. For age classes 10 to 14 years and 15 to 19 years a significant male deficit is evident.





K. Wolfran

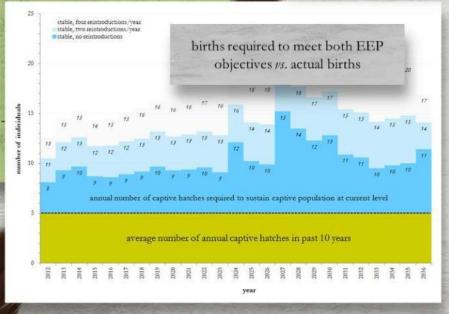
present situation EEP: THE CHALLENGE OF EBV CAPTIVE BREEDING

Aegypius monachus captive breeding

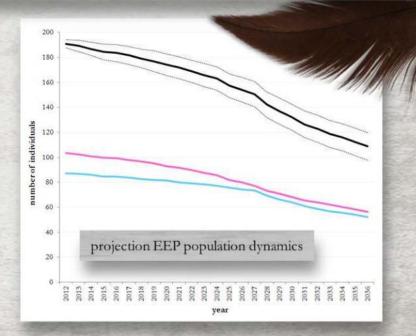
ex situ wild-born captive & captive-born captive captive-born young **required** to sustain captive population at current size over the next 25 years **exceeds** number of actually **produced** young

situation worsens by giving young for release!

reintroductions from EEP to be **suspended** until demographic trends stabilized



RECOMMENDATION





HOW CAN ALL SIDES SUPPORT EACH OTHER

EBV EEP

provide CAPTIVE-BORN YOUNG for releases

in general: all young following **3RD OFFSPRING** of a pair could be **RELEASE CANDIDATES**

possible additional release candidates before 4th young: to be decided on INDIVIDUAL BASIS for each breeding pair/young each year GREFA

provide older ADULT MALES for EEP captive breeding

LPO

improve COMMUNICATION on captive-born released birds Provide samples of released birds for EEP scientific work

... and exchange of EXPERTISE

