North African Biosphere Reserves



A first regional assessment of their management effectiveness

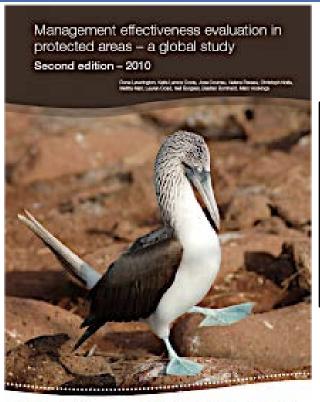
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Biosphere reserve management evaluations are missing and infrequent in North Africa





7 socio-economic assessments conducted only <u>once</u> (GoBi study)

9 Periodic reviews











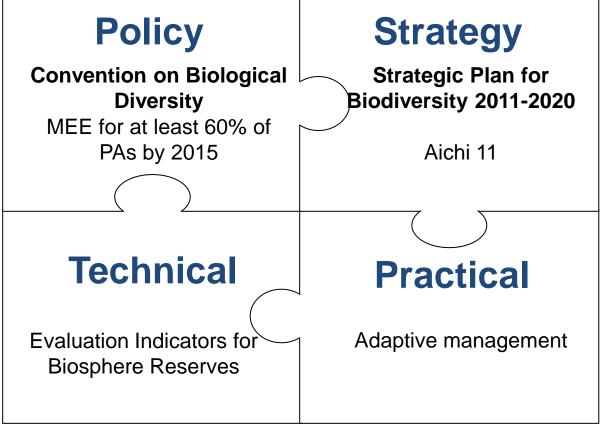








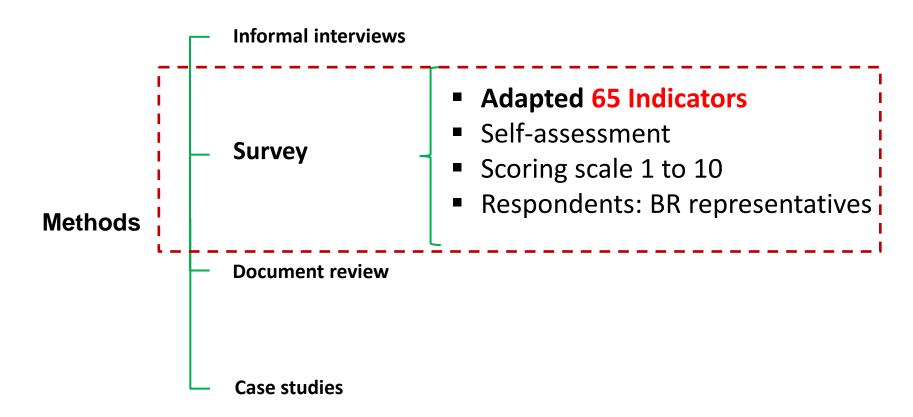
Research contributes to conservation in North Africa at four levels







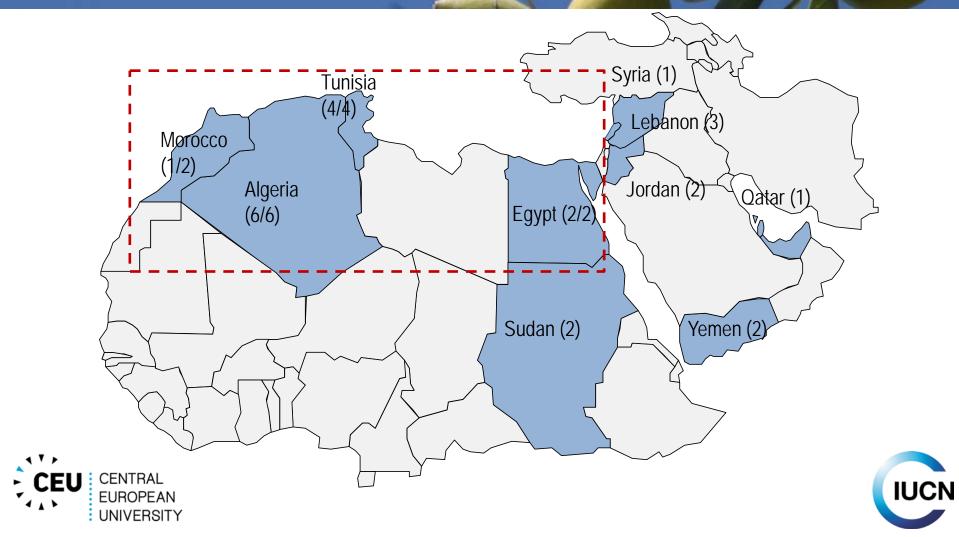
Method includes a survey using an innovative tool of 65 indicators



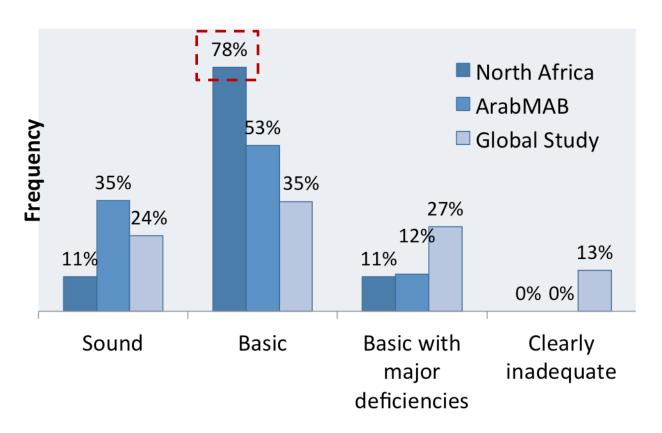




13 of 14 Biosphere Reserves participated



The large majority of BRs score in the **BASIC** management effectiveness category



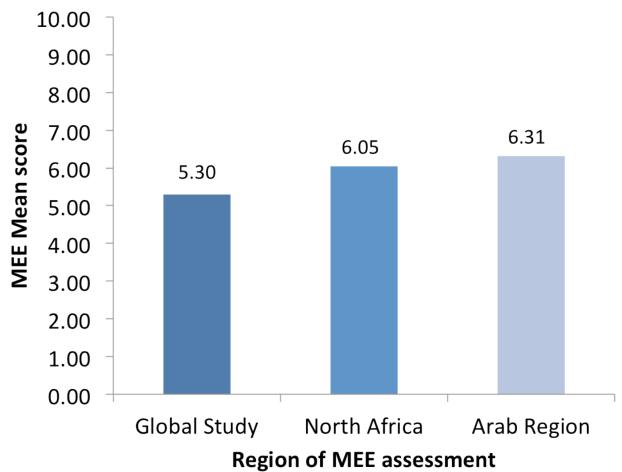




Source: Leverington et al. 2010



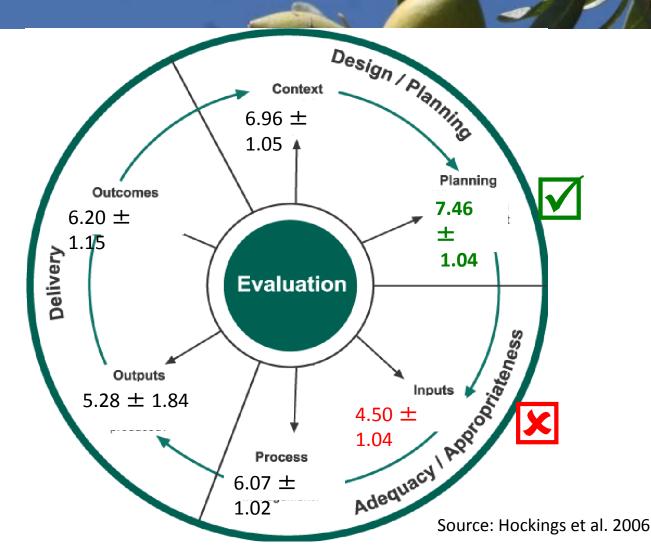
"North Africa scored higher than Global Study PAs and lower than Arab Biosphere Reserves"







Planning is the strongest of the management aspects, and Inputs the weakest



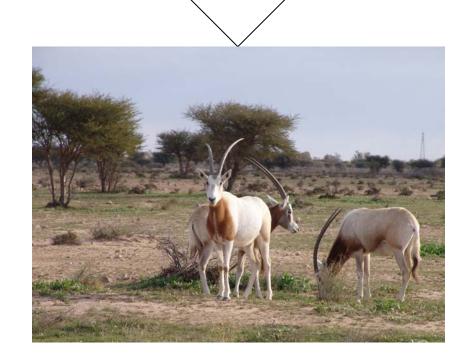




Output indicators were most closely linked to the outcome "conservation of values"

"Achievement of set work program" (R= 0.914, p<0.01)

"Results and outputs produced" (R=0.723, p<0.05)







What's next?

CASE-STUDIES

"Ground-truth" quantitative results

Provide context-specific understanding and analysis

REGIONAL RECOMMENDATIONS





North African Biosphere Reserves How can their management be improved?

VALUE WHY IS THE RESEARCH IMPORTANT? WHAT WILL THE RESEARCH CONTRIBUTE TO? erget 11, and Convention on Biological Diversity

SUMMARY OF RESULTS

- No significant difference between perception and implementation of biosphere reserves priorities for all 5 functions (N=9, WVcoxon signed
- Large majority (59%) of biosphere reserves have a <u>Basic</u> management, effectiveness standard, compared to 53% for all Arab biosphere reserves.
- ment, lower than the Arab region 35% and global 24% rates.
- Output indicators are most closely linked to the "conservation of values" outcome, indicated by the strangest positive Pearson's Consistent: Indicator 1: "Achievement of set work program" (Pr 0, 916, pr 0, 01) Indicator 2: "Results and outputs produced" (Pr 0, 723, pr 0, 05)
- Planning is the strongest of the management aspects and inputs is the

- - ment in North Africa: quate resources: steff, infrastructure, equipment

 - staff empowerent to enforce policies and laws
 community and stakeholder involvement in decision-making
 sustainable financing mechanisms

- Further field research is needed to validate and better understand survey results, and support the development of specific recommendations

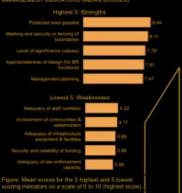
RESULTS MANAGEMENT EVALUATION RESULTS BY STANDARD CATEGORIES

- Sound (>6.66)n managed relatively wet
- Basic with major deficiencies (3.33-5.00) =
- Clearly inadequate (<3.33) a seriously

BIOSPHERE RESERVES FUNCTIONS (PRIORITY RANKING SCORES)



MANAGEMENT INDICATORS (MEAN SCORES)



RESULTS

Join me at the poster booth for more information and for sharing your ideas!

THANK YOU!

Contact: matar.adiane@gmail.com





METHODS

otal response rate: 13/14 Biosphere Reserves 2 are also nationally designated Protected Areas

dentify factors most linked to manageme

Orêne survey collecting quantitative and qualitative

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