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Natural History Collections of the 21st century

small mammals heritage and potentialities for integrative approaches

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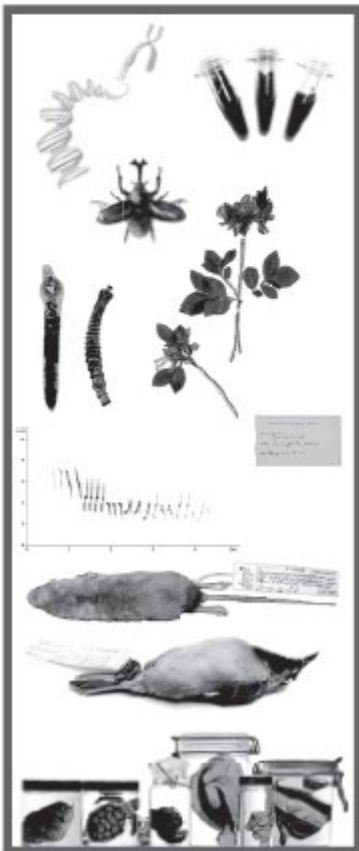
Natural History Collections..



Natural History Collections of the 21st century



MUSEUMS & ARCHIVES



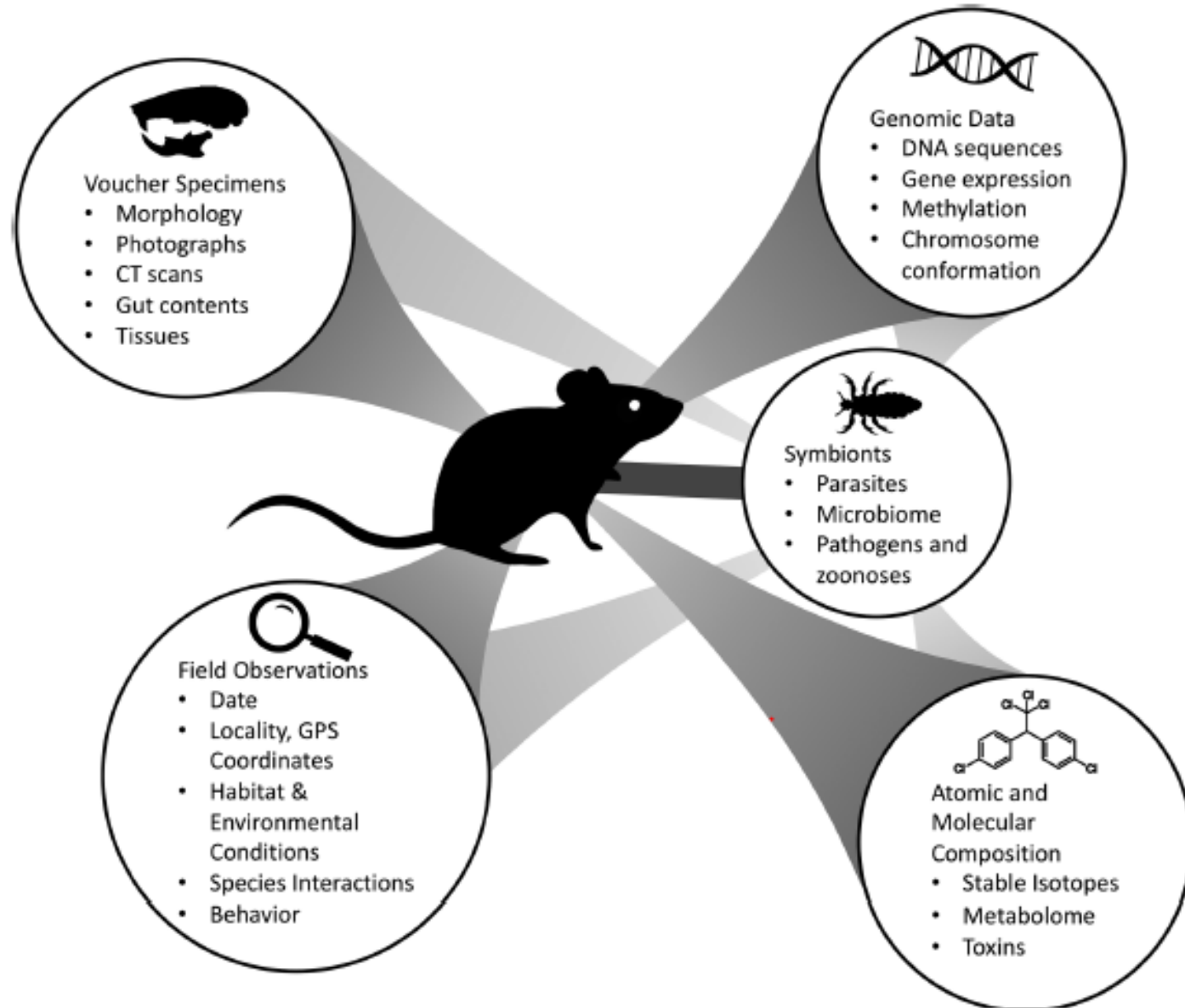
PUBLIC DATABASES & DIGITAL REPOSITORIES



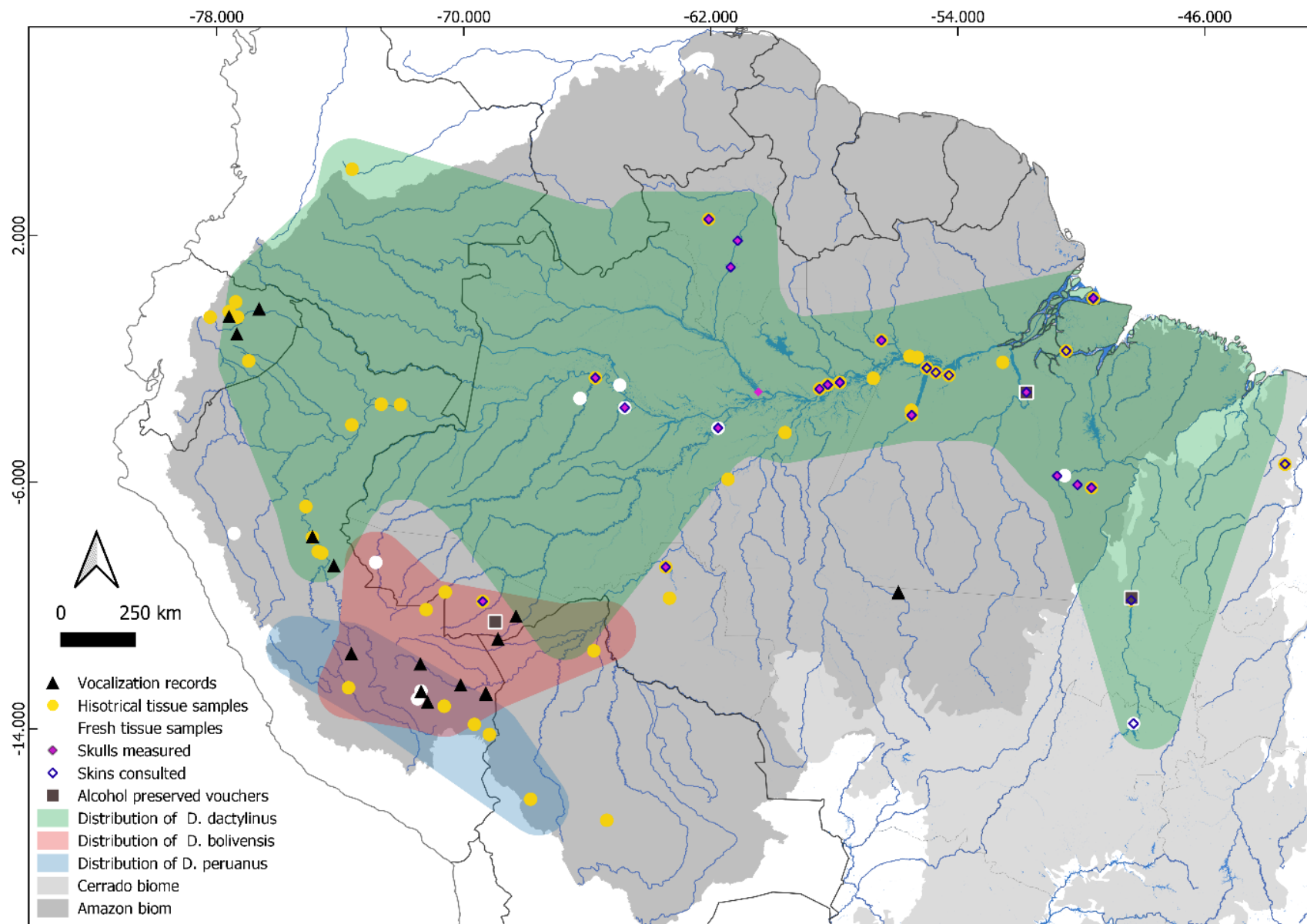
LIVING COLLECTIONS



Natural History Collections of the 21st century



N-C of the 21st century: integrative approaches



Dactylomys sp. - BioFaces

Bissoli-Silva et al. unpublished

N-C of the 21st century: integrative approaches



Dactylomys sp. - BioFaces

NHC of the 21st century: small mammals heritage



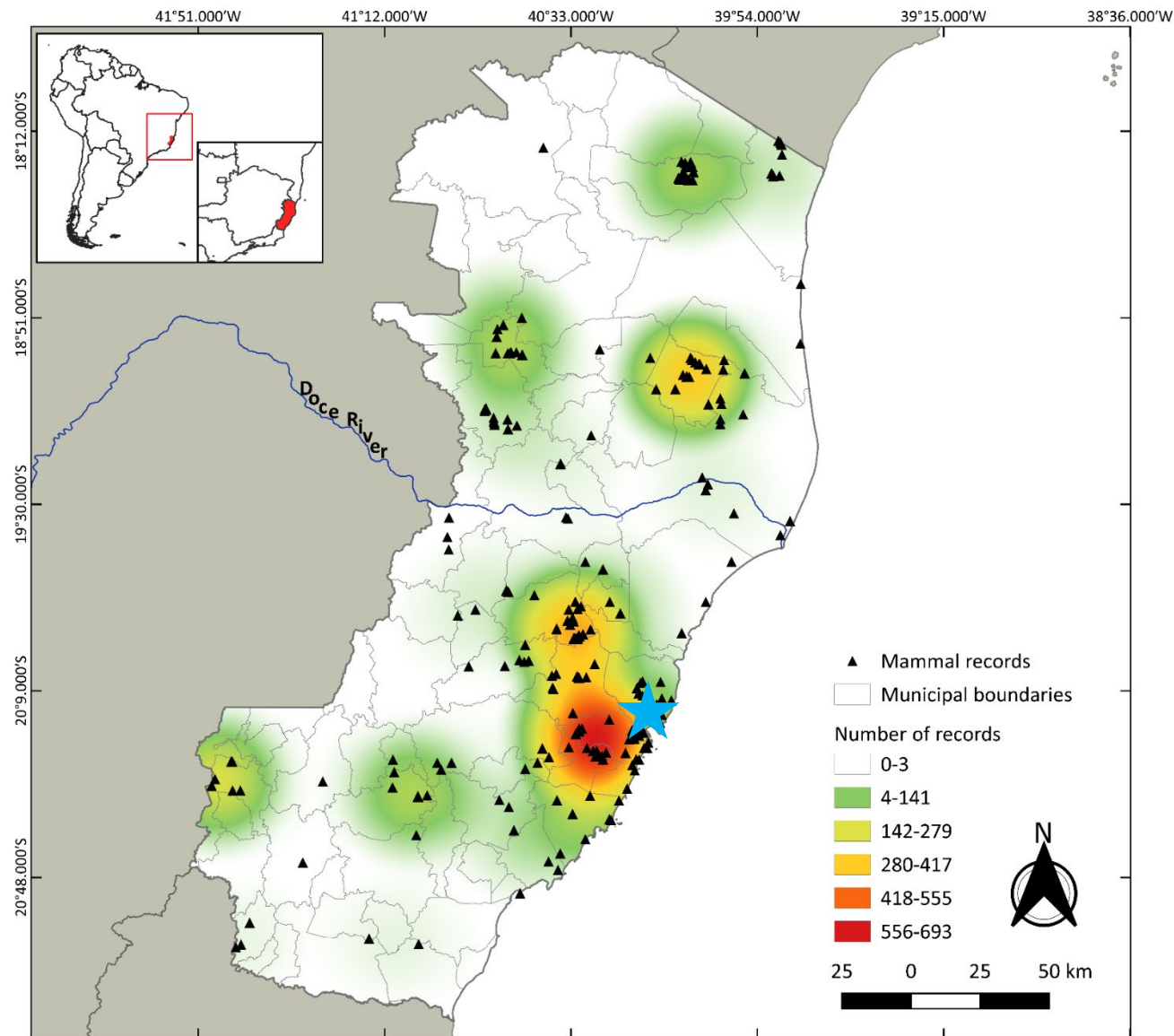
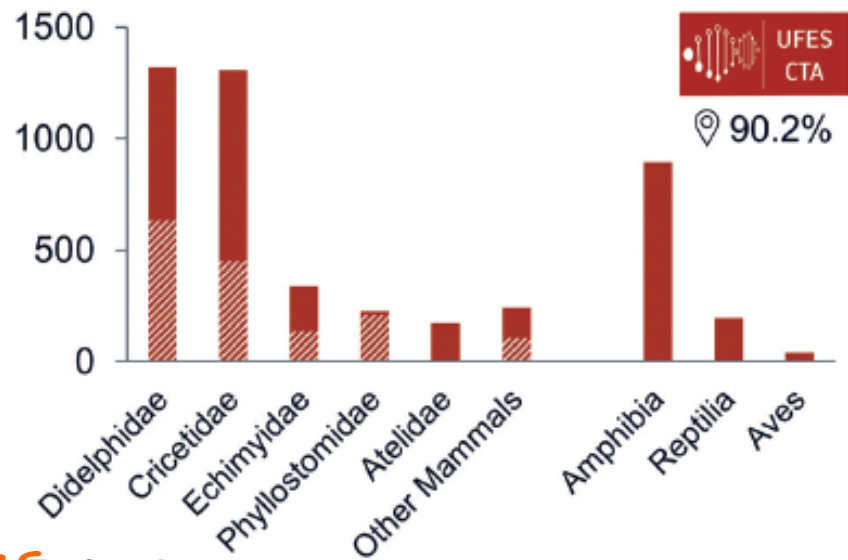
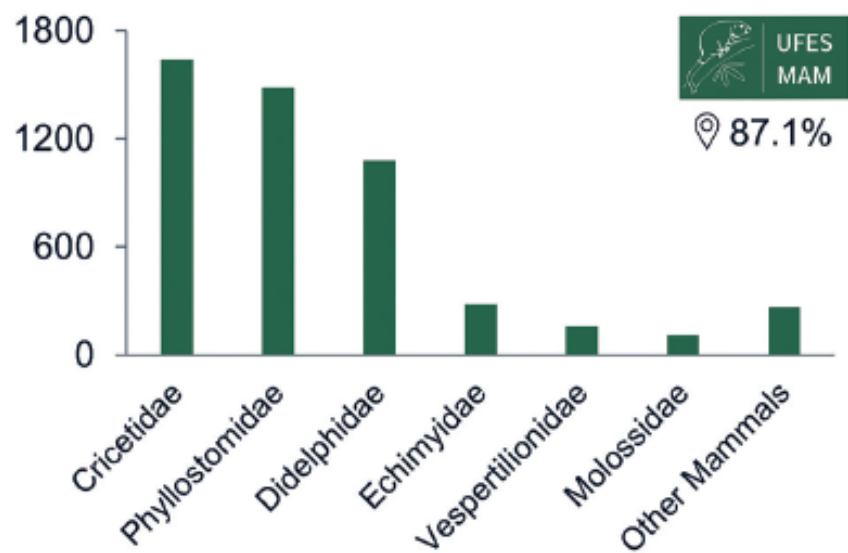
Brazilian Journal of Mammalogy, 2021; n.e.90: e90202134
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On the relevance of regional collections: a perspective from a recent mammal collection in the heart of the Atlantic Forest hotspot in Brazil

Heitor Bissoli-Silva^{1,3,*}, Edú Baptista Guerra^{2,3}, Thamila Barcellos Lemes³, Mattheus Torrezani Silveira³,
Monique Pereira do Nascimento³, Yuri Luiz Reis Leite³, Leonora Pires Costa³



NHC of the 21st century: small mammals heritage



NHC of the 21st century: small mammals heritage

In 20 years..

> 5000 specimens

149 species

42 new species

added to the mammal's list of the state

25/31 species

listed in out-of-state collections, now available in locus collections

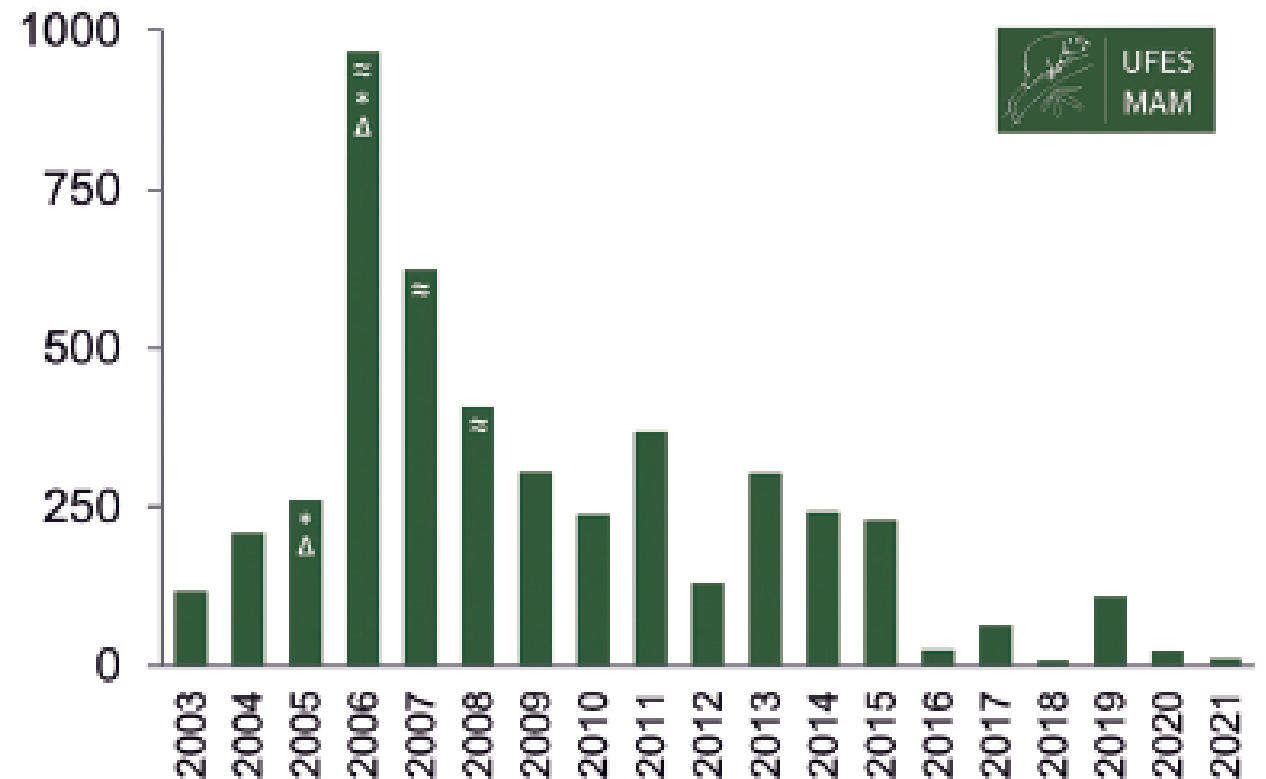


Figure 4: Number of specimens collected per year since the establishment of the Mammal Collection at the Federal University of Espírito Santo (UFES-MAM). Symbols indicate research projects aimed at field-work surveying; Mammals of Pontões Capixabas National Park (Δ), Small mammals of Caparaó National Park (*) and Non-volant tetrapods from Reserva Biológica de Duas Bocas (≈).

NHC of the 21st century: small mammals heritage potentialities

In 20 years..

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42 new species

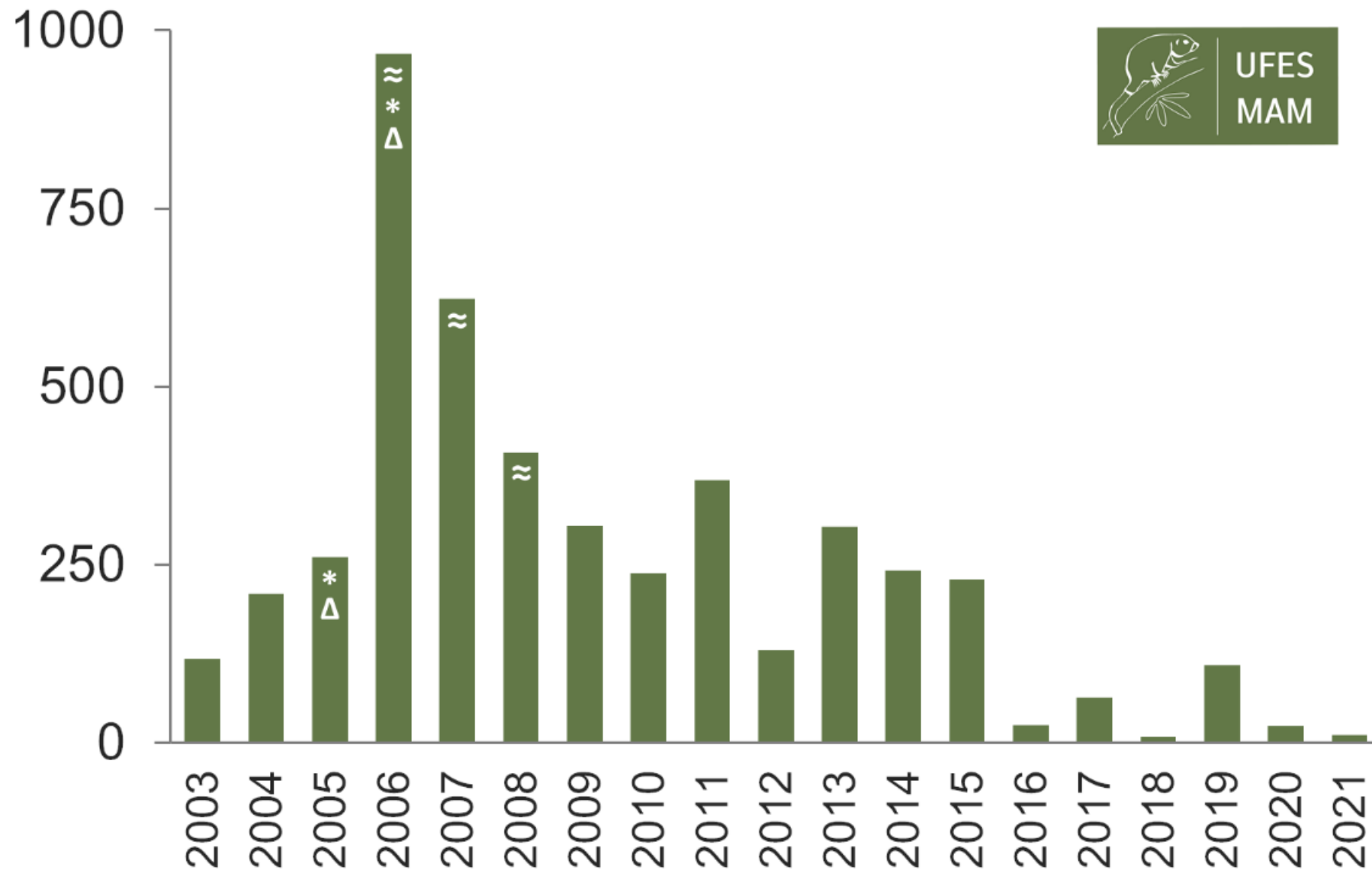
added to the mammal's list of the state

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Formation of professionals,
students, publications,
scientific dissemination and
collaboration between
institutions

NHC of the 21st century: small mammals heritage



NHC of the 21st century: mammals collections in Brazil



Brazilian Journal of Mammalogy, 2021; n.e.90: e90202105

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Mammal collections in Brazil: overview and database

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Thiago Borges Fernandes Semedo^{1,6}, Anna Ludmilla da Costa-Pinto^{1,7}, Diego Astúa^{1,8},
Alexandra Maria Ramos Bezerra^{1,9}, Claudia Regina Silva^{1,10}, Edú Baptista Guerra^{1,11}, Pablo Rodrigues Gonçalves^{1,12},
Sérgio Luiz Althoff^{1,13}, Tatiane Campos Trigo^{1,14}, Alexandre Reis Percequillo^{1,15*}**

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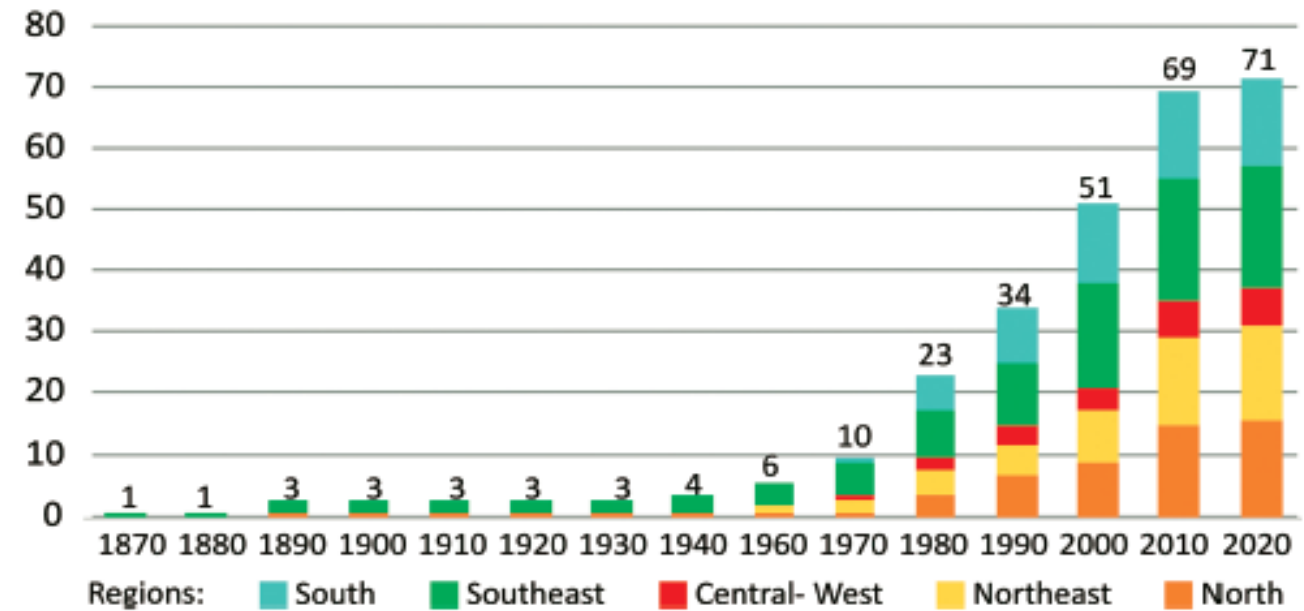
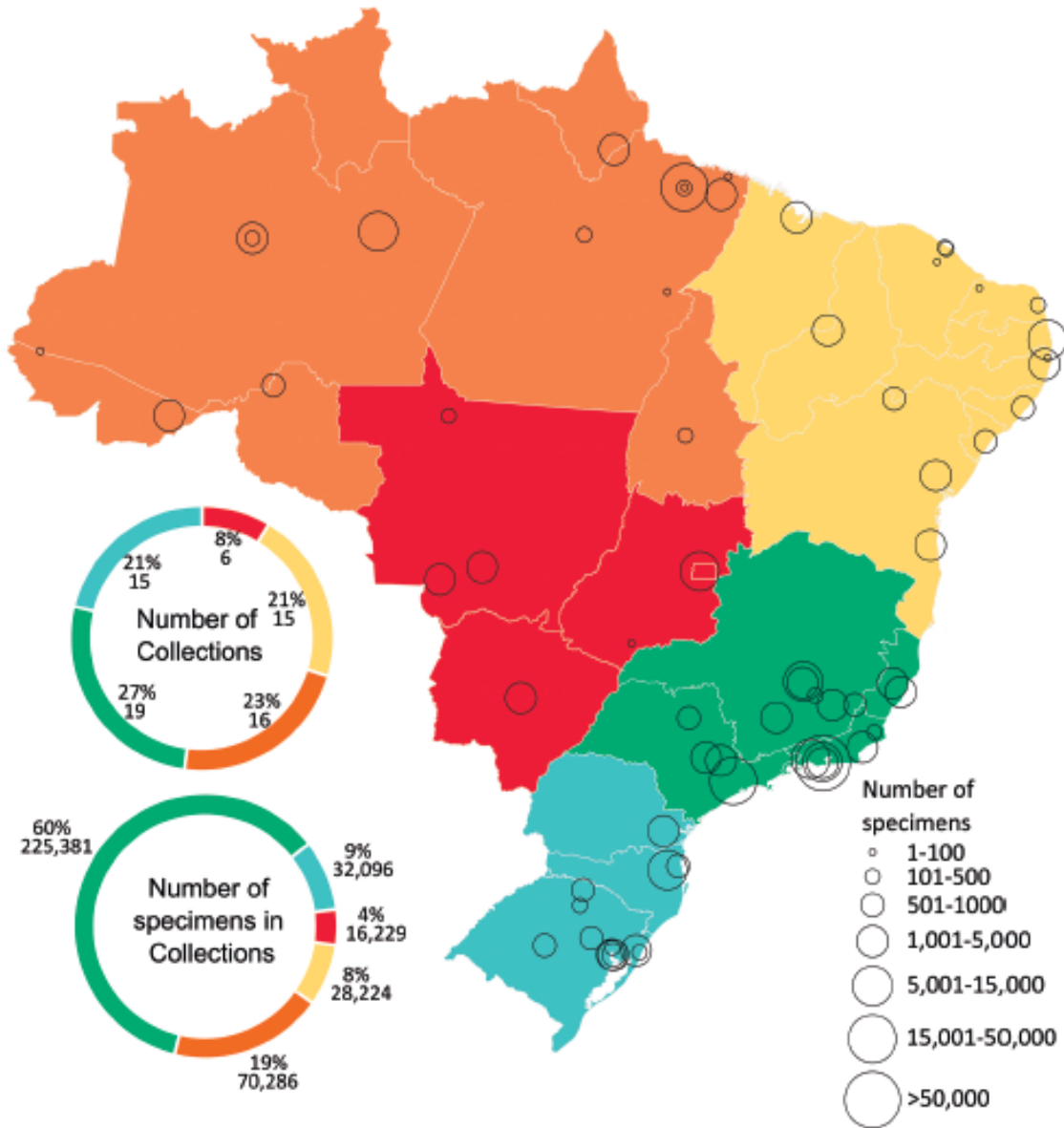
¹⁴ Setor de Mastozoologia, Museu de Ciências Naturais do Rio Grande do Sul, Secretaria de Meio Ambiente e Infraestrutura (SEMA-RS), Porto Alegre, RS, Brazil.

¹⁵ Escola Superior de Agricultura "Luiz de Queiroz", Universidade de São Paulo (ESALQ/USP), Piracicaba, SP, Brazil.

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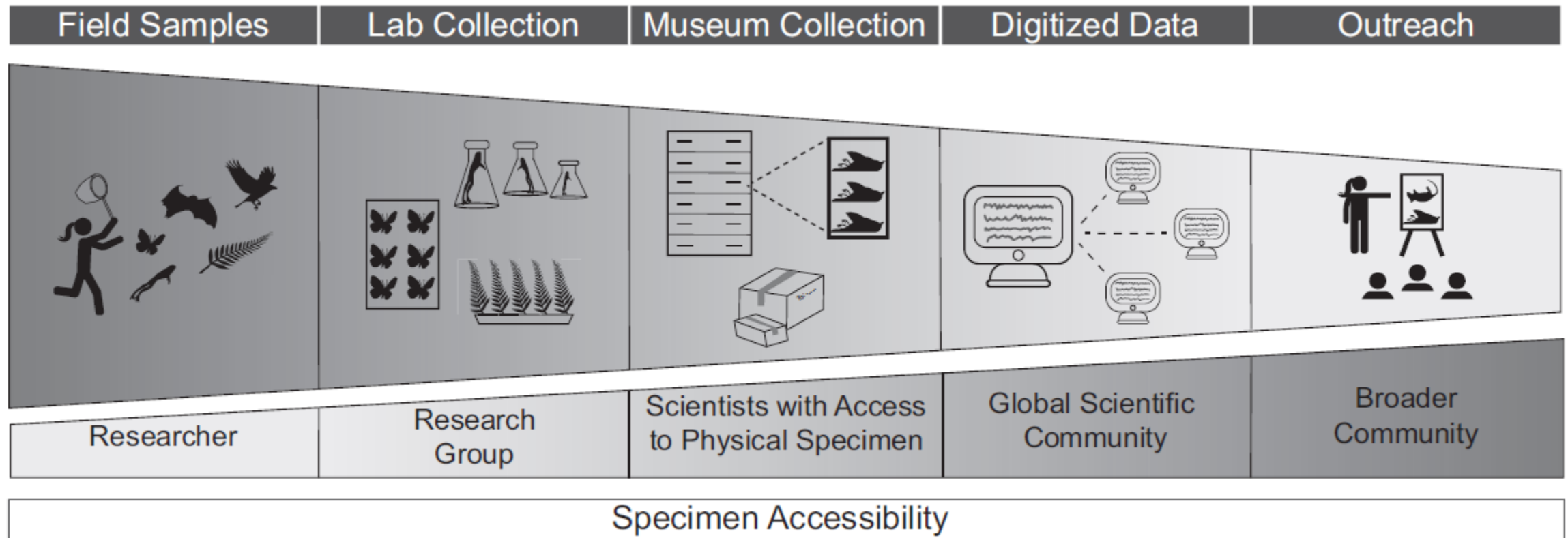


NHC of the 21st century: mammals collections in Brazil



NHC of the 21st century: mammals collections in Brazil

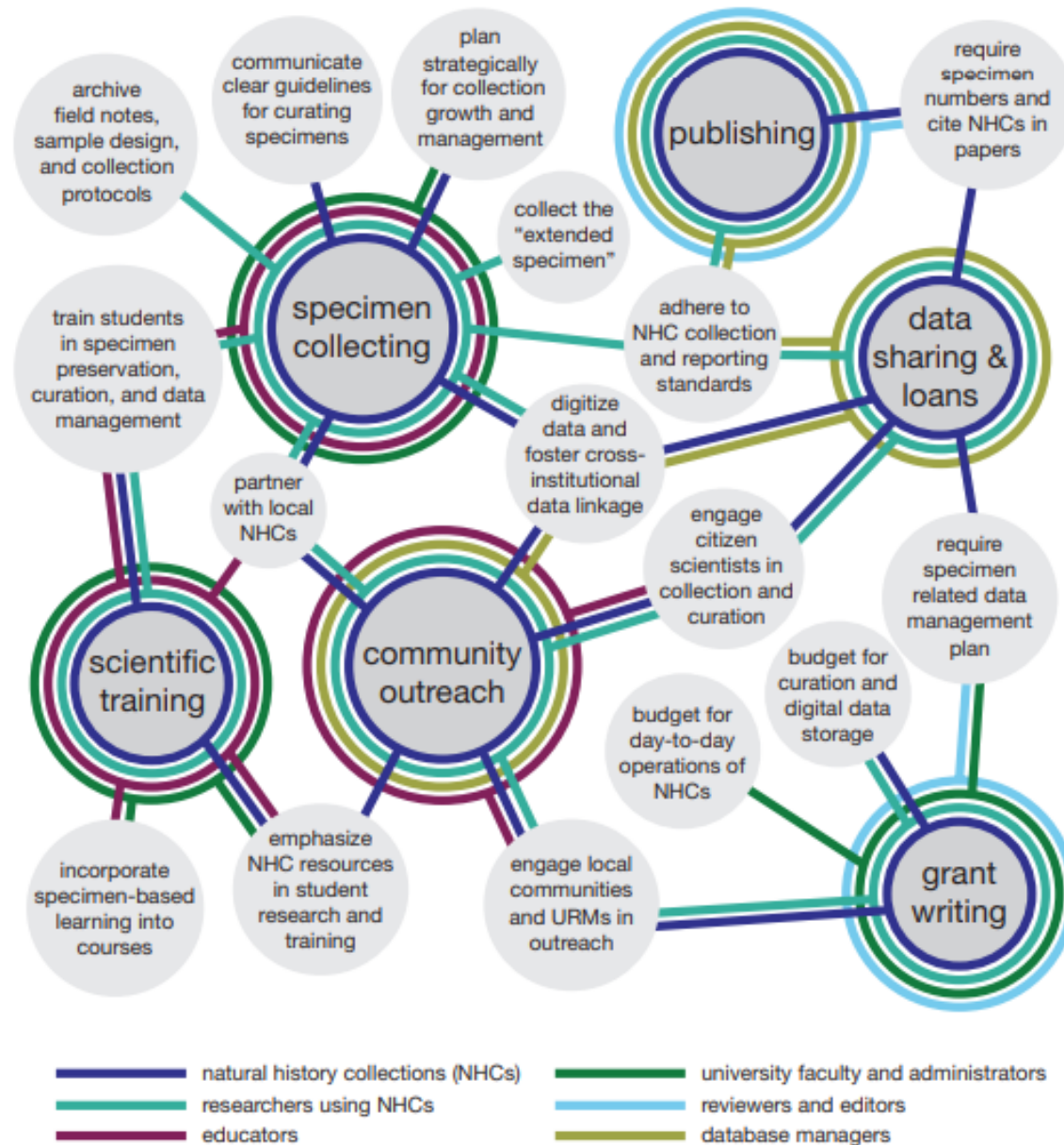
challenges: accessibility – collaborations and protective legislation on biodiversity (SisGen)



NHC of the 21st century: mammals collections in Brazil challenges: maintenance and management



NHC of the 21st century. and beyond..





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Thank you!

Merci !

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