For biologists (including ecologists, systematists and evolutionists), it is often difficult and costly to access primary data of museum specimens from distance, whereas their works partially depend on it. From my point of view, natural history museum could eradicate this barrier by providing the right of data access of the collected specimens through public data archiving.

For example, biodiversity conservation is related to the perfection of identification of the actual species diversity in an area, specially the major portion of the biodiversity is laid on few tropical developing countries (Venter et al. *Nature Communications* 7, 12558; 2016), where the field species identifications might be facing serious challenges for the lack of detailed data of species. Repeating from start to finish spending new samples has become a common trend in the field of systematics [e.g., Howlader et al. *PLoS ONE*, 11(3), e0149597; 2016] for the lack of open access data from published papers and museums. But there is no inherent advantage for natural history museums by making secret of their data resources which might not benefit the conservation.
In recent days, many journals insist on authors to provide open access to primary data included in publications which has been debated by many biologists [see Mills et al. *Trends in Ecology & Evolution*, 30(10), 581–589; 2015]. In this regard, natural history museum could encourage collectors, curators, and depositors to provide with specimens’ data before the permanent preservation, as well as publish the data from old specimens whether identified or not, allow to reuse and reanalysis. Otherwise, unavailable data with a junk of specimens would never enhance the science and not promoting the species conservation in near future.

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