

- the hard, white material that makes up the tusks of in medicines, weapons, and art. In China today, ivory is lethal ivory harvesting is to animals.
- Ivory has primarily come from elephants. There are three African Forest Elephant (Loxodonta cyclotis), and Asian Elephant (*Elephas maximas*)



- There is no known way to differentiate ivory from African and Asian elephant species morphologically
- Ivory species identification is currently important for many reasons:





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- Mitochondrial DNA (mtDNA) is DNA contained in the mitochondria separate from genomic DNA. Using known changes in the DNA, single nucleotide polymorphisms the species of elephant a sample of ivory belongs to.<sup>1</sup>

- fecal and blood samples.