## なぜ多くの人数で 巨大な柱をもつ 建物を建てたのか?

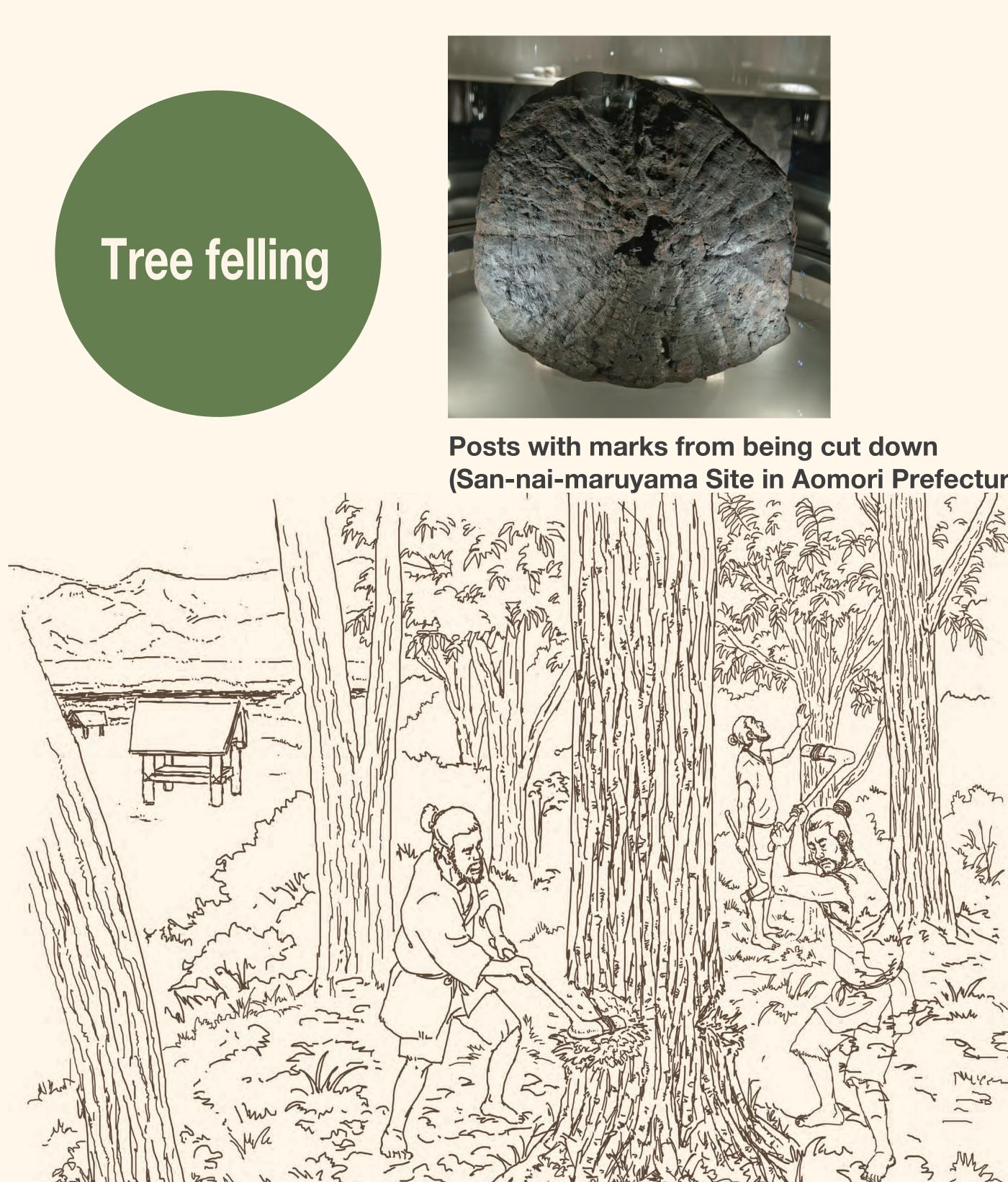
Why would they need a structure with a giant pillar that took so many people to build?



No.1 Hottatebashira Building

Modern

Restored symbolic Hottatebashira Building



A polished-stone axe was used to cut timber as material for posts. Data\* from an experiment using a polished-stone axe to cut down a Japanese cedar 52.4cm in diameter has shown that the axe needs to be hammered in around 13,000 times to fell the tree.

\*From an experiment conducted by the Aomori City Board of Education.

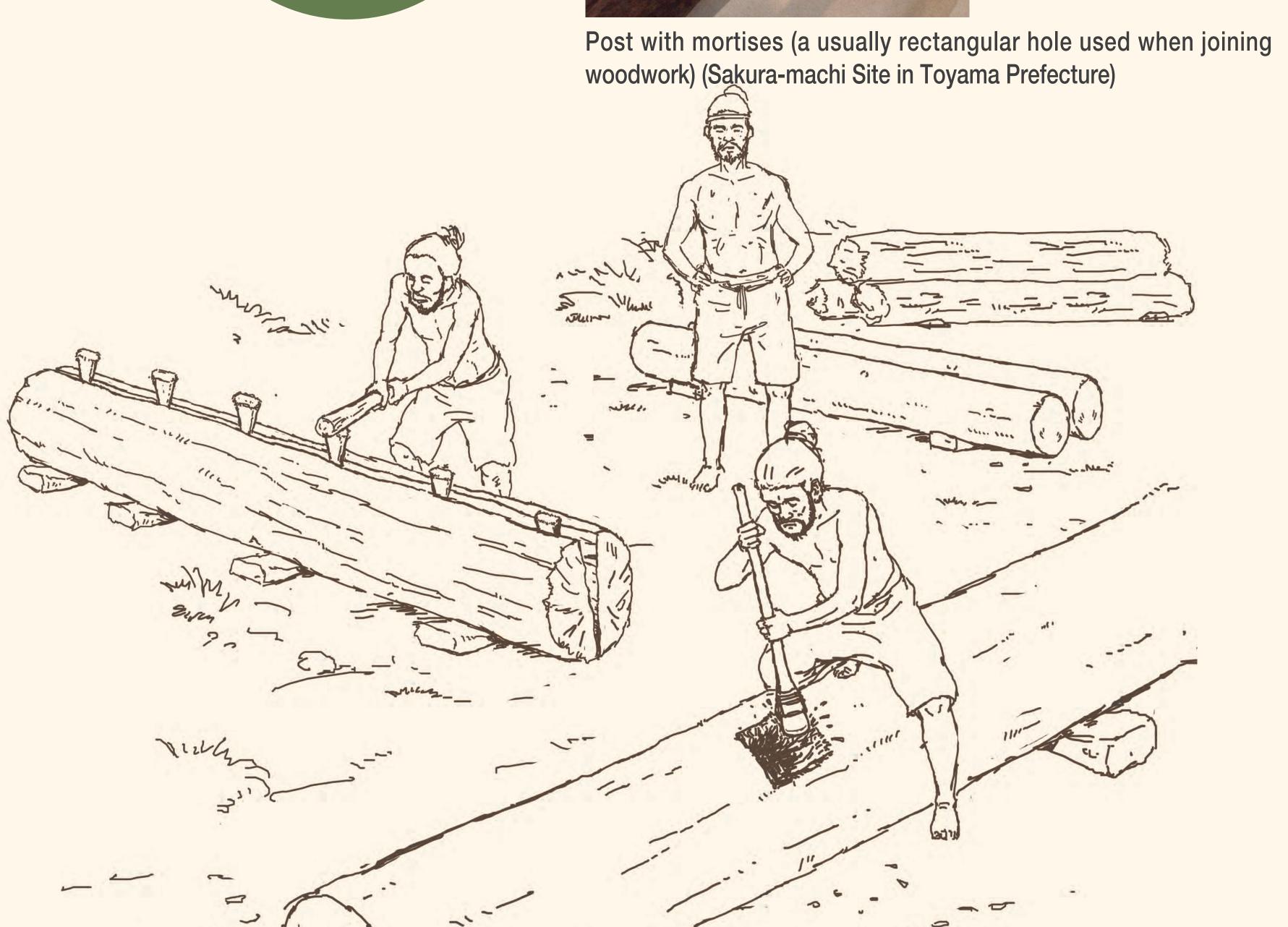


Holes and grooves for tying on ropes have been confirmed on posts from the Jomon period.

It is thought that the timber, 90cm in diameter and weighing several tons, was also transported by tying ropes made of fibers and cane to holes and grooves.



Rope tied around a stone (Morinomiya



axes.

As for tools, a wedge was also hammered in to chop the wood.





The holes for the posts had a diameter of 2m and a depth of 2m. They were dug out using a tool made from a chipped-stone axe attached to a pole for digging called a horibo. It is thought that there was a leader for building construction to decide the location of the posts.



Felling a tree using a chainsaw



Transportation using a crane



Timber to be used for buildings



Making timbers using a chainsaw



Shaping holes with a chisel, etc.