

# Museum with “Living Robots”

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# **Miraikan**

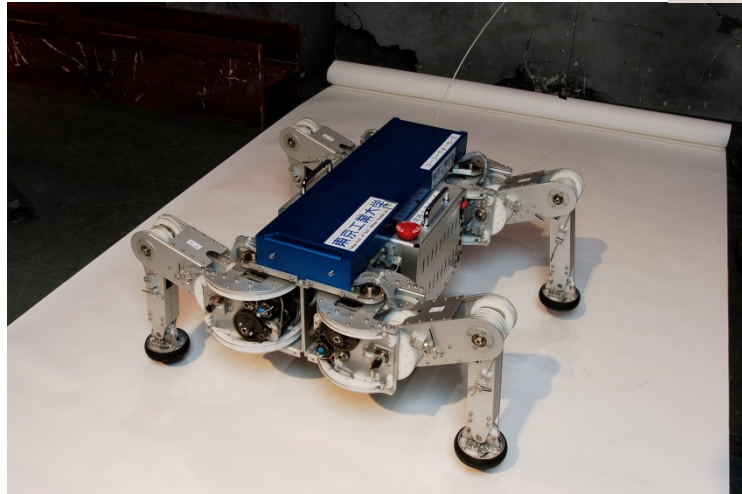
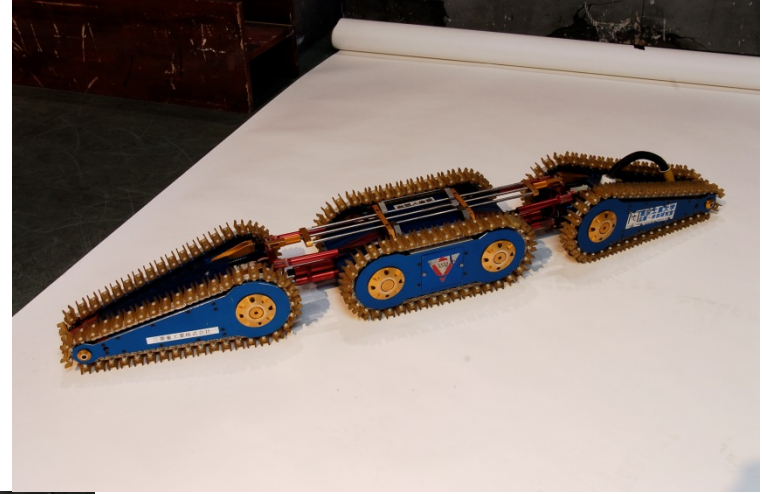
**(National Museum of  
Emerging Science and Innovation)**

**Mirai = Future**  
**Kan = Museum**

**2001**  
**Miraikan opened**  
**with many robots.**



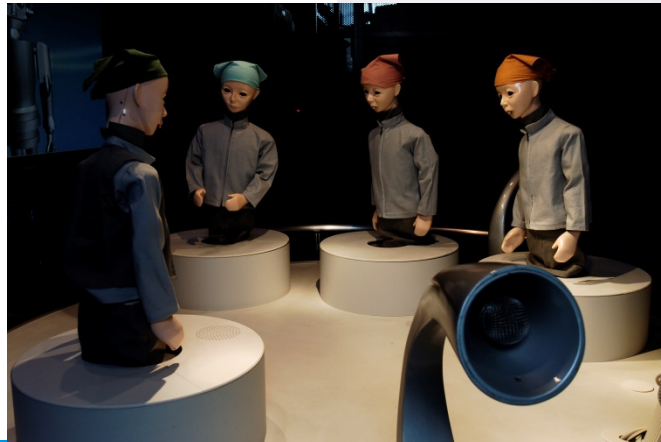
Some are only for “display”.



**Some are just  
“moving” on the  
stage.**



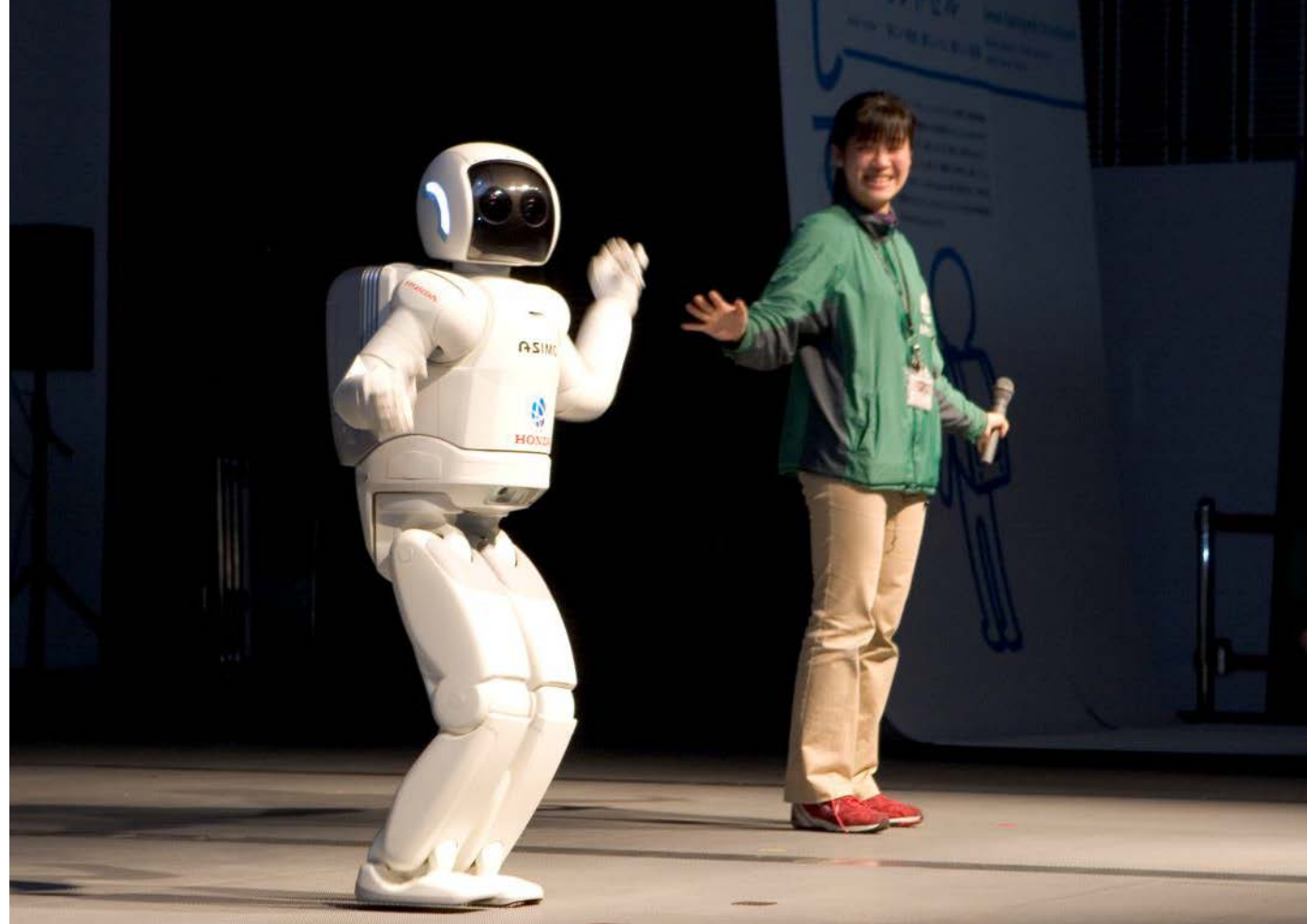
**Some are  
“interacting  
robots with  
people”.**



**2002**  
**Miraikan hired**  
**ASIMO as a**  
**science**  
**communicator.**



**2002**  
**His mission is to**  
**perform in front of**  
**visitors.**  
**But he needs**  
**human's help.**

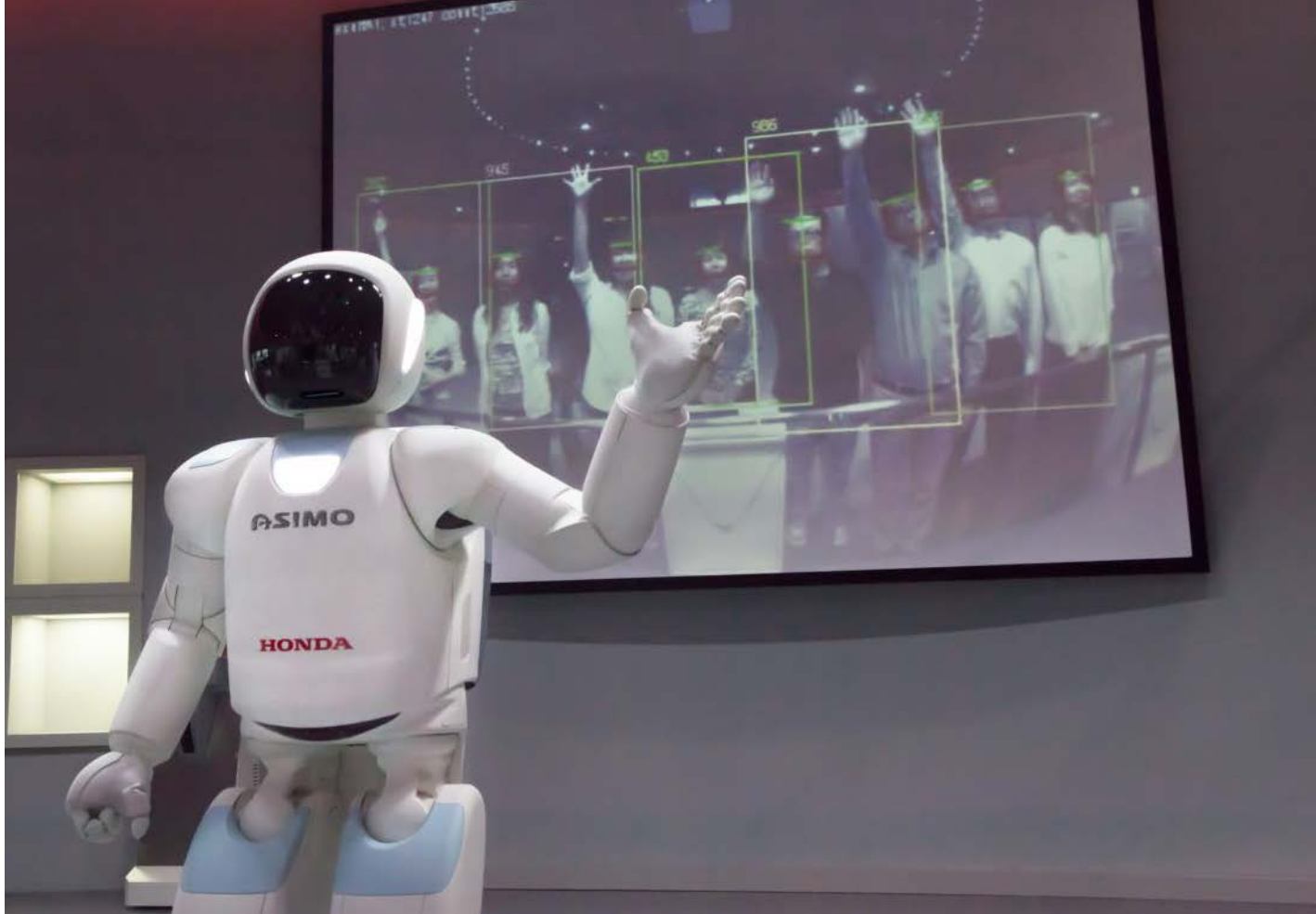




**2007**  
**ASIMO can even**  
**kick the ball.**  
**but still needs**  
**human's help.**



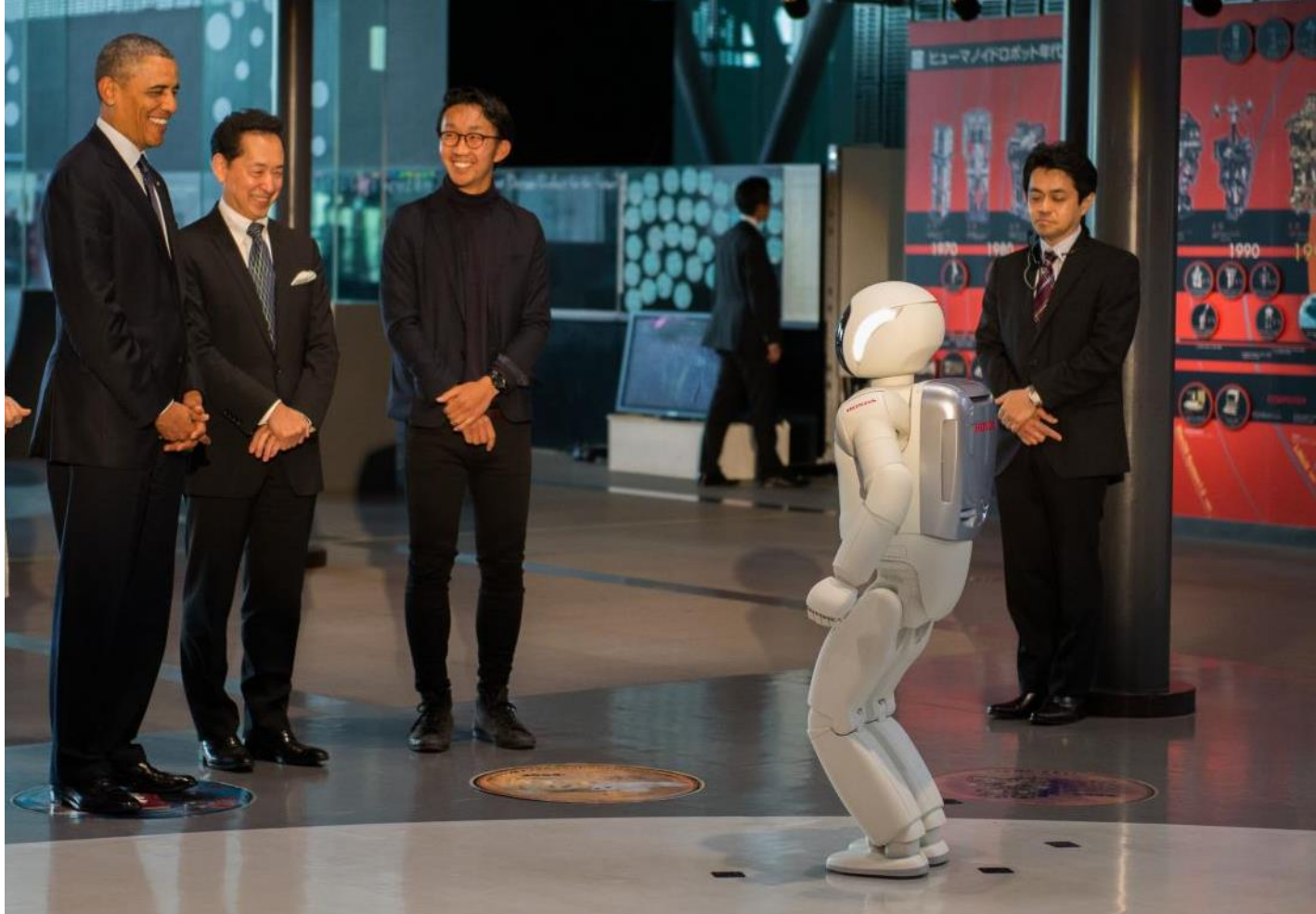
**2013**  
**ASIMO tried an**  
**experiment for**  
**understanding**  
**visitor's reaction.**



**2014**  
**ASIMO can run**  
**and jump.**  
**finally performs**  
**on his own.**



**2014**  
**He had a great  
honor to welcome  
President Obama.**



**2015**  
**Next year,**  
**Chancellor Merkel.**



**2016**  
**Asimo**  
**collaborates with**  
**our symbol**  
**exhibition “Geo**  
**cosmos”**  
**even with sign**  
**language.**



**2016**  
**Asimo**  
**collaborates with**  
**our symbol**  
**exhibition “Geo**  
**cosmos”**  
**even with sign**  
**language.**



**2014**  
**Miraikan hired**  
**another three**  
**robots.**





**One is a lady-  
“Otonaroid” .  
She works as a  
science  
communicator  
who can talk to  
visitors without  
any hesitation.**



**One is a little girl-  
“Kodomoroid”.  
She works as an  
announcer  
who reads  
science news  
everyday without  
getting tired.**



**The other one is minimal human “Telenoid” who can be hugged with visitors.**



**“Otonaroid”  
has a freedom  
and she is very  
conscious of her  
fashion.**



**First year, she  
changed her hair  
and clothes often.**



**First year, she  
changed her hair  
and clothes often.**



**First year, she  
changed her hair  
and clothes often.**



**Second year, she even changed her face.**





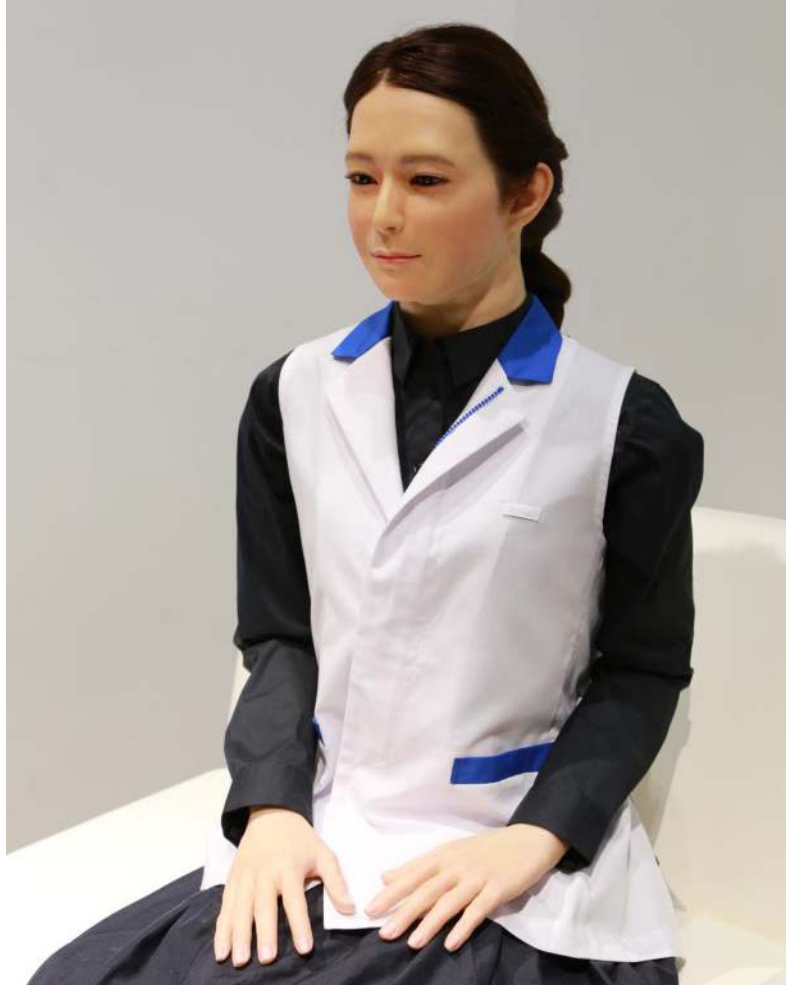
**Second year, she even changed her face.**



**She wear  
traditional clothes  
for summer.**



**She is in her new uniform.**



**She is in her  
private clothes.**



**Every time,  
we have to have  
special stylist for  
her.**





**She was loved by world well known singer, Damon Albarn and became a special listener for his concert.**



**She was loved by world well known singer, Damon Albarn and became a special listener for his concert.**

Now she is a  
veteran  
science  
communicator to  
watch new robot's  
performance.





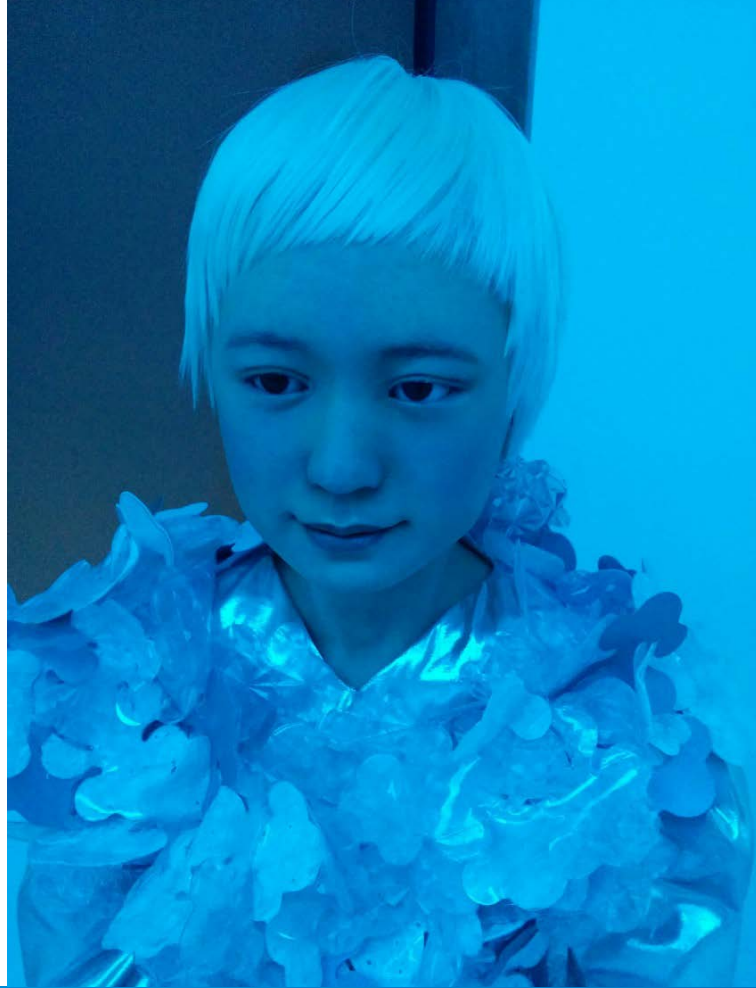
**“Kodomoroid”  
She is very active  
and hard worker.  
she likes to  
challenge a new  
work.**



She was on TV to promote our Toilet exhibition, even she never goes to toilet.



**She performed as  
a model for  
cosmetic  
company,  
SHISEIDO.**



**She moderates a  
talk show of  
animation creator  
for “Ghost in a  
shell”**



**Now she is  
working in UK  
(London and  
other cities).**



**We always  
encourage her to  
work out side and  
meet new people.**



**“Robot” is not only  
an object of  
new technology’s exhibition**

**“Humanoid Robot” can be like  
animals in  
a zoo or an aquarium?**



**“Living Robot” will be  
a new tool and a partner  
for museums  
that illustrate  
our future society**