

**The interaction
between human and object
in the Internet of Things**

Alisa Koniukhovskaia

1) How does man interact with objects (things)? What basic properties of human psyche and consciousness are involved?

2) What should the Internet of Things be in order to provide effectiveness of the interactions?

IoT

New level
of coexistence
of things



New level
of coexistence
of human with things

The interaction of man and object

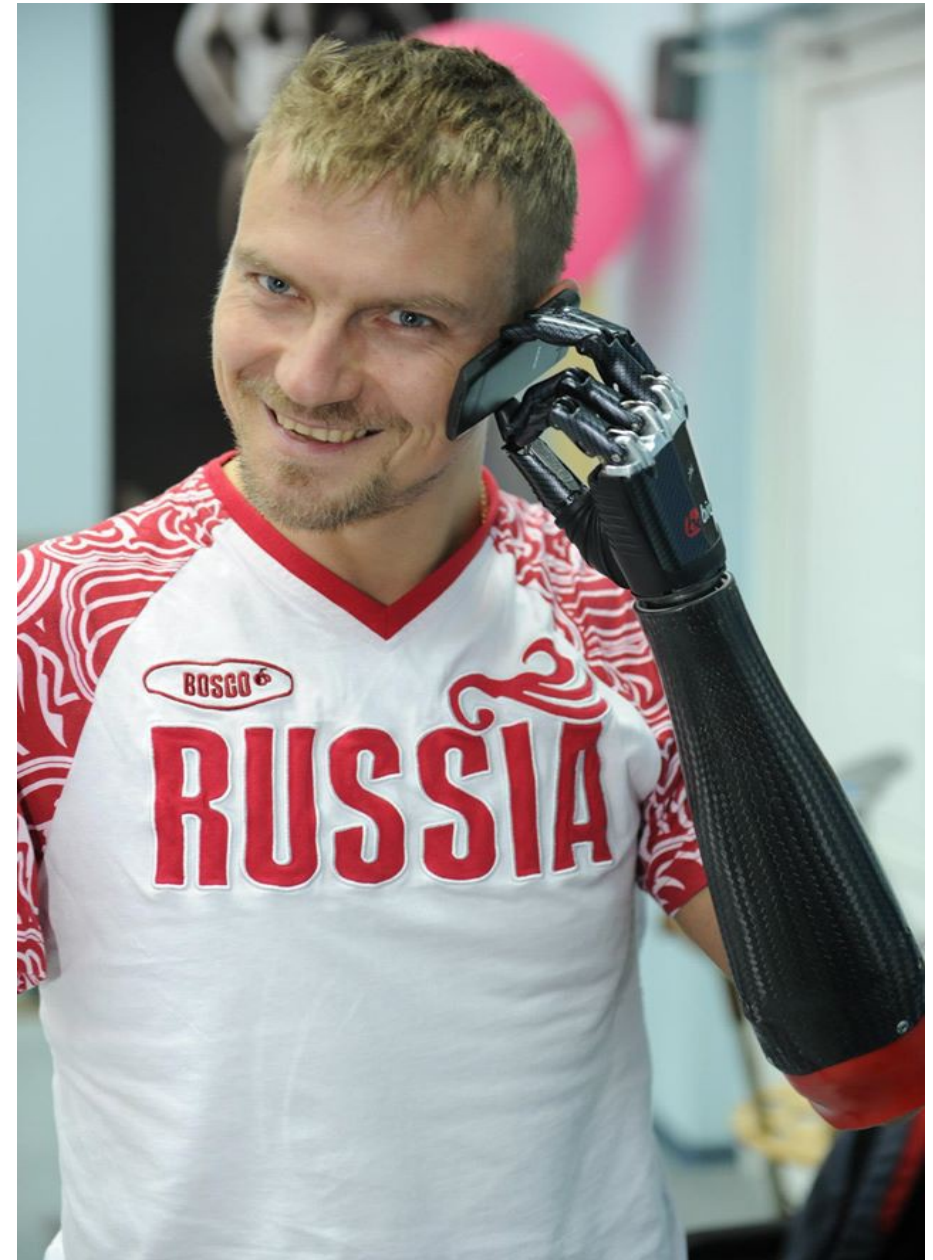
- *Functional aspect*
- *Practical aspect*
- *Aspect of control*

The functional aspect

What determines interactions with objects?

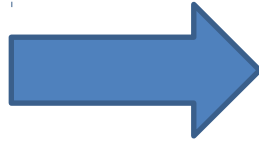
- *What is the aim of these interactions?*
- *What functions does the object perform?*
- *How perfect is the performance of these functions?*

Alexey Obydenov and the bionic hand



The practical aspect

The action
as a goal



The action
as an automatic operation
(a task)



The aspect of control

**the border of
an arm and a stick**

**the border of
the stick and
the object**





*Close world of external things gradually disappears,
we stop noticing the familiar objects,
for instance comfortable clothes*

*The object, that fits into the scheme of the body
moves the border of corporeality to another object,
to which activity is directed*



Conclusions of the phenomenon stick

- 1) The borders of human corporeality are flexible, they are able to expand and contract depending on controllability*
- 2) Flexibility of the boundaries of corporeality is a universal principle of objectification, which manifests itself in a clash with something "alien", uncontrollable*

How do we define and feel our presence in the world?

Where does my mind end and the outside world start?

What is consciousness?

*The most profound technologies are those that disappear.
They weave themselves into the fabric of everyday life until
they are indistinguishable from it.*

Mark Weiser

I want to say even more:

The technology embedded in the scheme of our body.

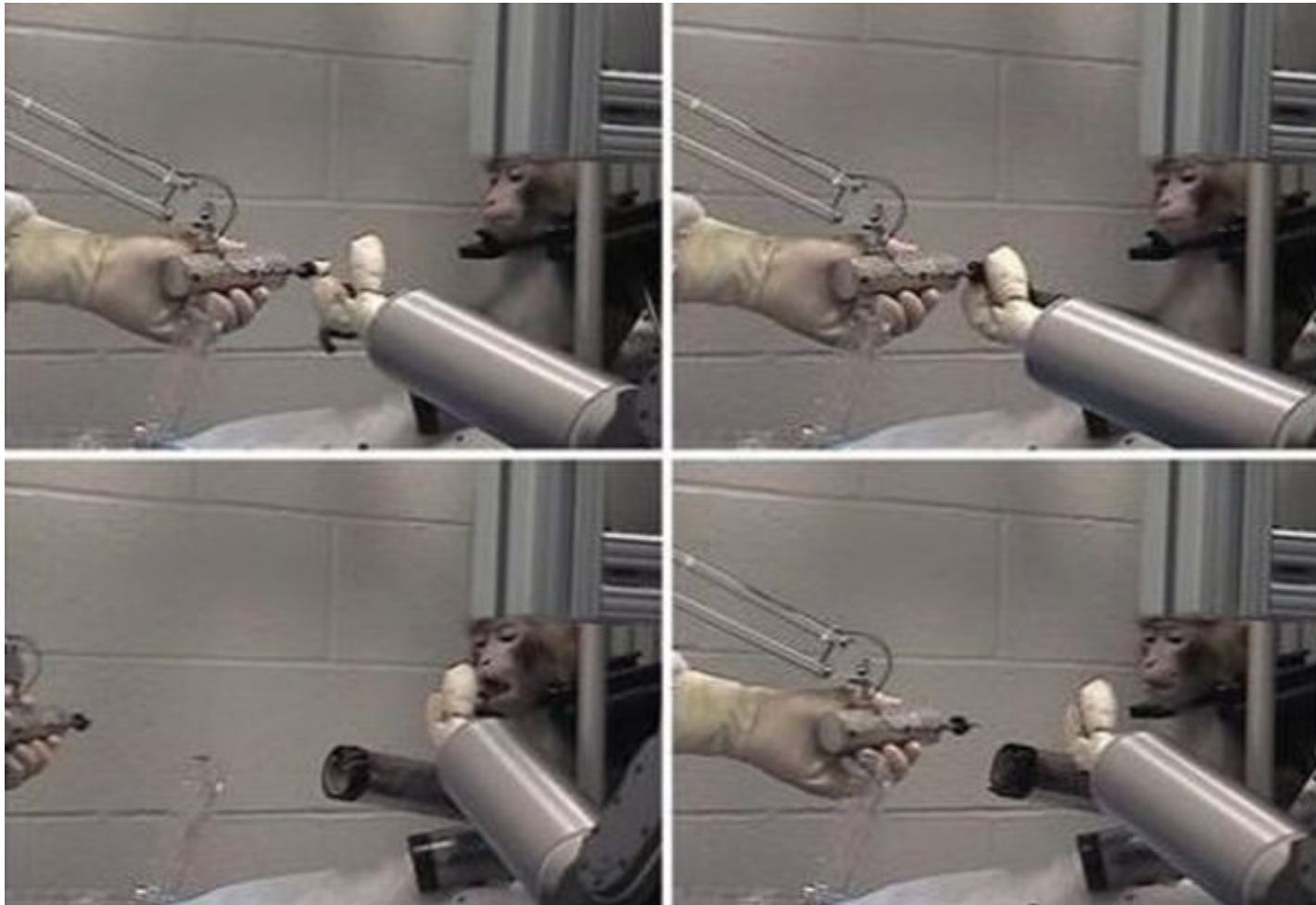
*The technology is also integrated into our consciousness
and defines our way of representing the world and
being in the world.*

Interface of Internet of Things should be such that the consciousness, the self, the corporeality could expand as easily as possible through interaction with the other objects without concentration on the process of technology.

Speech & Gesture Interface



Brain-Computer Interface



The structures of the brain are able to adapt so as to enhance the capacity of the body and use artificial manipulation complement without loss of function of natural limbs.

Miguel Nicolelis

Internet of Things must be:

1) strictly functional

2) interaction with it must be not the aim but just a tool

*3) it must be absolutely under control and become
an extension of the body*

Thank you for your attention