

Science Centre World Summit 2017

Tokyo, 16 November 2017

Plenary Session: Co-design for transformation

Moderator, Eric Marshall, Kavli Foundation

**Science Fiction:
a source of, and a warning for,
Innovation**

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HARRISON FORD IS **BLADE RUNNER™**

THE DIRECTOR'S CUT
THE ORIGINAL CUT OF THE FUTURISTIC ADVENTURE



HARRISON
FORD

RUTGER
HAUER

SEAN
YOUNG

EDWARD JAMES
OLMOS

DARYL
HANNAH

DVD
VIDEO

Information and communication technologies

Communications

Video telephones

Audiovisual systems

Photo Scanners

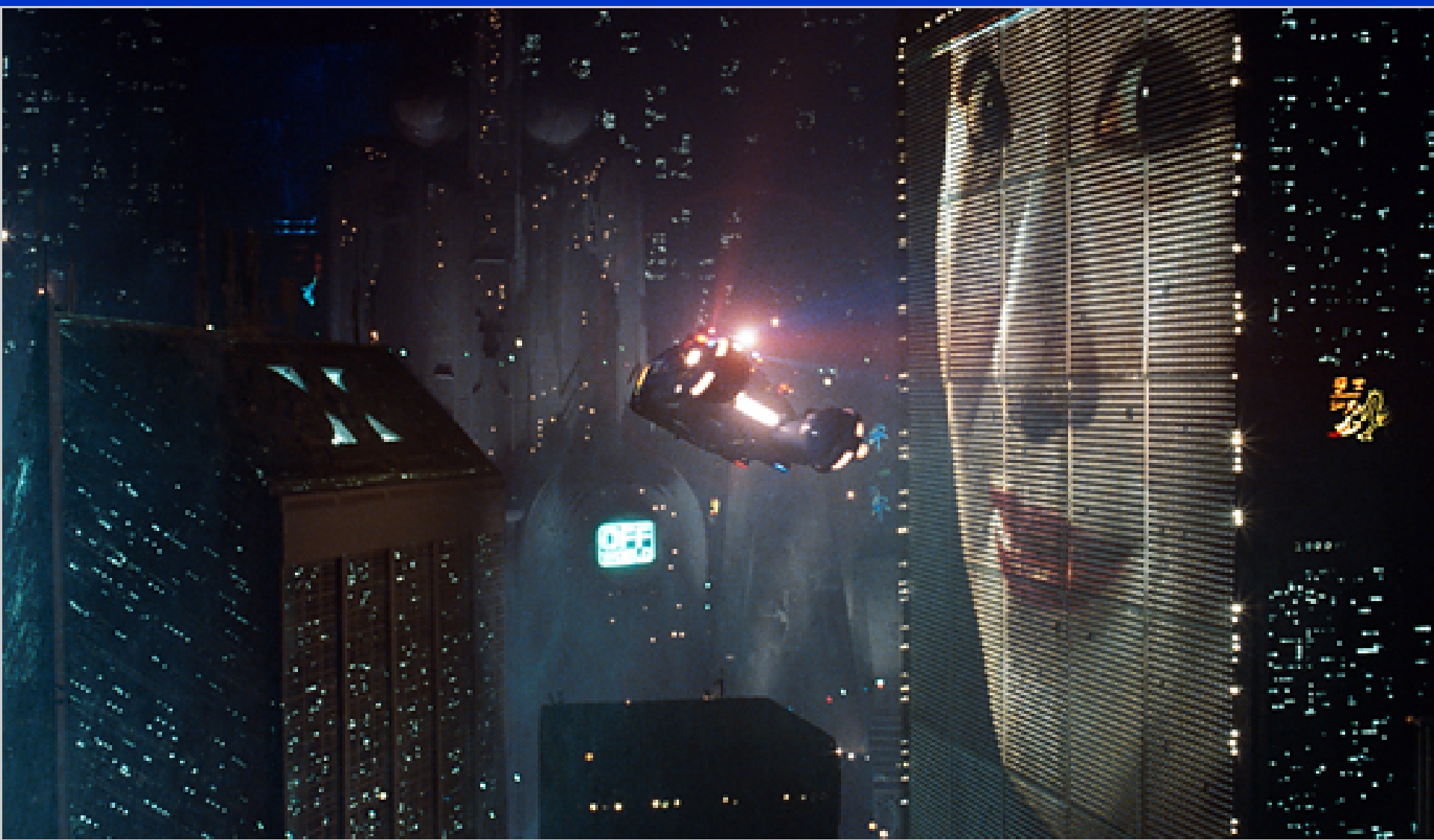
Voice command systems

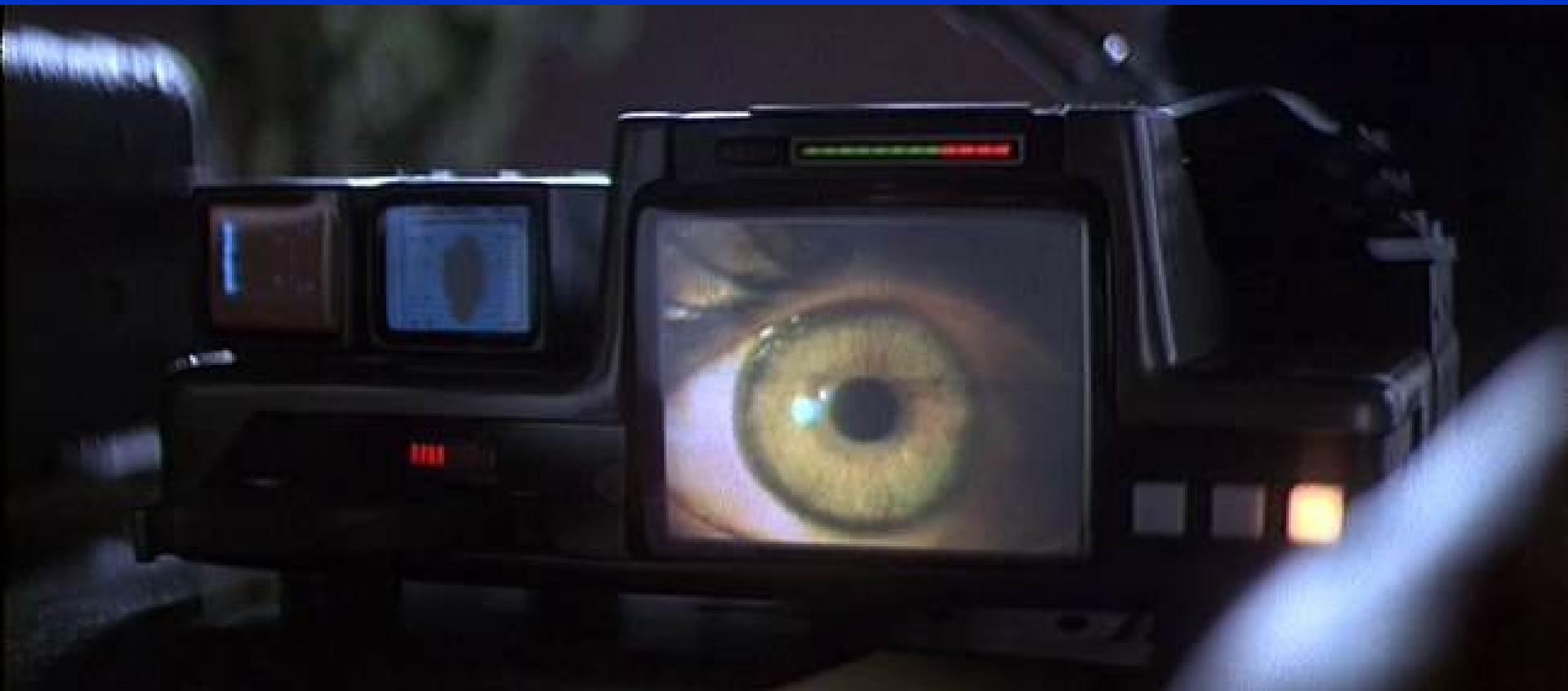
Visual analysis

Diffusion of electronic equipment

Kiosks with electronic cashiers

Electronic money







Cost of a telephone call:
\$ 1.29

Biotechnology

Replicants

Nexus 6

Constructed memories

Artificial human components

Eyes

Toys

J.F. Sebastian's constructed friends

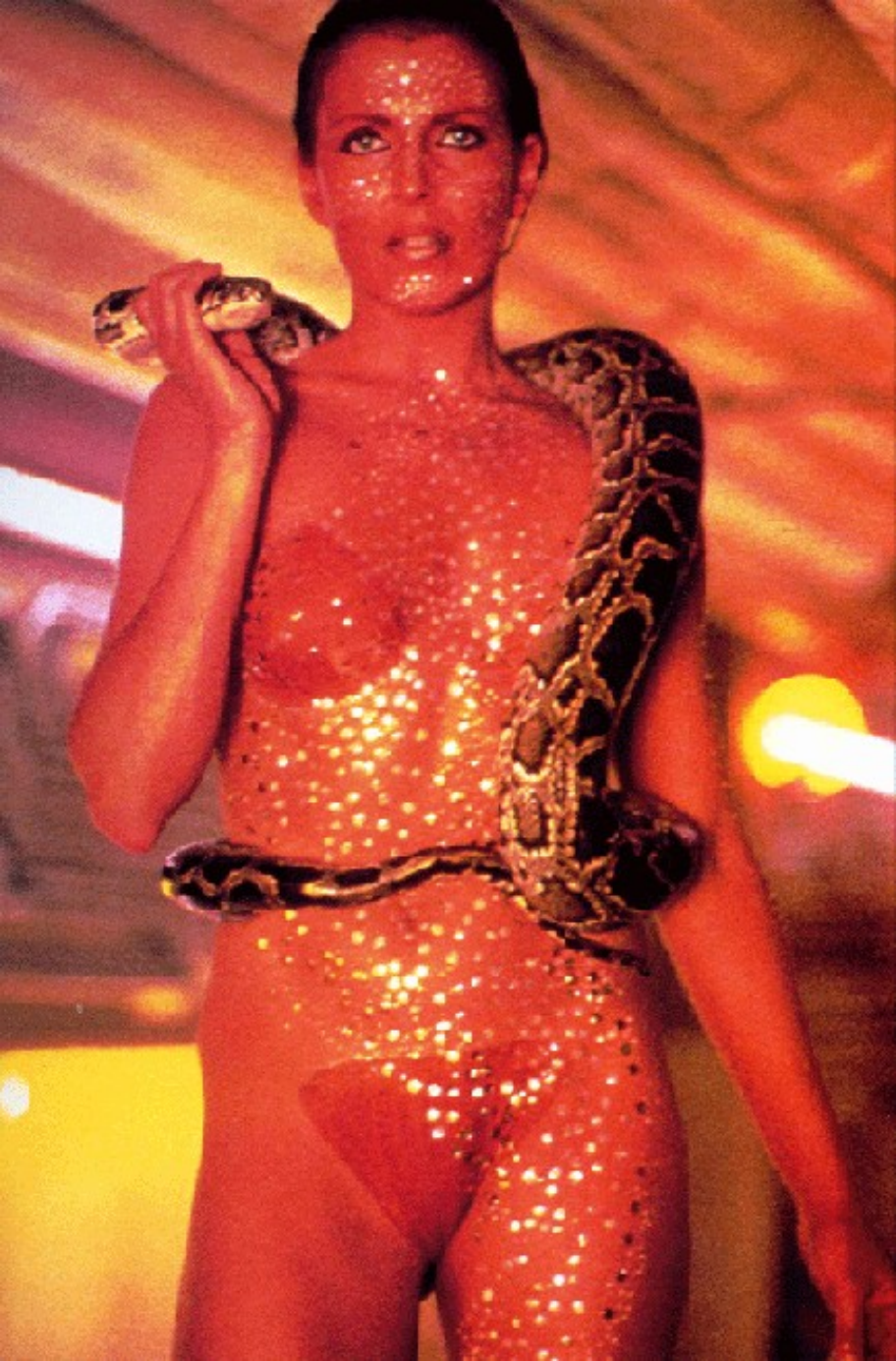
Artificial animals

Real animal almost exiting

Artificial pitons and owels







Blade Runner: underestimation and overestimation of scientific advance

- In the case of biotechnology, none of what was described has happened (although many things are TODAY possible)
- In the case of ICTs, Blade Runner has under-estimated the pace of technological change (no Internet, no email, all devices have become more powerful, smaller and cheaper)
- One core message: technological opportunities integral component of societal development



J O H N N Y D E P P

TRANSCENDENCE

APRIL 18



Transcendence: integration of ICTs, Robotics, nano-technologies and bio-technologies

- Key role played by a very few scientists that have a vision
- From new scientific and technical openings to new industries (it has happened with Thomas Edison and Henry Ford, it has happened again with Bill Gates, Jeff Bezos and Mark Zuckerberg)
- Much more a “one man show” than a societal process of knowledge generation

Processing big data as a key for successful actions



From Dystopia back to Utopia

Science Fiction mostly highlights the dangers

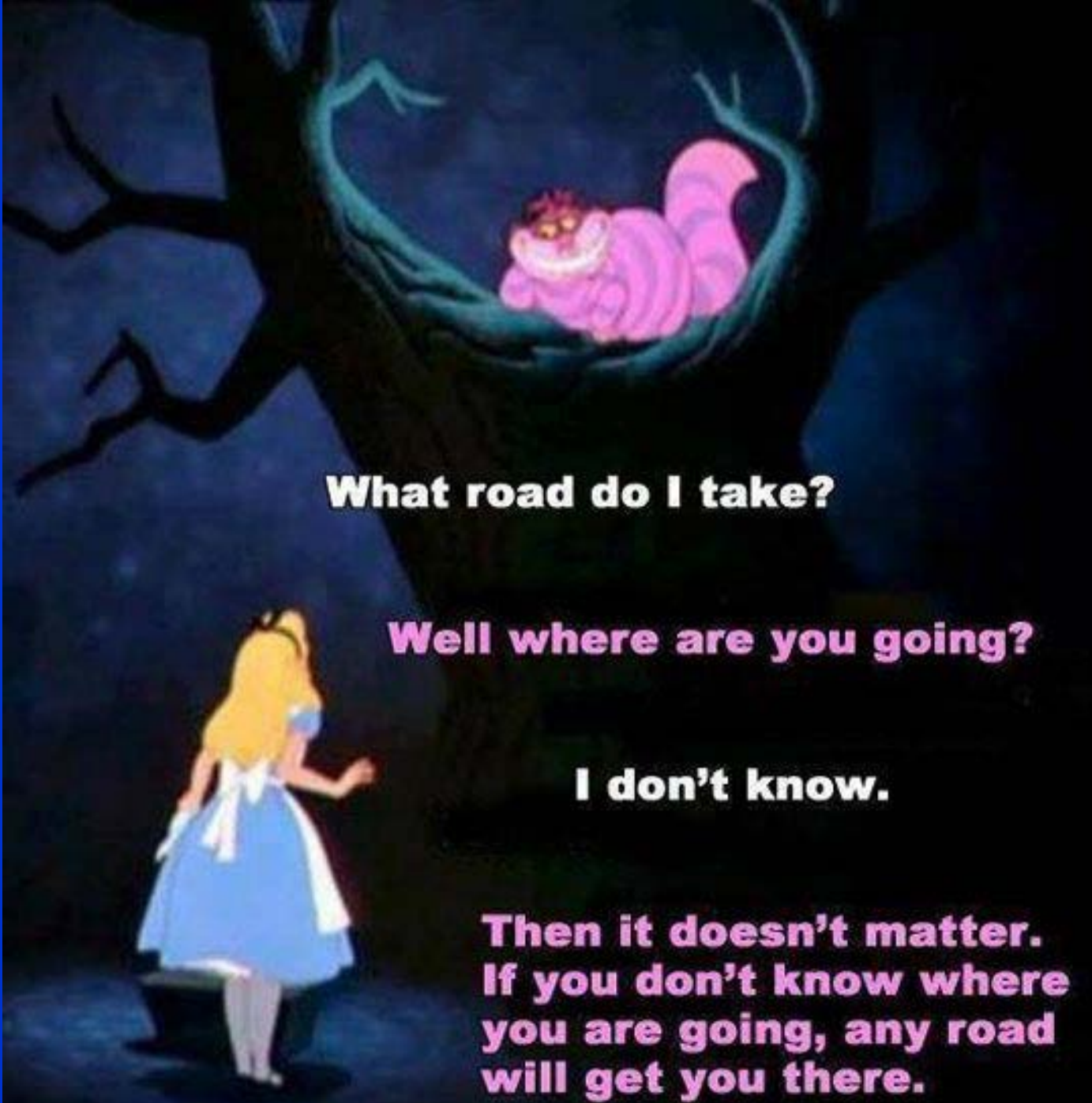
Typically: environment destruction, alien invasions, rebellion of the machines, no effective governance

Can Science Fiction also highlight opportunities?

How social and organizational innovations can be associated to new technological opportunities

WHAT CAN WE LEARN?

- How can new scientific and technological opportunities be included in a societal perspective
- Which societal “interference”? When results are already available or when deciding where to invest?
- Disproportionate power today of the “consumer” over the “citizen”. Can the political process re-gain a role?



What road do I take?

Well where are you going?

I don't know.

**Then it doesn't matter.
If you don't know where
you are going, any road
will get you there.**