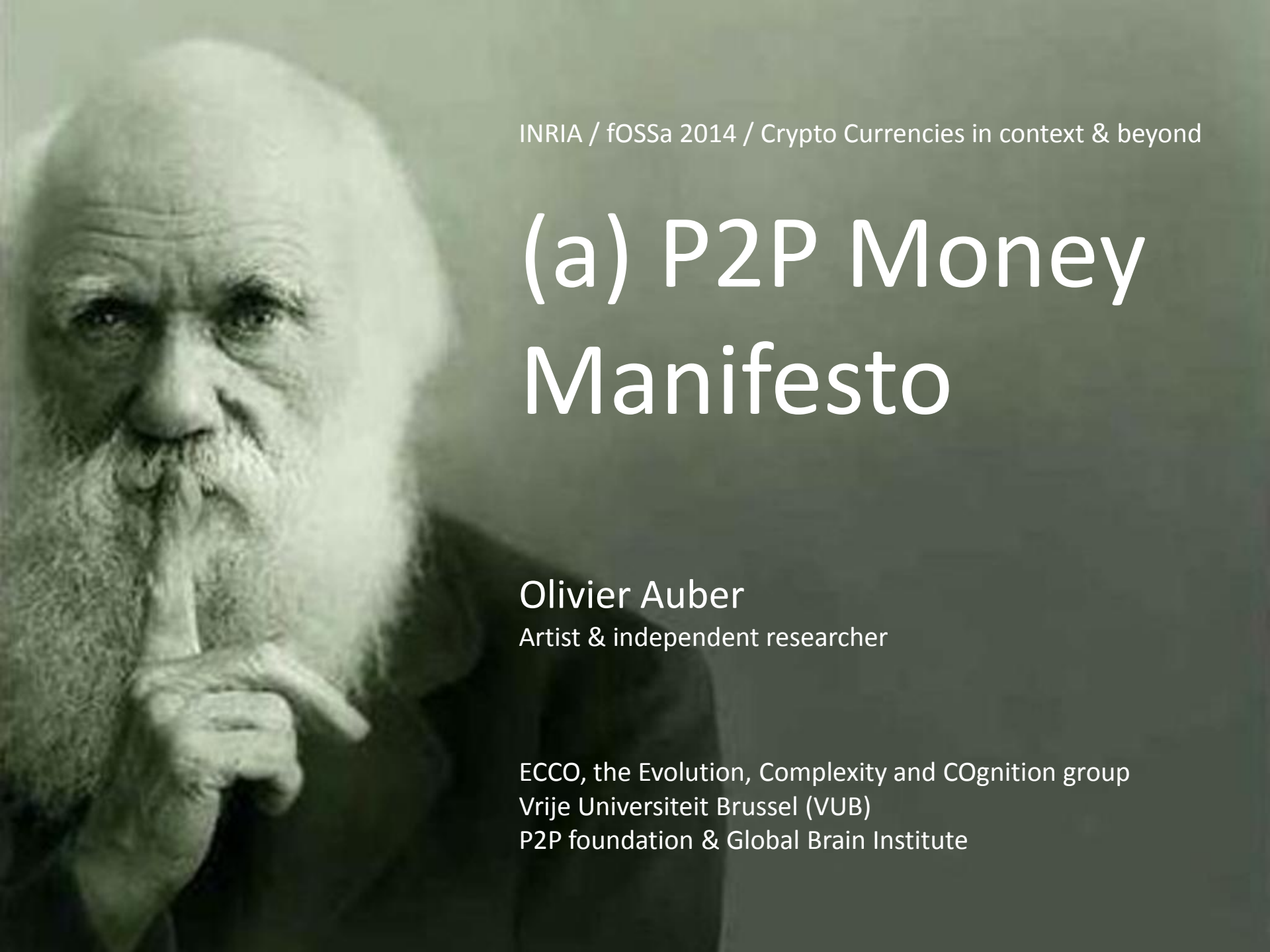


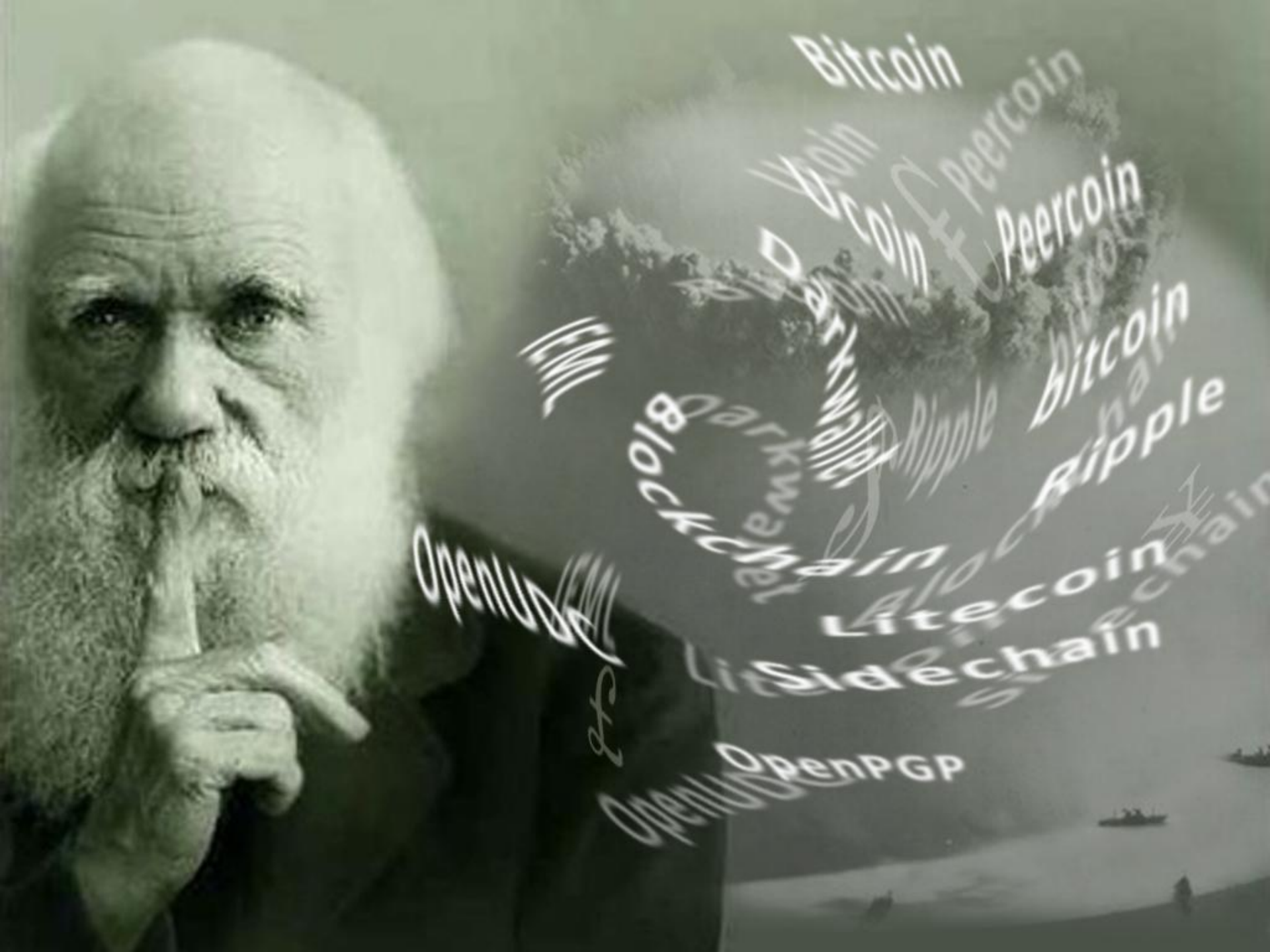
INRIA / fOSSa 2014 / Crypto Currencies in context & beyond

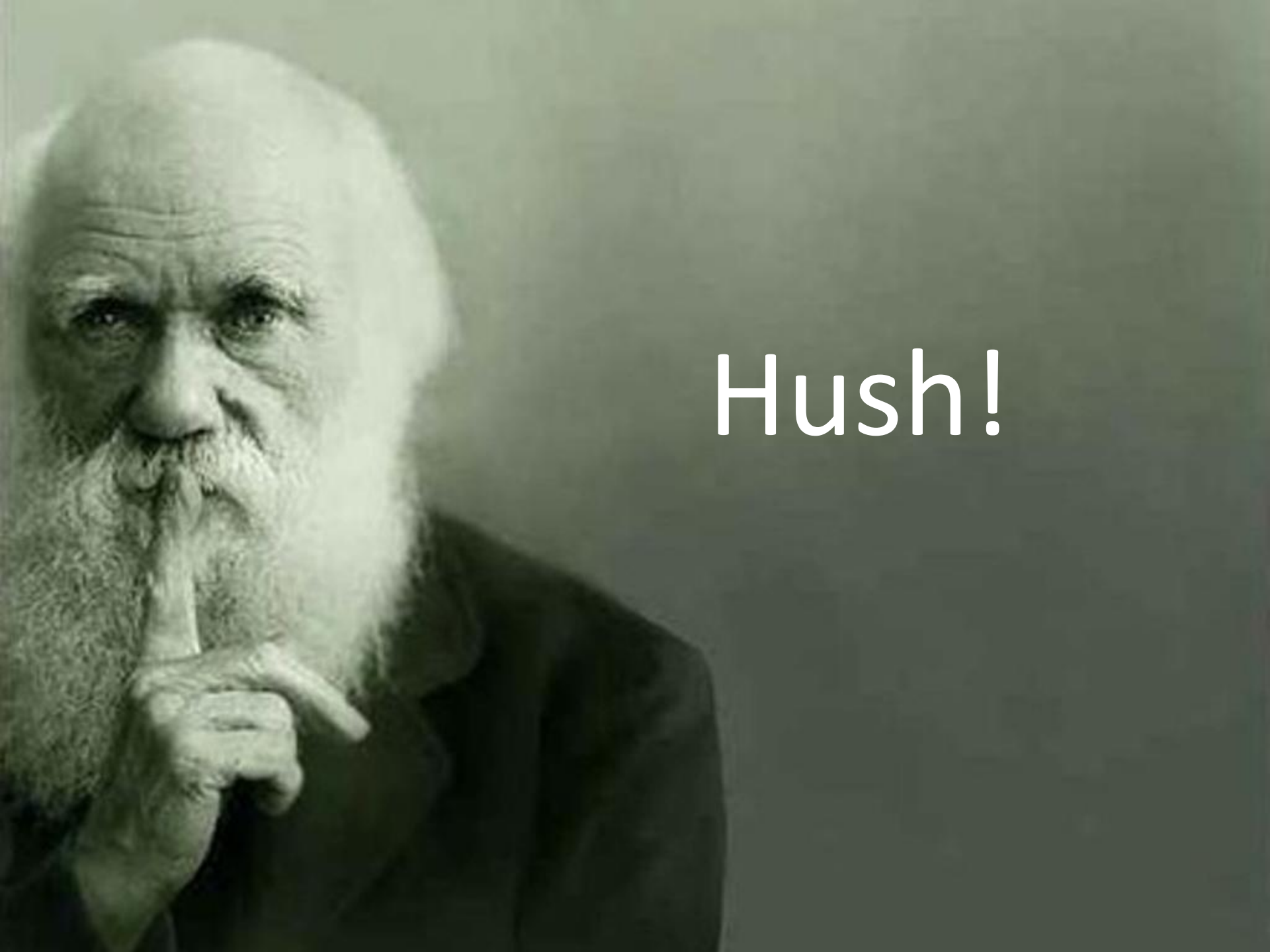
(a) P2P Money Manifesto

Olivier Auber

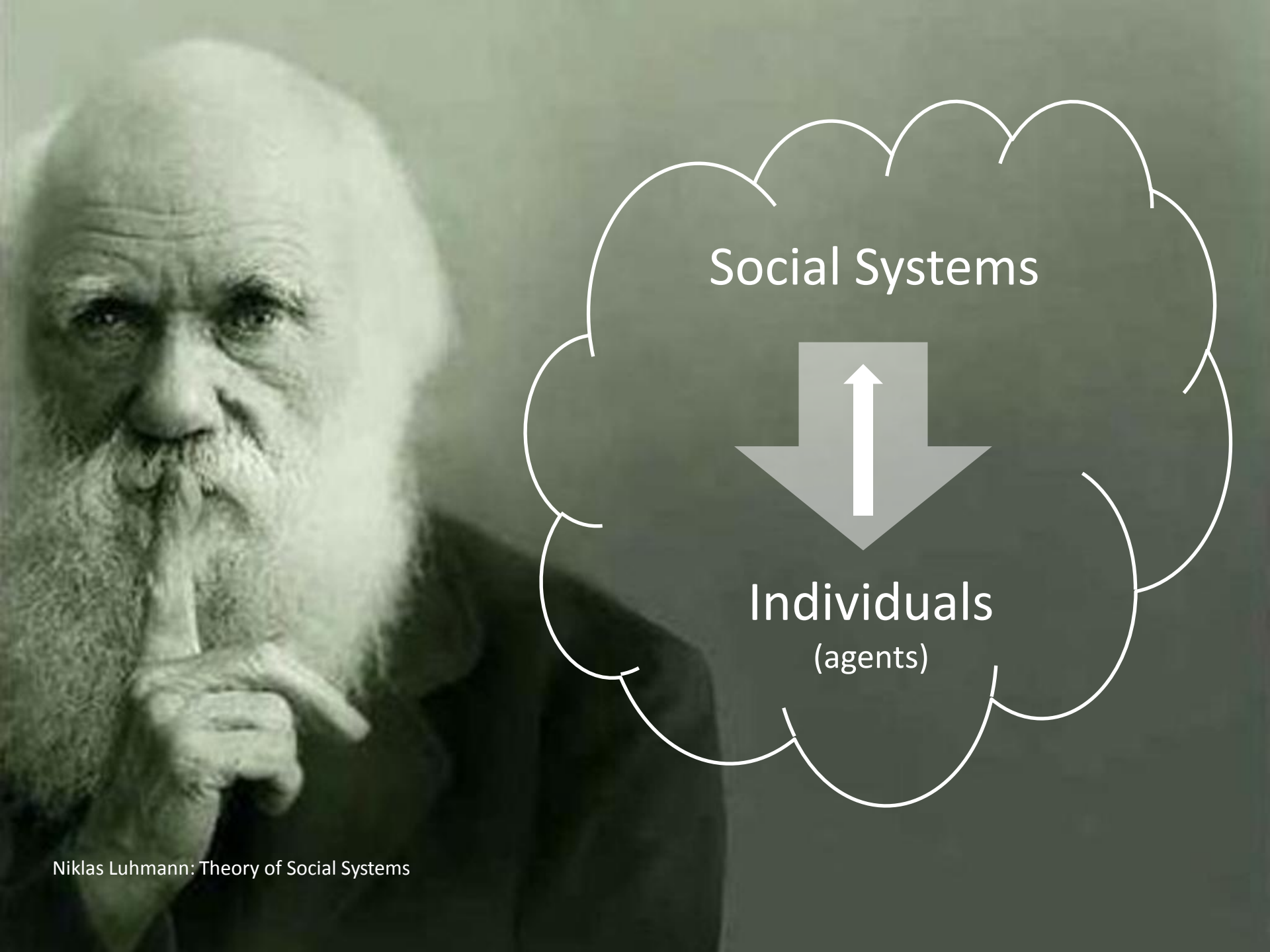
Artist & independent researcher

ECCO, the Evolution, Complexity and COgnition group
Vrije Universiteit Brussel (VUB)
P2P foundation & Global Brain Institute

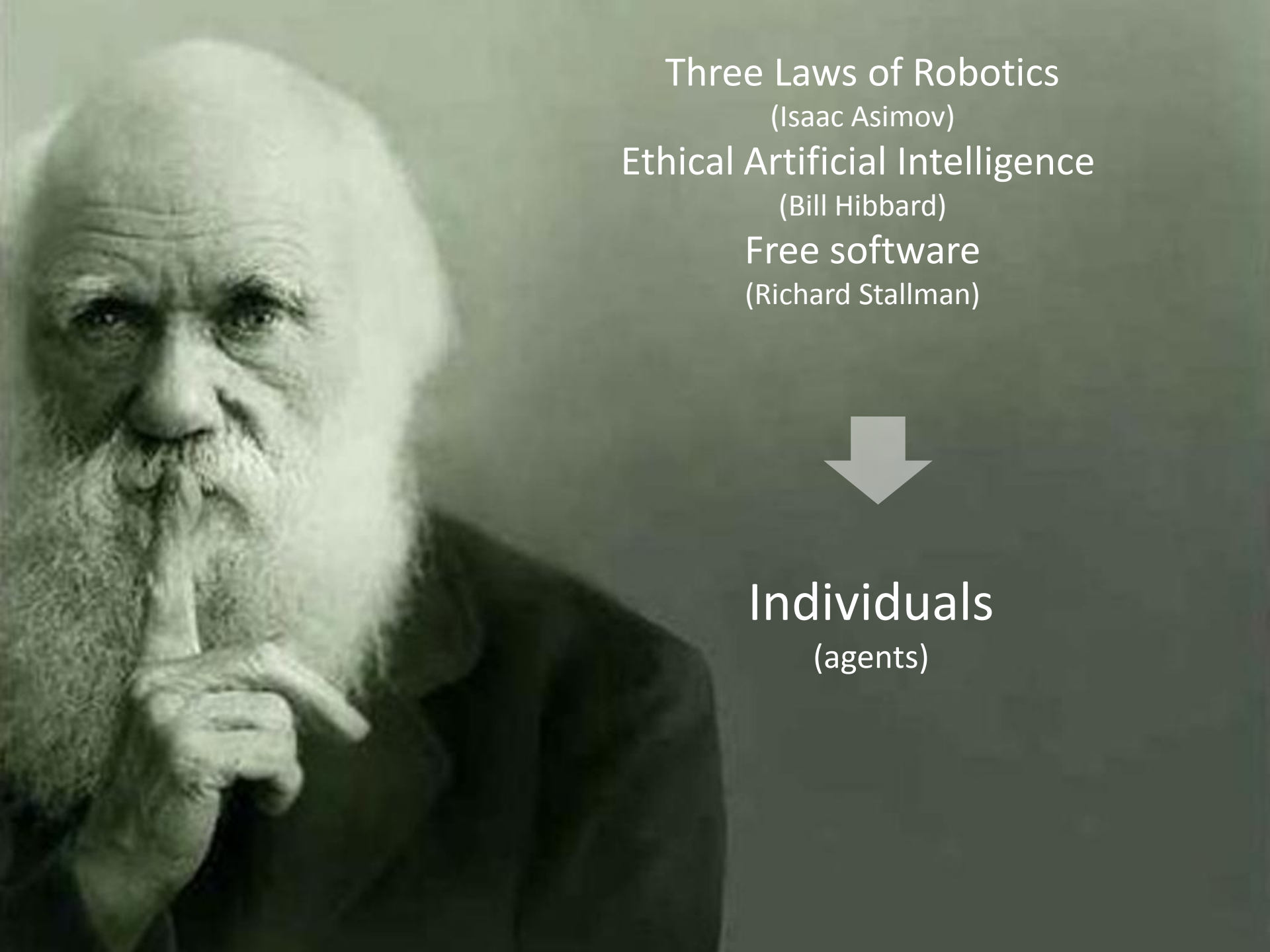

Bitcoin
Peercoin
Ripple
Bitcoin
Ripple
Litecoin
Sidechain
OpenPGP


Hush!

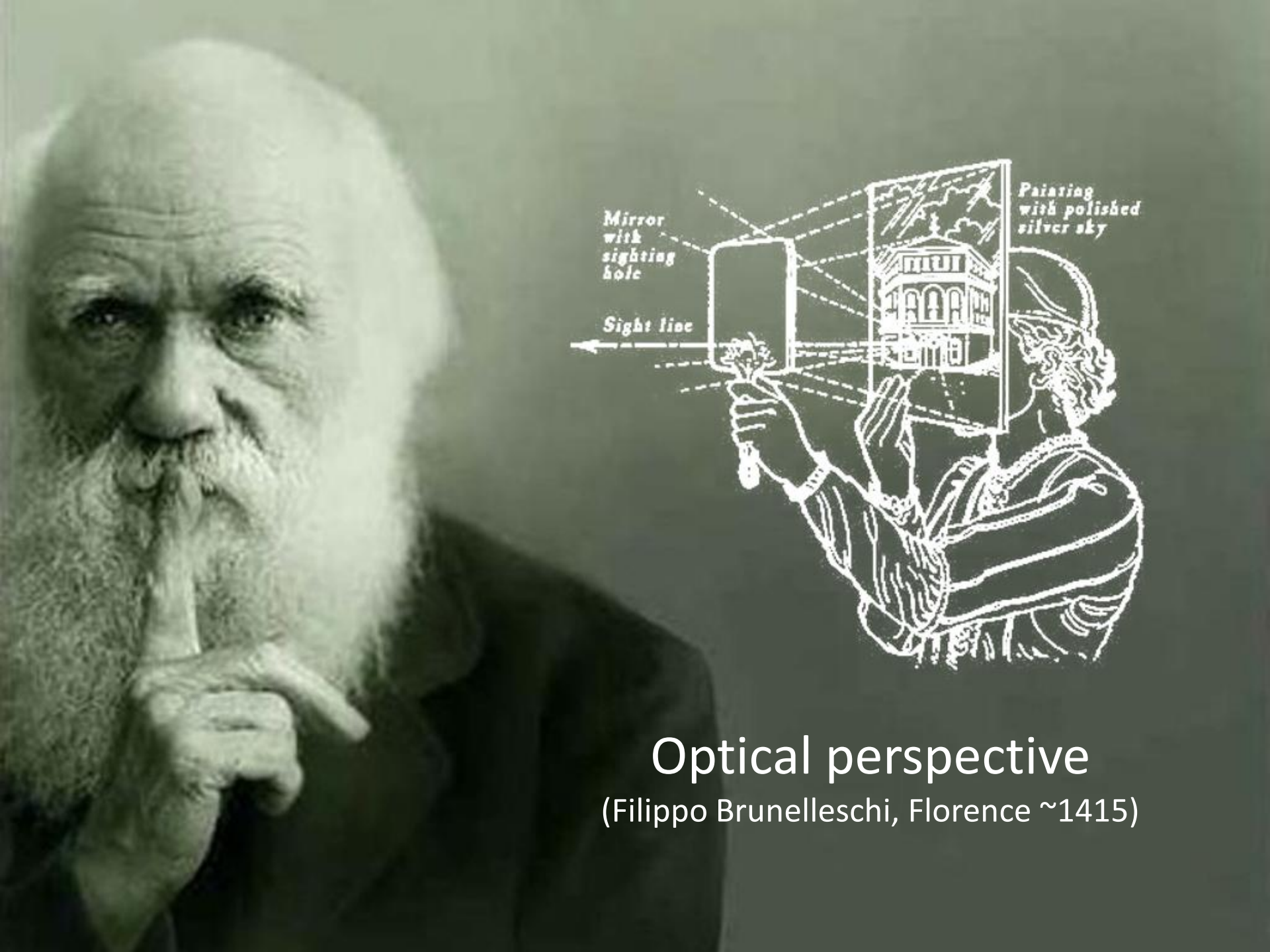
Abiogenesis……
1
Atechnogenesis……
2
…… Aethogenesis?
WE ARE HERE
Jean-Louis Dessalles: « Why we talk ?»
Oxford University Press



Niklas Luhmann: Theory of Social Systems

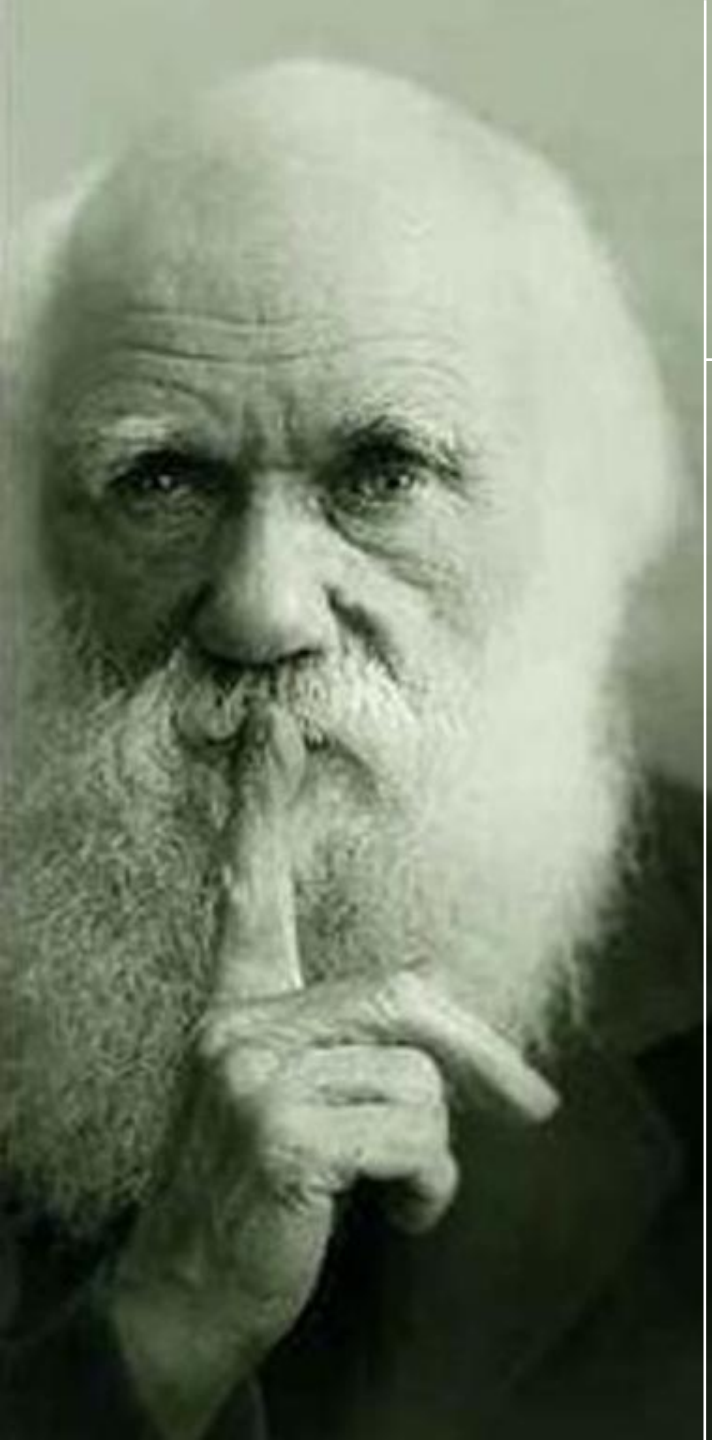

Three Laws of Robotics
(Isaac Asimov)
Ethical Artificial Intelligence
(Bill Hibbard)
Free software
(Richard Stallman)
Individuals
(agents)

Social Systems
Legitimacy criteria
applied to network s
(P2P money manifesto)

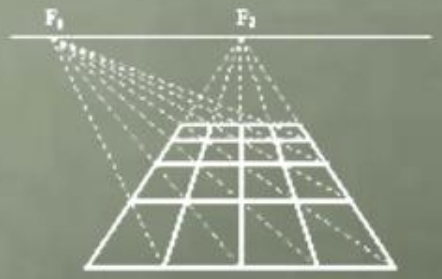


Optical perspective

(Filippo Brunelleschi, Florence ~1415)



Optical perspective



Anoptical perspectives

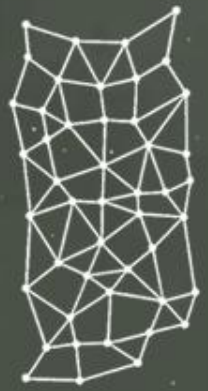
temporal →

digital →

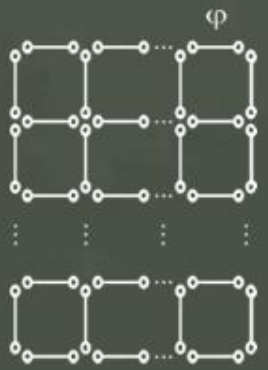
Centralized

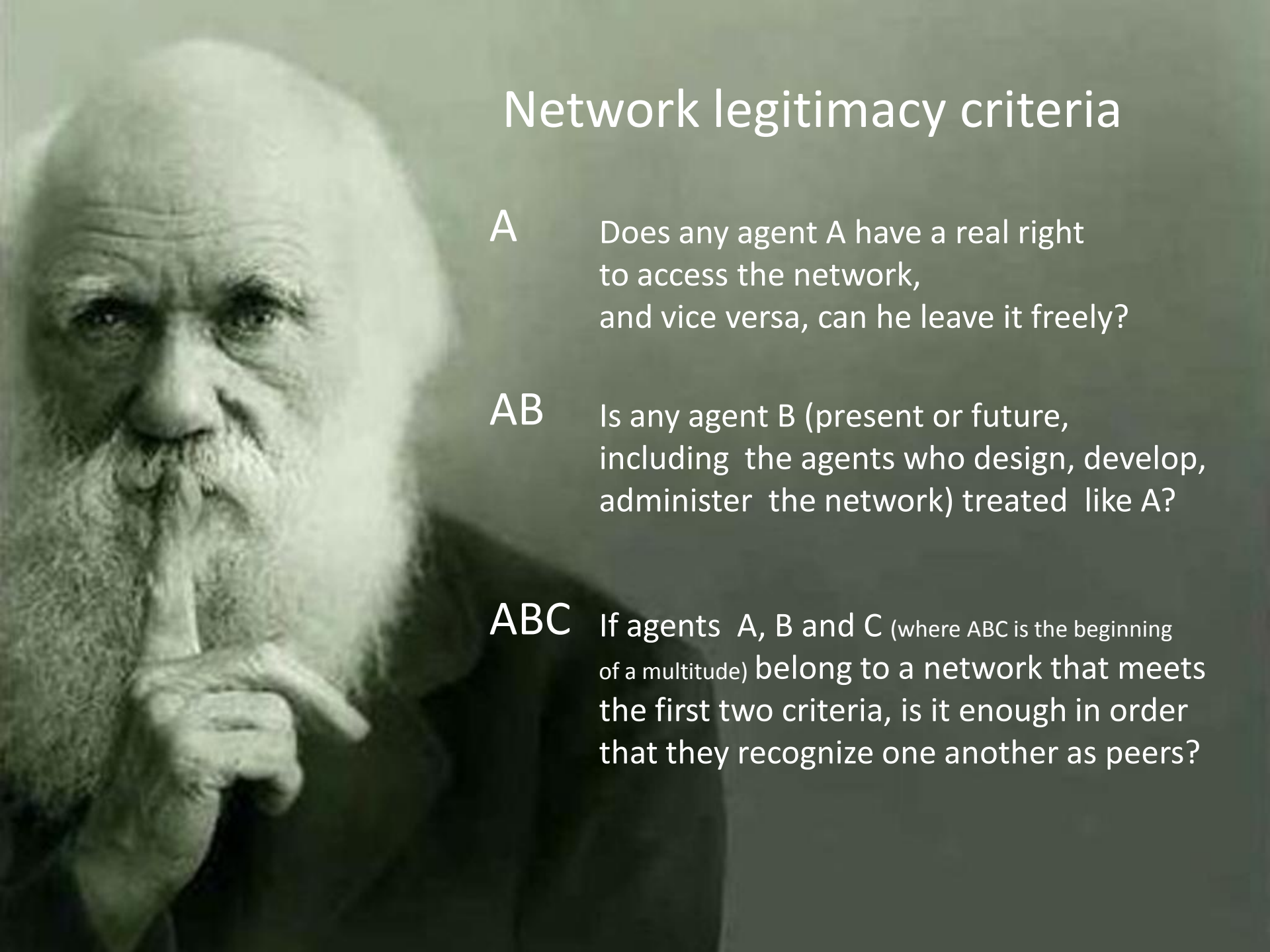
Decentralized

Distributed



Quantum





Network legitimacy criteria

A Does any agent A have a real right to access the network, and vice versa, can he leave it freely?

AB Is any agent B (present or future, including the agents who design, develop, administer the network) treated like A?

ABC If agents A, B and C (where ABC is the beginning of a multitude) belong to a network that meets the first two criteria, is it enough in order that they recognize one another as peers?

Examples

Facebook

does not meet criterium AB because its creator (Mark Zuckerberg) is not treated like just any agent A or B

Euro

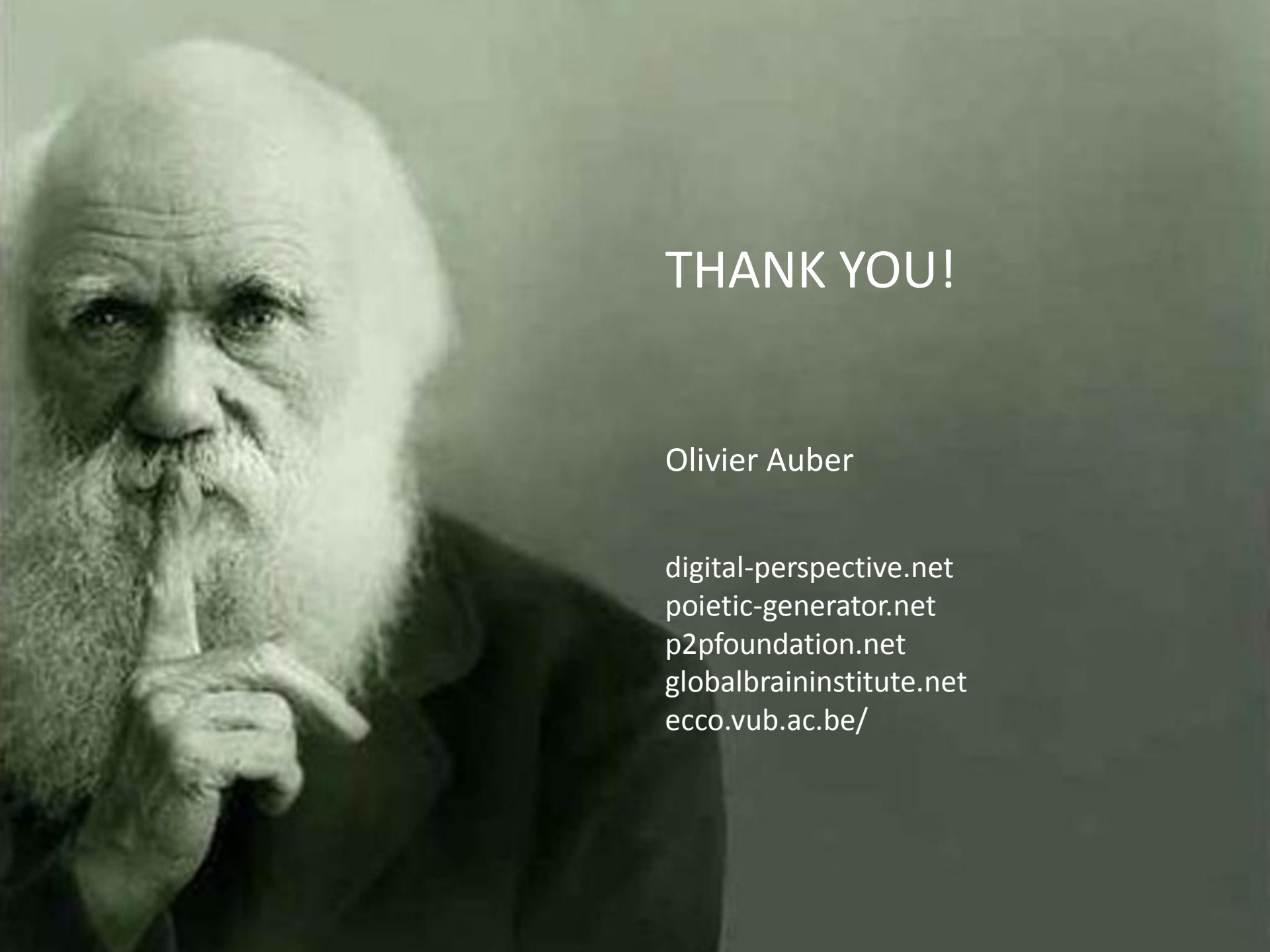
does not even meet criterium A, as it is almost impossible to not trade in Euros within the economic zone defined by this currency.

Bitcoin

does not meet criterium AB because the early adopters are not treated like just any agent A or B

OpenUDC

would meet almost all criteria.



THANK YOU!

Olivier Auber

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p2pfoundation.net
globalbraininstitute.net
ecco.vub.ac.be/