In Pursuit of The Human

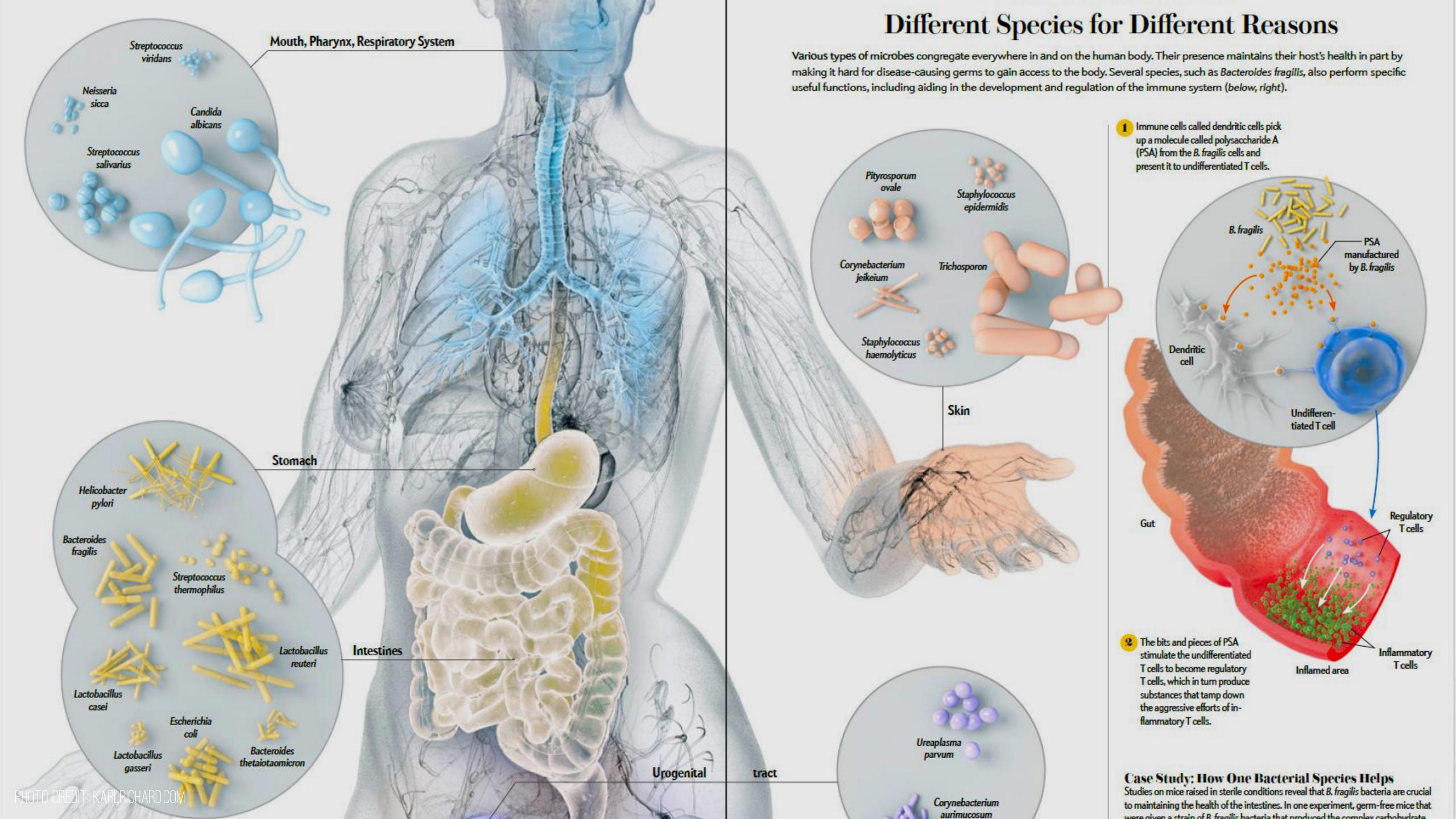
Post Planetary Design Final Presentation Pecha Kucha

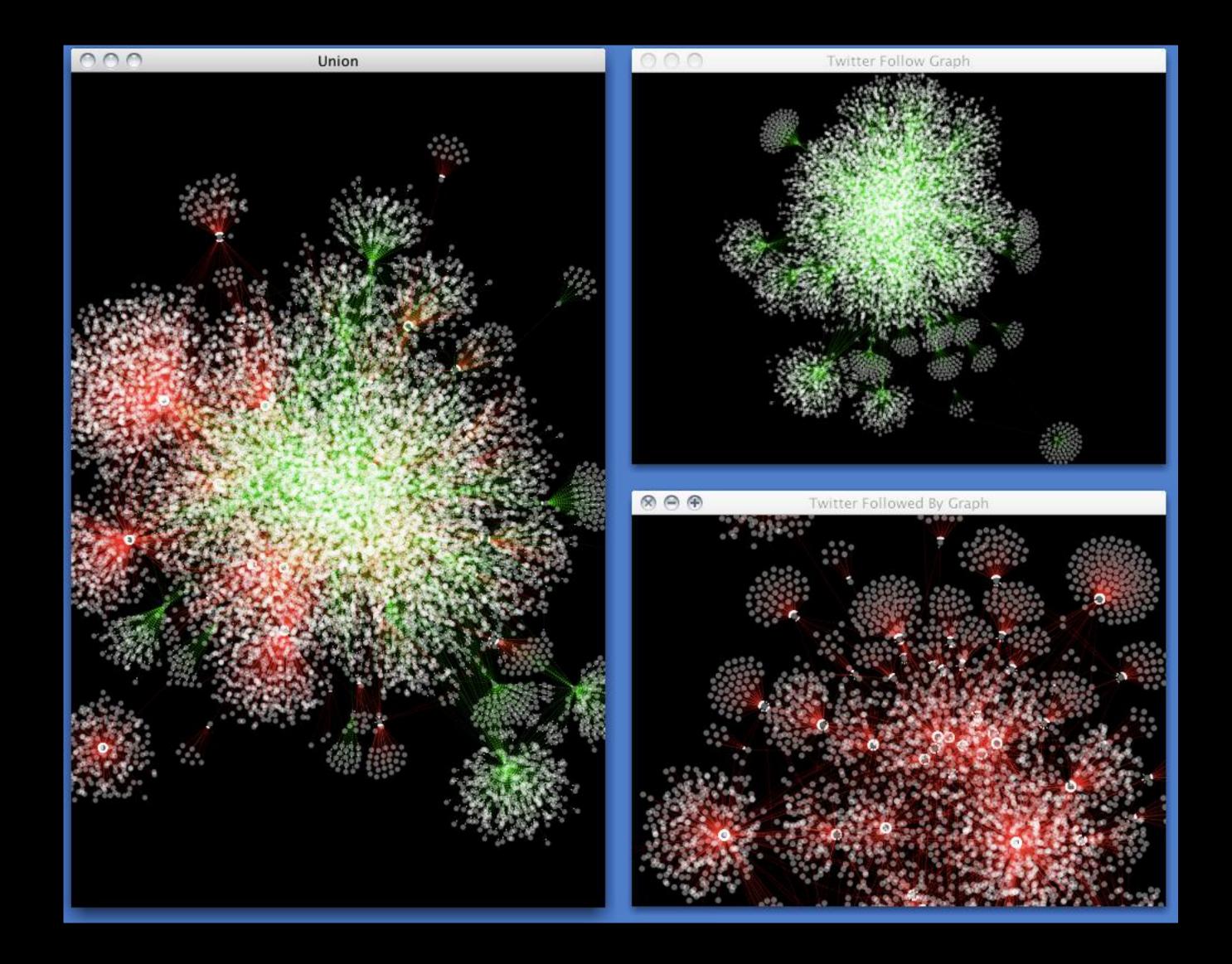
Regina Flores Mir | florr422@newschool.edu | reginafloresmir.com

[STATEMENT OF PROBLEM]

- >> In the future, what human designs should make it off-planet?
- >> What version of the human should we take with us into the vast cosmos?

- >> But what is the human?
- >> Do we fully understand the human?





Ho.lo.bi.ont

adjective

A biomolecular network composed of the host plus its associated microbes, e.g. humans, animals, or plants. As such, their collective genomes forge a "hologenome."





Sergey Nivens/Shutterstock.com

Humans can be identified by the unique 'microbial cloud' that surrounds them

It's made of farts and skin bacteria.

BEC CREW 23 SEP 2015







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Cities have individual microbial signatures

Date. April 19, 2016

Source: American Society for Microbiology

Physical/Tech ▼

Summary: Cities ha

Cities have their own distinct microbial communities but these communities don't vary much between offices located in the same city, according to a new study. The work offers insight into what drives the composition of microbes in built environments.

Society/Education ▼

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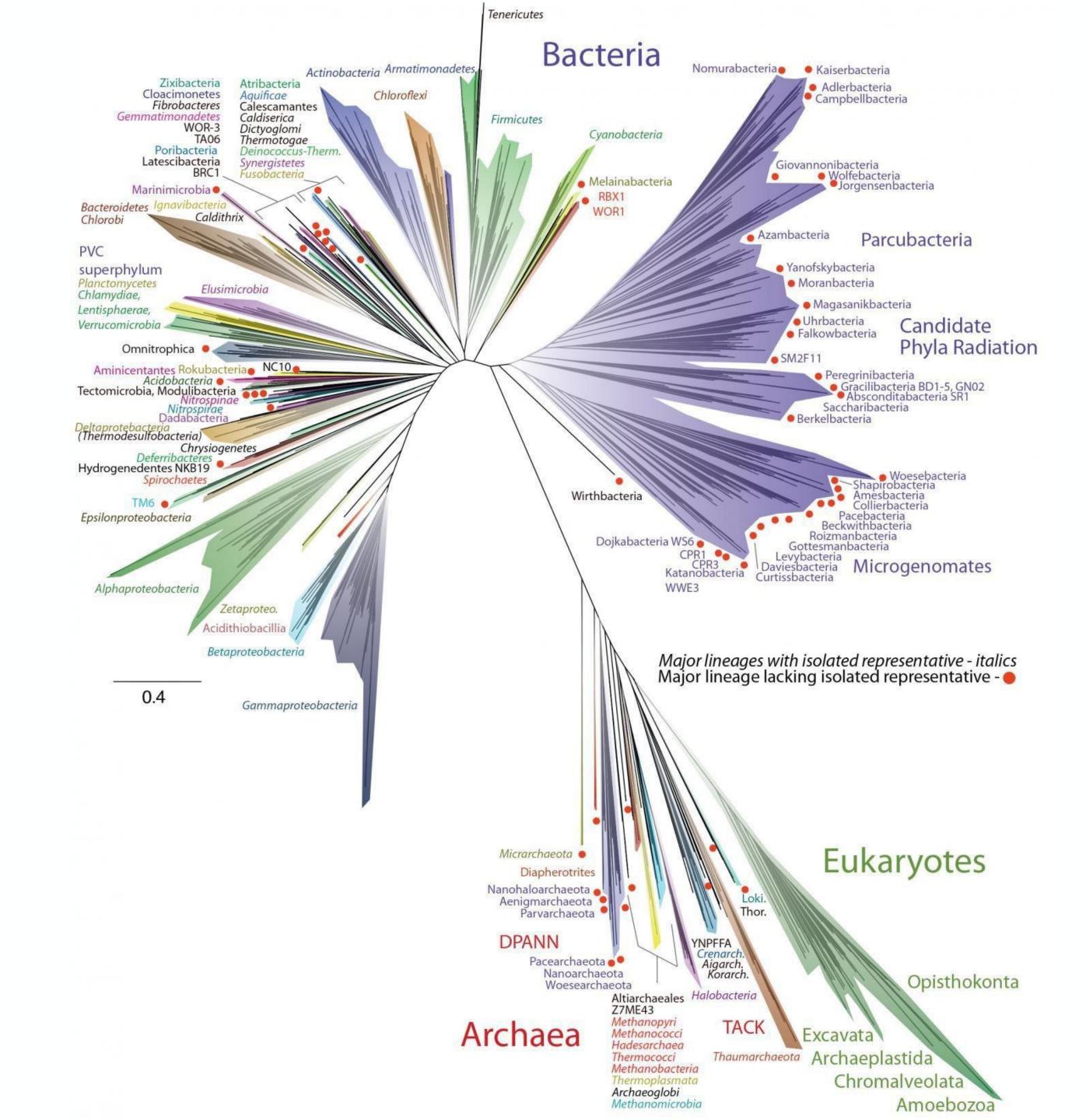
Dec. 15, 2014 — In the first study of hair microbiota for forensics, researchers found in their preliminary results

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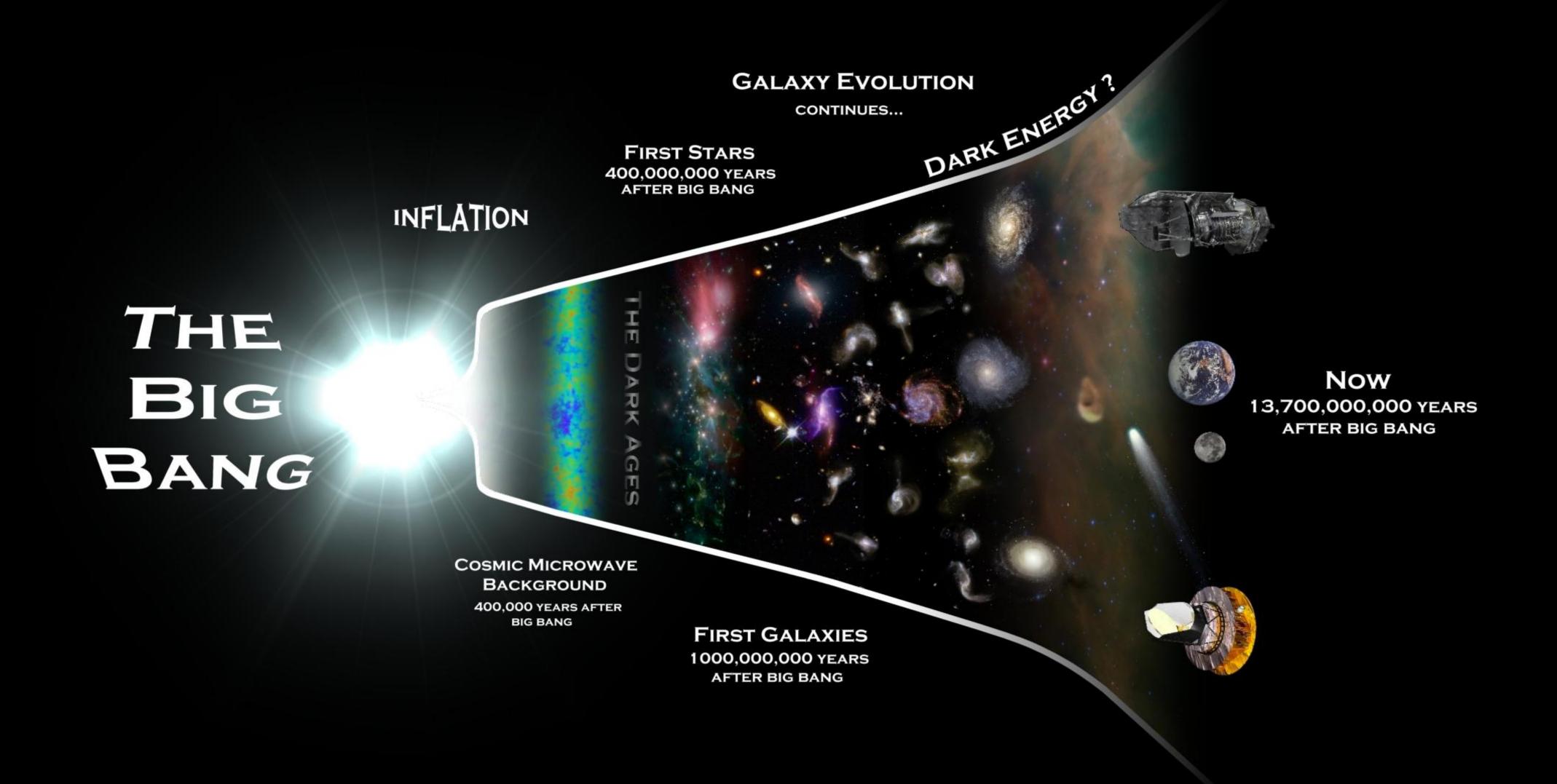
Scientists Unveil New 'Tree of Life'



"The results [of this new tree] reveal the dominance of bacterial diversification..."



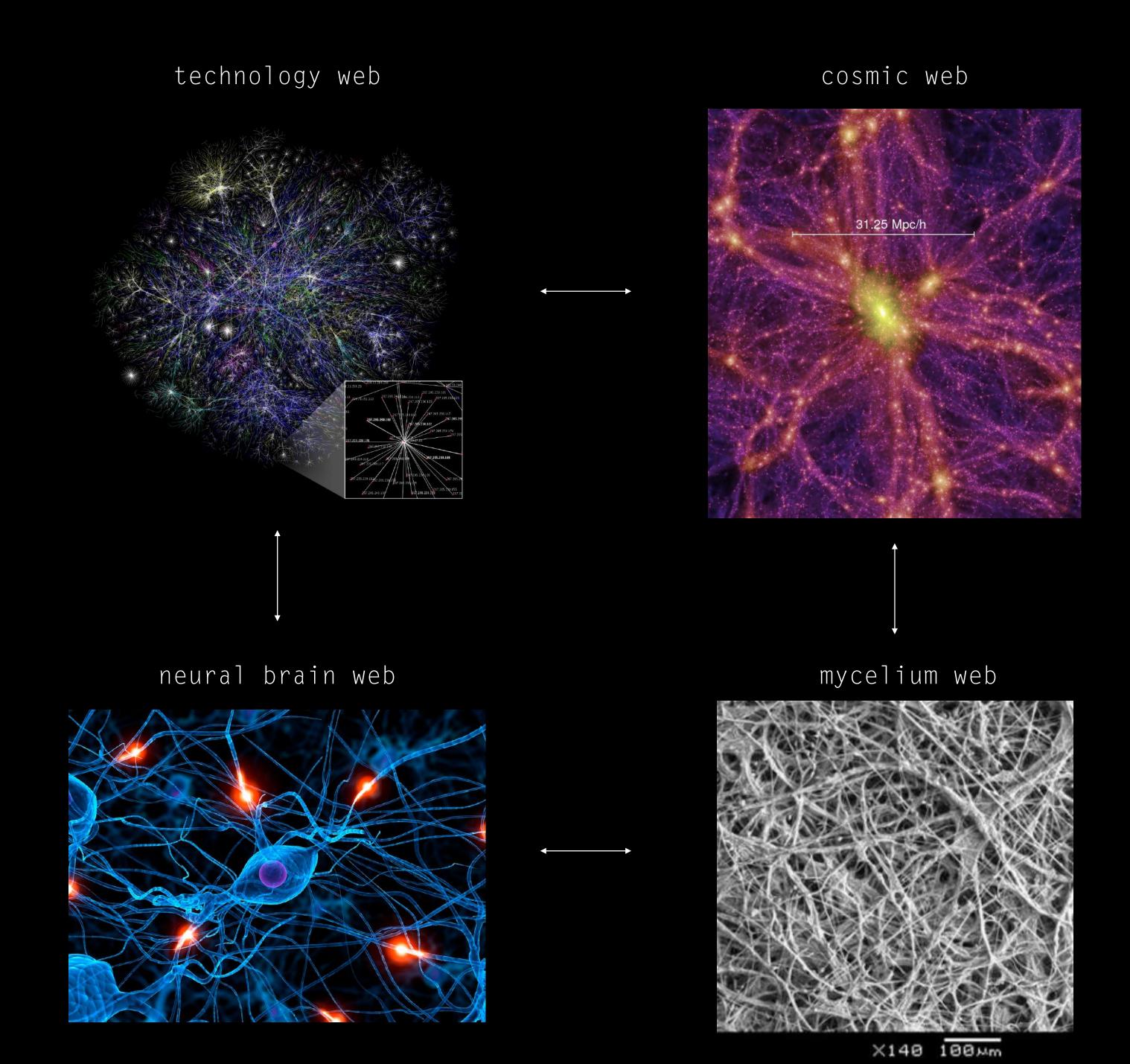
[THINKING ACROSS SCALES]



FORMATION OF THE SOLAR SYSTEM 8,700,000,000 YEARS AFTER BIG BANG



>> Are there isomorphisms across vast scales that have implications on what the human is?

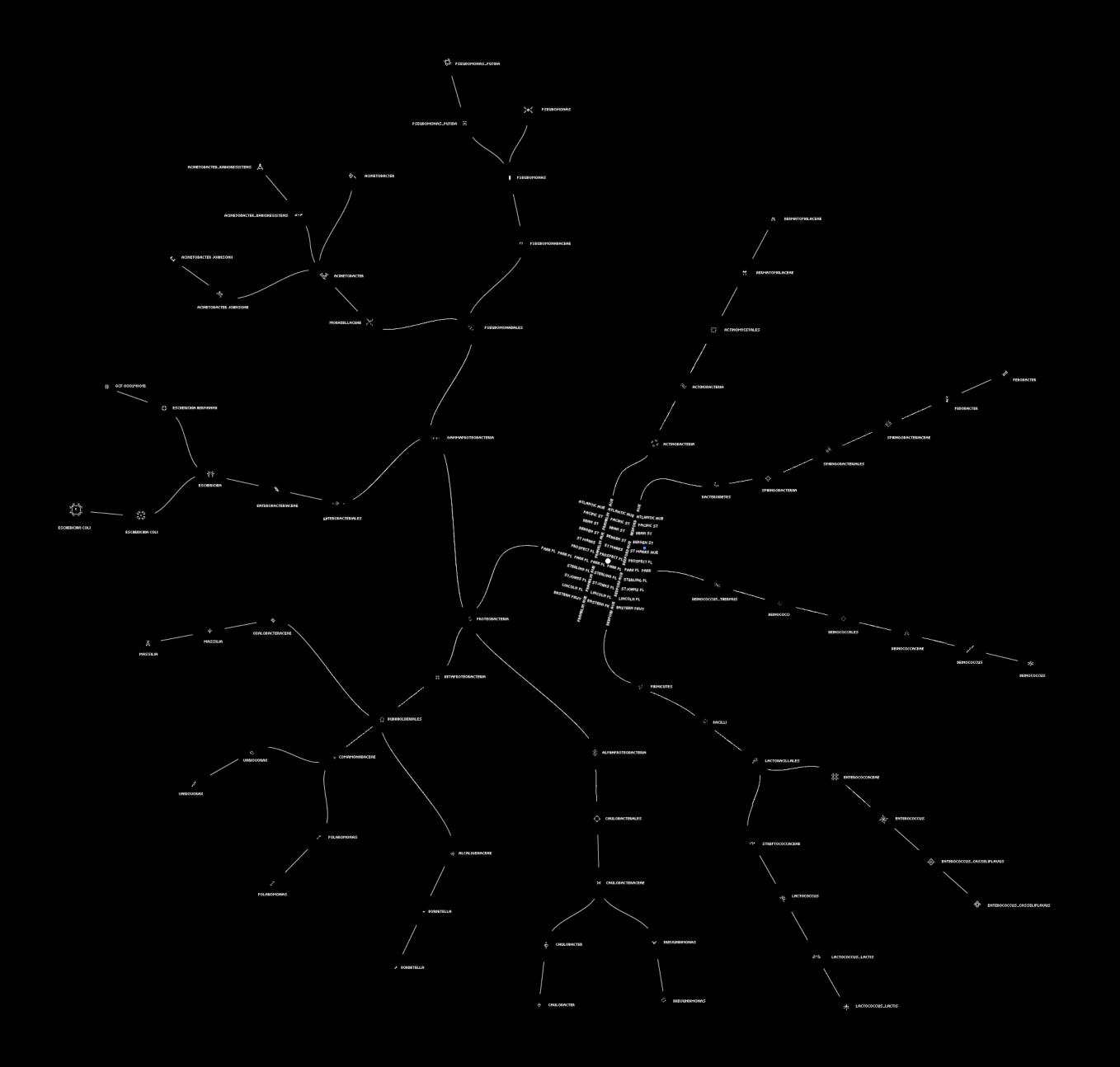


"The rise of mathematical theories of communication in the middle of the 20th century made possible the emergence of planetary scale cyber infrastructure across the scale of whole continents. With the discovery of DNA we began to understand that life itself is informational. We haven't fully grasped the implications. With the Deep Address initiative, we are ... thinking across such scales at once, from the intercontinental and the intercellular, if you like. Universal addressing platforms, like IPv6, are one way that the real movement of information between scales can be conceptualized and diagrammed."

-Benjamin Bratton

DEEP ADDRESS

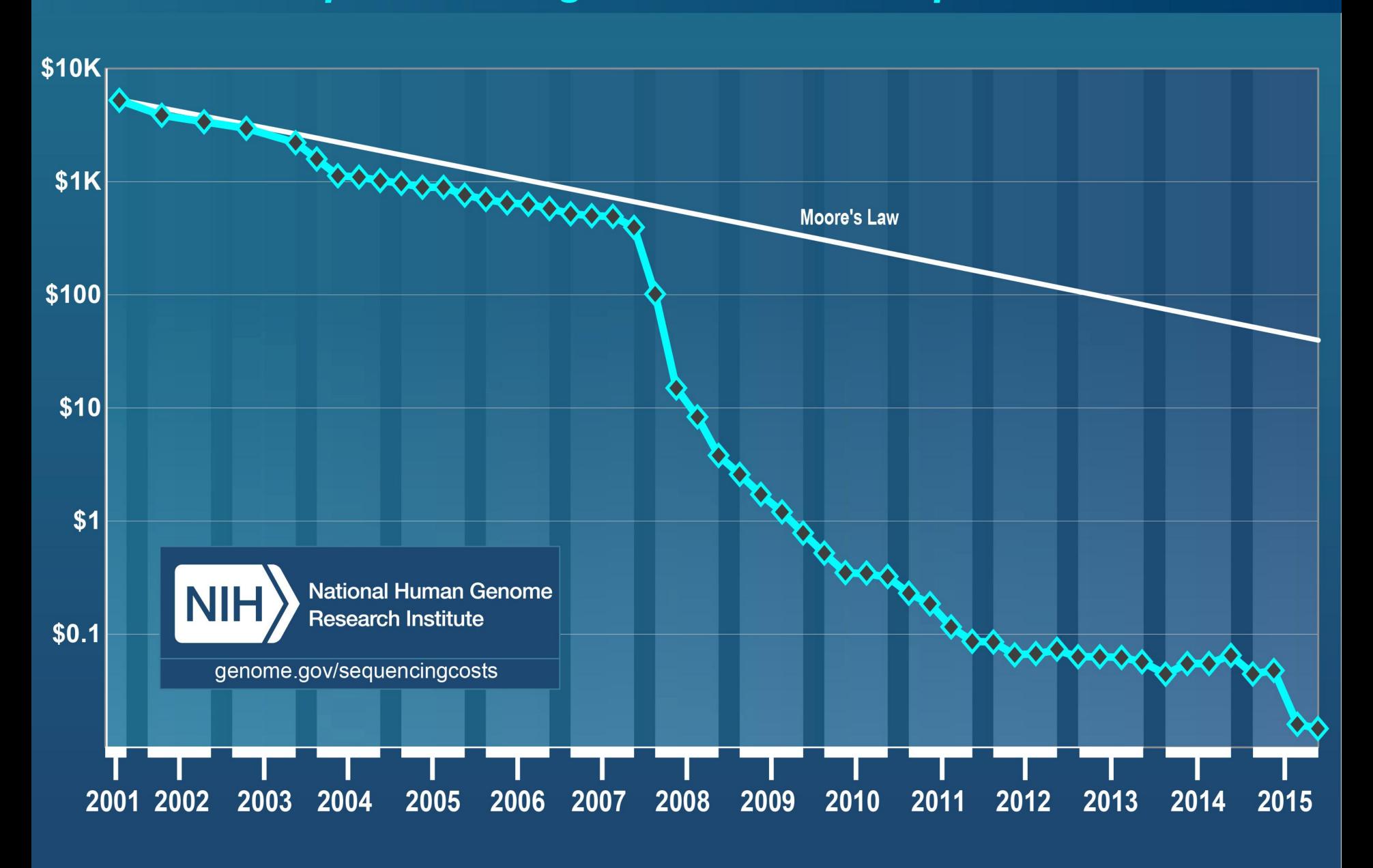
>> Are our own technologies metaphors to help us understand morphology across scales, "from star, to planet, to crystal to microbe"? Are are they actual maps?

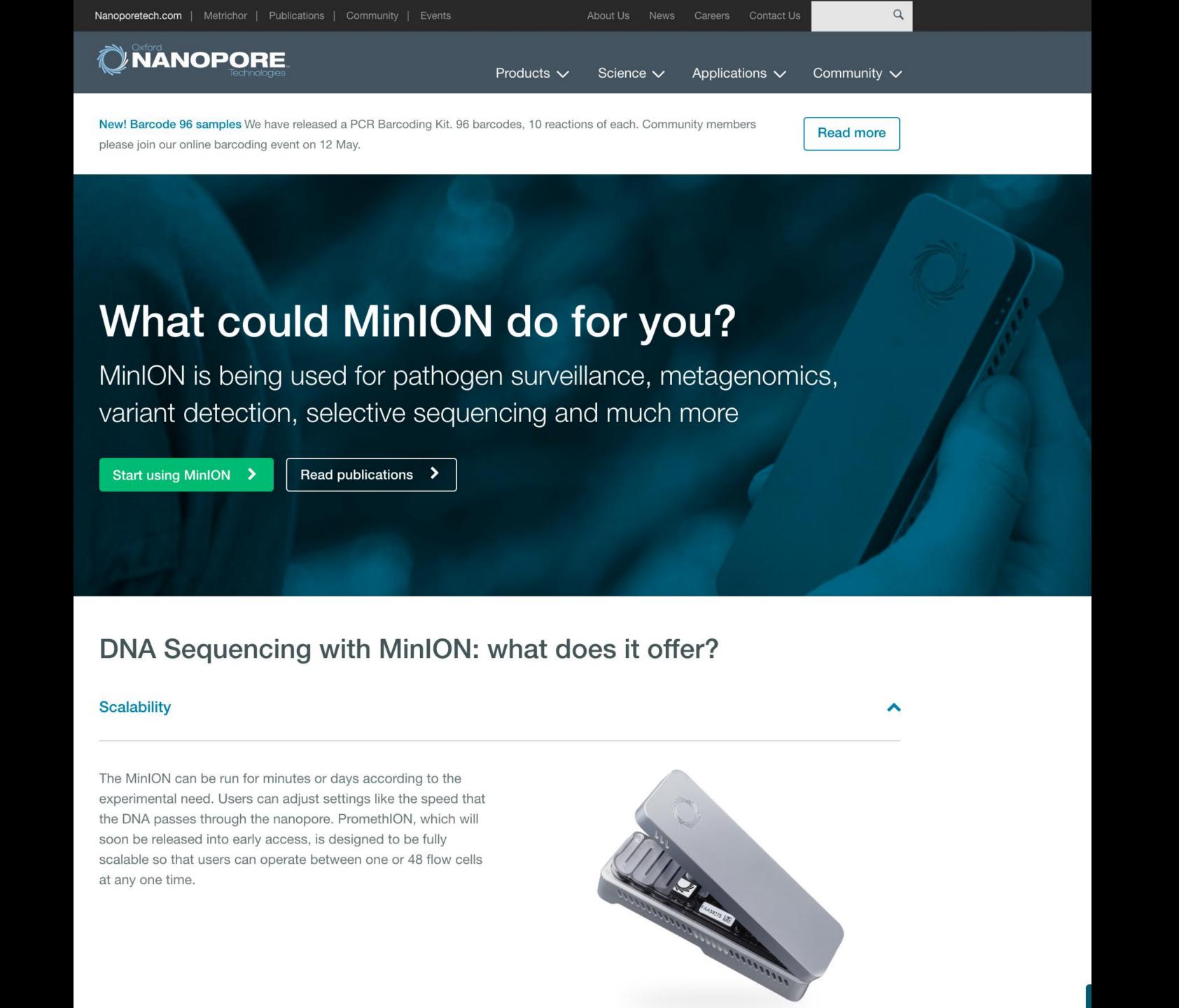


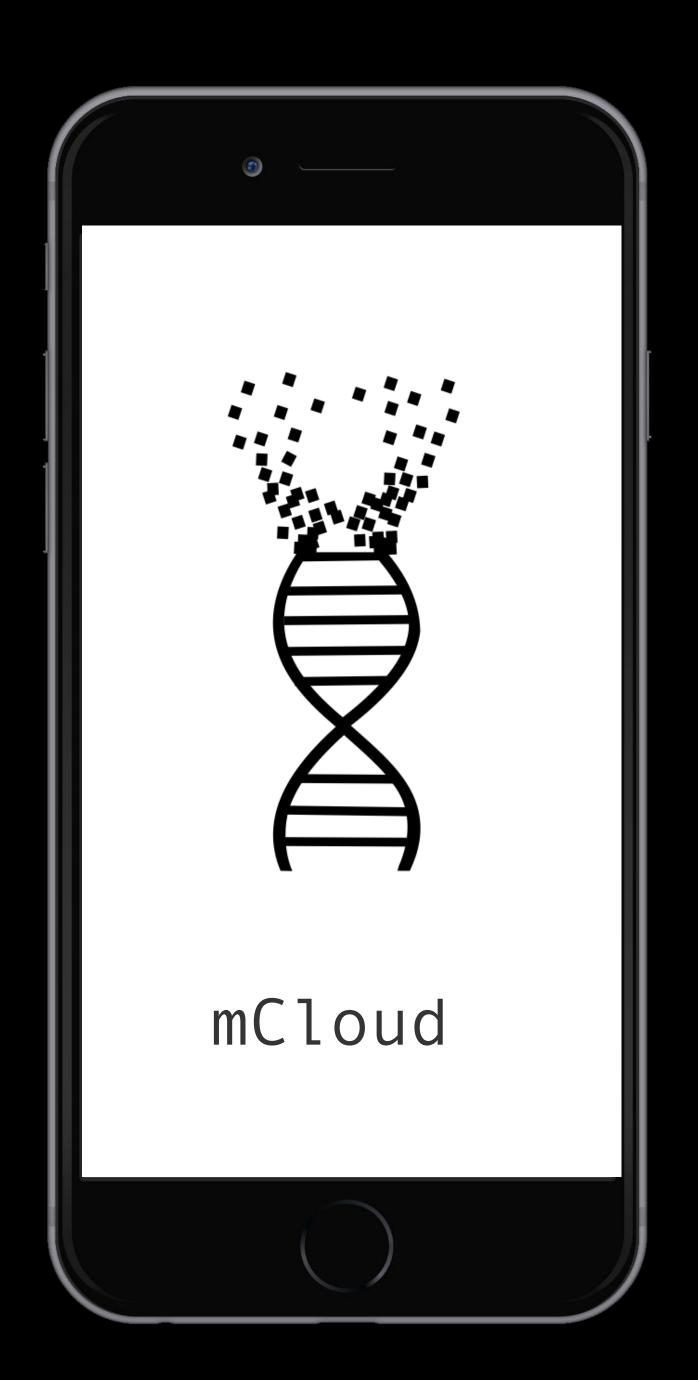
Phylogenetic Map of Fort Greene, Brooklyn

[KNOW THYSELF]

Cost per Raw Megabase of DNA Sequence







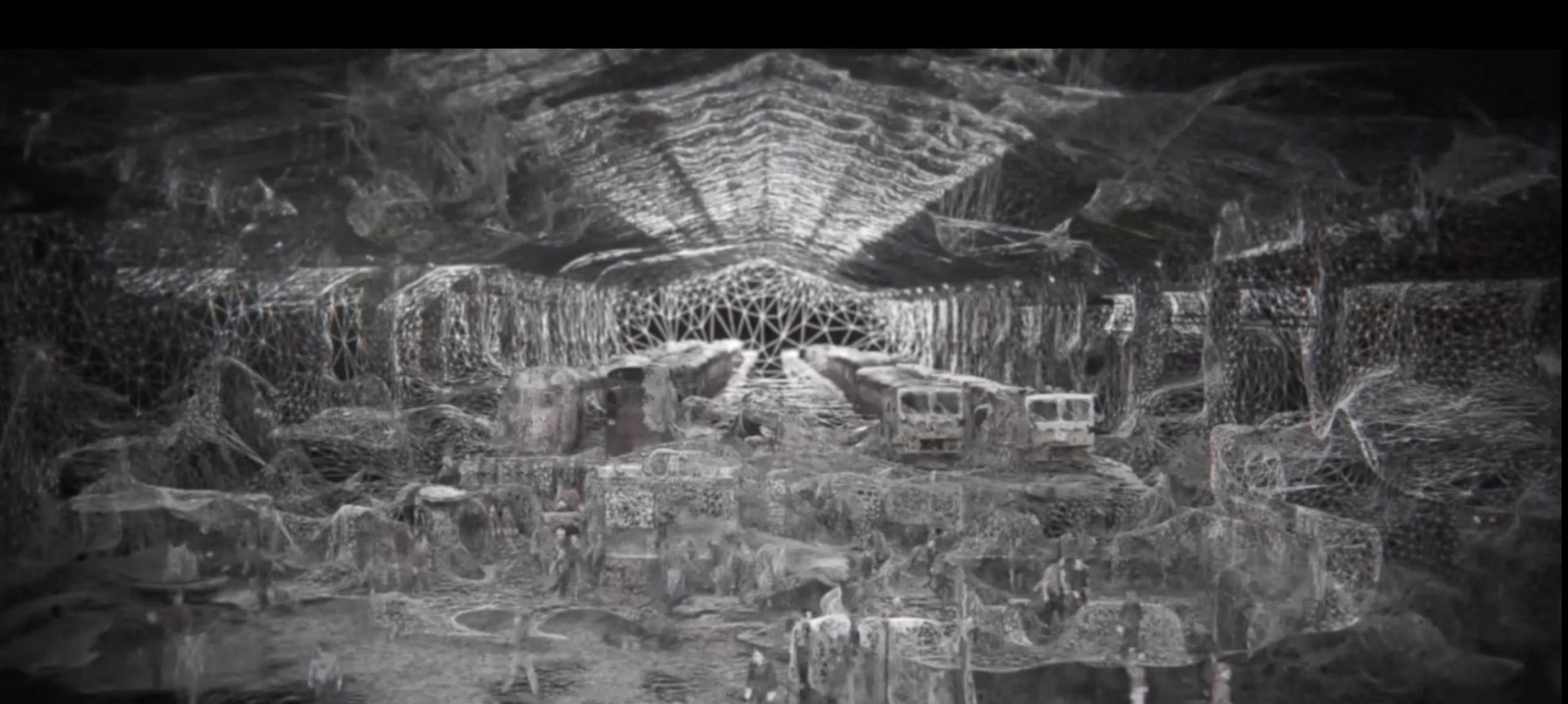
An application for human identification using airborne microbial cloud readings.

- >> Embedded microbe sensor
- >> Using Nanopore Technology for on-the-fly DNA sequencing

>> Once aware of the companion species that live among us in our environment, on us, and in us, might we begin to review what it means to be human?



..but as complex and adaptive, biological superstructures.



Before we go off planet...

Humans will need to become highly evolved; to be conscious should become synonymous with the understanding that humans are fundamentally connected to each other, to the planet Earth, and to the cosmosbiologically and energetically (Big Bang). We must recognize that the isomorphisms found in nature across scales are the keys to unlock the mysteries of our own existence. We will need to see that the planetary flora web, the mycelium-like patterns in the information architecture of the Internet, the matrices that define string theory, machine learning mathematical models, the dark matter suffusing the cosmos, are all evidence of an evolutionary "information system" governing reality itself. Humans must recognize that we are, like a fractal, embedded in a never ending repeating pattern of information flow—an 'Internet of Energy' (IoE). We must understand that we are but a node in the vast planetary, universal, mesh-network that makes up our cosmological ecology. This is what it means to be human.

THANK YOU