2019 NASA Biodiversity and Ecological Forecasting Team Meeting
Hyatt Regency Crystal City, Arlington, VA

Networking a Rescue

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Last Year's Meeting Asked: What Is Our Commitment?

- Understanding and Saving Life on Earth
  - Biological Diversity Program (more Understanding)
  - Ecological Forecasting Program (more Saving)

How's That Going? Rescue Needed.

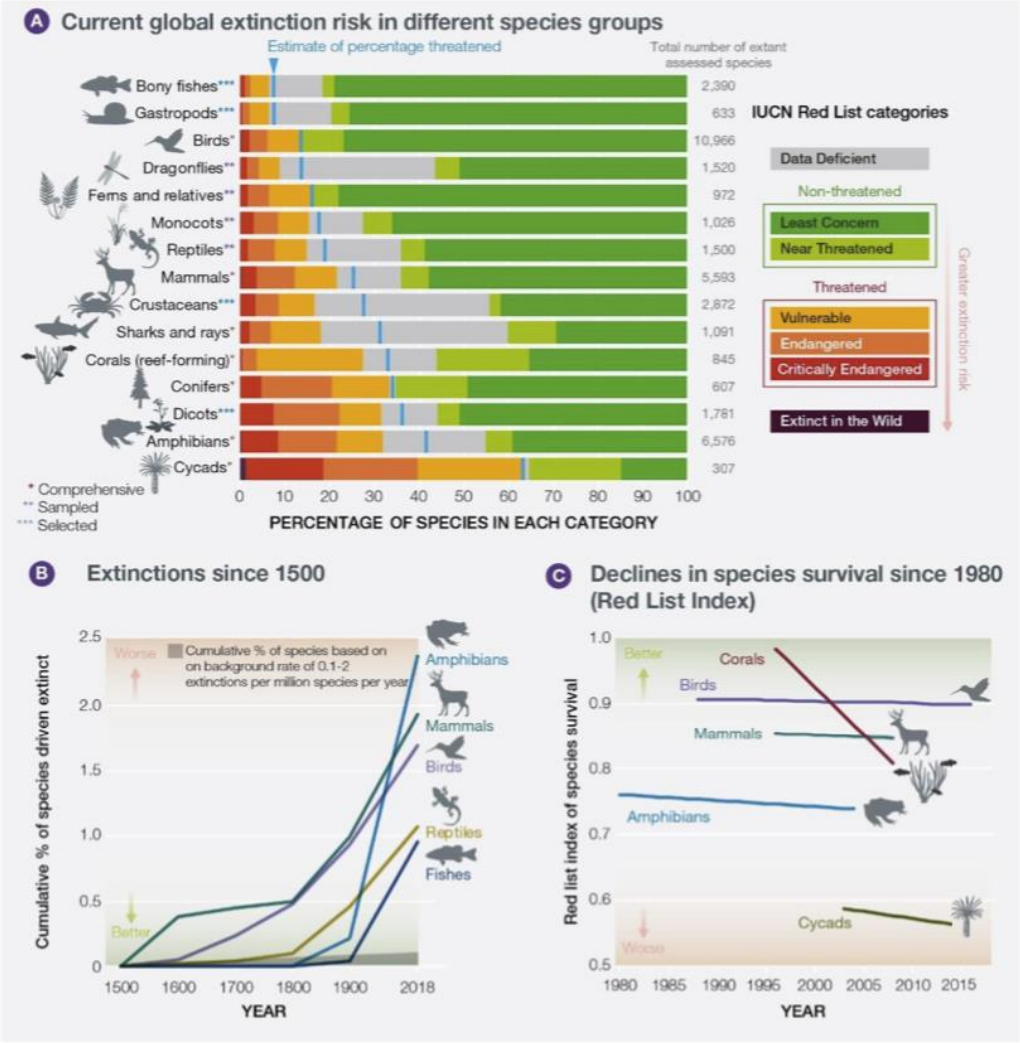
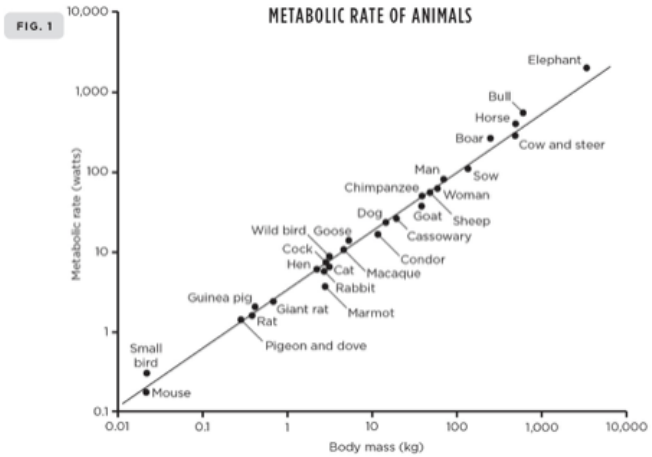
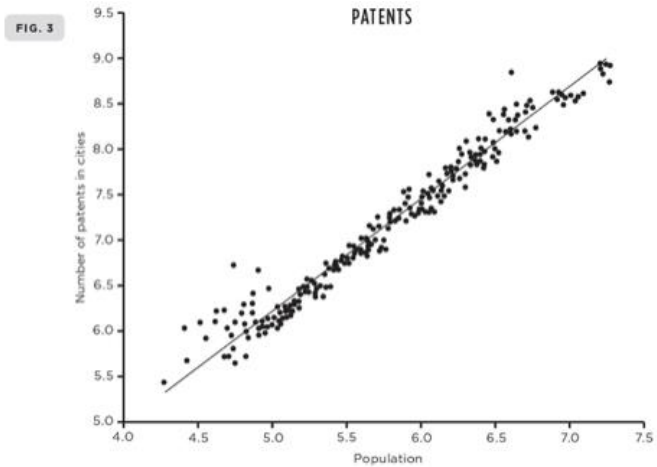
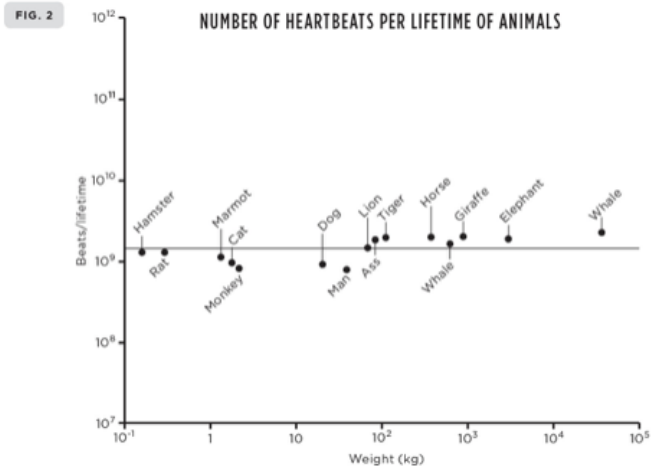


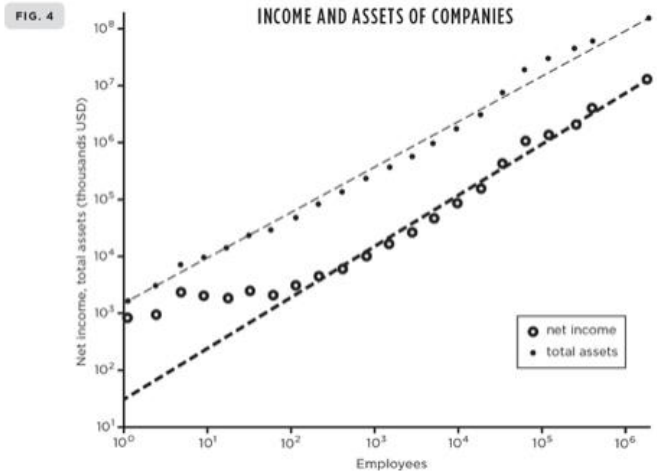
Figure 3 in Summary for Policymakers of IPBES Global Assessment of Biodiversity and Ecosystem Services (2019)

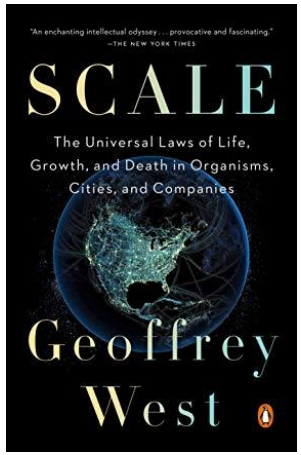
The Physics of Biology = The Importance of Networks







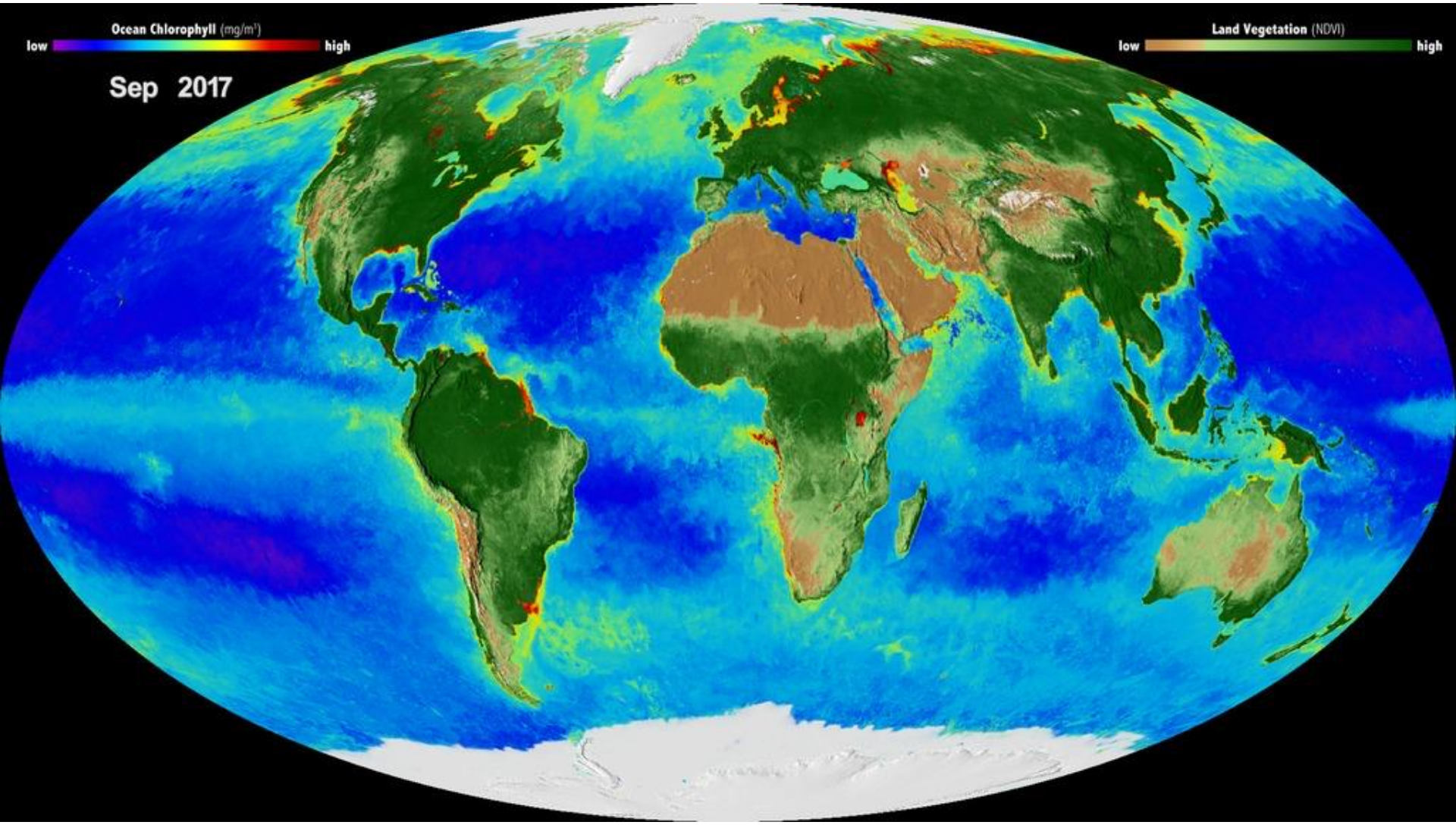




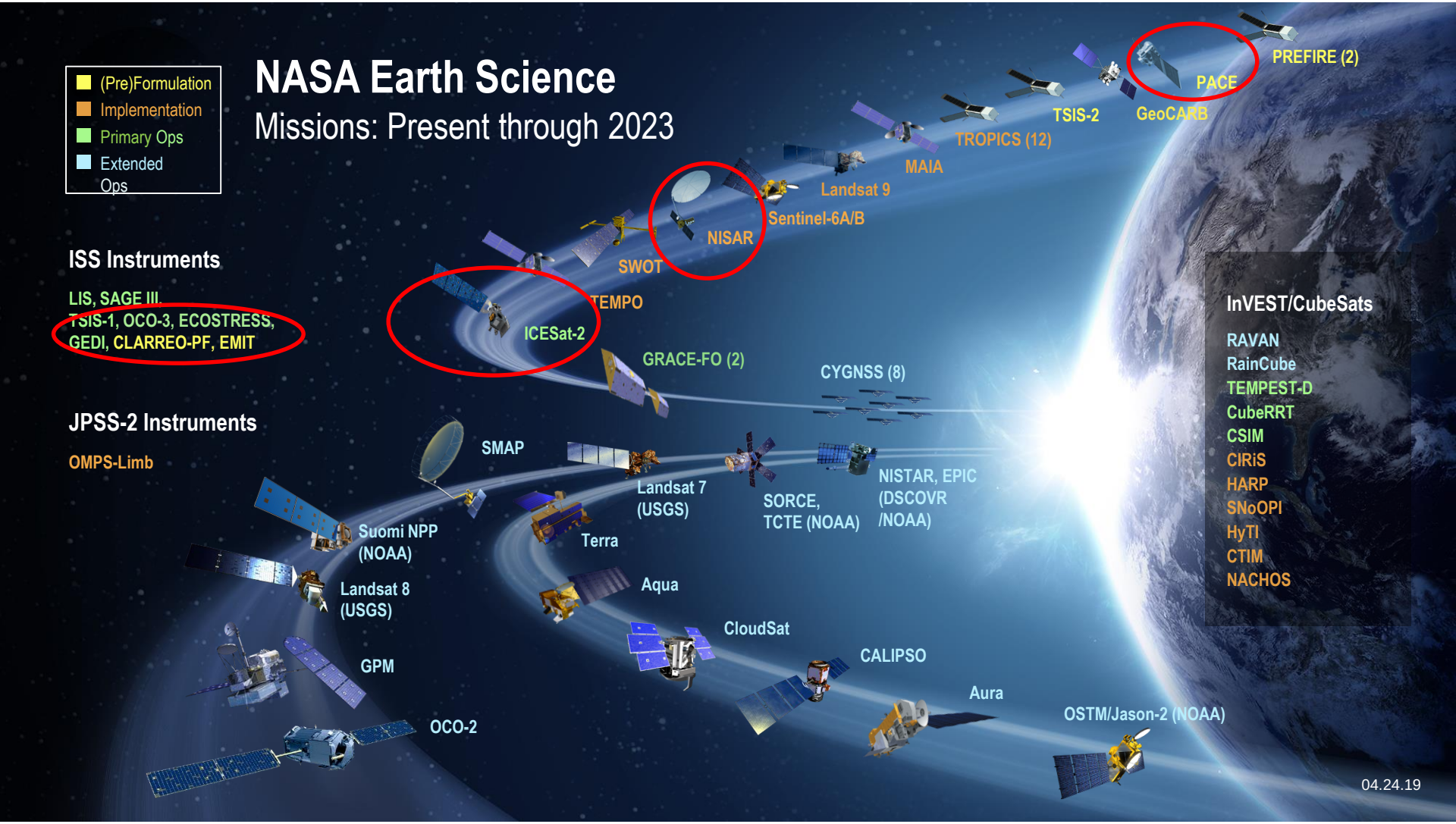
(from *Scale: The Universal Laws of Life, Growth, and Death in Organisms, Cities, and Companies* (2017) Geoffrey West)

You Are Your Networks!

Monitoring of Nature to Present Day



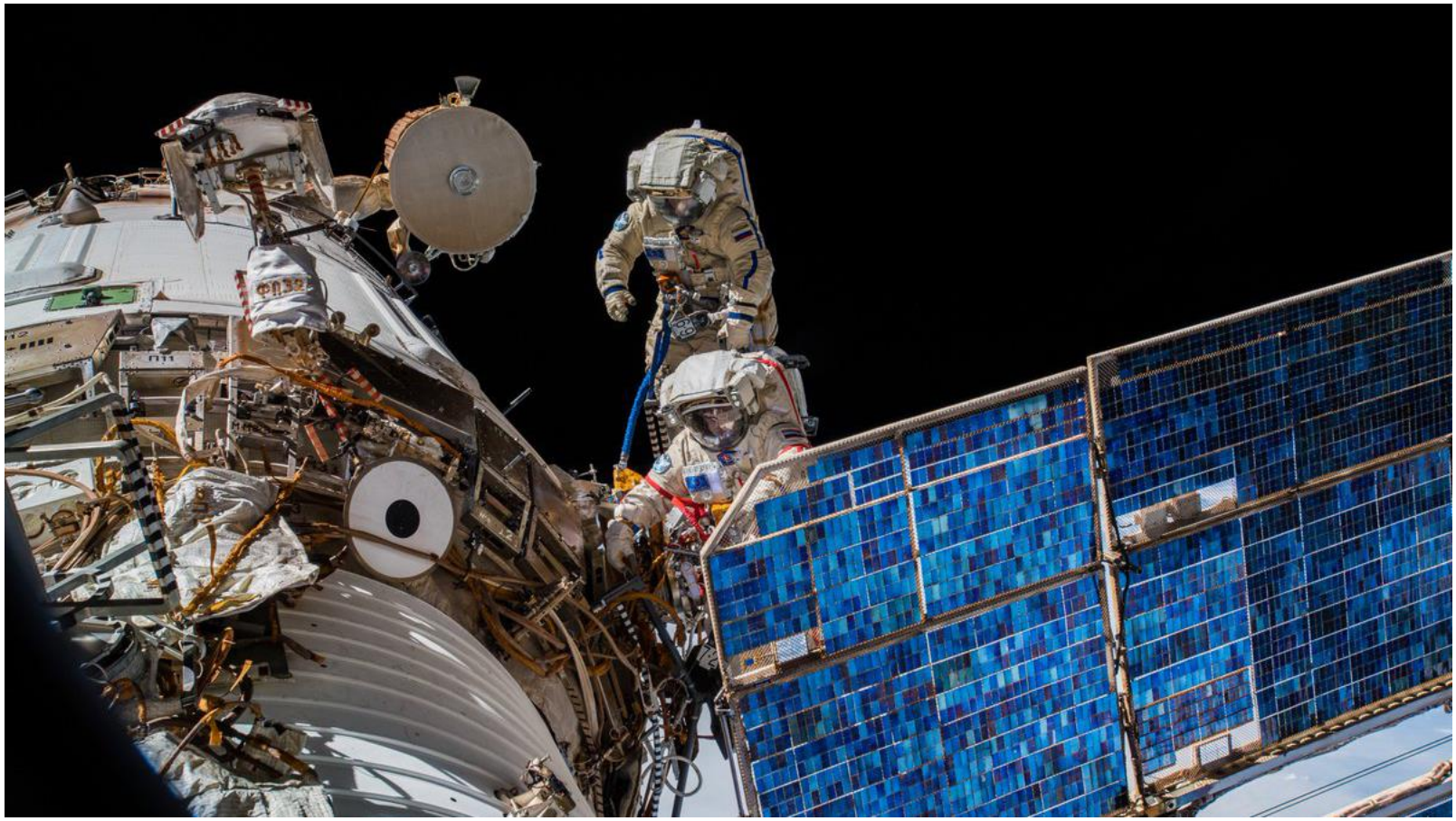
Not Necessarily a Network—but Potentially



Also Decadal Survey Designated Observables: SBG, A-CCP!

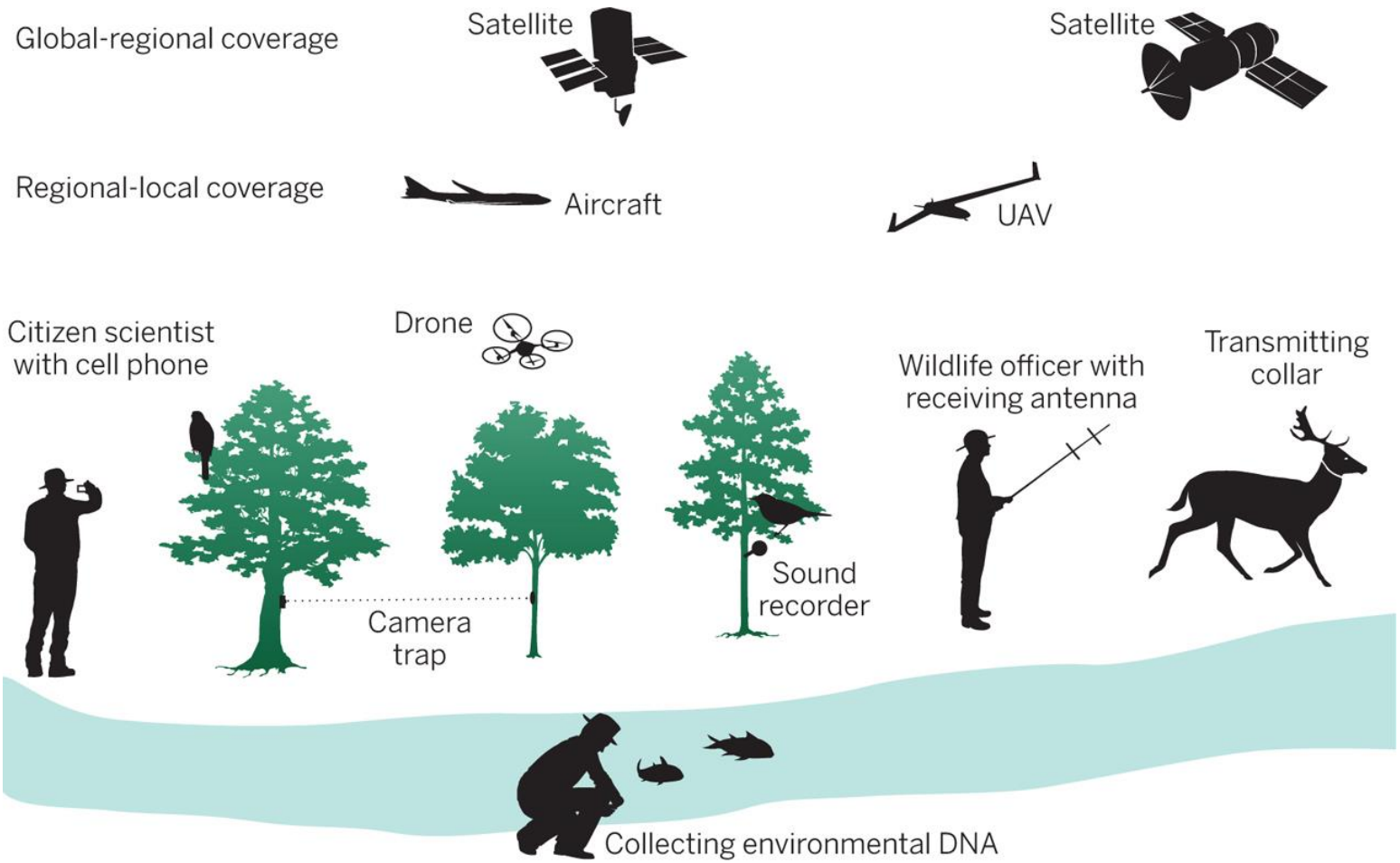
All Hail ICARUS!

(International Cooperation for Animal Research Using Space)



(from: https://www.dlr.de/dlr/en/desktopdefault.aspx/tabid-10081/151_read-29366/#/gallery/31793)

Network: An Ecosystem of Observations



(*Science* 346:301-302, 10/17/14)

Another Type of Network (Perhaps the Most Important of All)

“The Earth is the only world known so far to harbor life. There is nowhere else, at least in the near future, to which our species could migrate. Visit, yes. Settle, not yet. Like it or not, for the moment the Earth is where we make our stand.”

Carl Sagan, *Pale Blue Dot*, 1994

Thank You