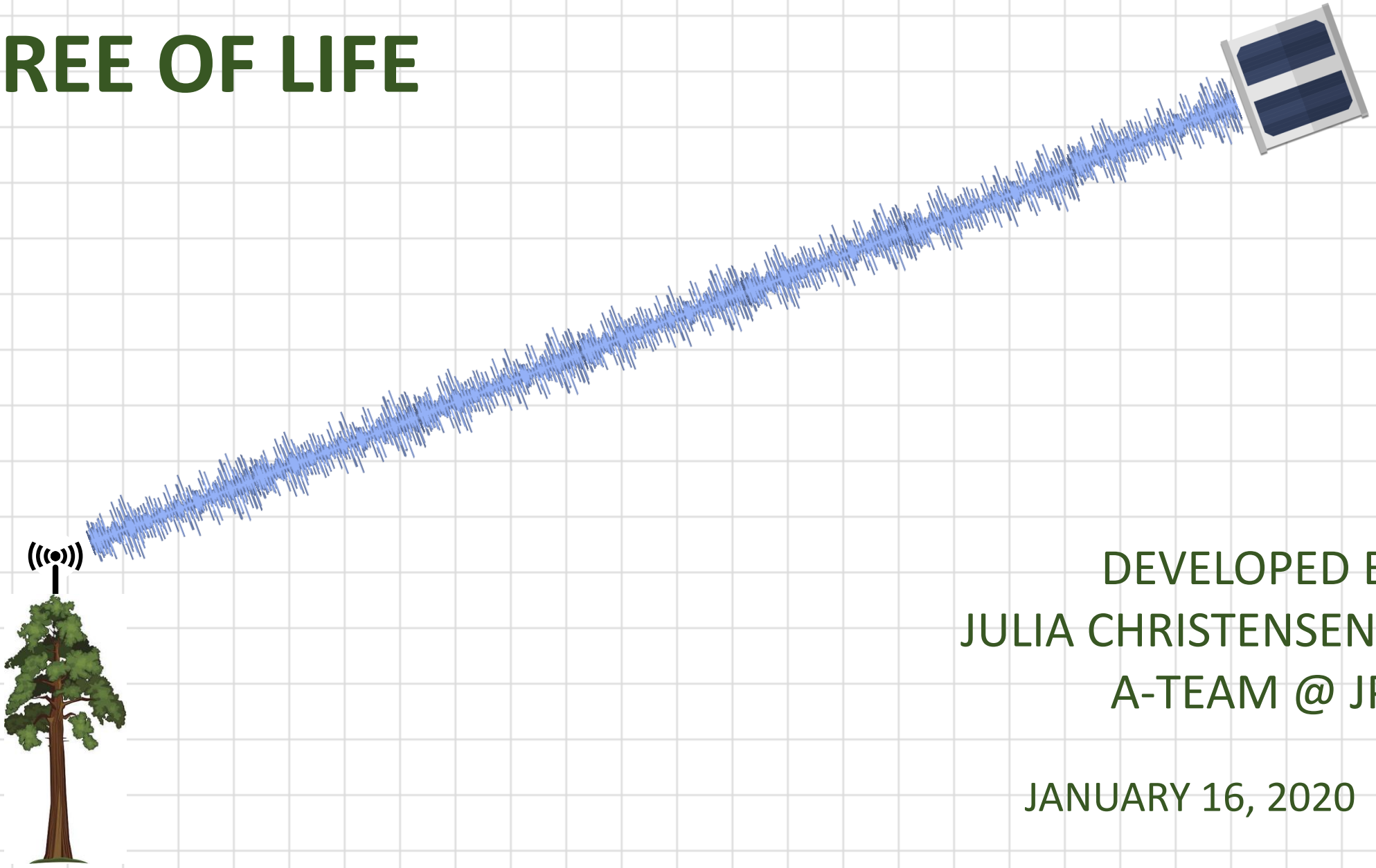
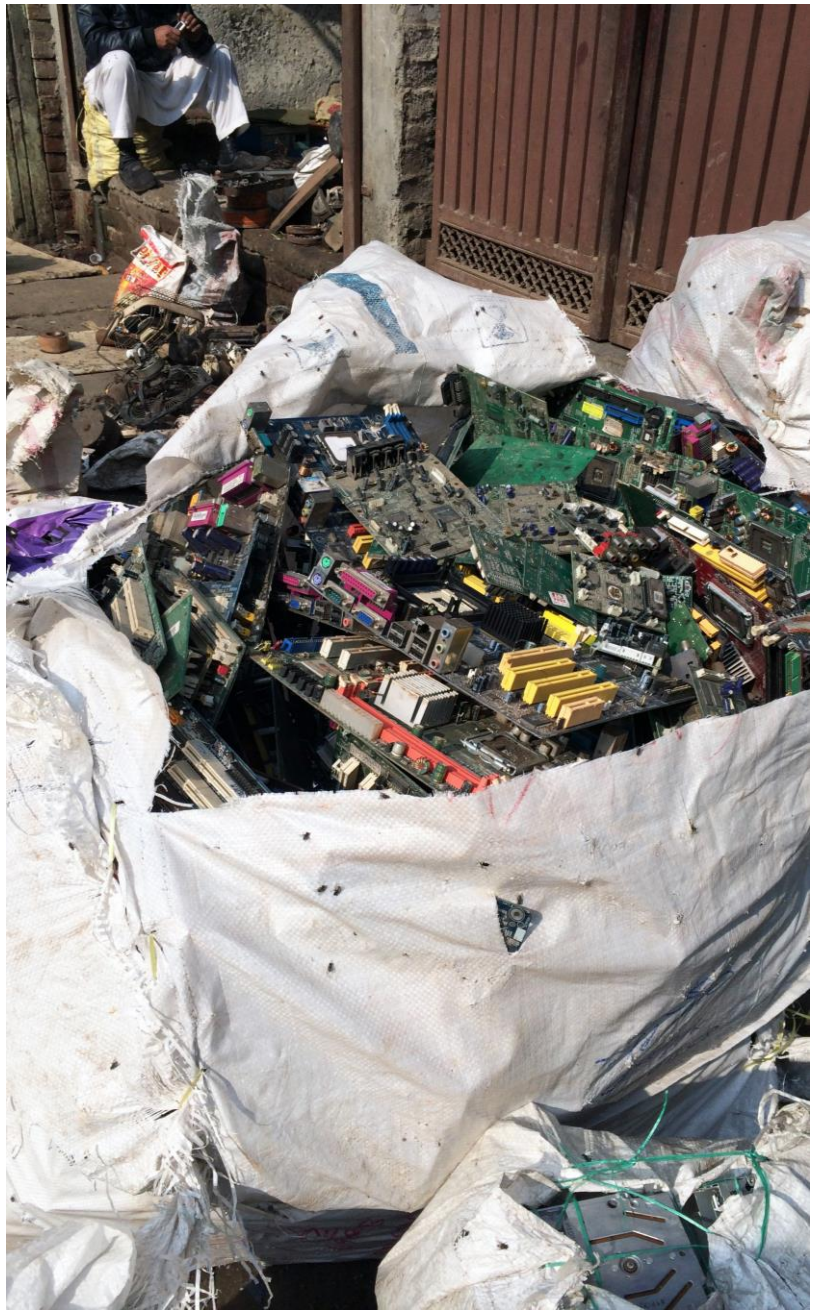
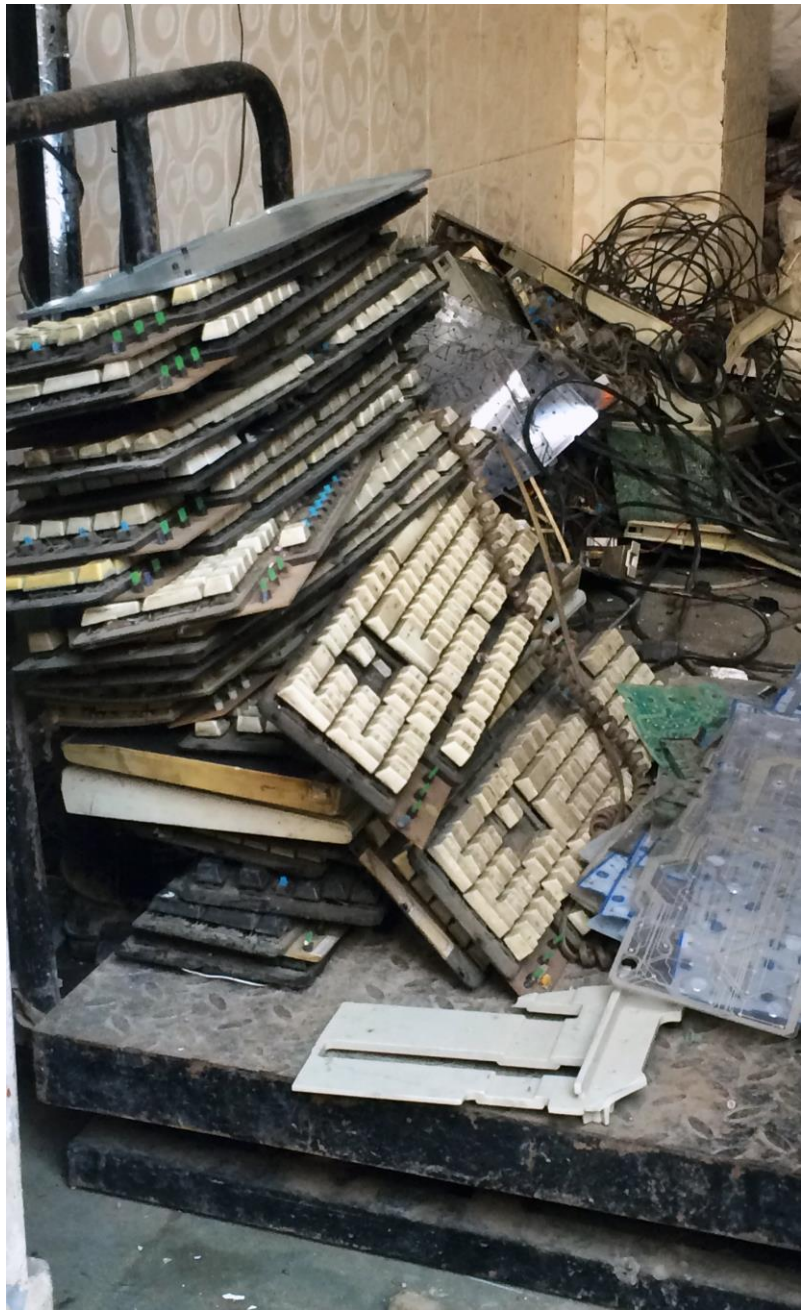
TREE OF LIFE



DEVELOPED BY
JULIA CHRISTENSEN +
A-TEAM @ JPL

JANUARY 16, 2020



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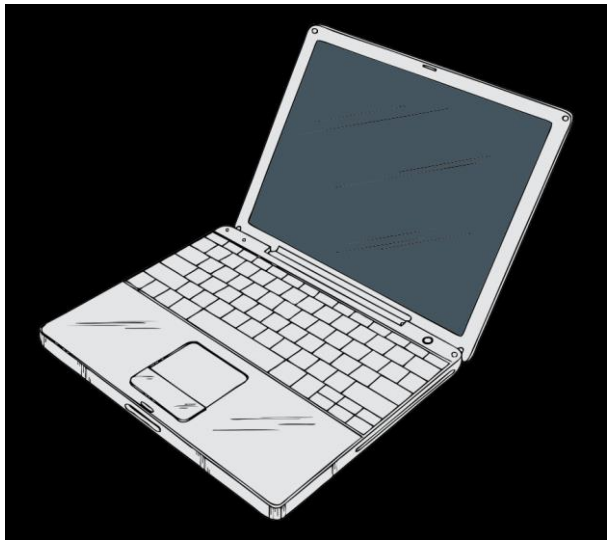
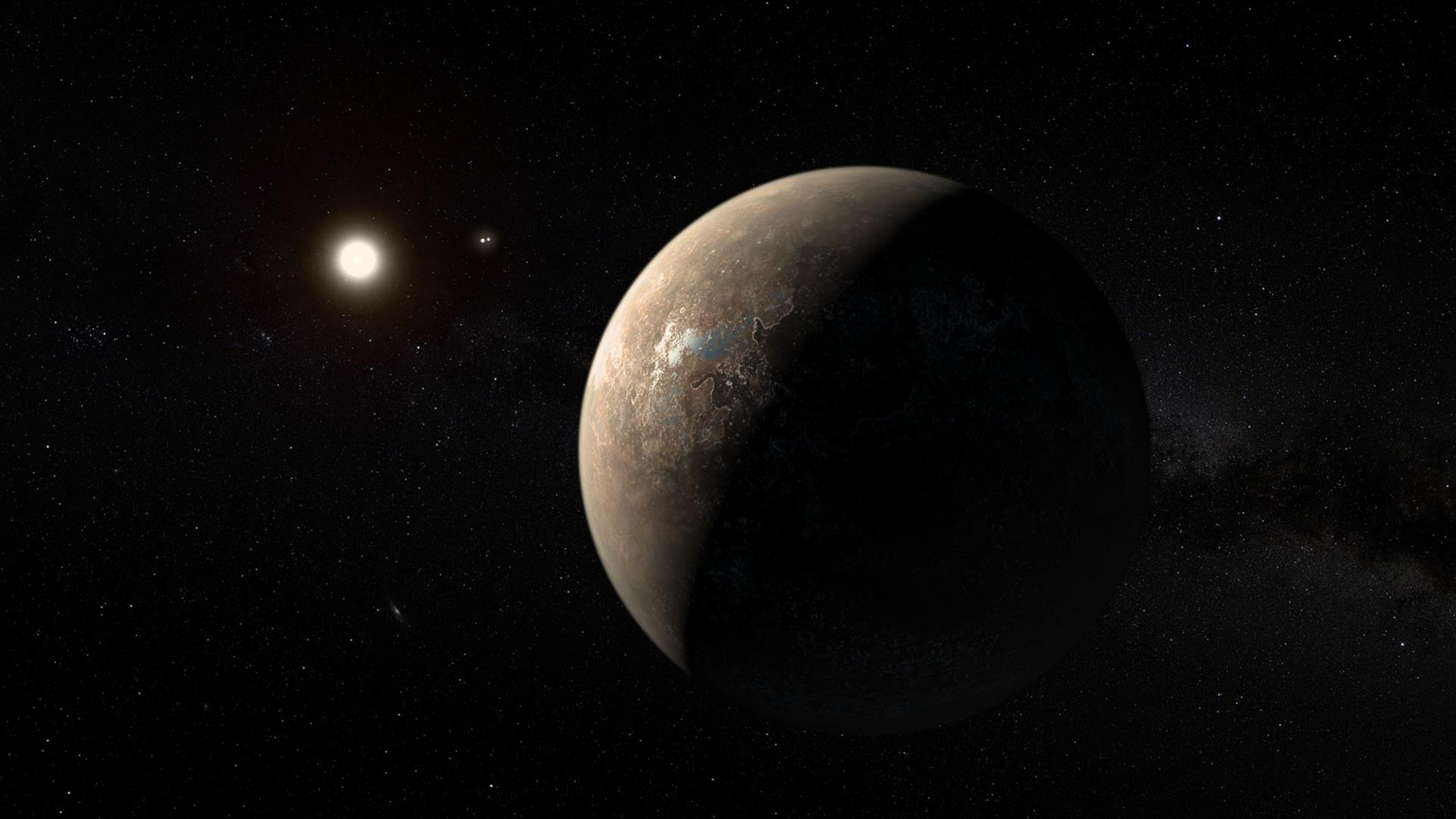
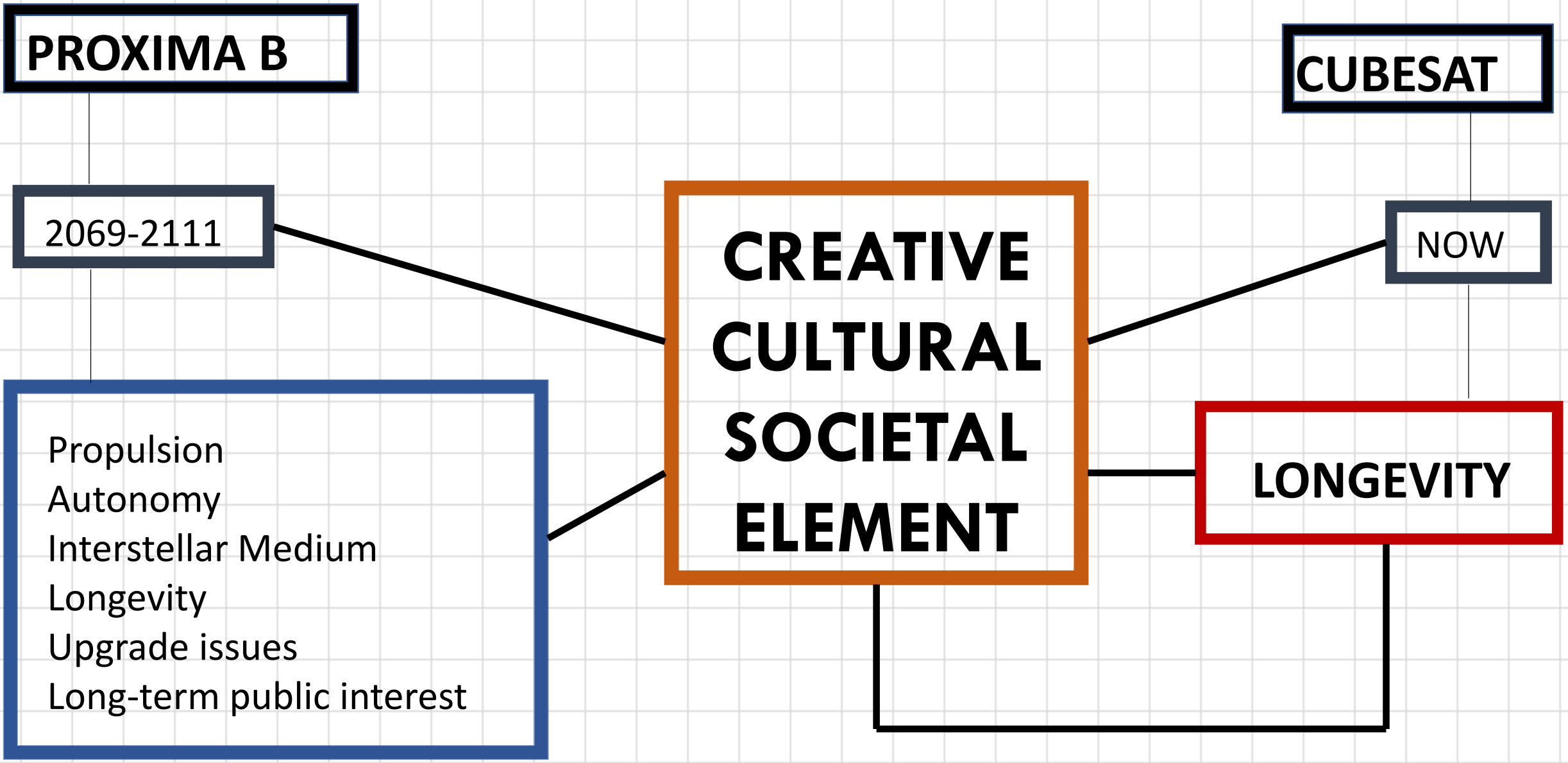



9:41 AM
100%
Messages
Calendar
Photos
Camera
Weather
Clock
Maps
Videos
Wallet
Notes
Reminders
Stocks
iTunes Store
App Store
iBooks
Health
Settings
Phone
Safari
Mail
Music




EXIT


PROXIMA B
2069-2111
Propulsion
Autonomy
Interstellar Medium
Longevity
Upgrade issues
Long-term public interest
CREATIVE
CULTURAL
SOCIETAL
ELEMENT
CUBESAT
NOW
LONGEVITY

MOVING MEANING INTO THE FUTURE IS DIFFERENT THAN MOVING DATA

1. Bristelcone Pine,
California, USA
5,067 years old

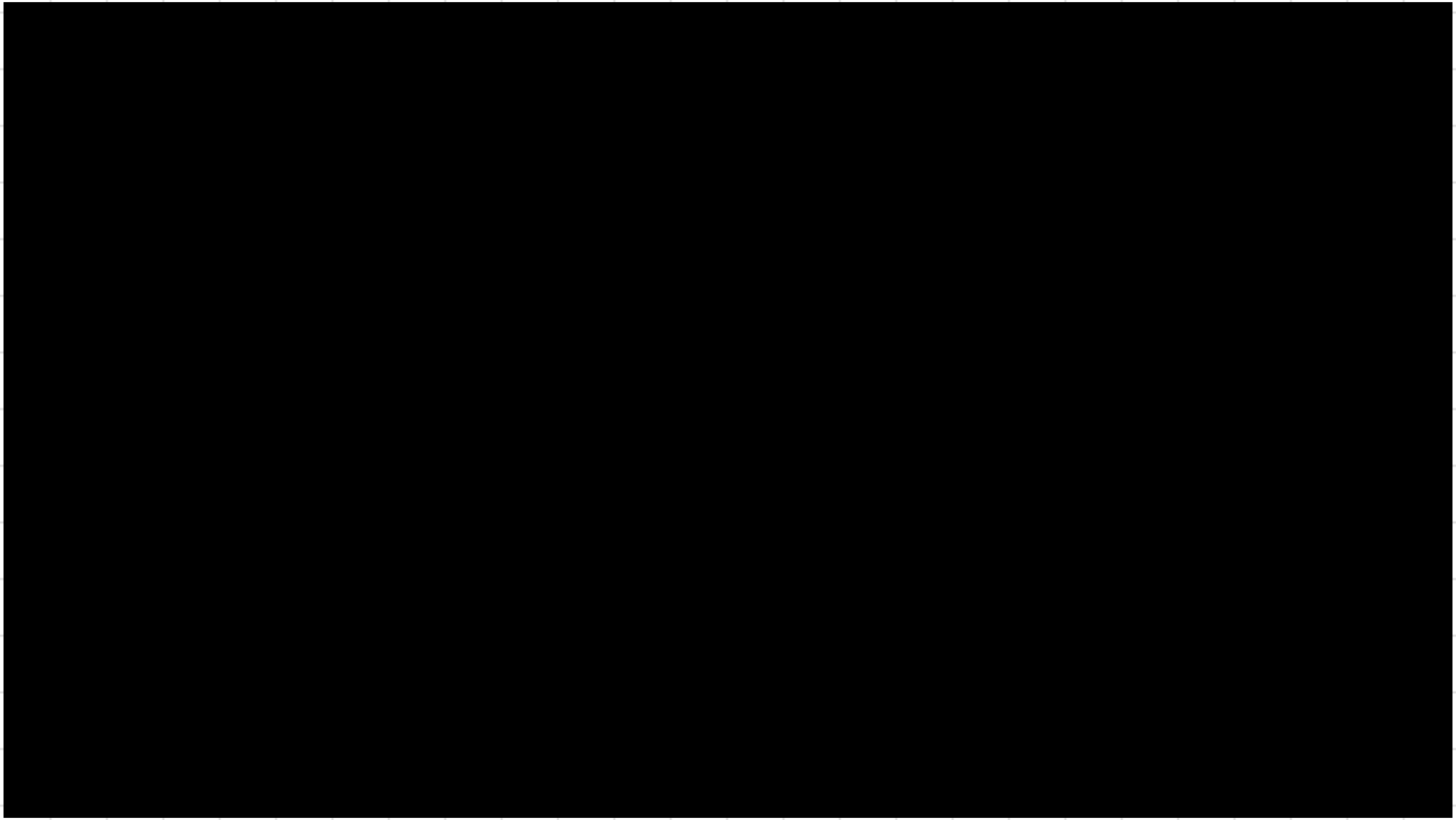
2. Methesula,
Bristlecone Pine,
California, USA
4,849 years old

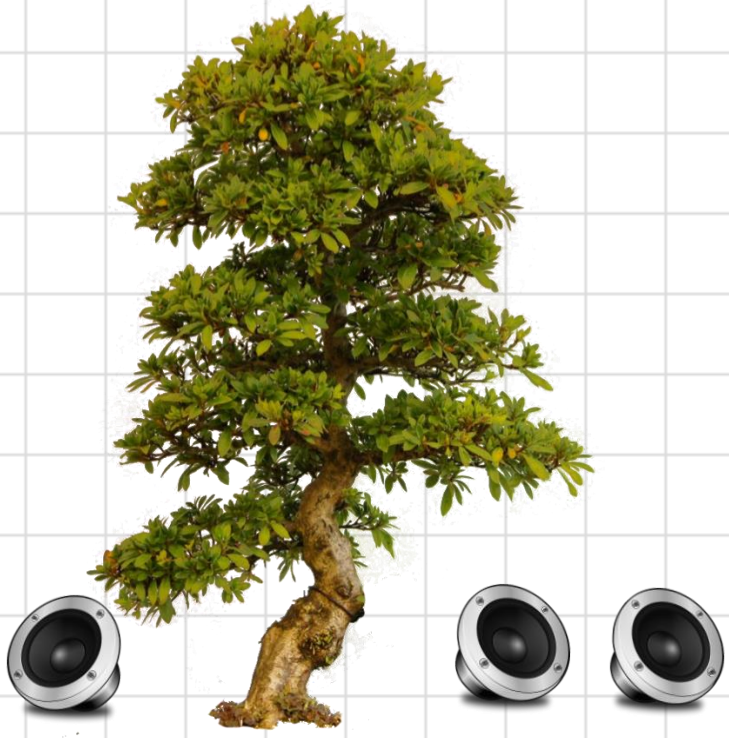
3. Llangernyw Yew
Wales, UK
4,000-5,000 years old

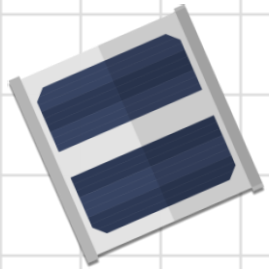
4. Sarv-e Abarkuh
Abarkuh, Iran
4,000-5,000 years old

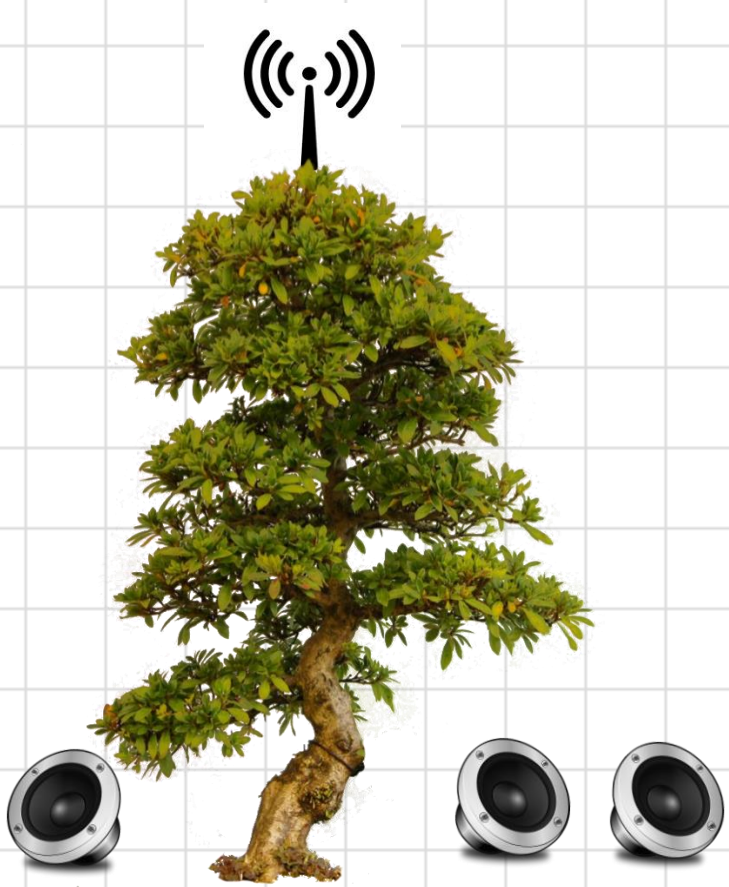
TREE SCIENCE FIGURES OF MERIT / A-TEAM, MAY 21, 2019

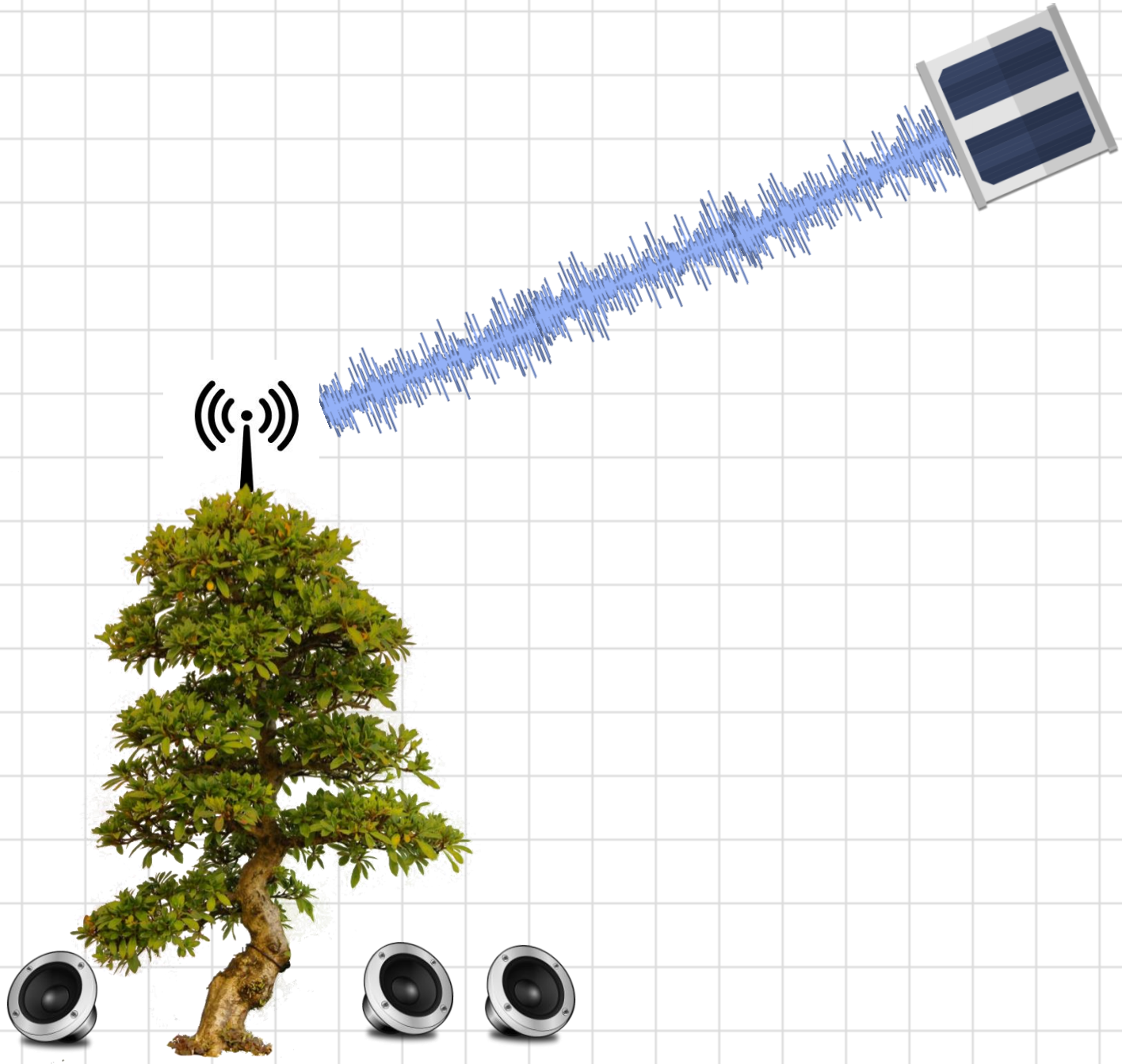
FOM	Tree growth (diameter)	Tree structure	Water content Xylem cavitation	Environmental parameters (temp, albedo, humidity)	Atmospheric changes carbon isotope
Dataset longevity	5	3	5	5	5
Tree health	4	4	5	3	2
Environmental stability	4	3	4	5	5
Interperability, flexibility, cultural relevance, fundamental, broad applications	5	3	5	5	4
TOTAL	18	13	19	18	16

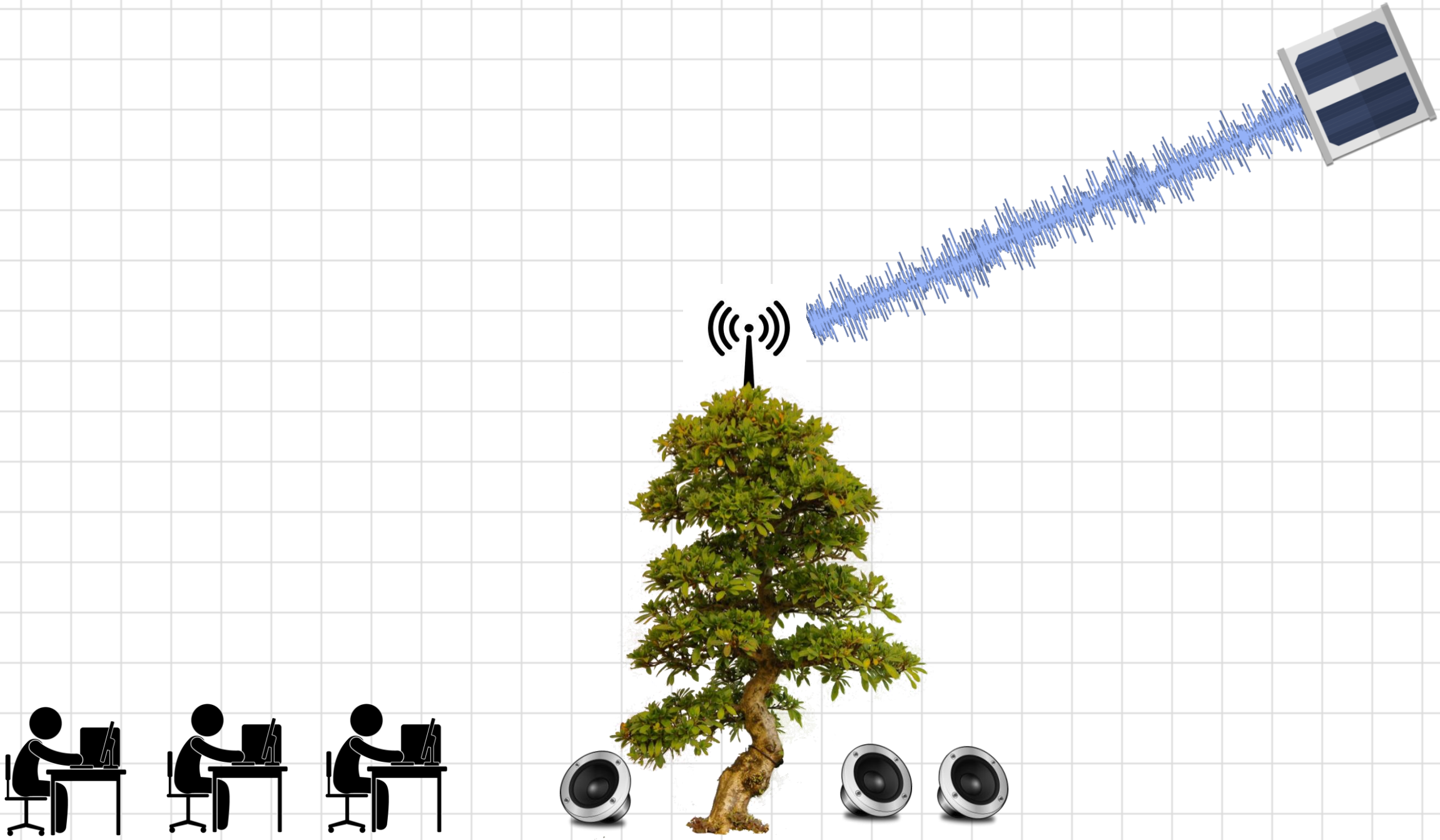


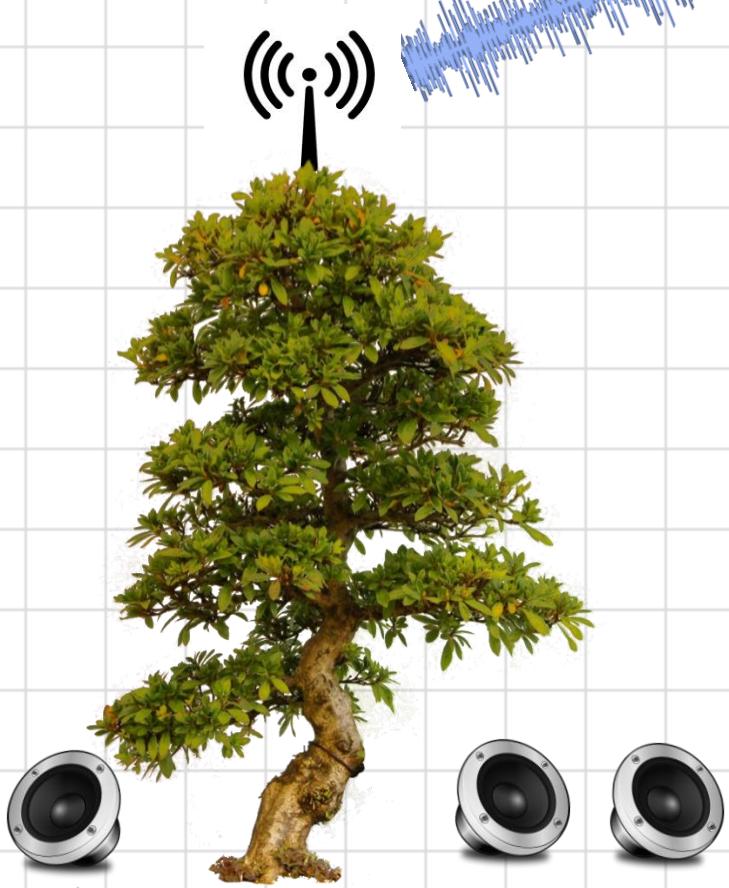












SHARED GOALS:

- CHANGES IN EARTH'S SURFACE OVER A RANGE OF TIME SCALES (ESPECIALLY LONG-TERM).

- LONGEVITY OF SPACECRAFT OPERATION IN SPACE.

- SCIENCE AS A MEANS OF GENERATING SOCIETAL BENEFIT AND CULTURAL ENGAGEMENT.

- ART EMPHASISES THE CRITICAL IMPORTANCE OF THINKING LONG-TERM ABOUT DATA, TECHNOLOGY, SCIENCE, HUMANITY AND PLANET EARTH.

BENEFITS OF T.O.L. INSTALLATION:

- MEASUREMENTS AT THE SITE OF TREES SONIFIED FOR PUBLIC CONSUMPTION, ALLOWING A CREATIVE ACCESS POINT TO DATA

- IN-SITU MEASUREMENTS AT TREE COULD PROVDIDE DATA CALIBRATION FOR DATA GATHERED BY SPACE-BOUND VEHICLE.

- HARNESSING LIVING TREES TO CREATE A TERRESTRIAL ANTENNA NETWORK MERGES SCIENCE, TECHNOLOGY, AND THE PUBLIC IMAGINATION.

- THE SONG OF THE TREES WILL BE AVAILABLE ON-LINE, IN REAL TIME, FOR GENERATIVE PUBLIC CONSUMPTION + CREATIVITY.

LONGEVITY IS THE COIN OF THE REALM.

TREE OF LIFE

JPL A-TEAM / JULIA CHRISTENSEN