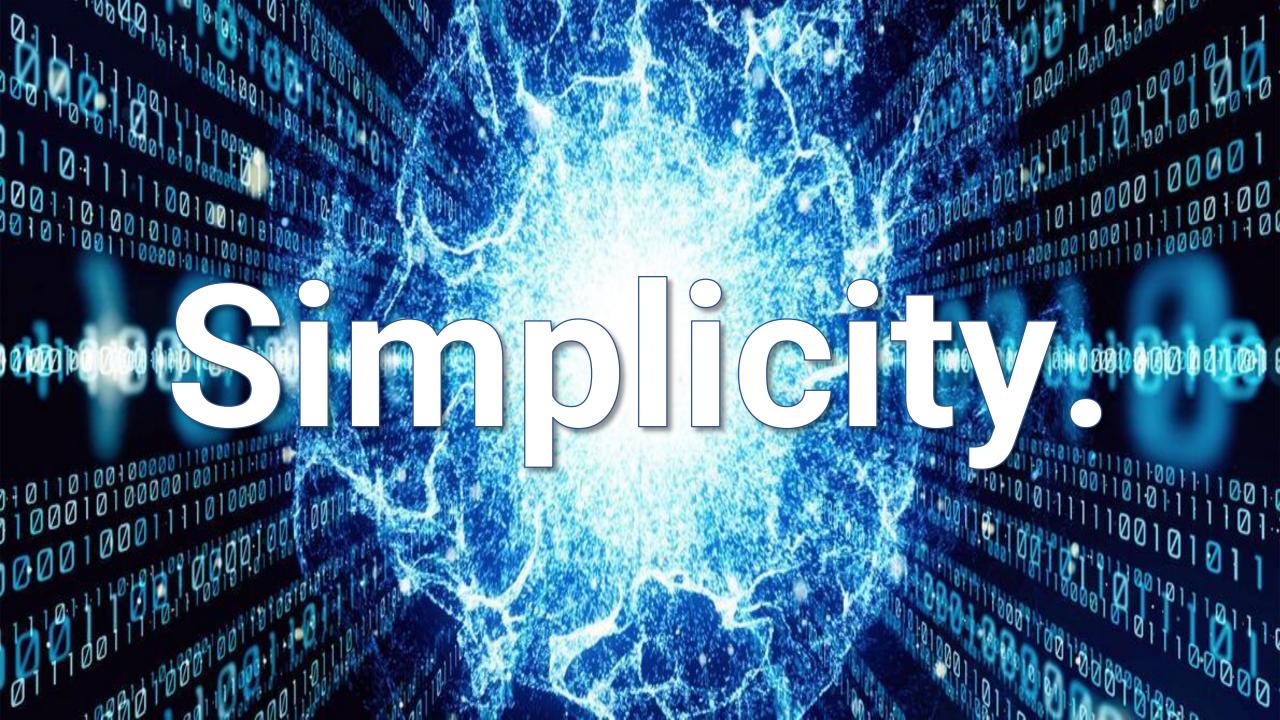
ADDIES ON OF ArtificialIntelligence to Environmental Issues





The Greatest Conferences of All Time

Solvay 1927 (Quantum)

Dartmouth 1956(AI)

 Endicott House 1981 (Quantum Computing)

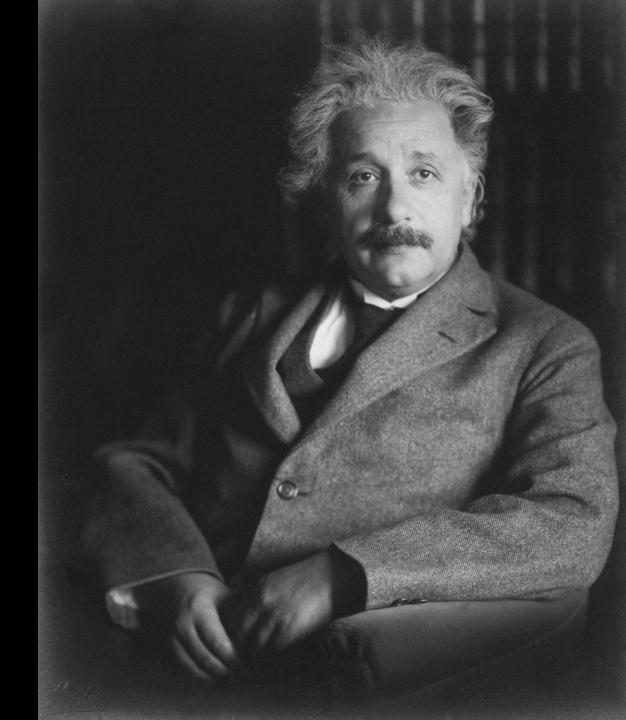


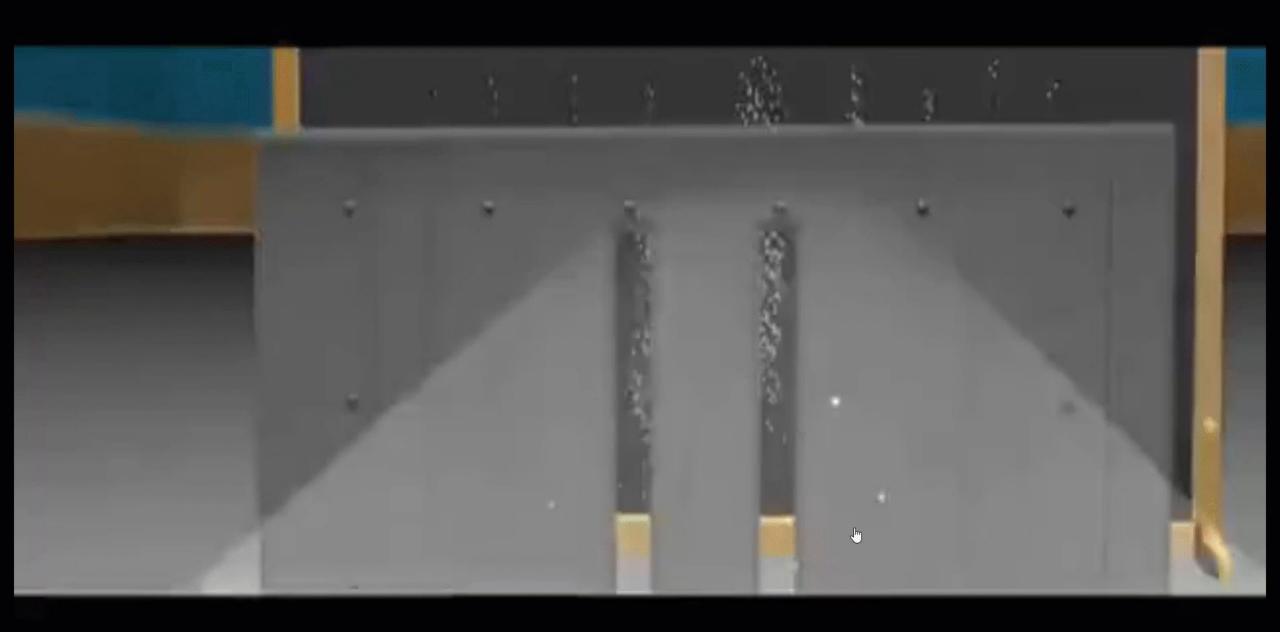
--- "Everything we call real is made of things that cannot be regarded as real." -- Niels Bohr

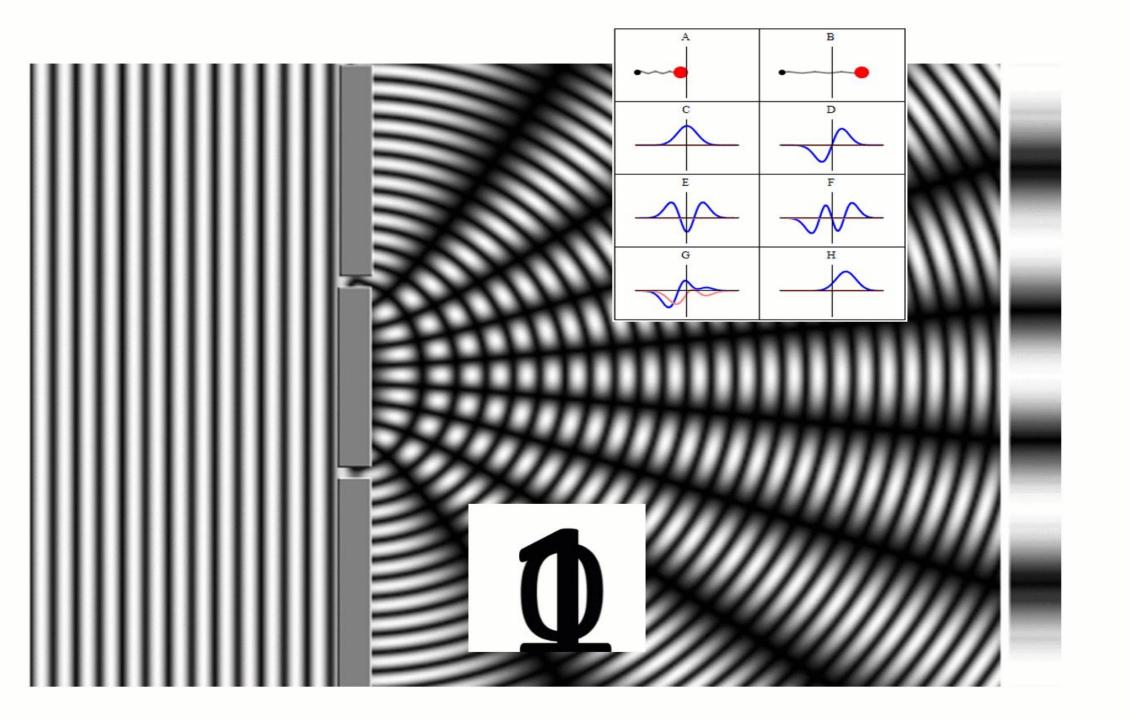


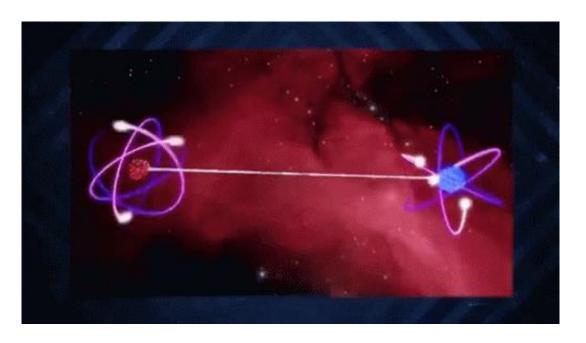
--- "Spooky action at a distance."

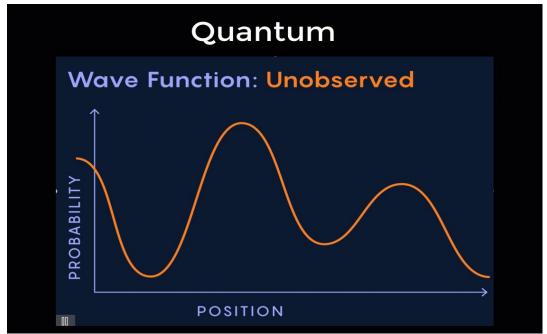
—Albert Einstein





















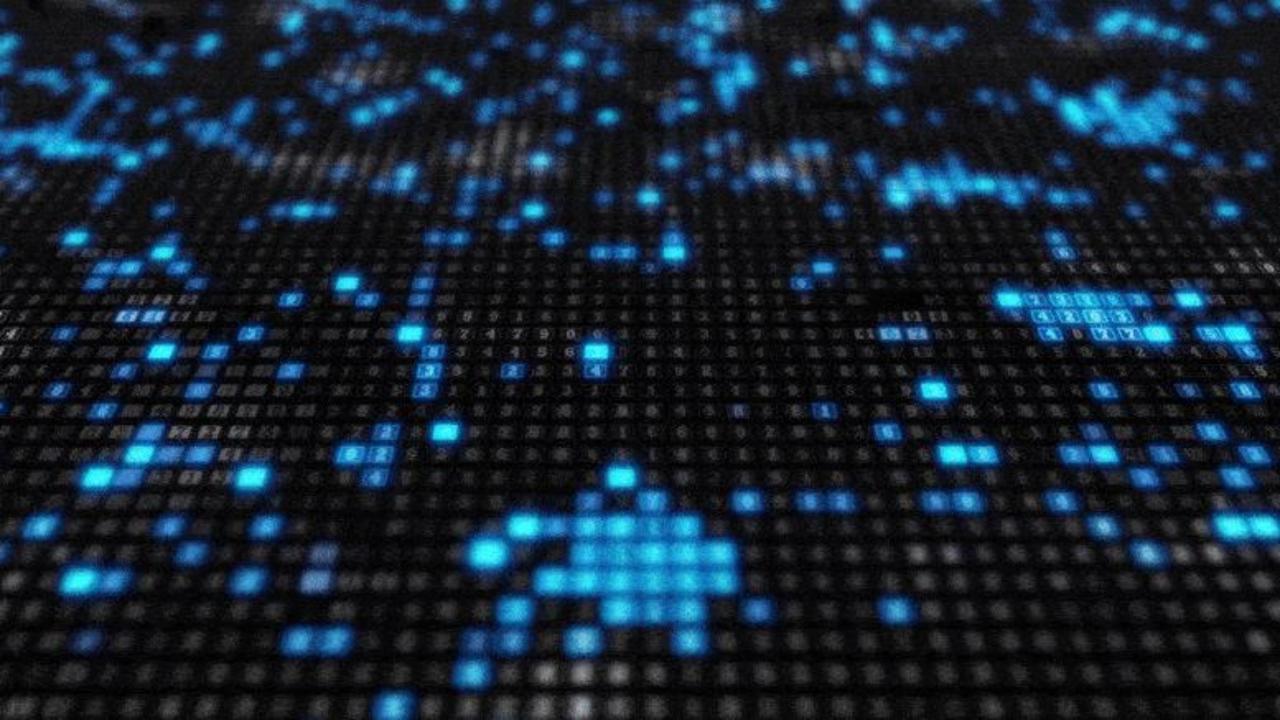
COMPUTATION











Nature = Simple Equations

RulePlot[C

-



Quantum Data

1

Classical Data

(binary computer)

Biological Data

ACTGACTGACTTAGG ATTCGAGATCCATTC CTTGAGACCTTTTTT ACCCCTATAGCATCA TTCCAGGATCTATTAT CCTATATATAGGGGC CCATATAAATGGGCT

Human Data

Language data (letters), sensory data (visual images), numeric data (numbers)

All at some level is data.

HUMAN COMPUTING



Super Molecular Computing

(ex/ silicon microchip)

Molecular Computing

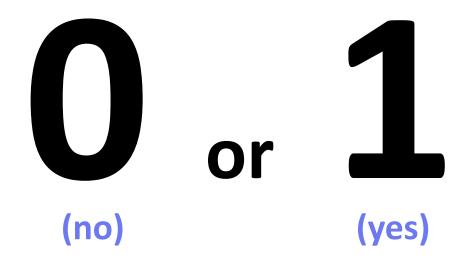
(ex/ DNA)

Atomic Computing

Subatomic Computing

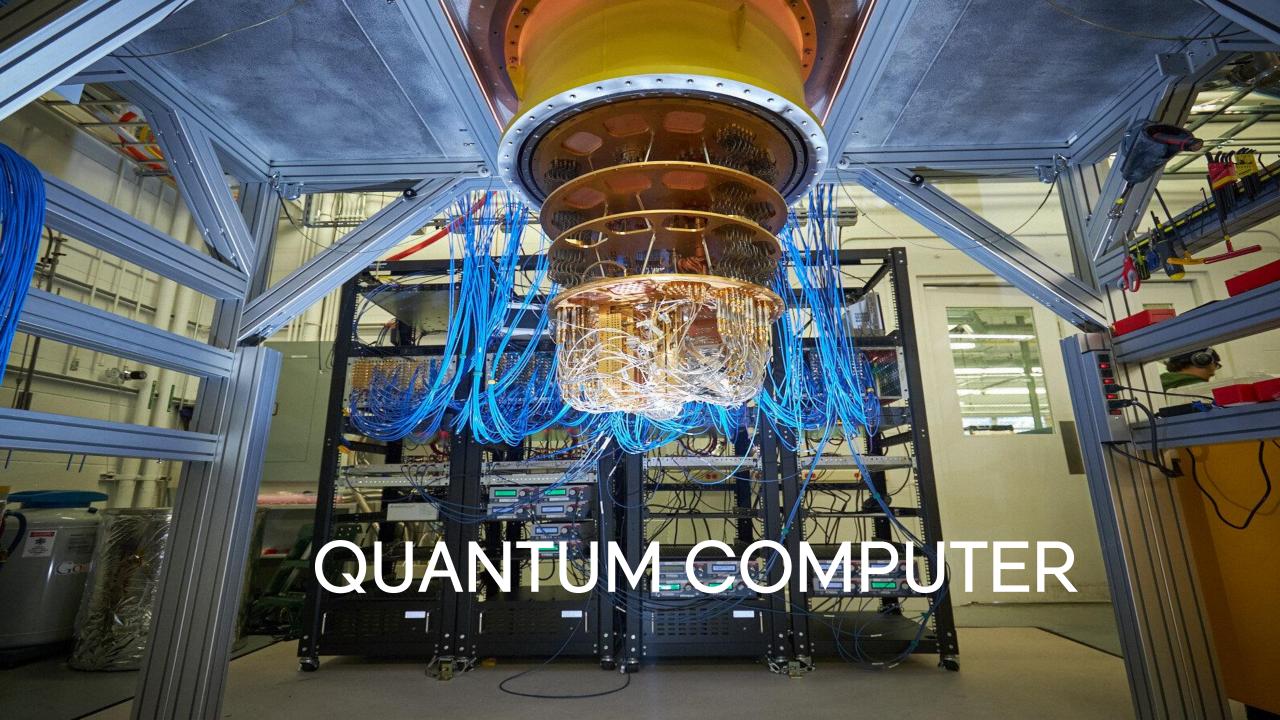
(ex/ quantum computing)

Classical Digital Computer

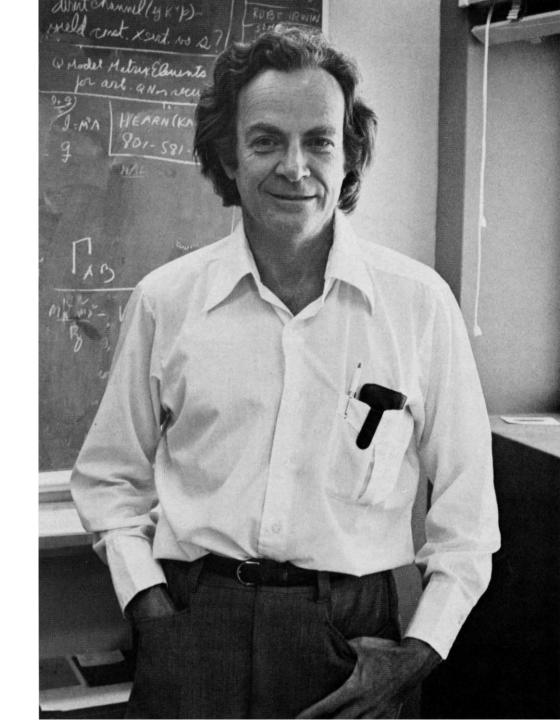


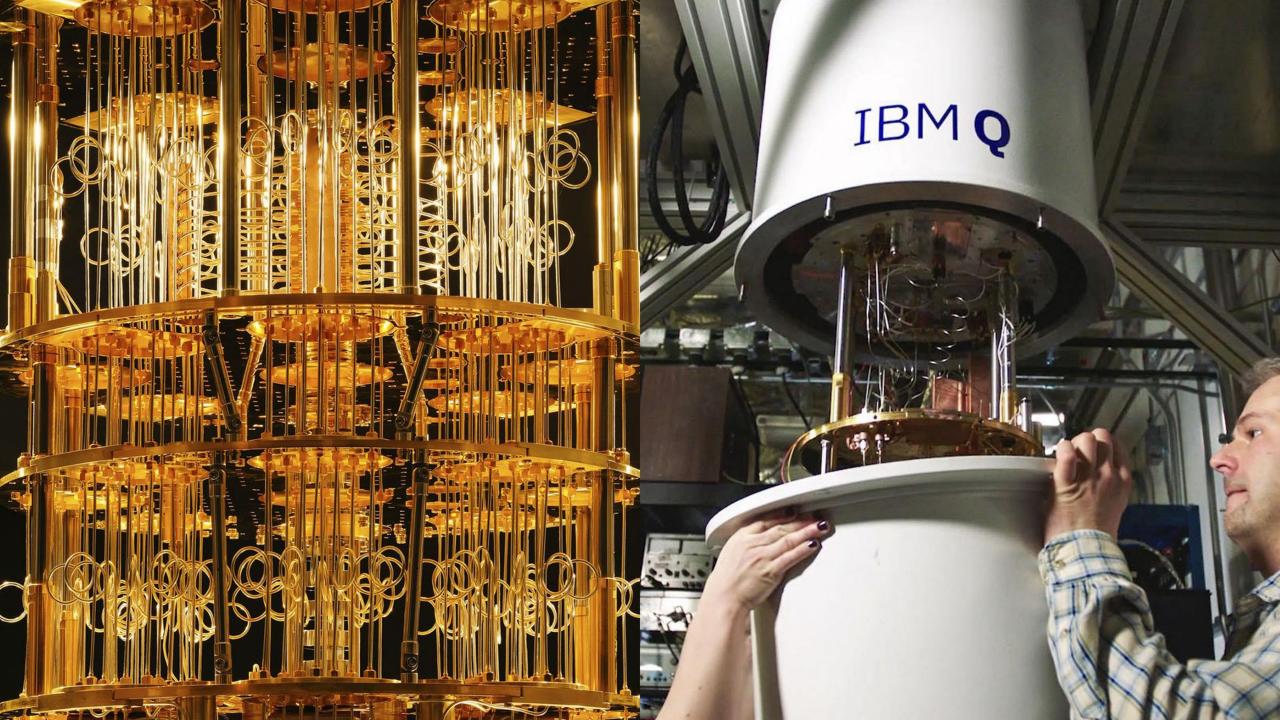
Quantum Computer





---"Nature isn't classical, dammit, and if you want to make a simulation of nature, you'd better make it quantum mechanical." --Richard Feynman





Harvard Business Review

TECHNOLOGY

Are You Ready for the Quantum Computing Revolution?

by Shohini Ghose

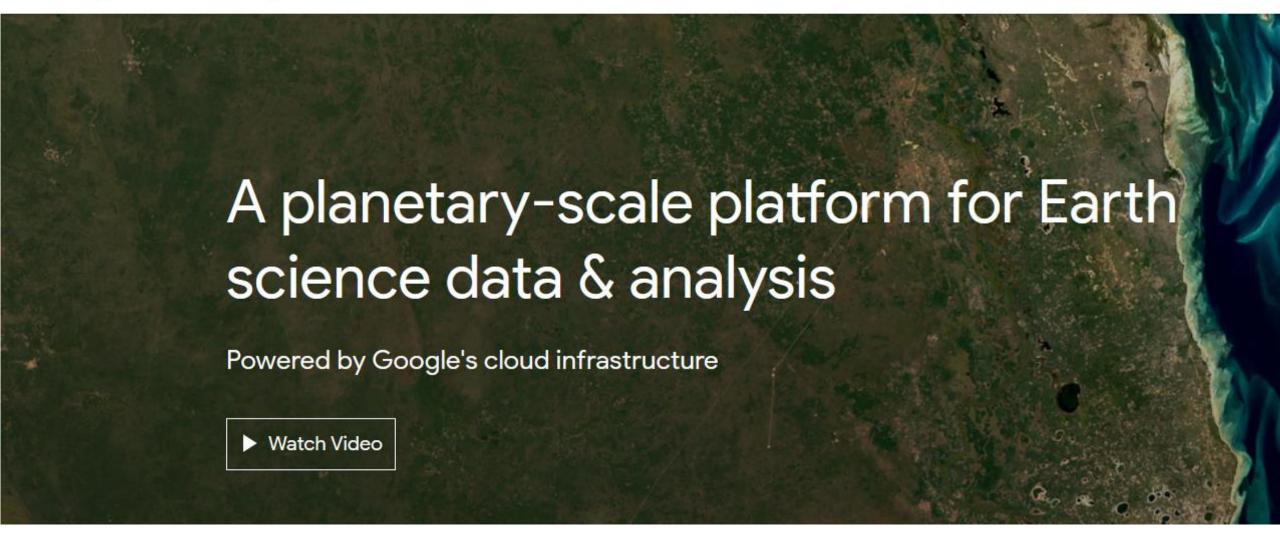
September 17, 2020



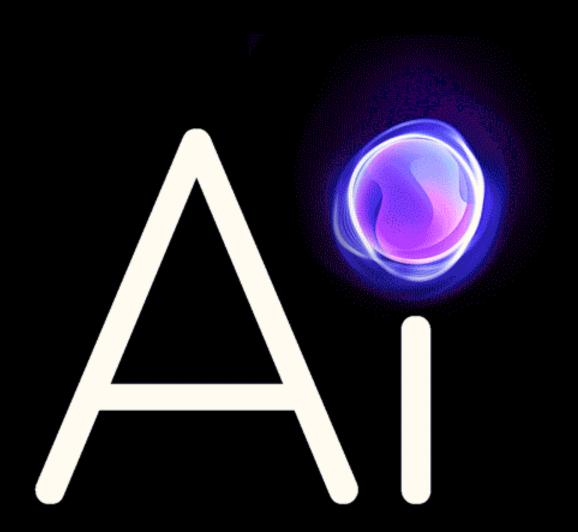
Sandipkumar Patel/Getty Images



Google Earth Engine



ARTIFICIAL INTELLIGENCE



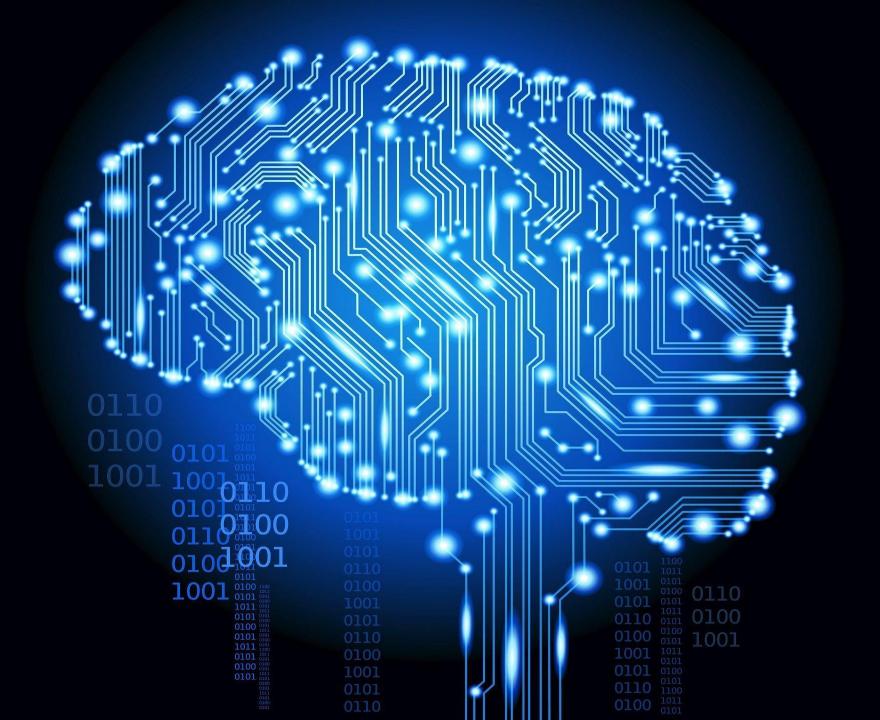


"Al is more profound than fire, electricity, or the internet."

-Google CEO, Sundar Pichai









Levels of Artificial Intelligence

Artificial Super Intelligence

Al that exceeds human intelligence

V.I.K.I.

Kurzweil Singularity event

Artificial General Intelligence

Al that is equal to human intelligence

HAL 9000

Turing Test

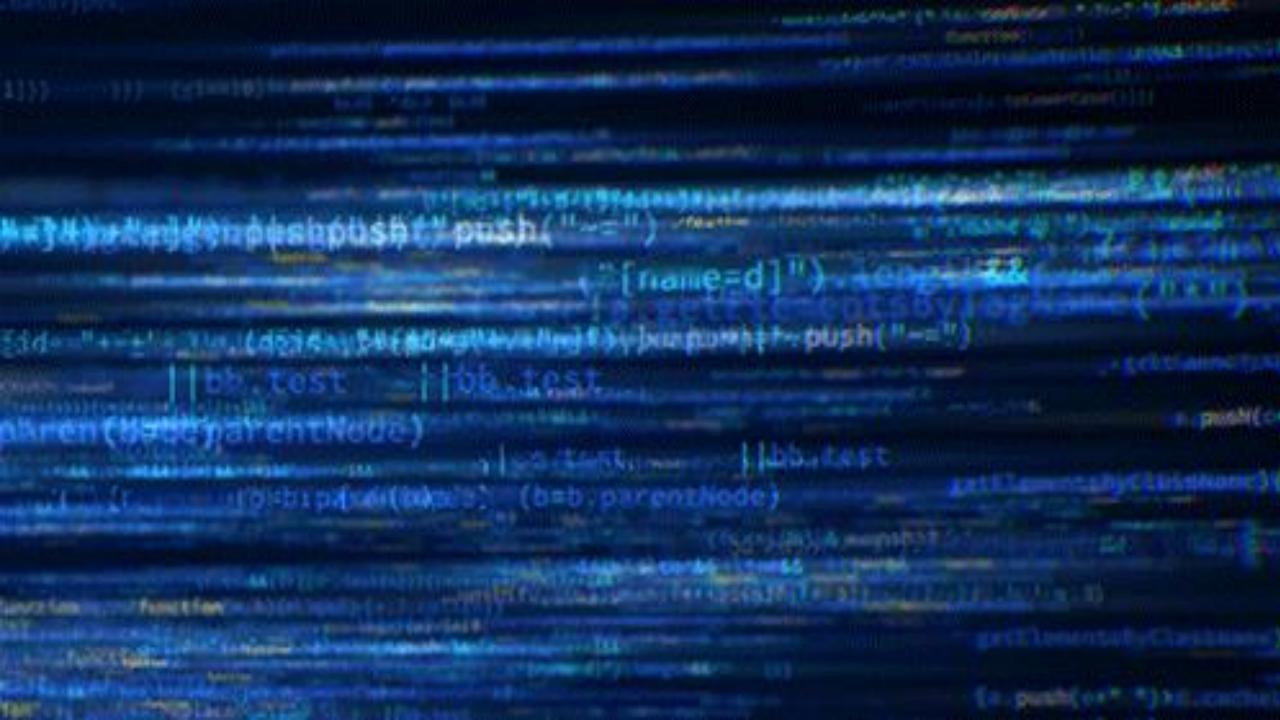
Artificial Narrow Intelligence

IBM Watson, Deep Blue

Alexa, Siri, Cortana

Learning Analytics Chat bots

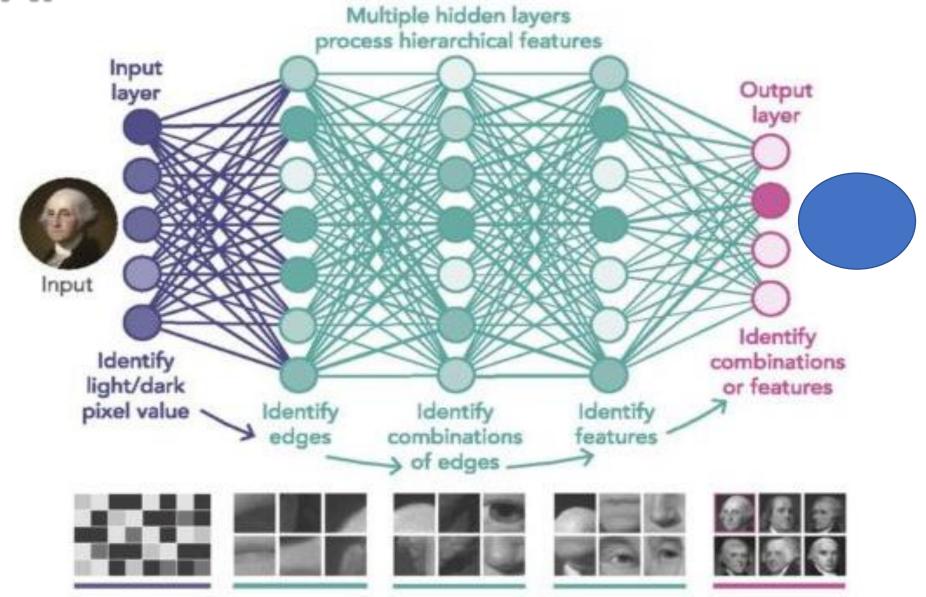


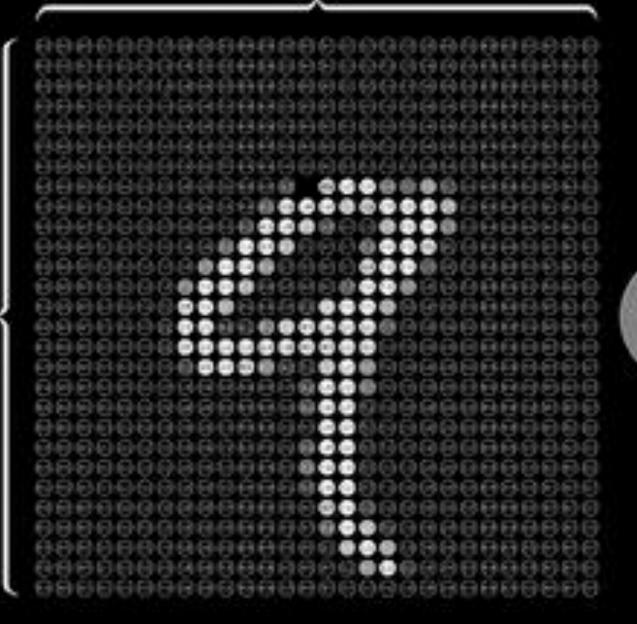




1. VISION AI

DEEP LEARNING NEURAL NETWORK



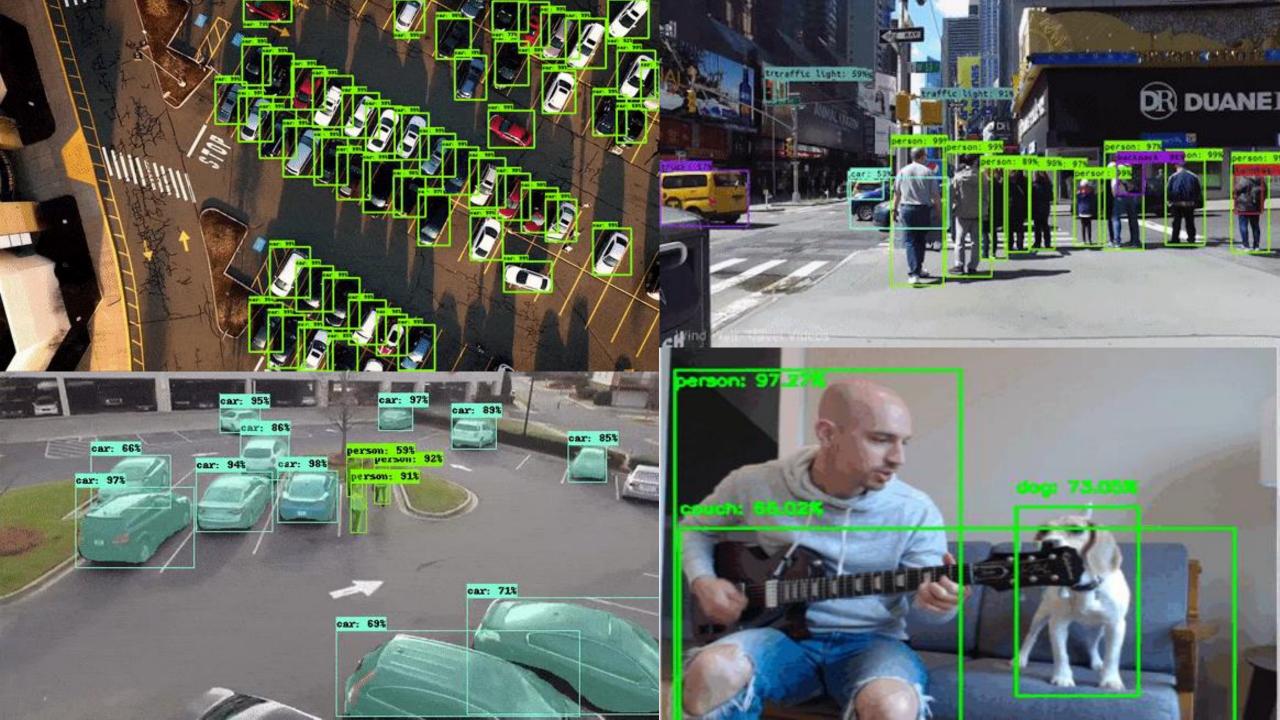


 $28 \times 28 = 784$

0.52

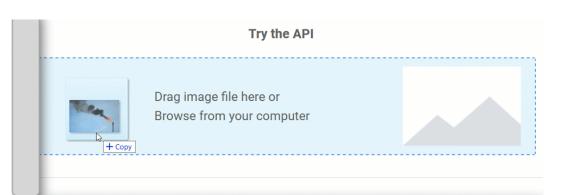




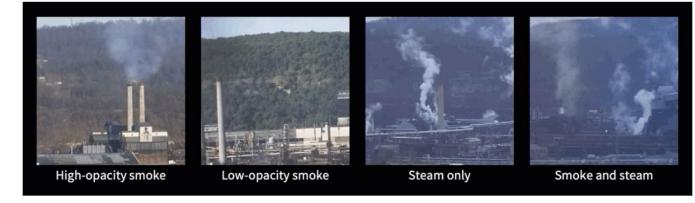




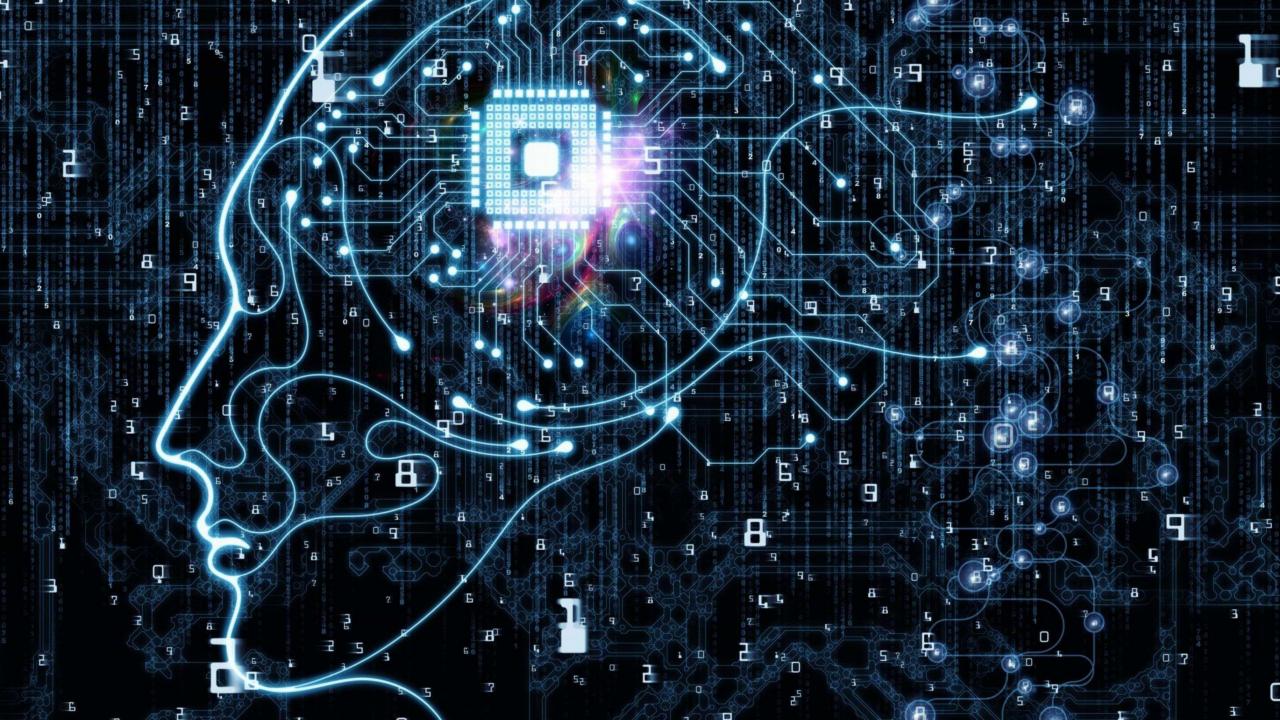
Identifying Pollution



Google Vision Al

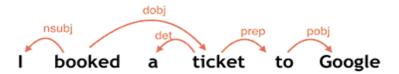


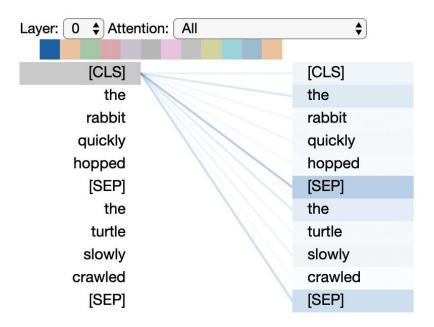




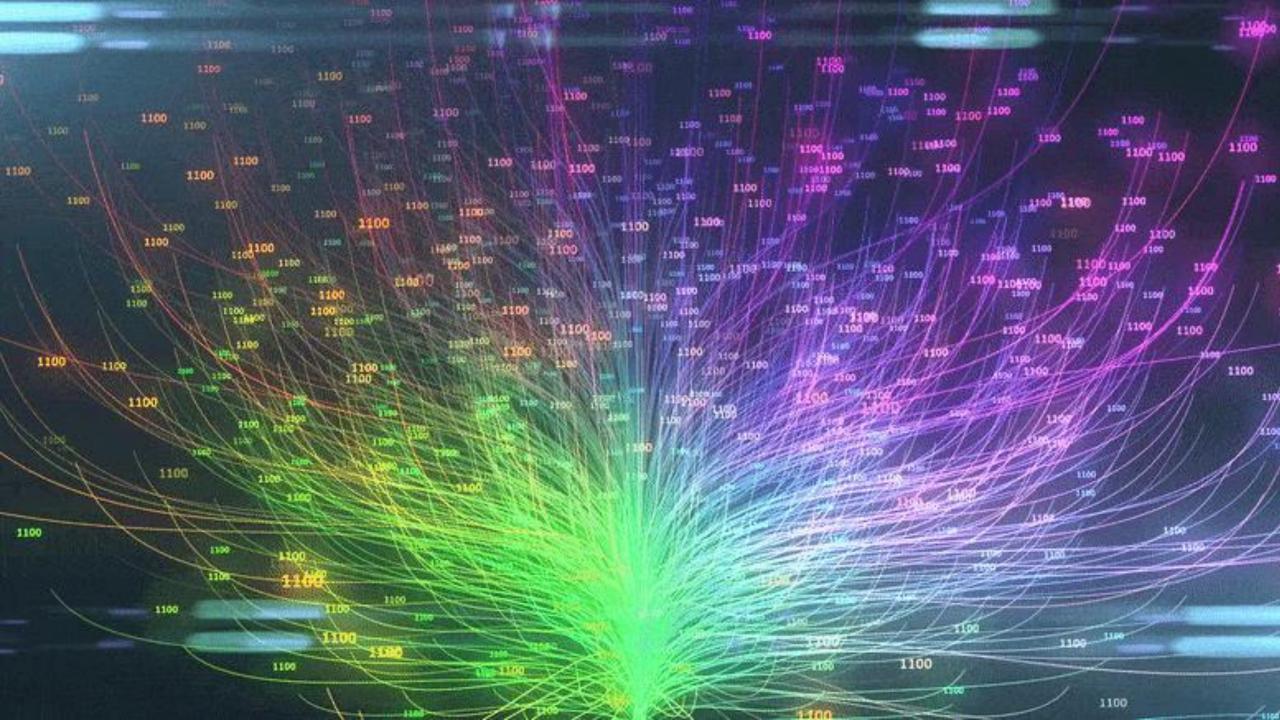
2 Natural Language Processing

Dependency Parsing



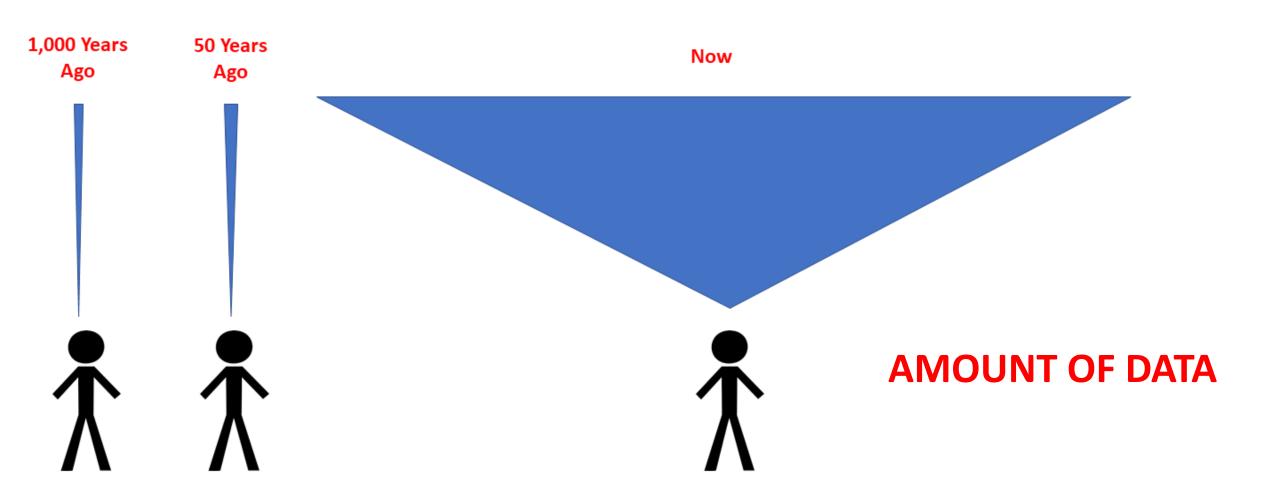


```
*** English English Con the San Type of Function Me
      ha function (var = -a length | length while | -- |
                        to settler ument - function(a) (var b.e.geala.ownerDocument | laiv: return g! -- n&9 -- o
  sttributes is function a return a className "i", a getAttribute "className") ) , c.getElementsBy Faun
te function | return o.appendChild(a).id=u, in.getElementsByName| [in.getElementsByName(u).length)
                 getAttribute("id") == b})): (delete d.find.ID, d.filter.ID=function(a)(var b=a.replace(ba.ca).return function(a)
return"undefined"!=typeof b.getElementsByTagName?b.getElementsByTagName(a):c.gsa?b.querySelectorAll
                 .md_CLASS=c.getElementsByClassName&&function(a,b){return"undefined"!=typeof b.getElementsBy
id='"-\r\\' msallowcapture=''><option selected=''></option></select>",a.querySelectorAll("[msallowcapture="
 querySelectorAll("[name=d]").length&&q.push("name"+L+"*[*^$|!~]?="),a.querySelectorAll(":enabled").length||q.push|":en
       msmatchesSelector))&&ia(function(a){c.disconnectedMatch=s.call(a,"div"),s.call(a,"[s!='']:x"),r.push("!="
       nadeTypeTa. documentElement:a,d=b&&b.parentNode;return a===d||!(!d||1!==d.nodeType||!(c.contains?c.contains
       impareholomentPosition-tb.compareDocumentPosition; return d?d: (d=(a.ownerDocument[]a)===(b.ownerDocument[]b) ?a
                      t(v,b)71 k73(k,a)-3(k,b):0:45d7-1:1)):function(a,b)(if(a==b)return l=(0,0;var c,d=0,e=a,paren(Node,d))
              while (a) a) a hid) | d++: return d?ka(a(d), h|d)): a(d) = v7-1: h(d) = v71:0), n): h), fa: matches function(a, b) (return fa
    try var des call(a,b) M(d) e,disconnectedMatch (a.document&11 = a.document: nodeType) return d) catch(e) () return fa
          call toLowerCase e void 0 return void 0 attributes getAttribute
                       The third than the series and the state of sort and the series are a push the series of the series o
textContent for firstChild
  "Service Sinting"
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                            THE STORE I'VE WHEN
                                                                                                                                        AND COMPANY
```



3. Analyzing and Filtering Data using Al

Amount of Information









BUILDING A QUANTUM AI ENVIRONMENTAL PROTECTION SYSTEM











S

TM

Quantum

Classical

Human

 Language data, visual data, numeric data.

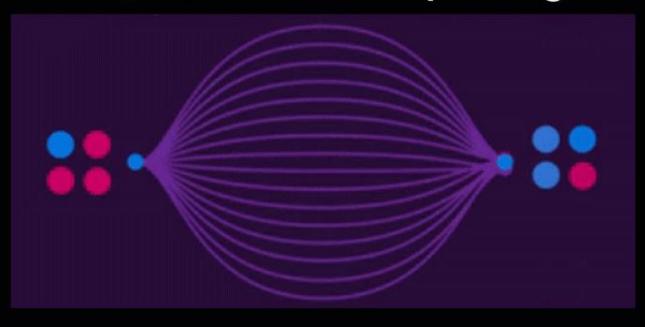


The key to protecting nature is to develop a system that, as much as possible, communicates and interacts with nature how nature communicates and interacts with nature. It's simpler.

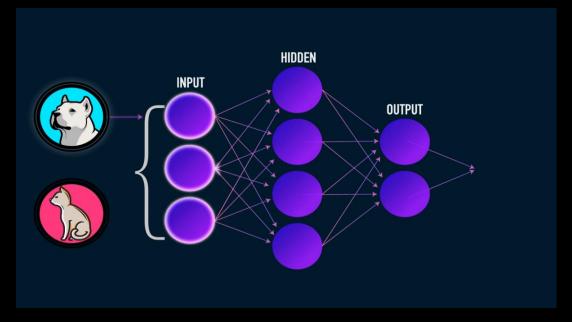
HARNESS PROBABILITY.

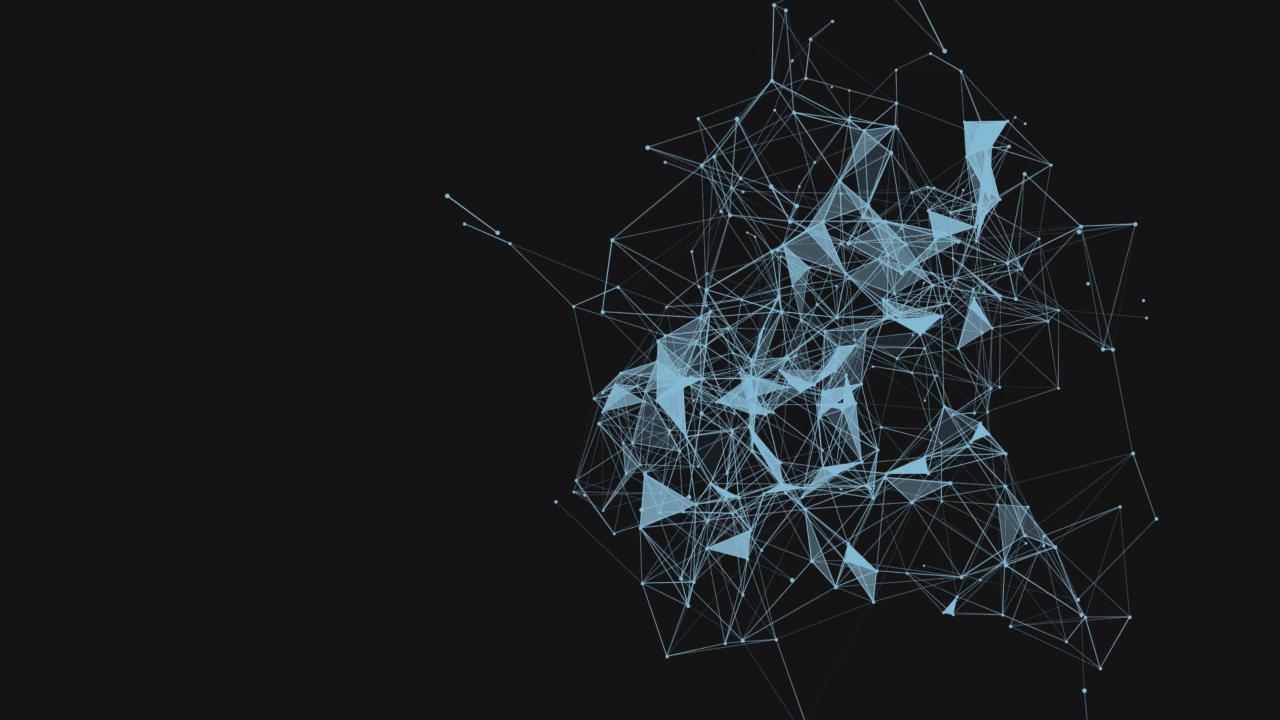


Quantum Computing



Artificial Intelligence





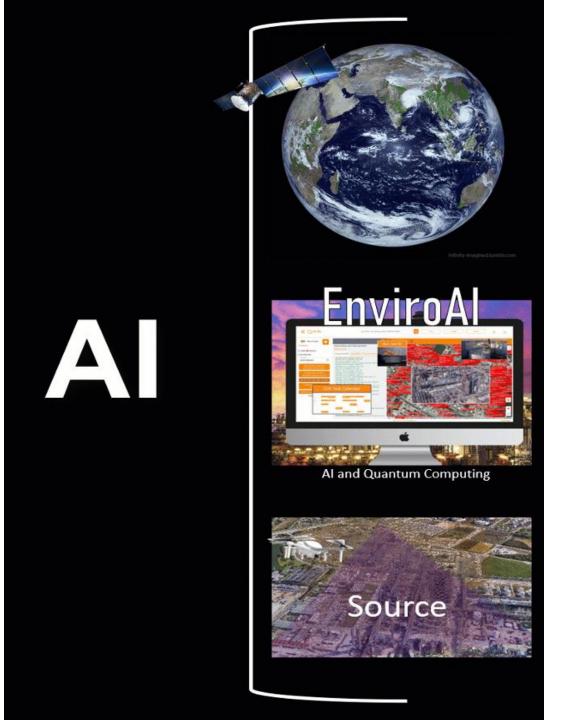


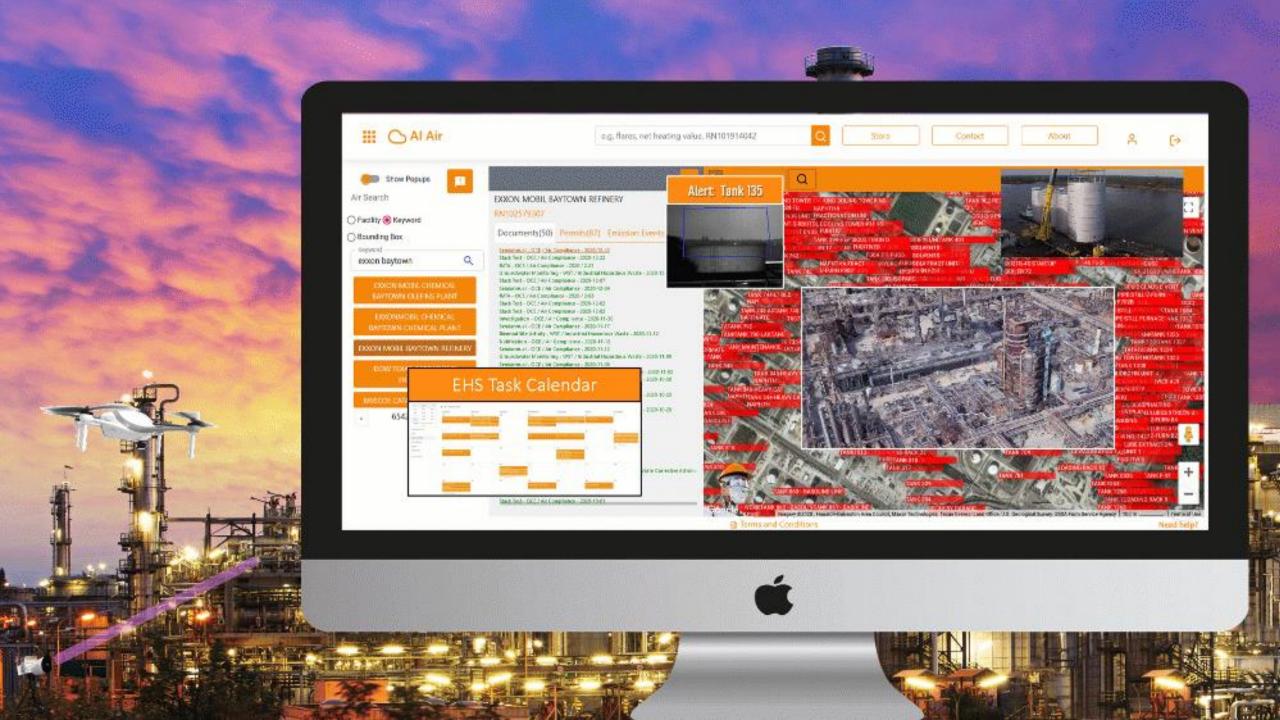




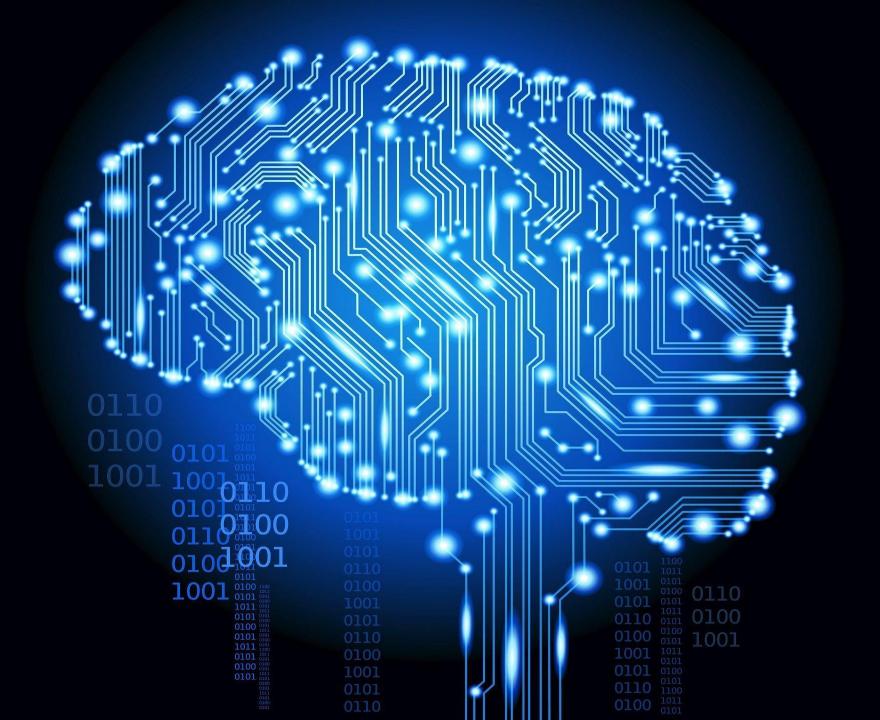


- 1. Al
- 2. Data/Remote-Sensing
- 3. Quantum Technology

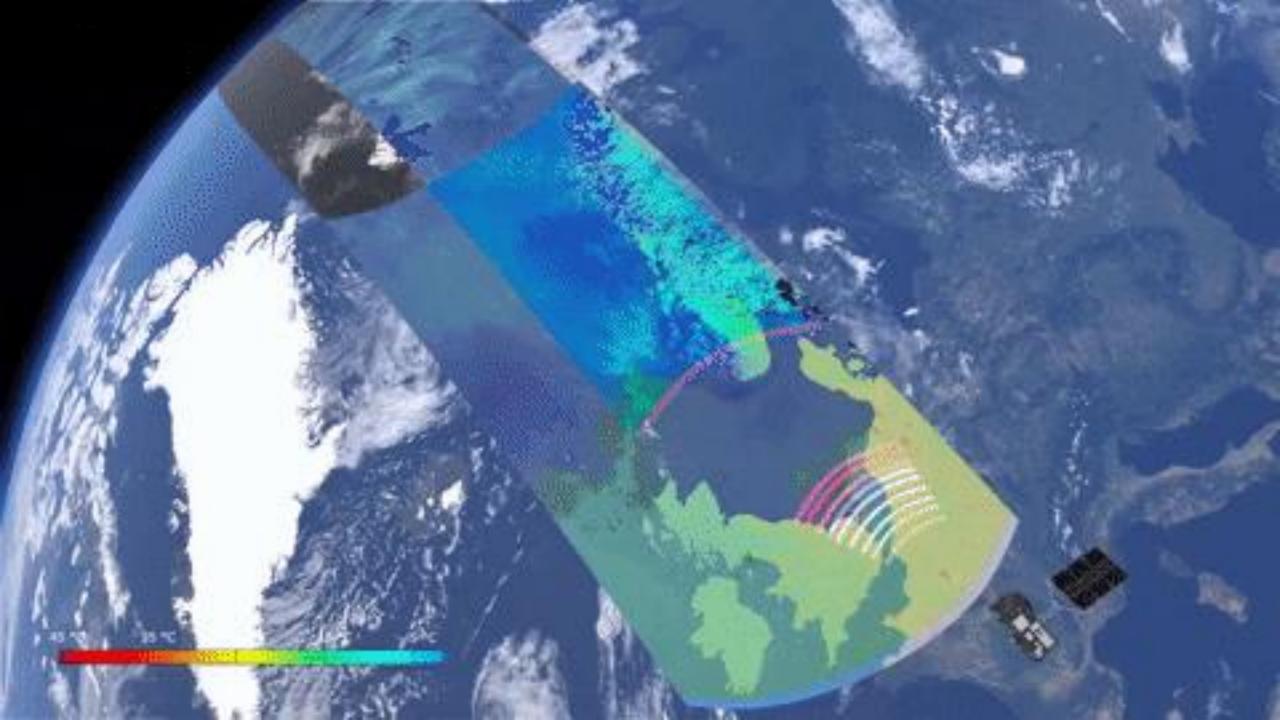


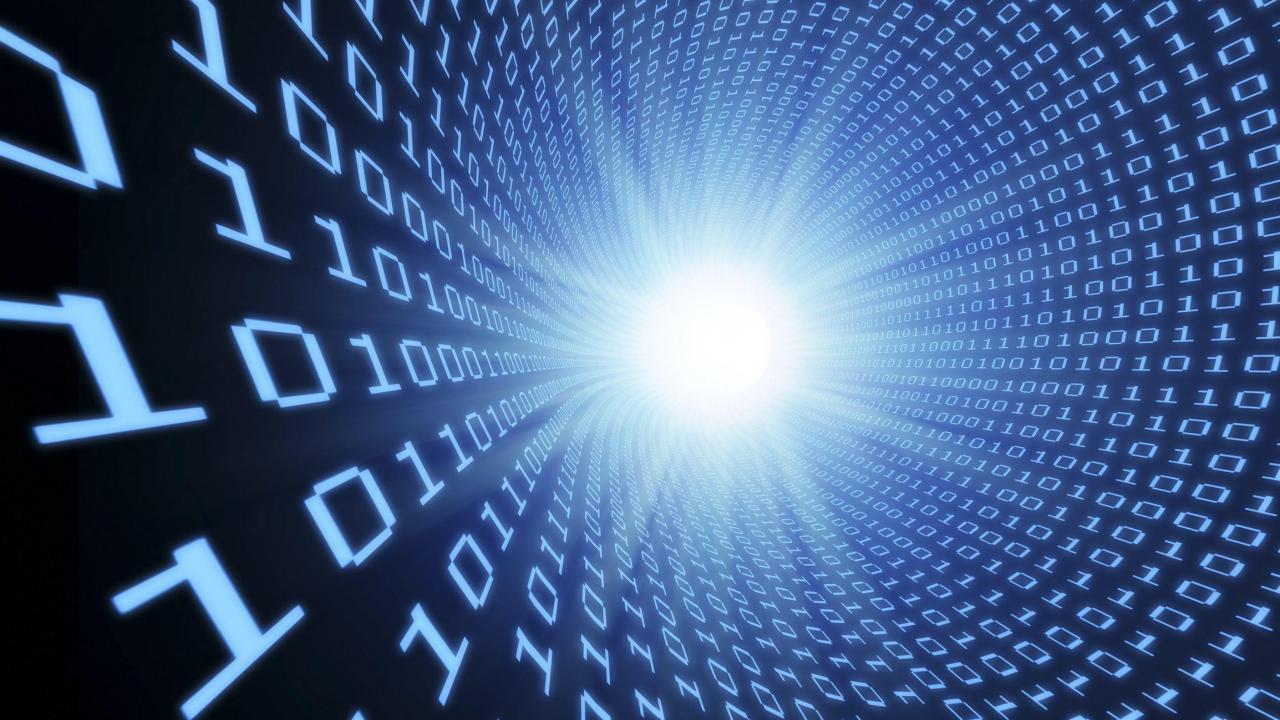














THE ENVIRONMENTAL RENAISSANCE

