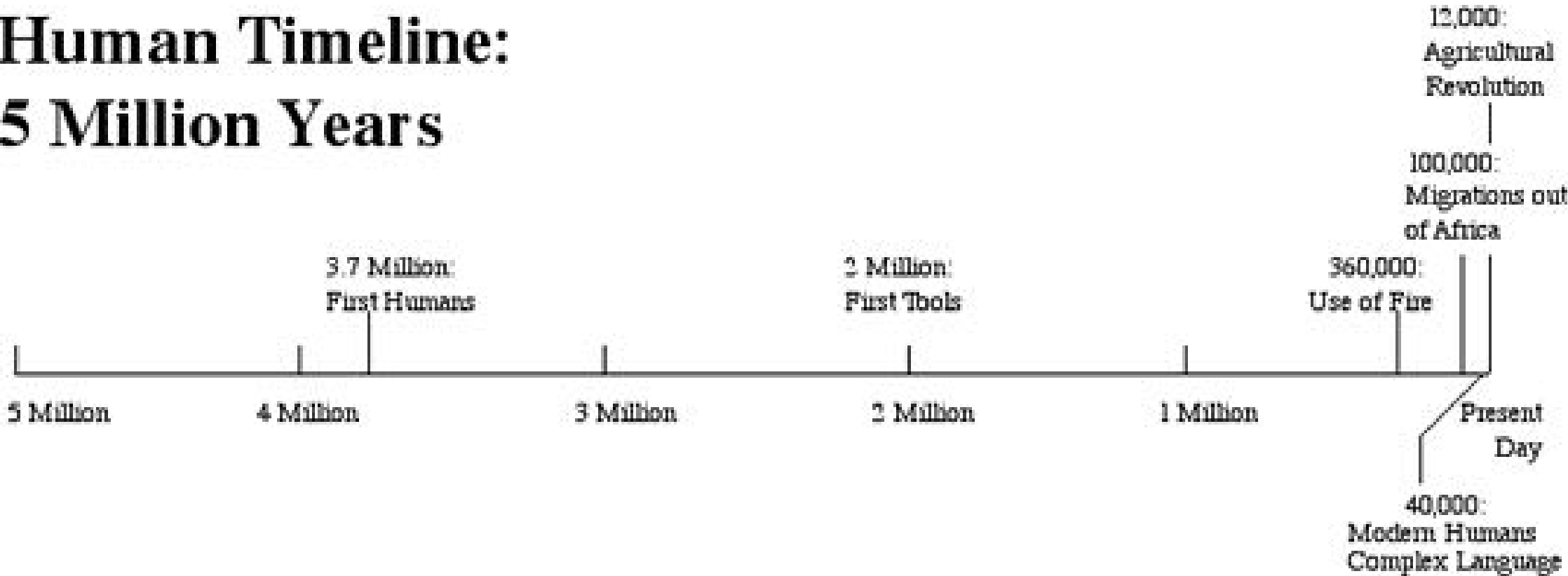




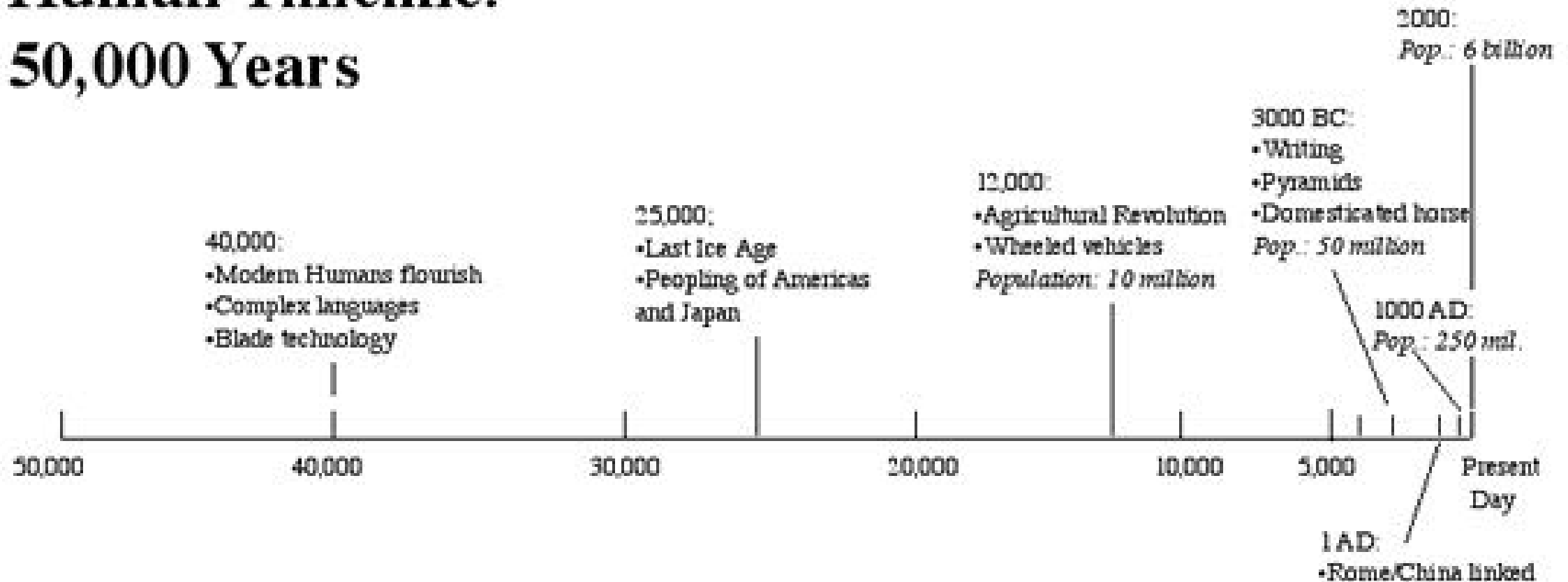
A comparative analysis of governmental AI strategies:
from narrative, to utopia passing by ethics

Kave Salamatian, University of Savoie

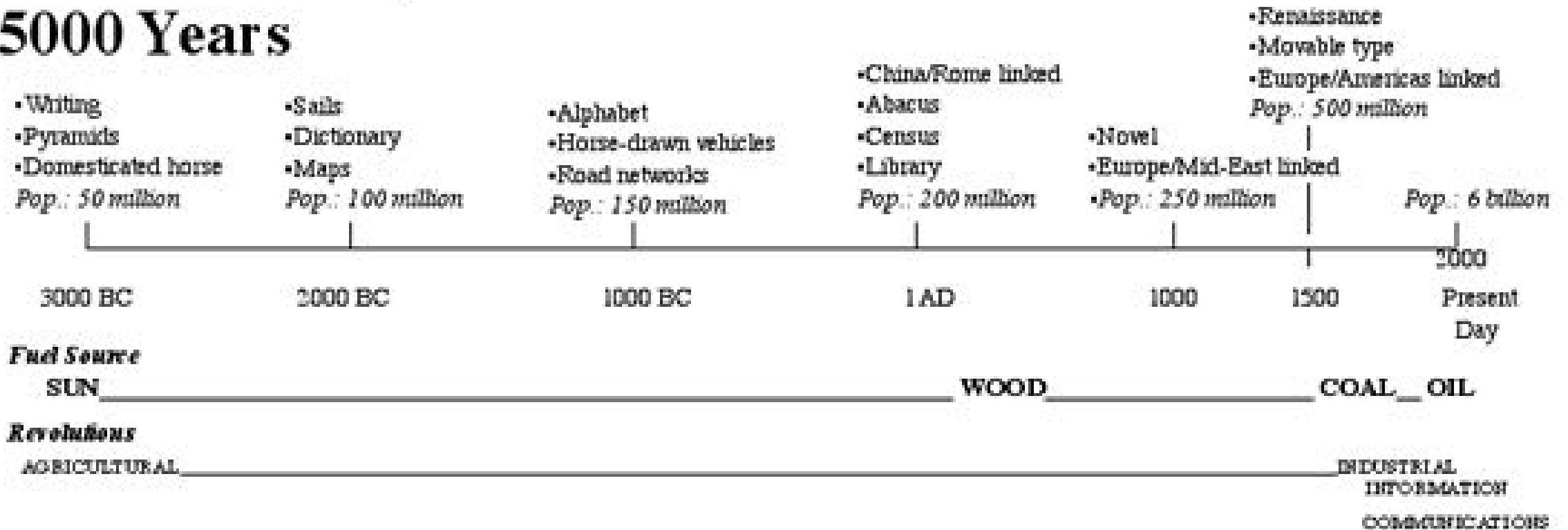
Human Timeline: 5 Million Years



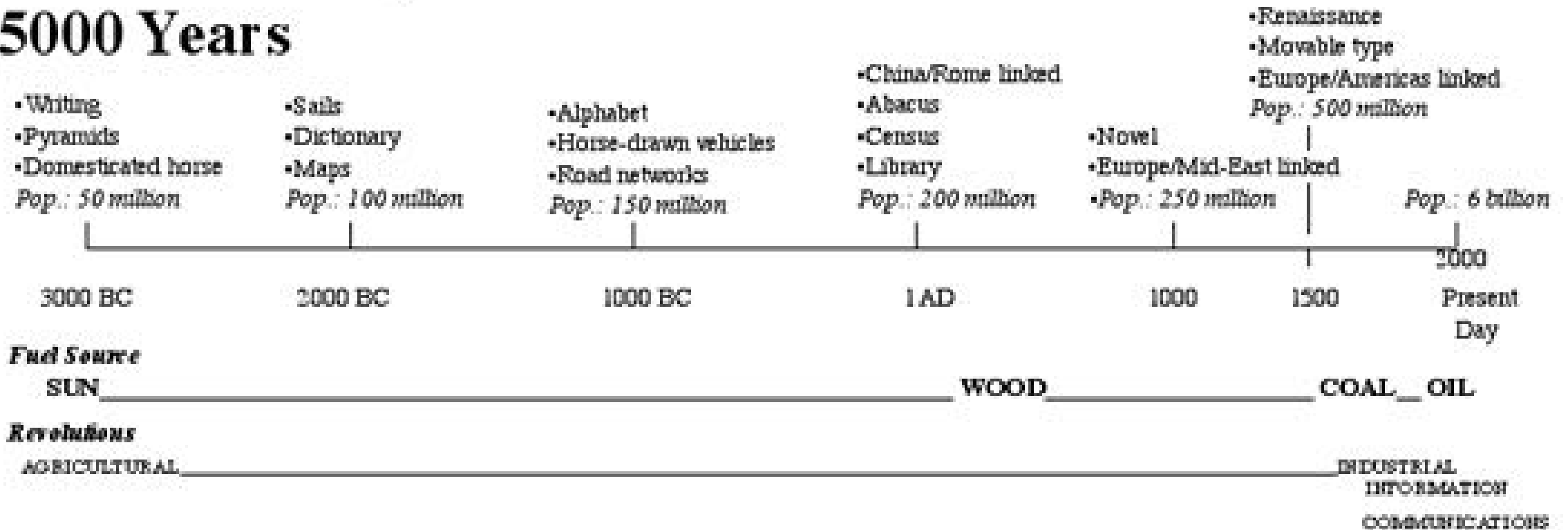
Human Timeline: 50,000 Years



Human History Timeline: 5000 Years

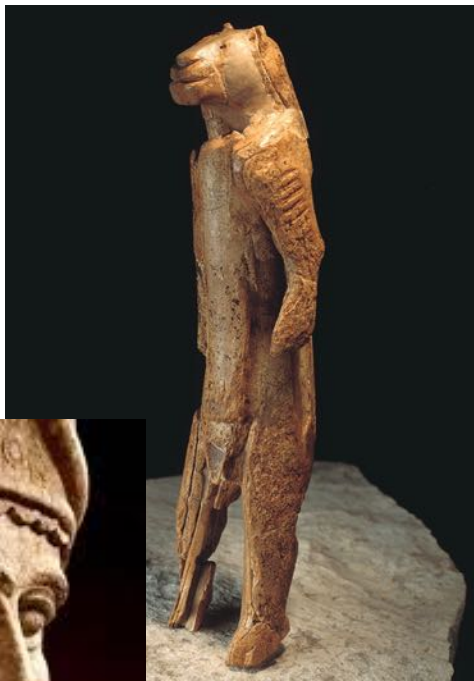


Human History Timeline: 5000 Years



Myths and legends

- The importance of legend/myths/unseens
 - Animism
 - Gilgamesh legend
 - Babel tower
 - Pythie of Delft
- Utopia
 - Harmony with nature
 - Immortality
 - Unification
 - Overcoming uncertainty





Digital ?

- Trade-off between freedom and cooperation
 - Individualism vs. Society, specie vs. Individual,
- Digital is trading-off the precision and the uniqueness of individual experience with the necessity of coordinating/exchanging
 - Intrinsically related to communication/coordination/cooperation
- Digital revolutions
 - Languages
 - Tools
 - Writing
 - Printing
 - Computers
 - Internet
 - AI

Claude Shannon's Life Overview

- 1916 (April 30) – born in Petoskey, Michigan
- 1936 BS EE and BS Math – University of Michigan
- 1937 MS EE – MIT, thesis applied Boole's logic to circuit design
 - Considered “best MS thesis of the century”
- 1940 PhD – MIT, Department of Mathematics
- 1940 – National Research Fellow, Institute for Advanced Study in Princeton, NJ (Hermann Weyl, von Neumann, Einstein, Gödel)
- 1941-1956 – Bell Labs, Murray Hill, New Jersey
 - During World War II – worked on fire-control systems and cryptography
 - 1943 – met and shared ideas with Alan Turing at Bell Labs
 - Proved the cryptographic one-time pad unbreakable
 - Invented information theory – key paper 1948
- 1956-1978 – MIT Research Lab of Electronics
- 2001 (February 24) – died at age 84 (almost 85)



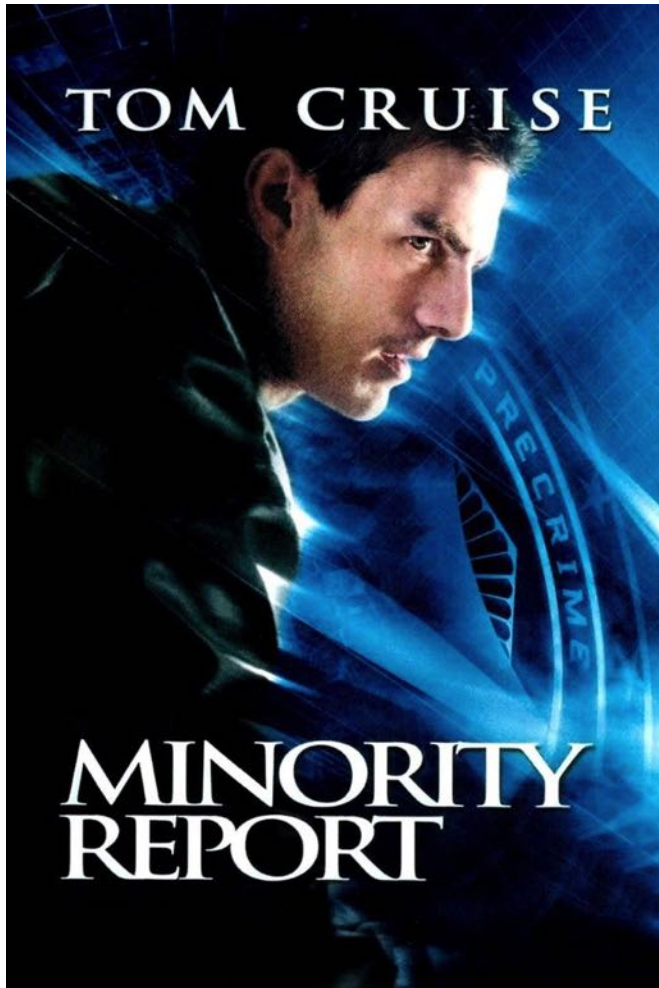
Shannon's Ultimate "Useless" Machine



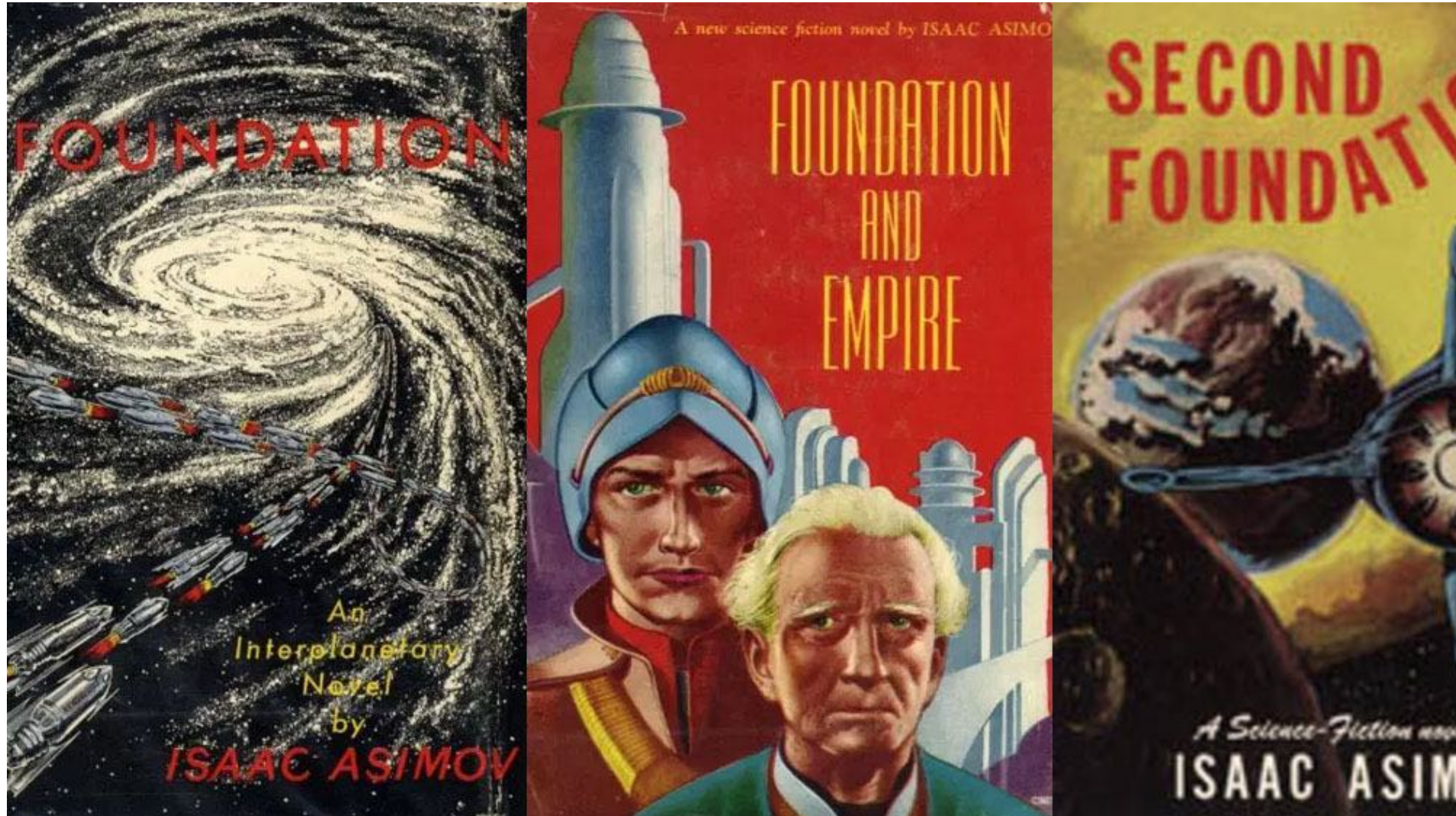
What is AI ?

- Wikipedia : Artificial intelligence (AI) is intelligence demonstrated by machines.
 - the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving »
- On anthropologic ground IA is the utopia of the human without its weaknesses
 - Physical
 - Psychological
 - Political

Science fiction/literature



Science fiction



Utopian/dystopian views of IA

- Humans are unpredictable, they are messy, they are unreliable
 - They are weak and corruptible
- Computers are there to help
 - We need IA to tame the uncertainty of humanity
 - Max Weber bureaucracy
 - All regular activities within a bureaucracy can be regarded as official duties;
 - Management has the authority to impose rules;
 - Rules can easily be respected on the basis of established methods.



DATASphere and Anthropocene

The Economist

MAY 28TH - JUNE 3RD 2011

Economist.com

- Getting Spain's protesters off the plazas
- Obama, Bibi and peace
- The costly war on cancer
- How the brain drain reduces poverty
- A soft landing for China

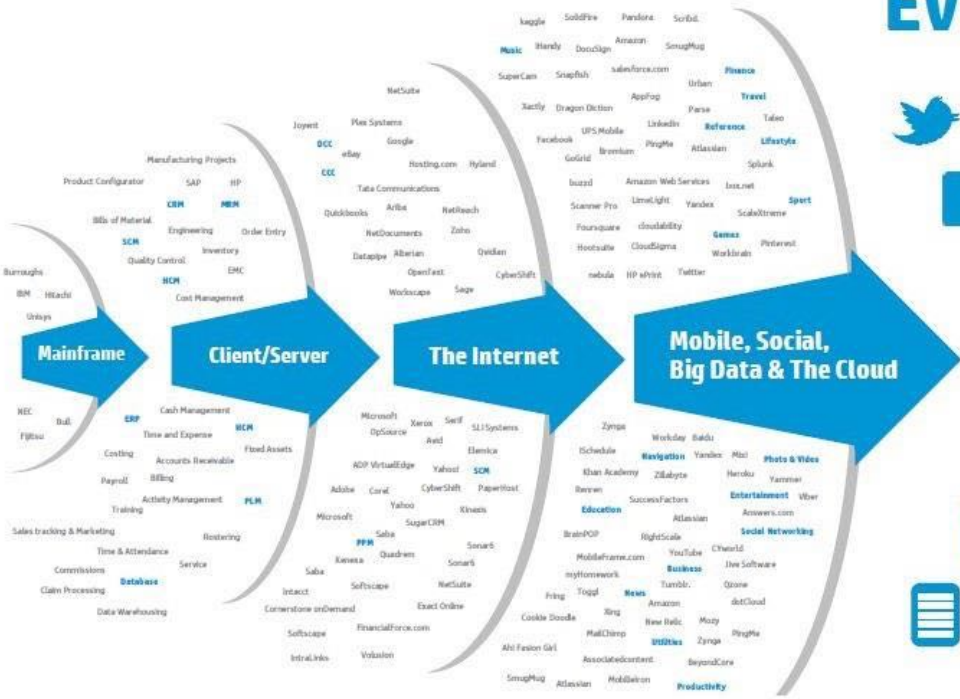
Welcome to the Anthropocene



Geology's new age

Every 60 seconds

- 98,000+ tweets
- 695,000 status updates
- 11 million instant messages
- 698,445 Google searches
- 168 million+ emails sent
- 1,820TB of data created
- 217 new mobile web users



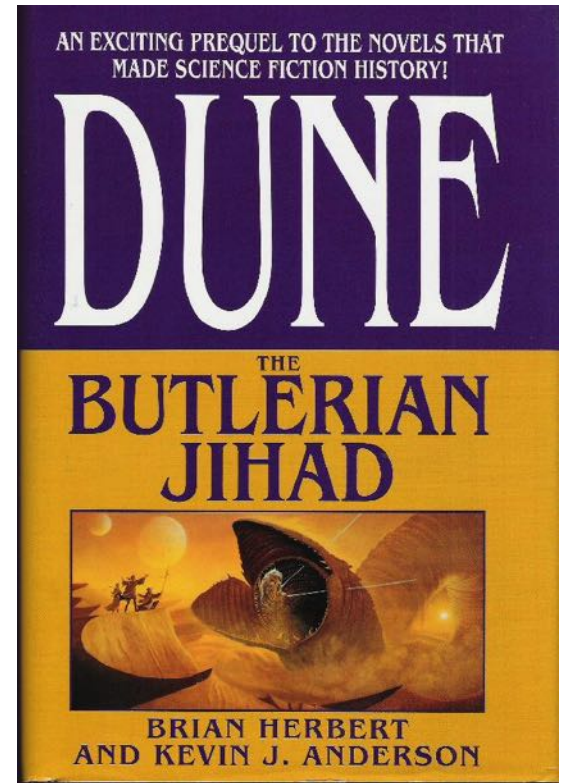
Utopian/dystopian views of IA 2

- Humanity is not wisely dealing with world resources
 - Climate crisis, energy waste,
- BUT «**human should be in control of nature**» so
- IA is there to help
 - IA will let human to optimize the resource
 - IA is here to tame to bad environmental habits
- Environmental punishment is a common theme



Utopian/dystopian views of IA 3

- Humans are imperfect
 - They are weak, mortal, imprecise
 - Death is difficult, illness is tough,
- We need to make human better
 - Transhumanism
 - Cyborg
 - Humanoid robot
 - Matrix /



Artificial Intelligence Strategies

