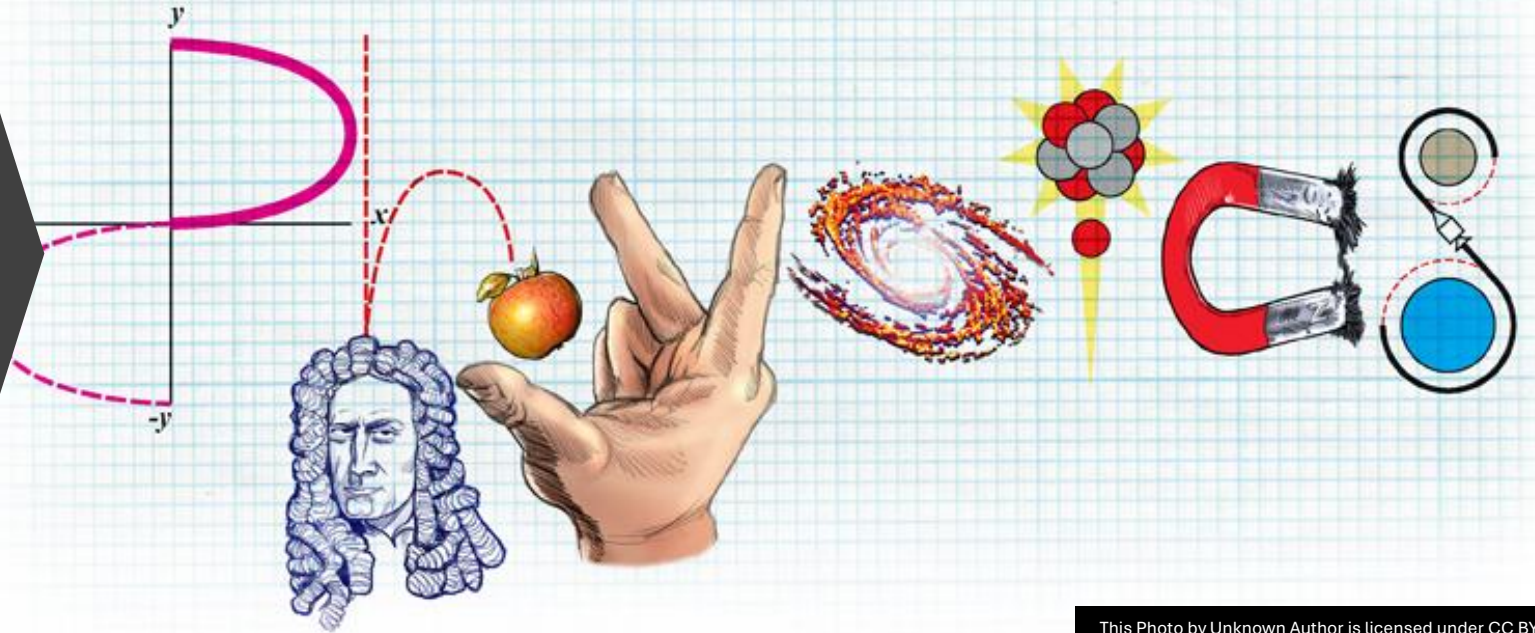


# SURVIVAL SCIENCE

## LESSON 7A

### OUR PHYSICS TIMELINE



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## INVENTIONS THROUGH TIME



# THE CHURCH AGE BEGINS

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IMPORTANT  
CHANGES...  
for CHRISTIAN  
BELIEVERS

CONSTANTINE  
and the Roman  
Empire 300-350 AD

But, over time,  
*religions* rise up to  
challenge  
Christianity.

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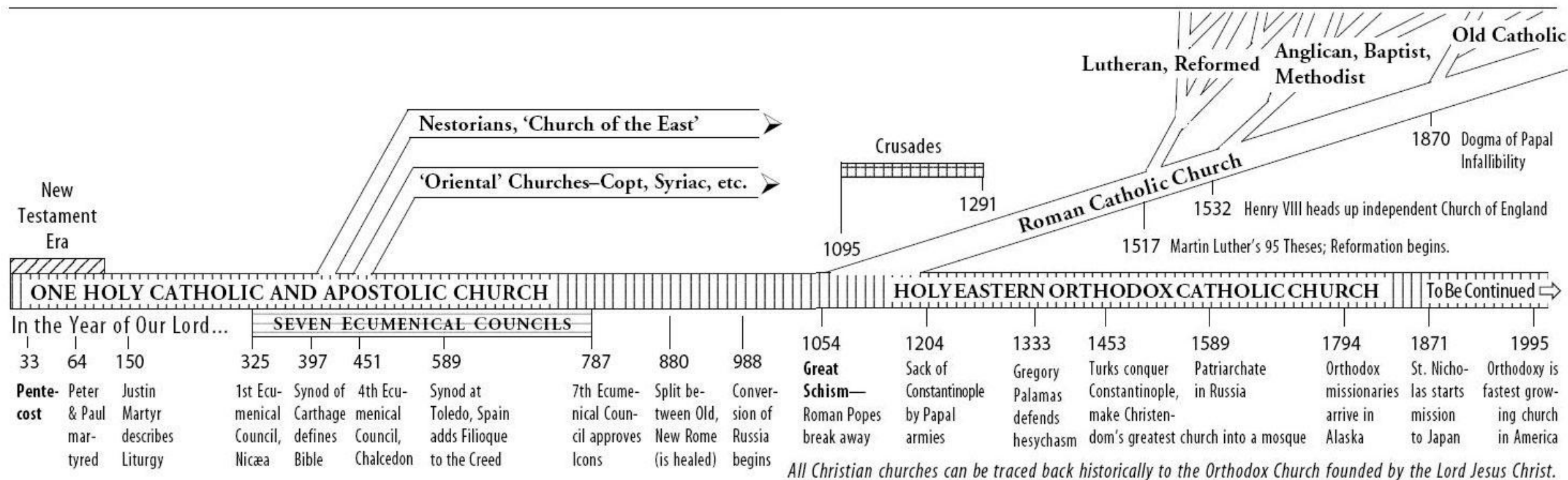
Roman Empire, c. 311 C.E.

# Battles for Believers and for Israel/Jerusalem



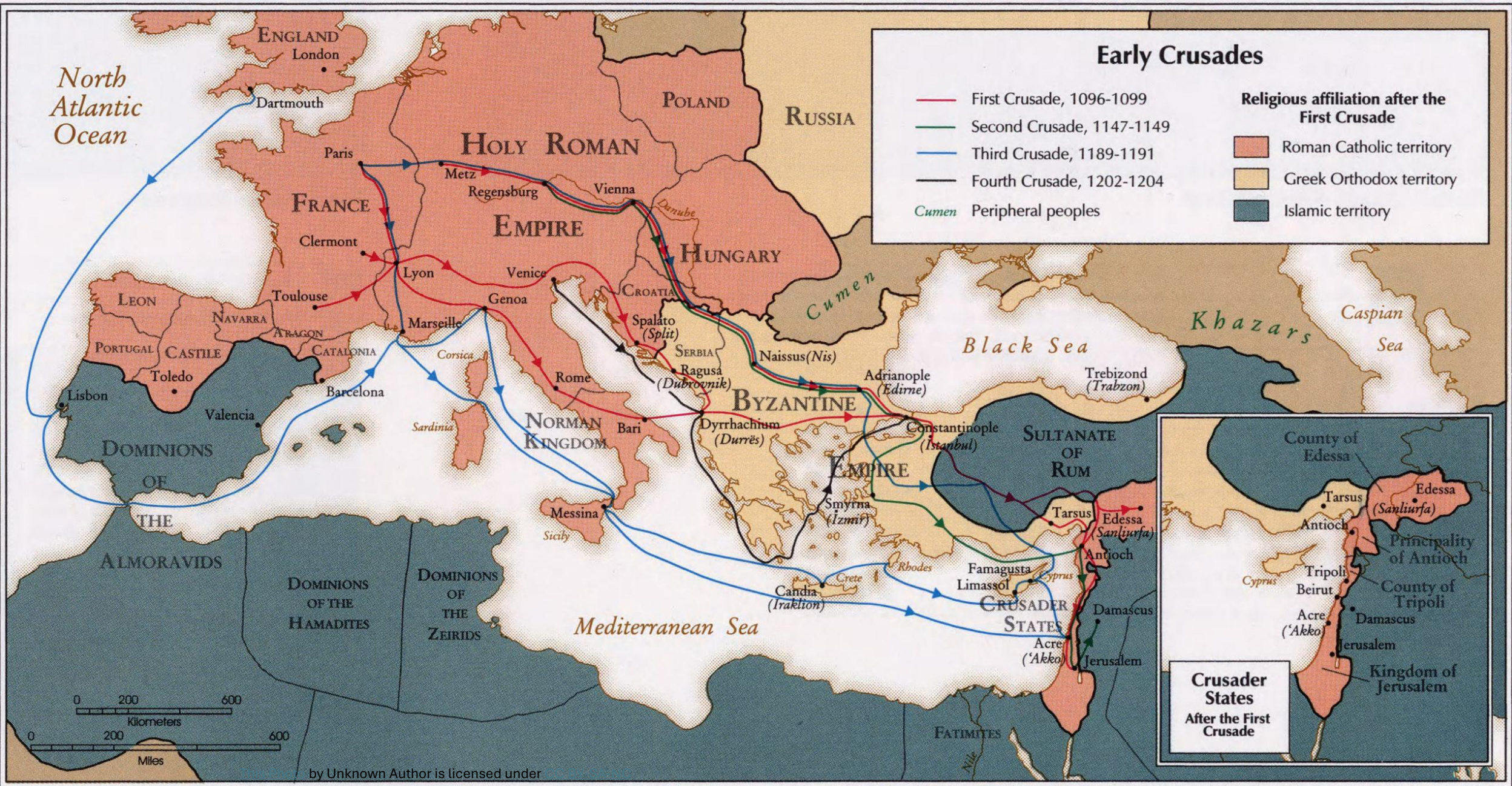
# Timeline – From the Early Church to the Present (The Church Age)

## TIMELINE OF CHURCH HISTORY



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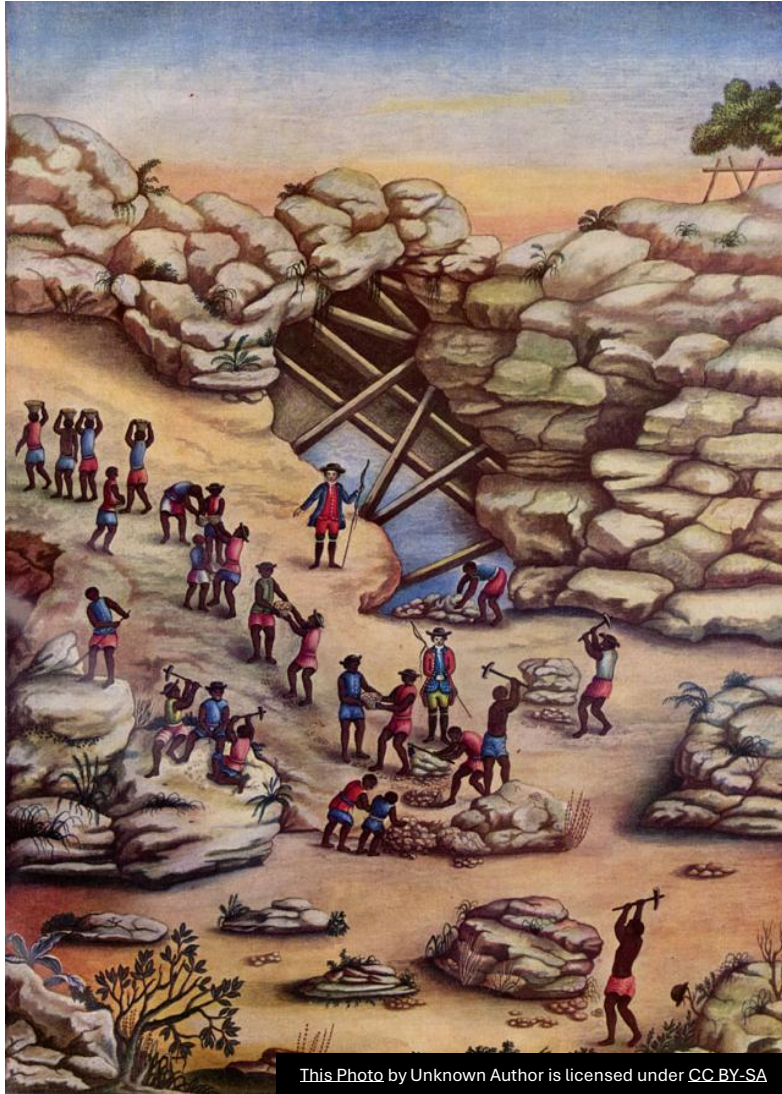


# The Rise of Islam and Arab Nations

- The Dispute over the Holy Lands would be a constant battle
- Christianity spread Worldwide
- Jews are scattered to many nations

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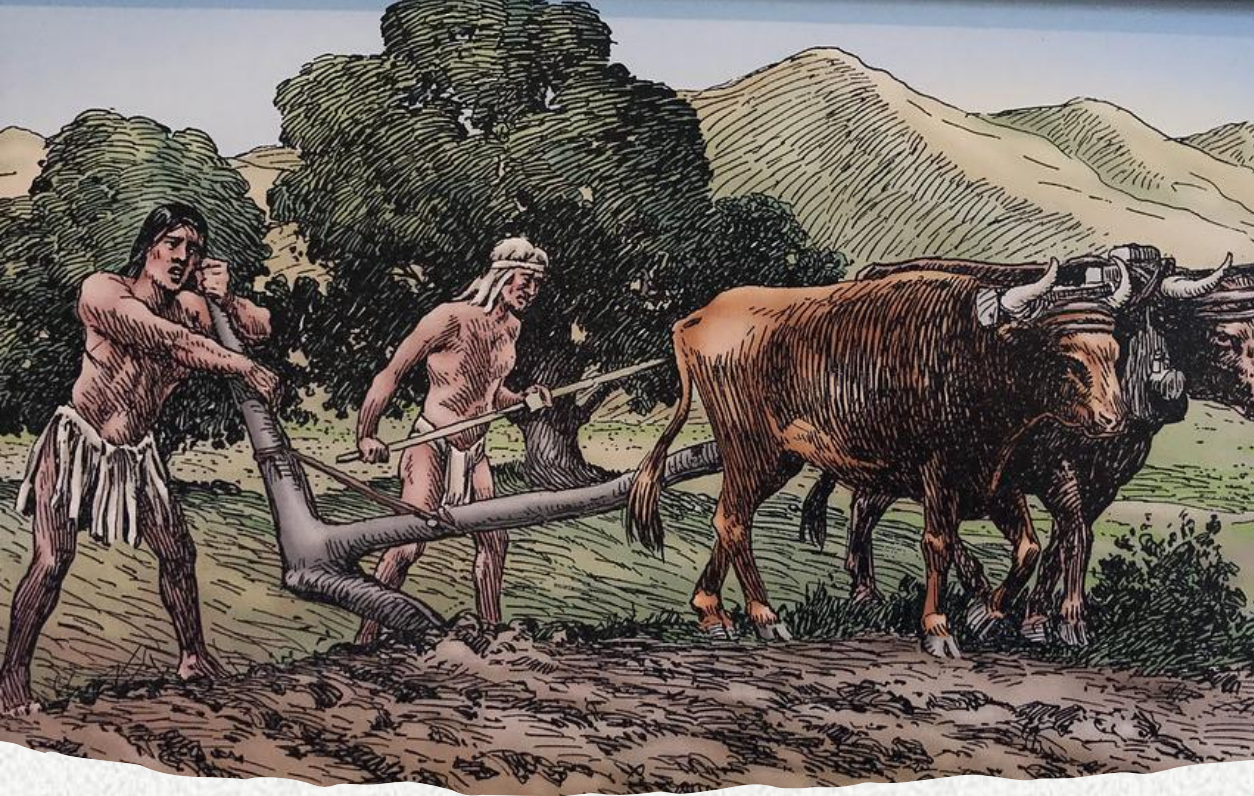


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LIFE IS  
DEFINED  
BY SOCIAL  
STATUS





# MODERN AGE

THE WAY OF LIFE IN THE EARLY MODERN AGE  
DEFINED BY RURAL OR CITY LIFE – NOMADIC OR SETTLED

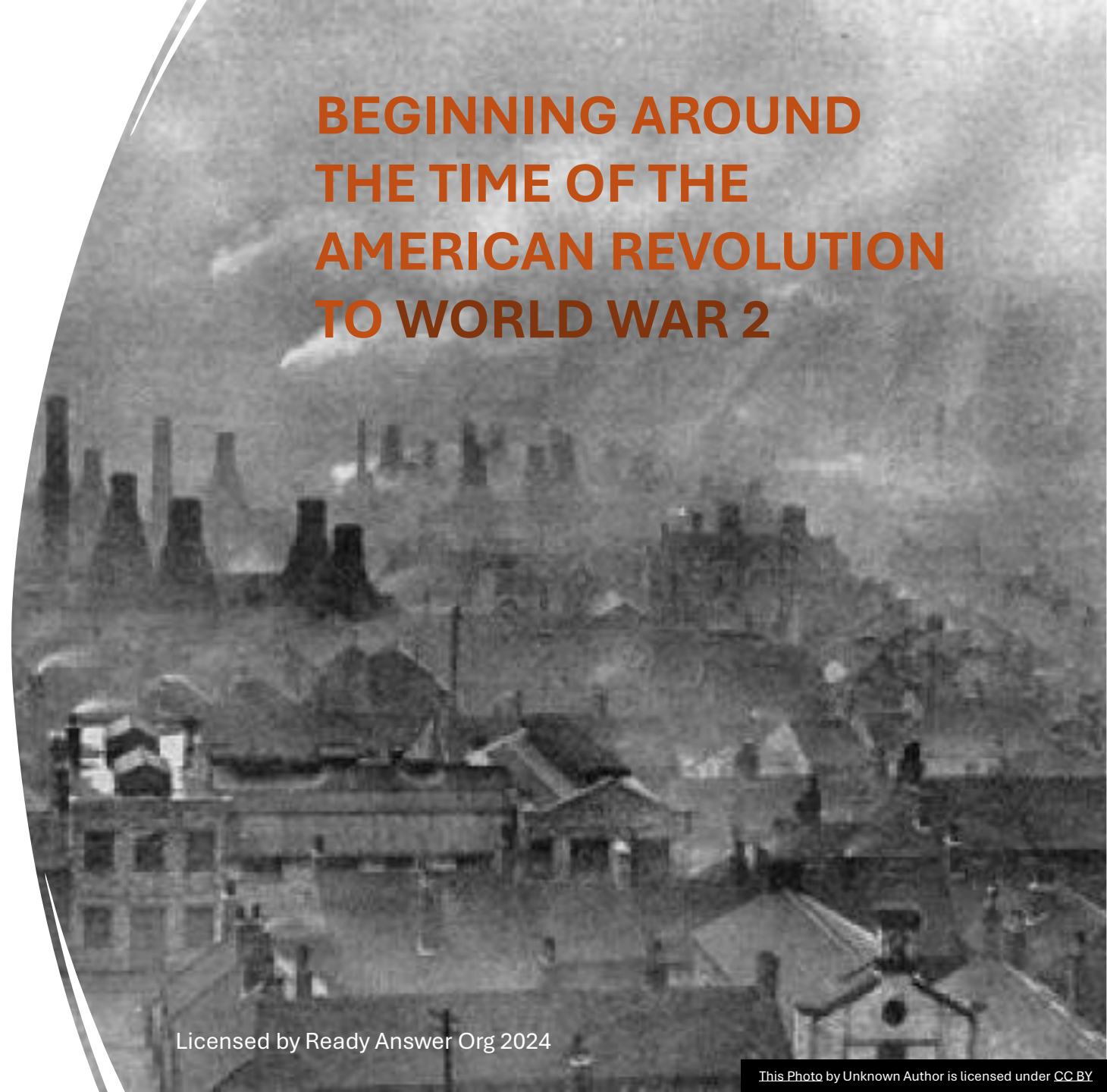


# The Industrial Age - Engines

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- The Steam Engine
- Coal, Gas, & Combustion Engines
- Railroad
- Manufacturing
- Automobiles & Planes
- **Eventually leading to Electricity and Electric Motors**

**BEGINNING AROUND  
THE TIME OF THE  
AMERICAN REVOLUTION  
TO WORLD WAR 2**



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## ISRAEL RE-ESTABLISHED

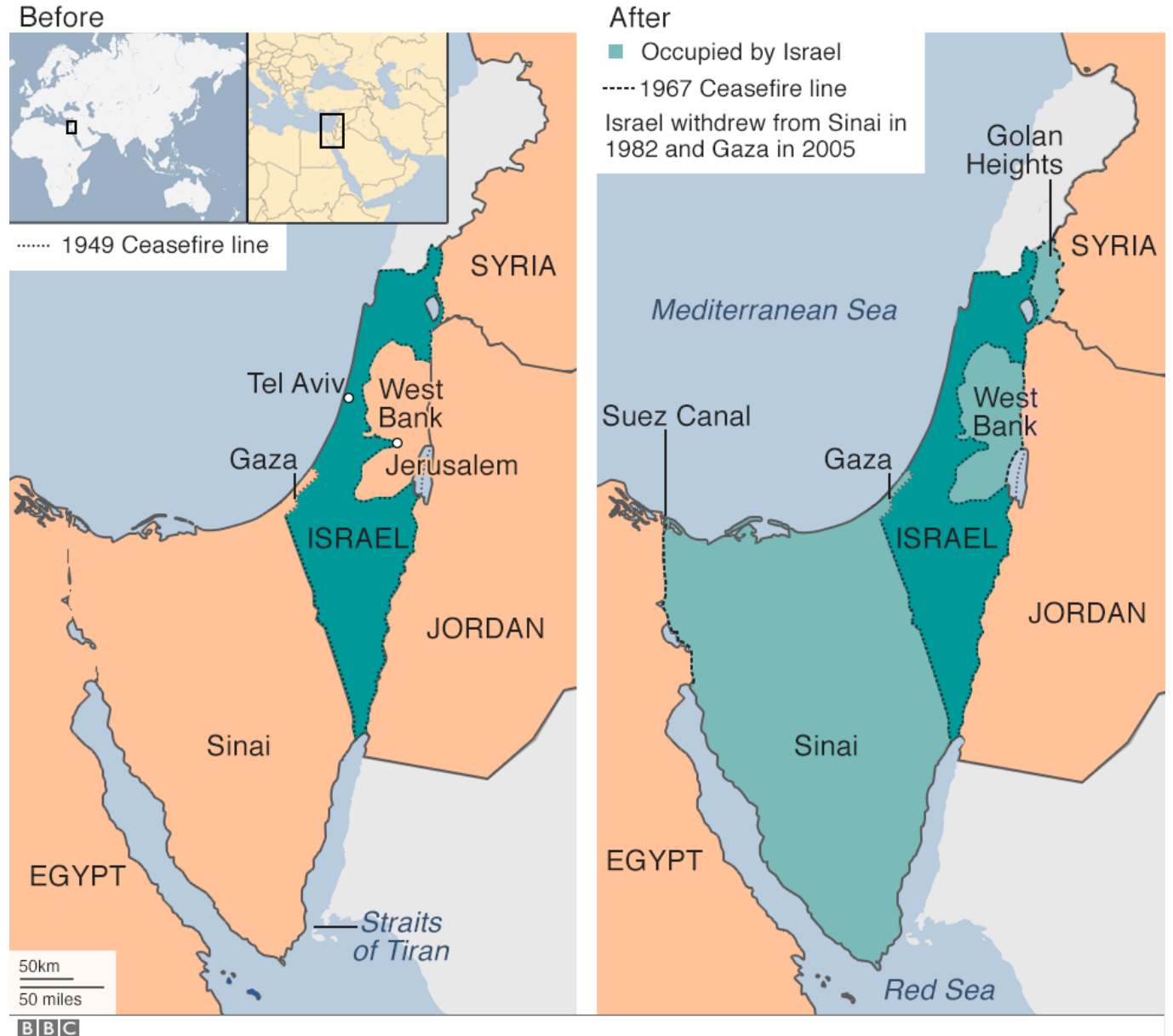
- After WWII, and the Holocaust, Israelis' land is reestablished on May 14, 1948
- Ceasefire Agreements are signed with Arab Nations in 1949
- Later, the Palestinian Authority positions (in green) are occupied to avoid further wars (since 1967)

## Six-Day War 1967 the Arab-Israeli War

Israel's Amazing  
Success (prevents an  
Arabic take-over)

Though Christians are  
set-apart from the  
world, our Judeo-roots  
remain. Pray for the  
Peace of Jerusalem.

### Before and after the Six Day War, 1967





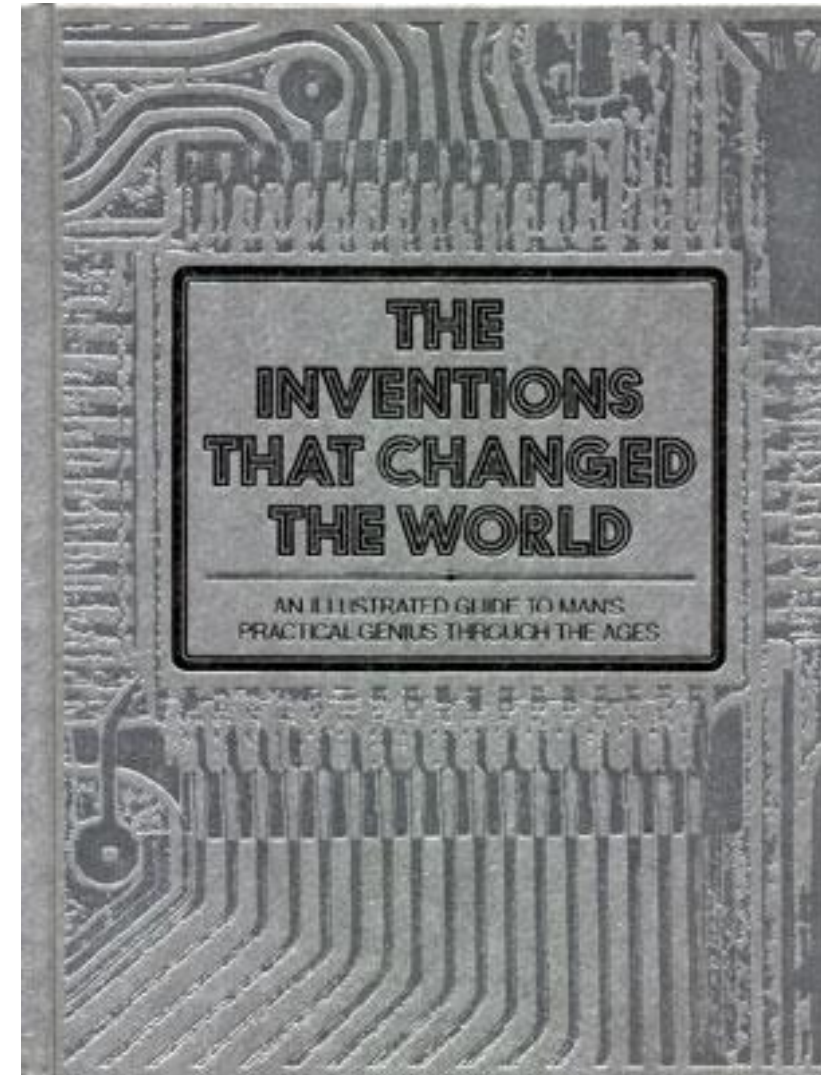


INVENTION  
TIMELINE -  
**MODERN TIMES:**

FROM THE INDUSTRIAL AGE TO THE  
INFORMATION AGE TO THE  
AGE OF ARTIFICIAL INTELLIGENCE

# ENGINES, ELECTRICITY, COMPUTERS

FROM the Printing Press to Computers  
The MODERN AGE truly changed  
people's way of life!



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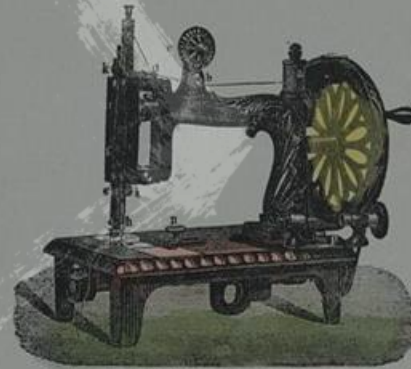
# Moveable Type...

- German inventor, Johannes Gutenberg, in 1455
- Knowledge Abounds



# MODERNIZING

- Pumps and Pumping Machines
- Peddle Machines
- Engines

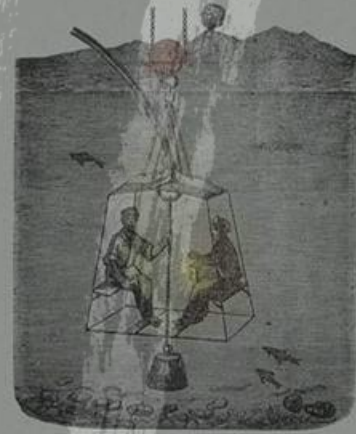


DE NAAIMACHINE.

Eene der nuttigste uitvindingen van den lateren tijd is de naaimachine. Zij is in verschillende soorten verkrijgbaar en zeer aan te bevelen voor naaiers, kleermakers, en menig anderen.



EEN BAROMETER.



DE DUICKERKLOK.

Met de duikklok daalt men tot op den bodem der zee; zij is onmisbaar om voorwerpen uit de diepte op te voeren, daar die zonder deze klok verloren moesten blijven.



HET WINDAS.



EEN KOMPAS ROOS.



Dit lichtje kan branden, zoo lang er lucht in het glas is.



Op zeeën en rivieren varen groote en kleine stoombooten tot vervoer van menschen, dieren en goederen. Er varen stoombooten naar alle oorden der wereld en op onze rivieren zijn ze van veel belang en gemak.



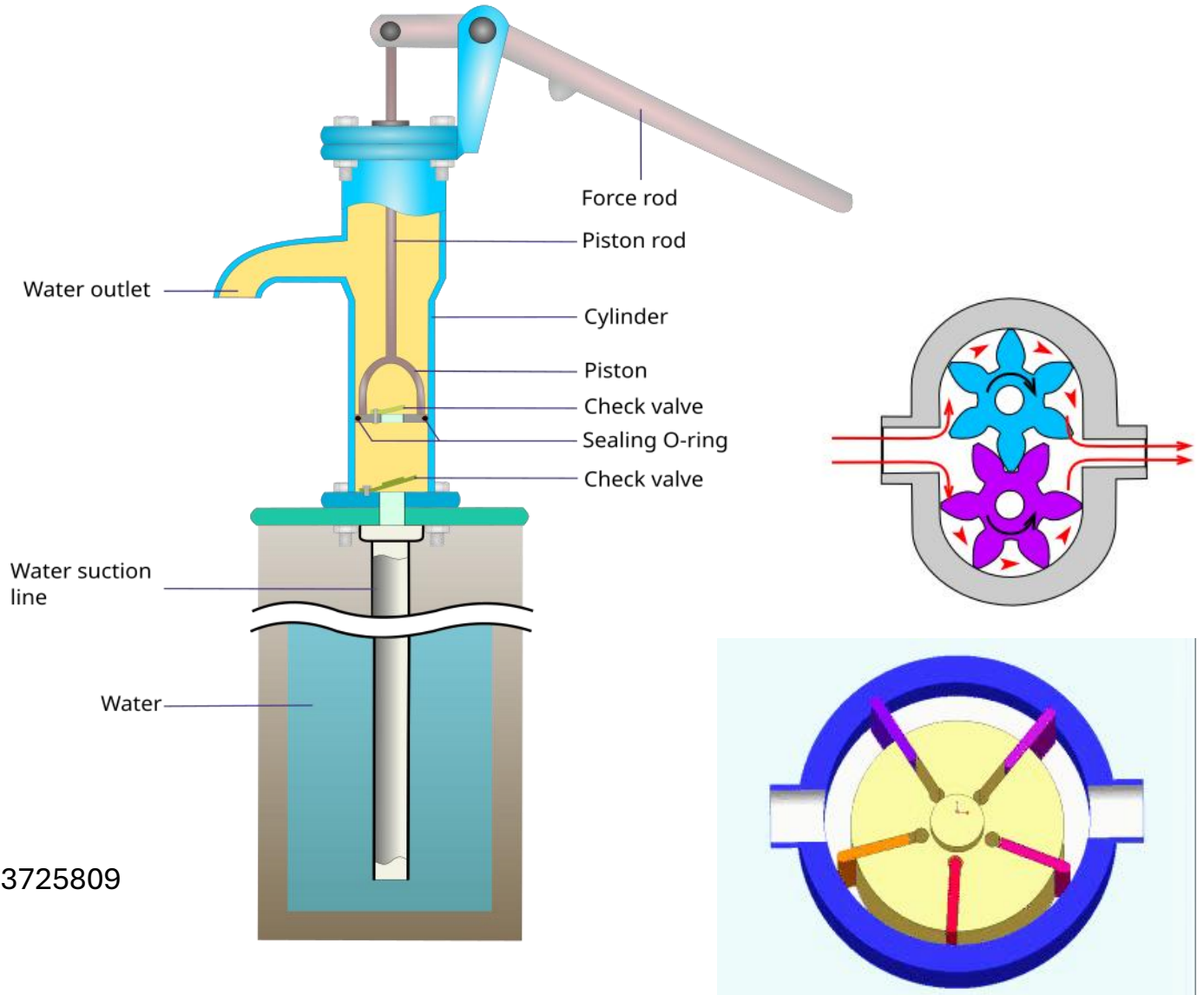
De eerste spoorweg in ons land, werd geopend in 1839, tusschen Amsterdam en Haarlem. Thans rijden door het gansche land spoortreinen, locaalspooren en trams, waardoor we in de gelegenheid zijn om in korten tijd groote afstanden af te leggen.



# PUMPS

- Pumps (hand and feet)
  - Water
  - Sewing
  - Piston (compression)
- Machine Pumps

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<https://commons.wikimedia.org/w/index.php?curid=3725809>



# Modern Machines

Extrusion Machines

Printing Press Machines

Textile & Sewing Machines

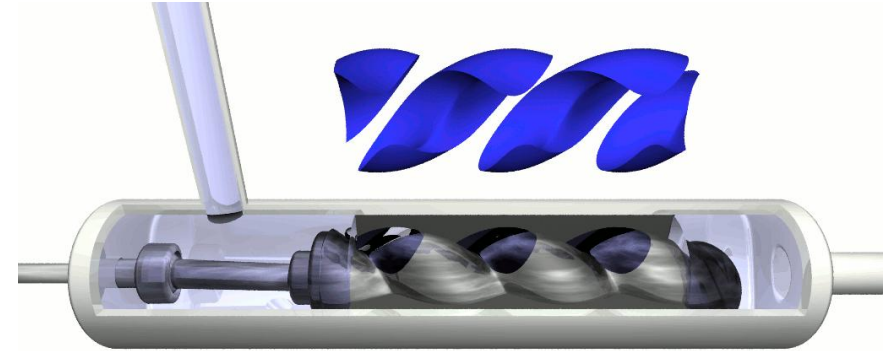
Hydraulics/Pneumatics

Steam Engines -- Railroad

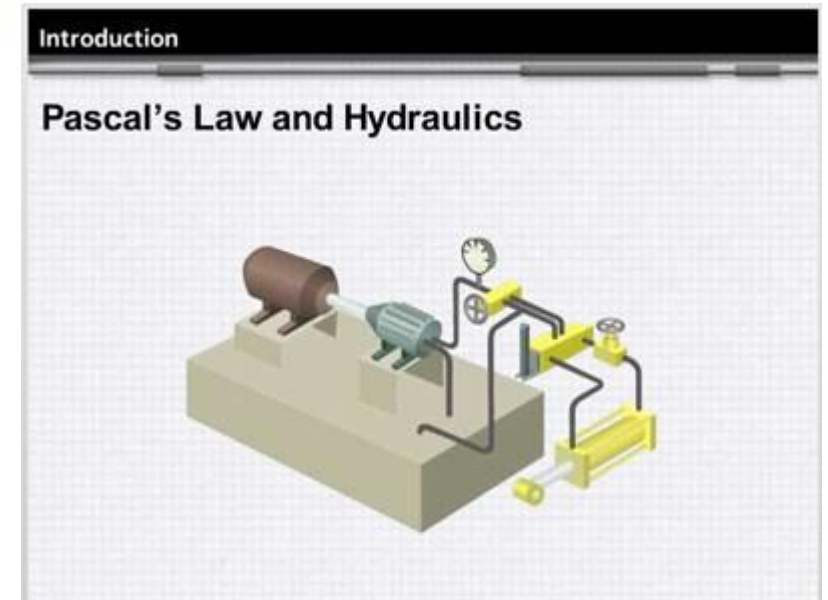
Compression Engines

Auto

Airplane



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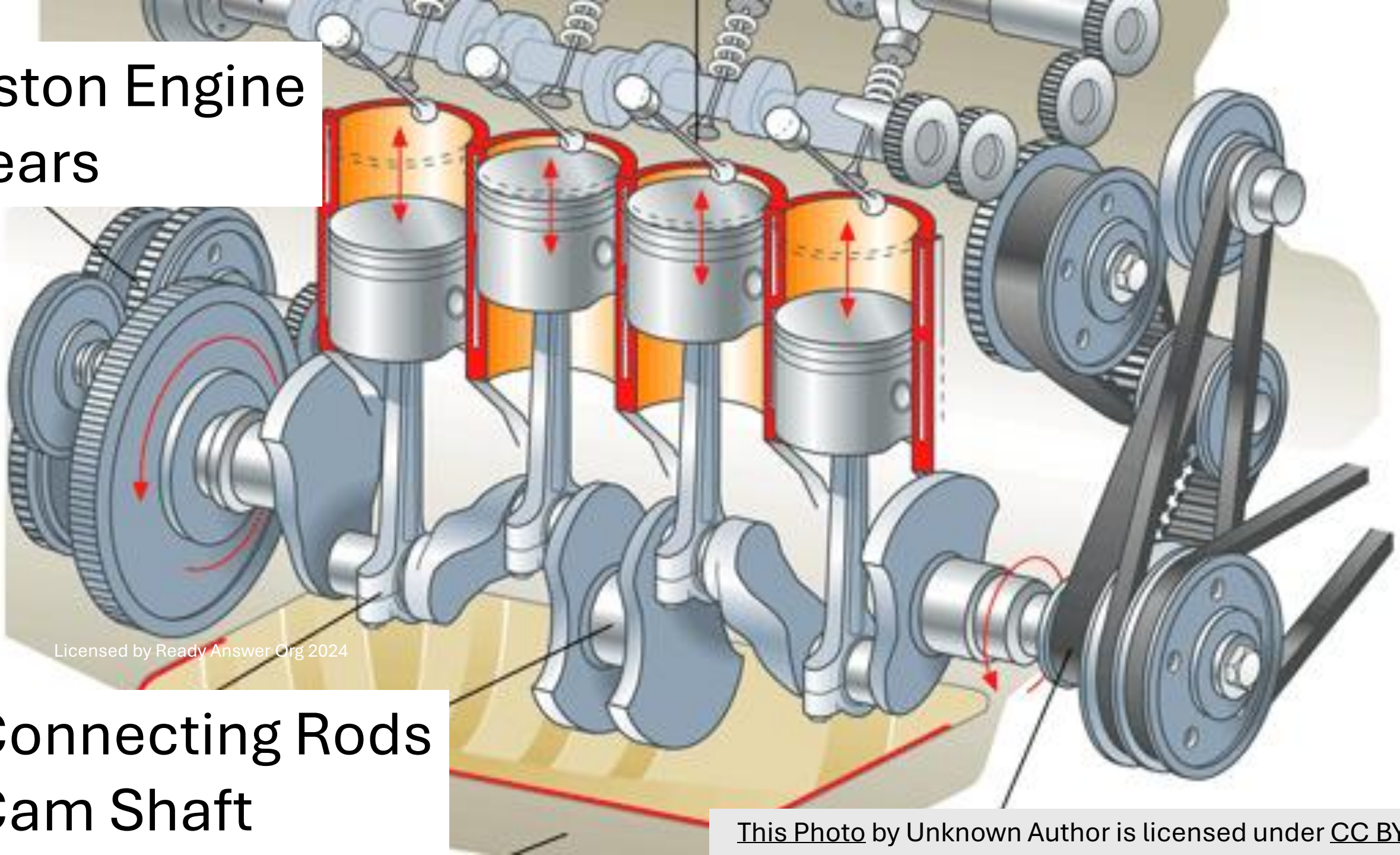
# The Engine Revolution

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# Piston Engine Gears



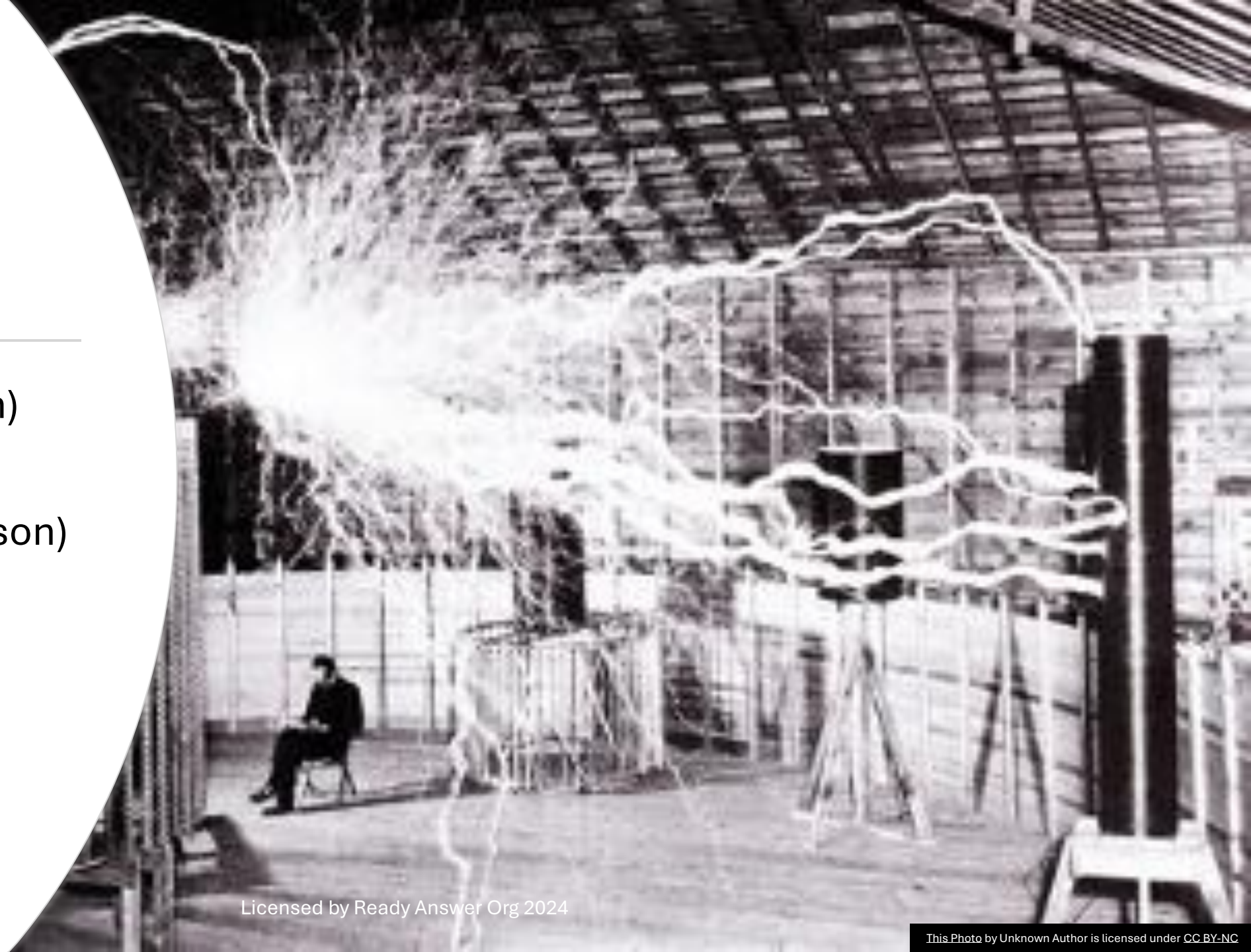
## Connecting Rods Cam Shaft

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# ELECTRIC REVOLUTION

- DC Current (Edison)
- AC Current (Tesla)
- The Light Bulb (Edison)



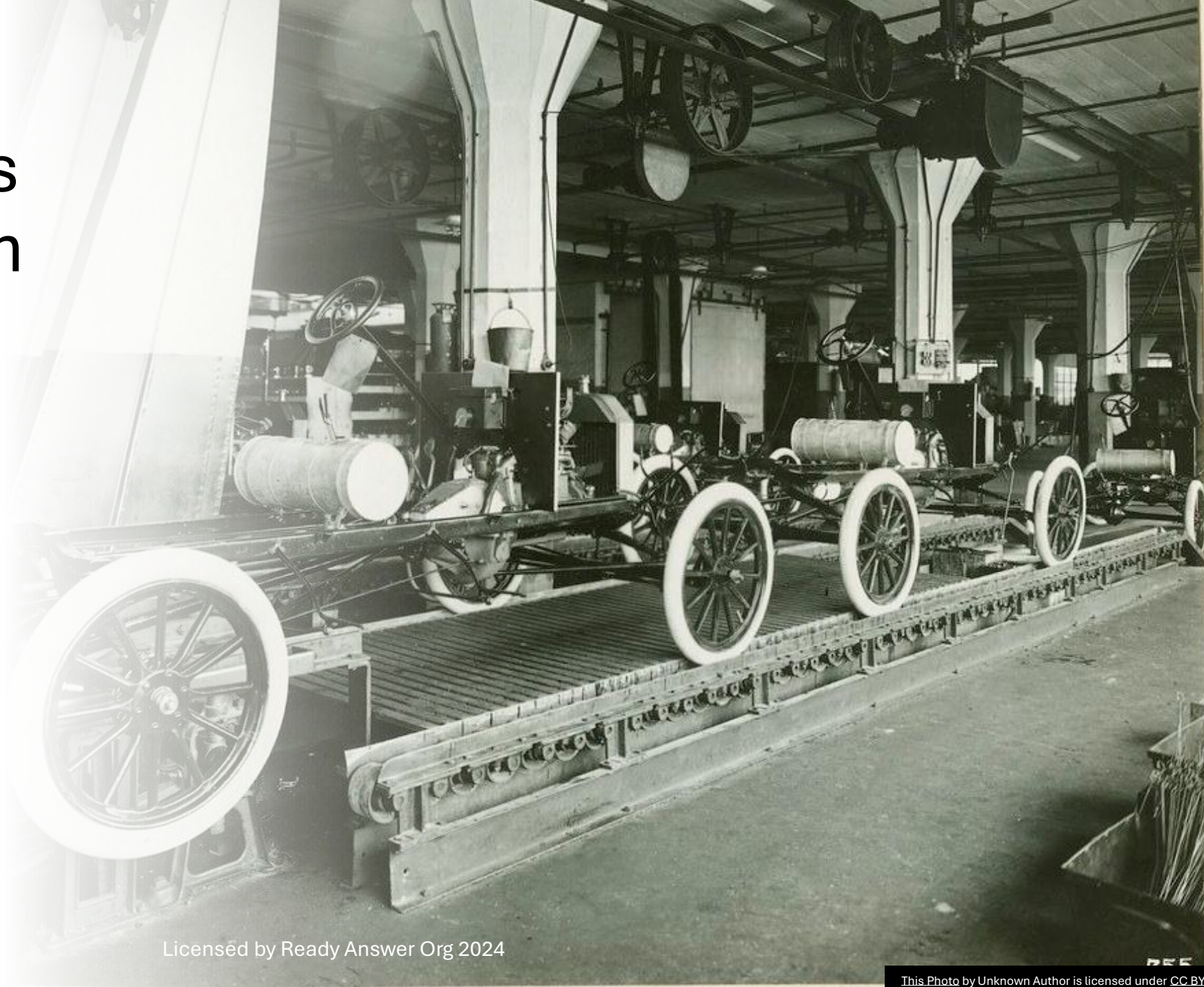
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# Assembly Lines and Automation

- Making Inventions Affordable
- Travel Accessible
- Production Faster
- Henry Ford
- From the Farm to the City



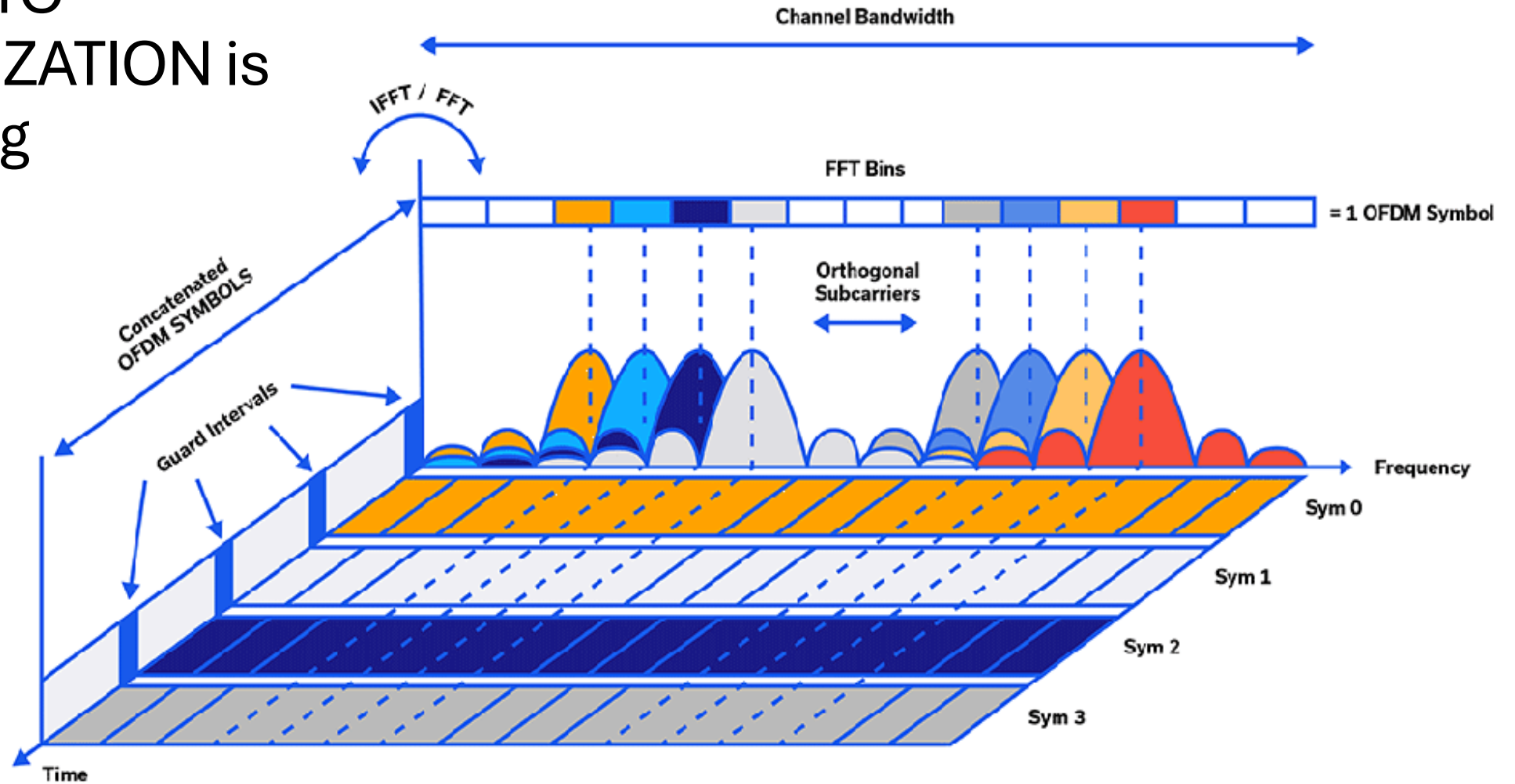
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# OUR KEY TO MODERNIZATION is Harnessing Light

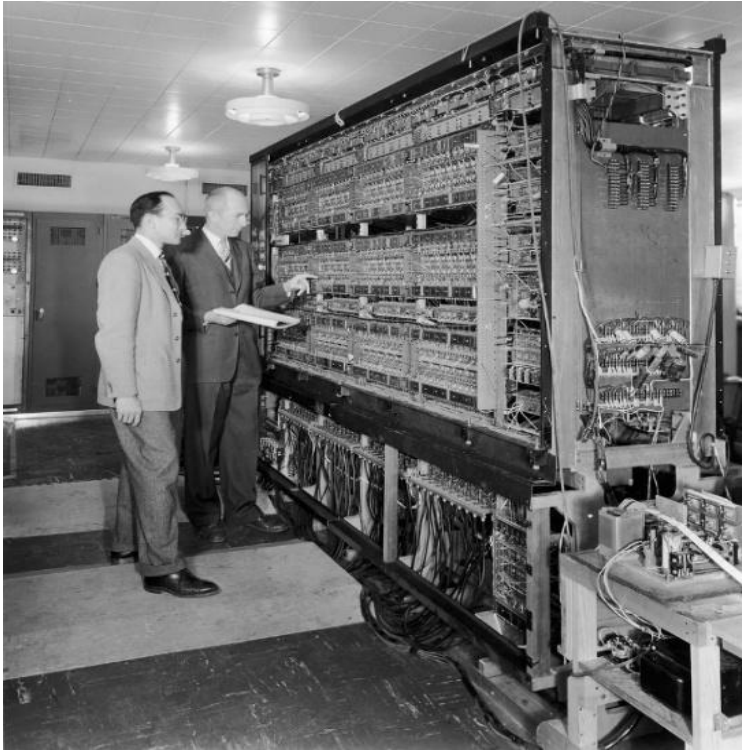
1. Electricity
2. Radio/TV
3. Telegraph &
4. Telephone
5. Computers
6. Artificial Intelligence



# Radio, Telephone, & Television







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# COMPUTERS



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From MAINFRAME COMPUTERS that filled a room  
To PERSONAL COMPUTERS that sat on a desk

# Technology Thrives

- The INTERNET IS BORN
- The INFORMATION AGE has arrived
- COMMUNICATION SYSTEMS are revolutionized



Not only do we need light, but every element on earth is a product of light. Harnessing light has transformed our entire way of life. From static electricity to nuclear power (releases gamma radiation/light), light exposes the possibilities and wonders of our world.

- **Psalms 18:28** “You, Lord, keep my lamp burning; my God turns my darkness into light.”



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## Light in the Darkness

# REMEMBER THESE THINGS



We often use a “light bulb” as a symbol for a new idea or understanding. A simple electric light bulb in a dark closet or room can make all the difference in finding something you need to find. Darkness is the absence of light. Darkness is NOT an entity itself. It cannot exist where Light rules. Light expels darkness in a way that fills and overcomes that which is empty or lacking.

**John 1:5** <sup>5</sup> *The light shines in the darkness, and the darkness has not overcome it.*