

TRANSPORT AND COMMUNICATIONS

FROM THE INDUSTRIAL REVOLUTION
TO THE PRESENT

Why were the railways built?

Trade

Cost

Reliability

Population growth

Objections to the railways

It could cause health problems

Railways passing through lands

Smoke could destroy crops

Noises could scare animals

People didn't want men and women in the same carriage

Consequences

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graph TD; A[Consequences] --- B[Social]; A --- C[Political]; A --- D[Economical];
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Social

Political

Economical

THE RAILWAY FEVER

This period brought rails out of the experimental field and into the application of common use.

The first passenger railway, opening in 1825, was the Stockton-Darlington, engineered by George Stephenson.



Quite a few countries now use high speed trains which can carry passengers at speeds of over 300km/h.

At the moment they can go more than 500km/h, but some engineers think speeds of over 1000 km/h are possible.



Now trains pass:

Up hills



Through mountains

Under the sea
(Eurotunnel)



The Wright brothers



Airplanes during:

World War I



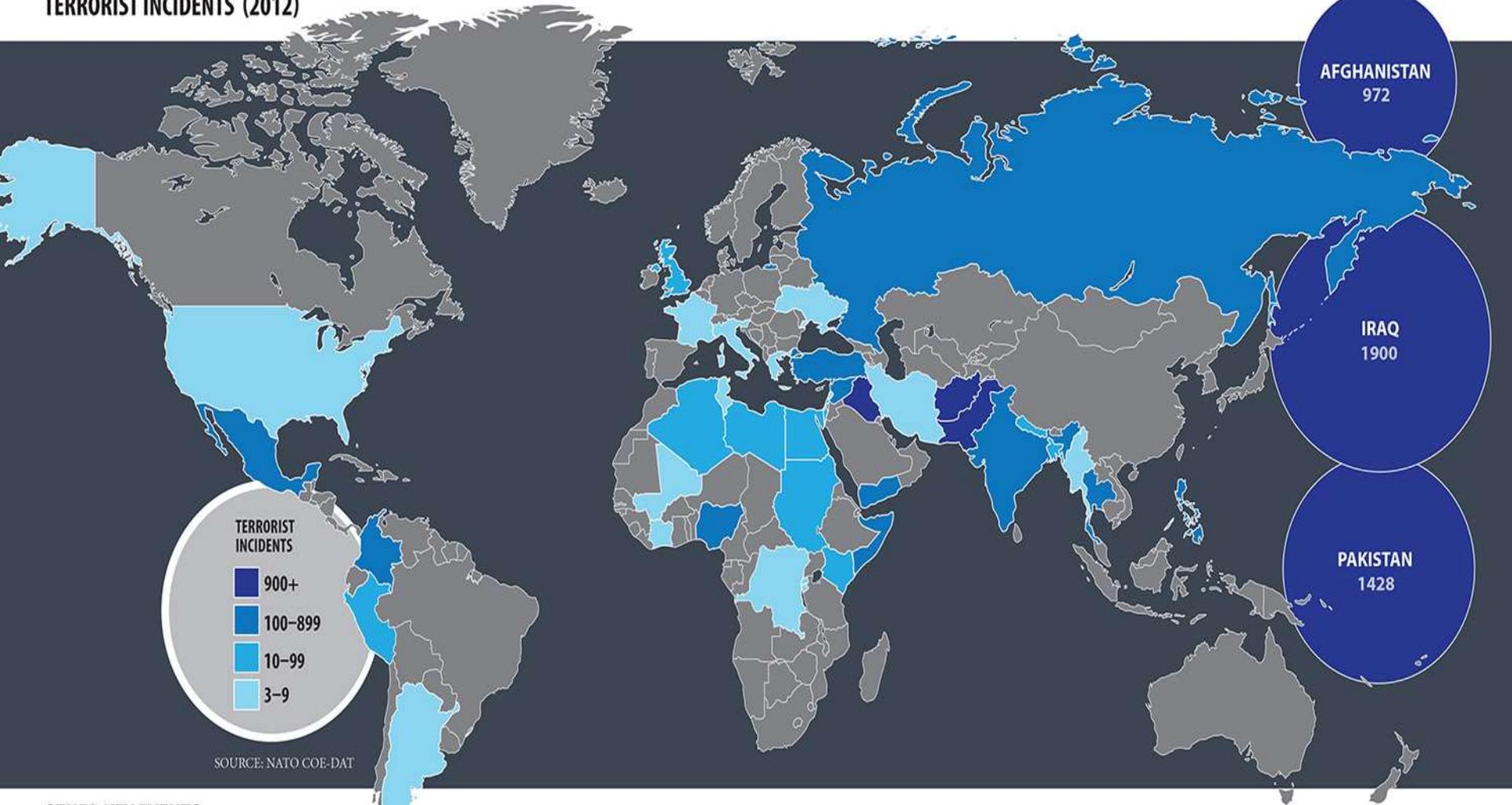
World War II



Today



TERRORIST INCIDENTS (2012)



OTHER KEY EVENTS

AZERBAIJAN

January and March—Authorities arrested more than 20 individuals for planning attacks.

INDIA

February—A car bomb injured the Israeli Ambassador's wife and driver in New Delhi.

FRANCE

March—A gunman carried out three separate attacks, killing seven.

GERMANY

May—Authorities arrested four individuals for planning an attack.

BULGARIA

July—A bus bomb at Burgas International Airport killed seven.

LIBYA

September—The American Ambassador to Libya, three American diplomatic staff and seven Libyans were killed in an attack.

POLAND

November—Authorities arrested an individual for planning an attack on the Polish Parliament.

THAILAND

January—Authorities arrested an individual for planning to attack Western targets.

GEORGIA

February—A bomb was found in an Israeli Embassy car in Tbilisi.

DENMARK

May—Authorities arrested two individuals for planning an attack.

GREECE

June—A van rammed through the entrance of an office building and an incendiary device was detonated.

SPAIN

August—Authorities arrested three individuals for planning an attack.

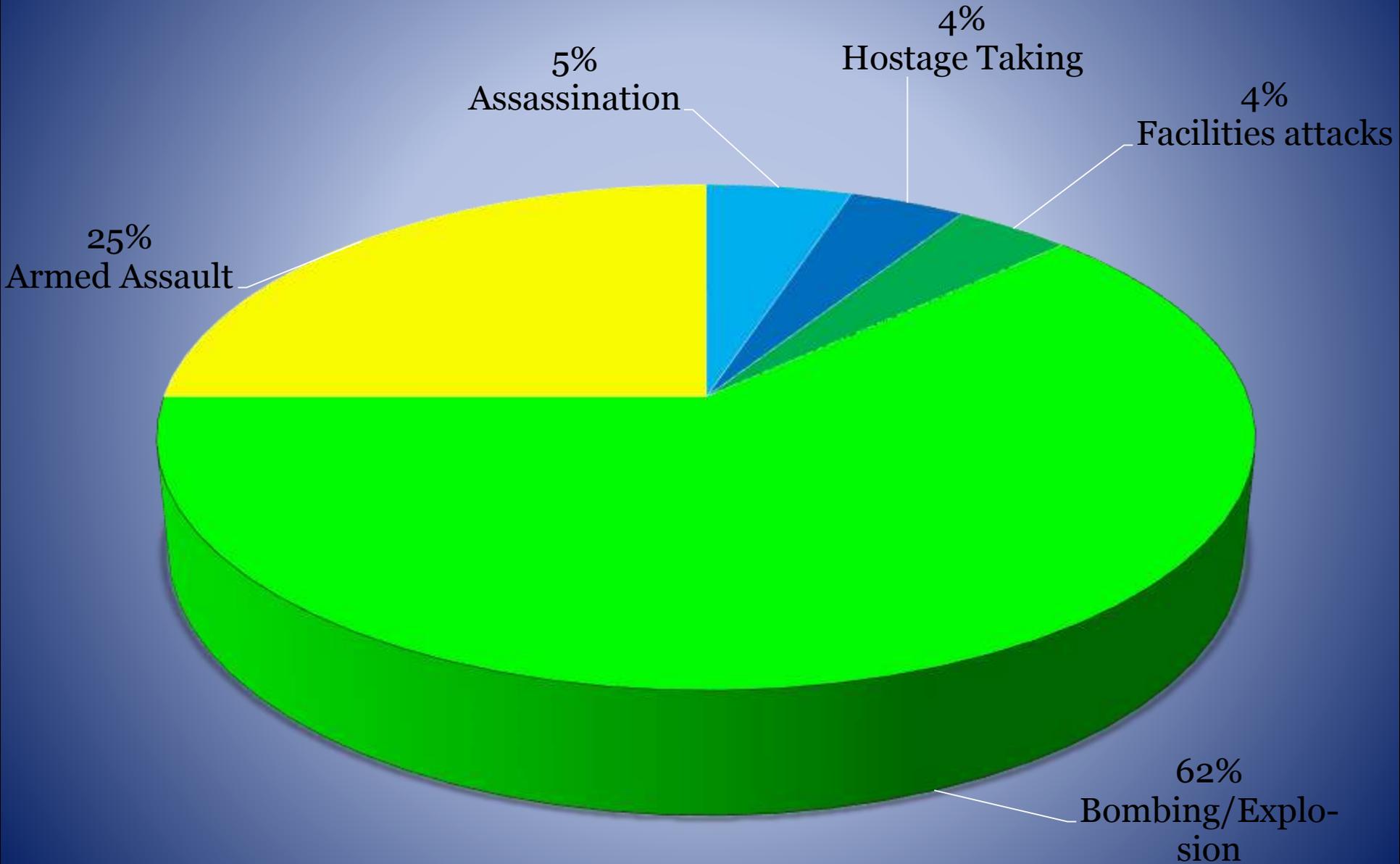
INDONESIA

October—Authorities arrested 11 individuals for planning to attack Western targets.

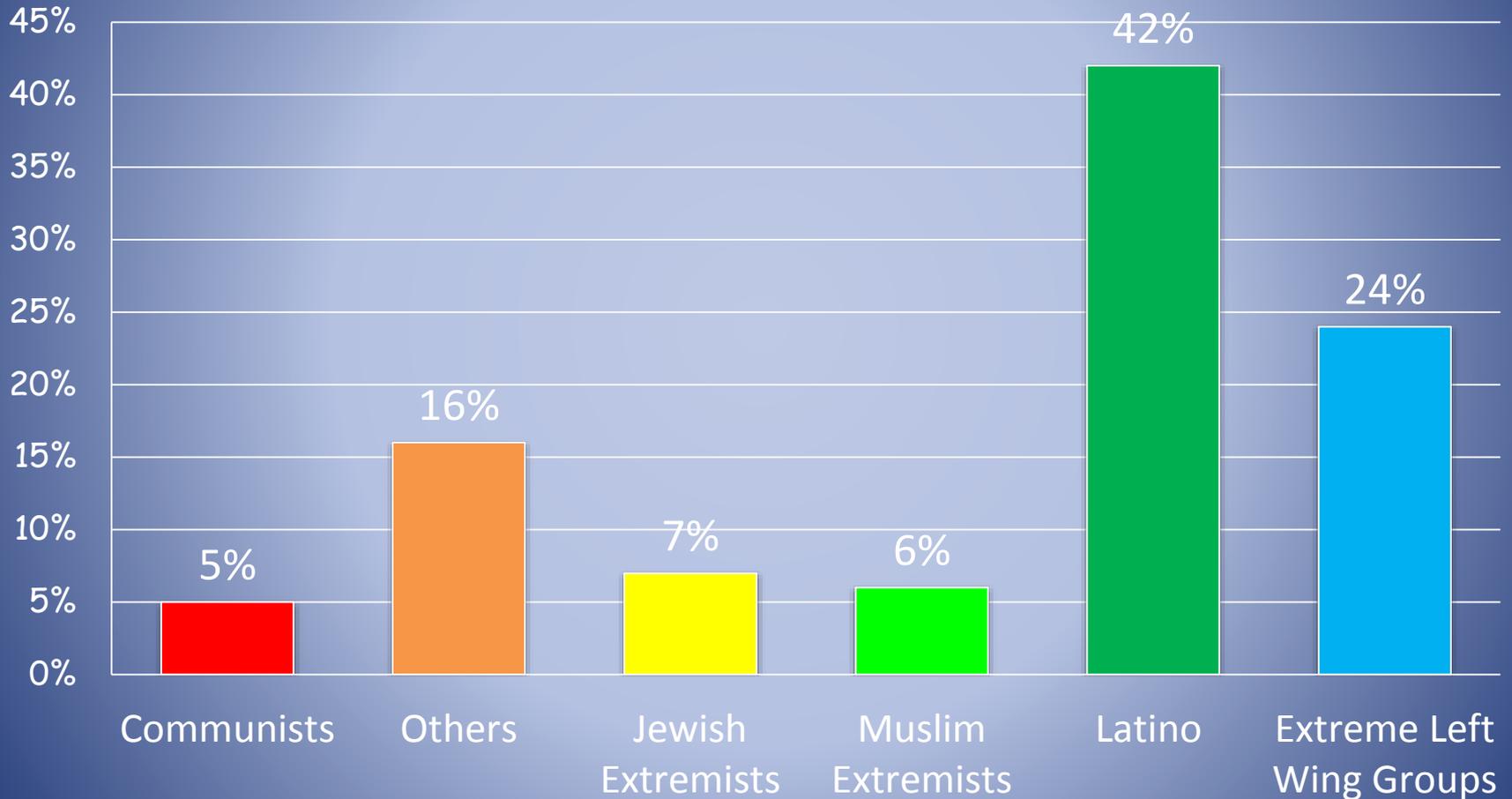
GAZA/ISRAEL

November—Conflict erupted between Israel and Palestinian armed groups based in Gaza, killing six Israelis and 177 Palestinians.

Tactics used in Terrorism Attacks Worldwide, 2012



FBI Terrorism Attacks

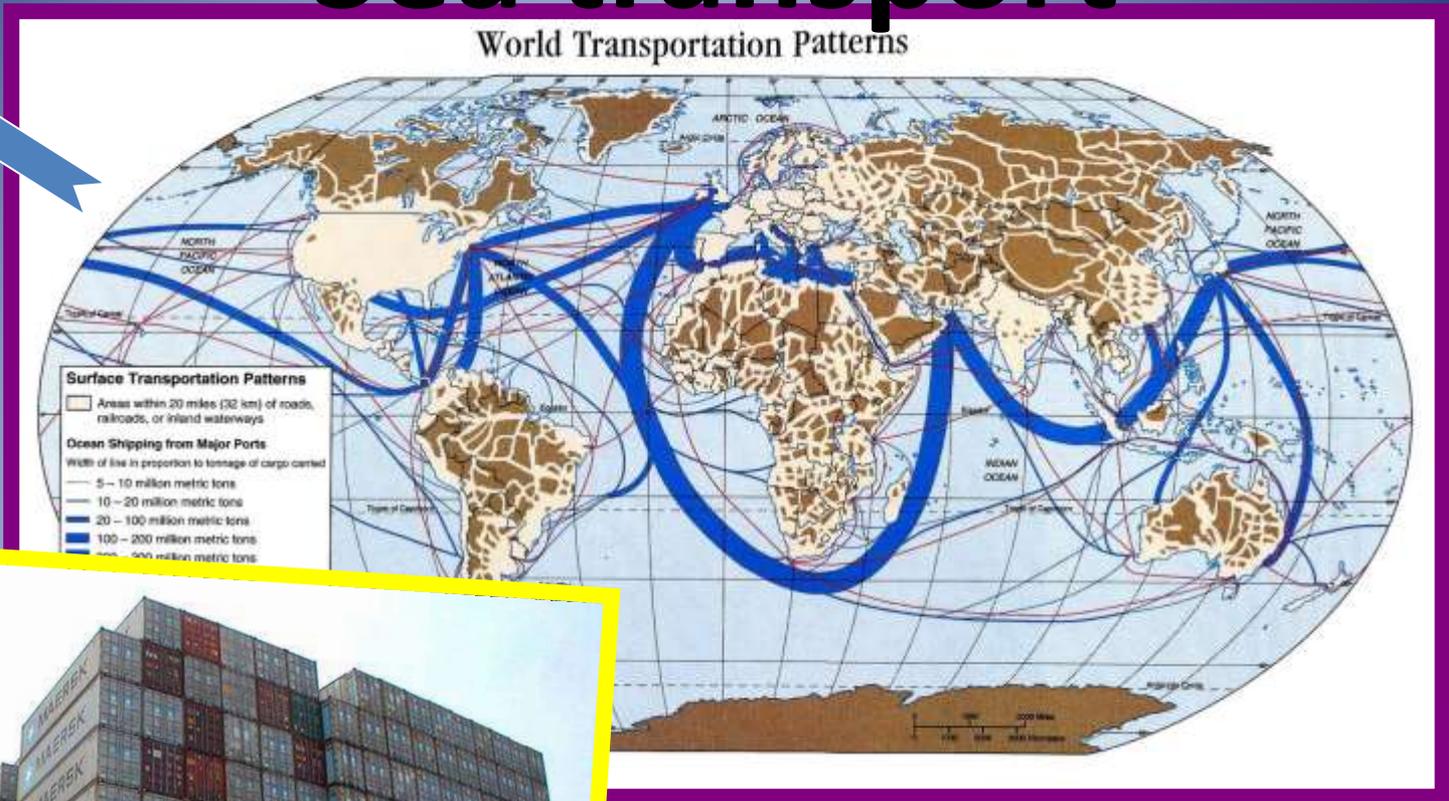




**STAND UNITED AGAINST
TERROR & SM**

Sea transport

Sea transport services world trade by connecting markets in different parts of the world at low cost



CARS

The history of the automobile begins as early as 1769, with the creation of the steam energy, automobiles started to be able to transport humans.

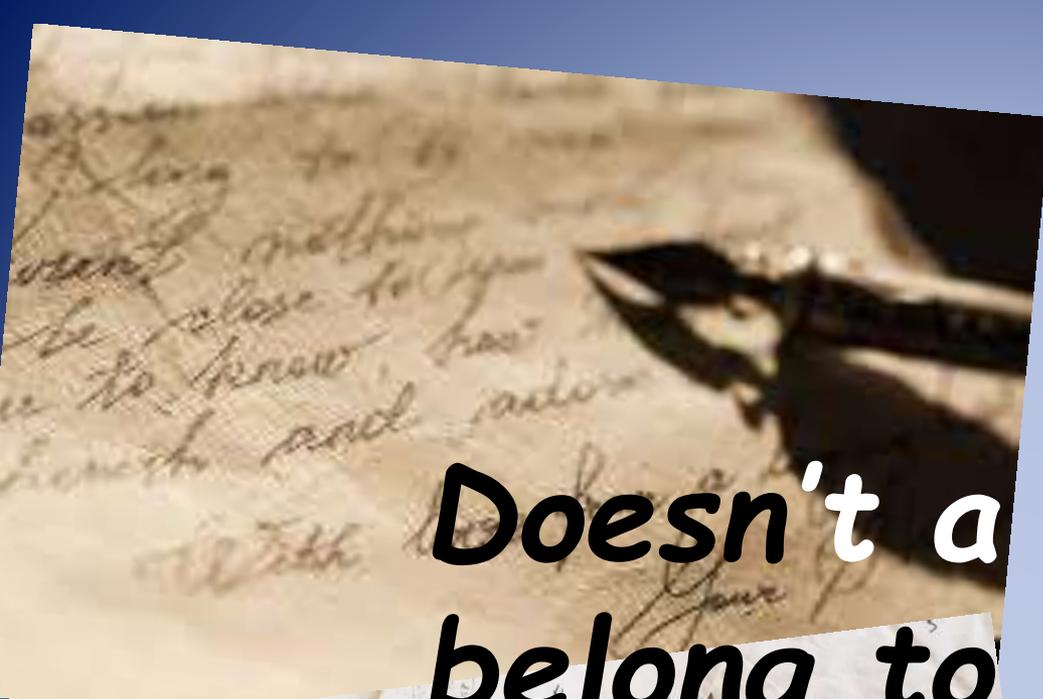


Cars in the future



COMMUNICATION





Doesn't a letter
belong to
by-gone
days?



**In the earlier days,
people used
animals for
sending mail..**



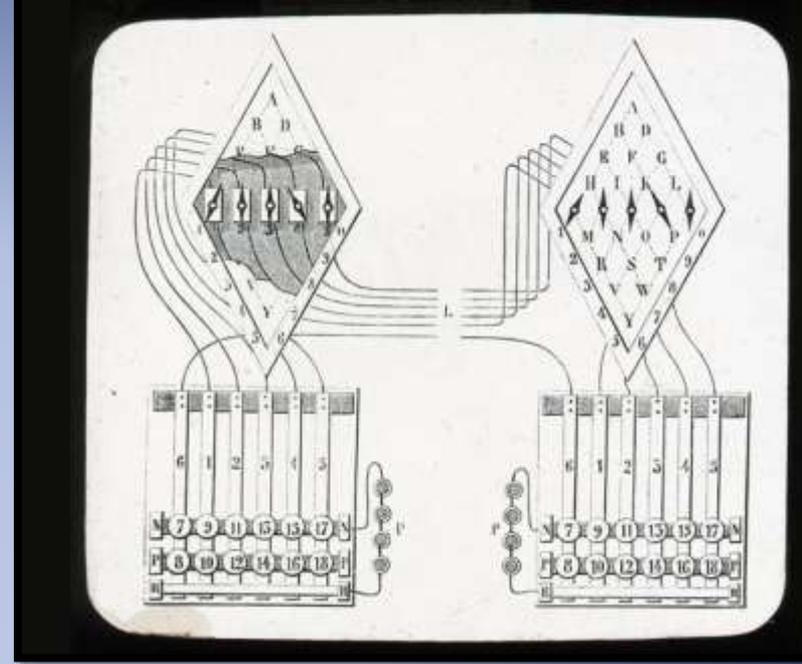
**..this method was also used
in the military and navy to
convey orders from one post
to another**



The Telegraph



- In the 1830s, a British team developed a telegraph system with five magnetic needles that could be pointed around a panel of letters and numbers by using an electric current. This system was soon being used for railroad signalling in Britain.



- To transmit messages across telegraph wires, Morse and Vail created what came to be known as Morse code. The code assigned letters in the alphabet and numbers a set of dots and dashes.



A	·-	J	·-·-·-	S	···	1	·-·-·-·-
B	-···	K	·-·-	T	-	2	·-·-·-·-
C	-···-	L	·-···	U	·-·-	3	·-·-·-·-
D	-···	M	-·-	V	·-···	4	·-·-·-·-
E	·	N	-··	W	·-·-·-	5	·-·-·-·-
F	·-···	O	-·-·-	X	-···-	6	·-·-·-·-
G	-·-·-	P	·-···-	Y	-···-	7	·-·-·-·-
H	····	Q	-·-·-·-	Z	-···-	8	·-·-·-·-
I	··	R	···			9	·-·-·-·-
						0	·-·-·-·-



Radio

The world started to become a much smaller place in the minds of many people



Television

Radio and television play a vital role in the lifestyle of people..



They inform people about various things in various ways and through a variety of programmes



Internet

Fifteen years ago only a few people knew what Internet was. Nowadays, it has become the most influential and powerful medium in all the world.



E-commerce

E-commerce refers to the buying and selling of products and services via the Internet.





The telephone



- The invention of the telephone lead to the development of city centres, office buildings and the concept of an urban worker society. It has lead to the creation and destruction of jobs.



It has changed businesses and made the world smaller and more accessible to all.



INDUSTRIAL REVOLUTION TRANSPORT AND COMMUNICATIONS

WHY WERE THE RAILWAYS BUILT?

- **Trade:** railways would link areas with mines and factories directly to ports.
- **Cost:** raw materials and manufactured goods could be transported more cheaply.
- **Reliability:** railways were almost always able to transport goods.
- **Population growth:** the increase in population meant an increase in demand for the distribution of goods.

OBJECTIONS

- Parliament did not like passing Acts for railways because they were worried that the fast speeds of trains would cause health problems for passengers.
- Farmers and landowners did not like the idea of new railway tracks passing through their farm land.
- Some people did not like the idea of men and women travelling in the same carriage.

The *Railway Fever* of 1825-1826 proved the utility of railroads both for conveying passengers and goods. This period brought rails into the application of common enterprise. The first passenger railway opened in 1825.

TRAINS NOWADAYS

Quite a few countries now use high speed trains. Trains can carry passengers at speeds of over 300km/h.

AIRPLANES

The inventors of the first airplane were Orville and Wilbur Wright. In 1903, the Wrights made the first successful experiment in which a machine carrying a man rose by its own power, flew naturally and at even speed, and descended without damage. Now from all of these options of transportation, the airplane is one of the most important that has changed people's lives. The airplane is also used in the war as a powerful weapon.

TELEPHONE

To make communicating with one another easier and faster someone invented telephone. It not only made communicating with others who were miles away much quicker, it also spawned the growth of many businesses since it made communication much easier.

The telephone was actually discovered by Bell in his attempts to improve the telegraph.

TELEGRAPH

In the 1830s, a British team developed a telegraph system with five magnetic needles. This system was soon being used for railroad signalling in Britain. During this time period, Samuel Morse worked to develop an electric telegraph of his own. He created the Morse Code.

INTERNET + E-COMMERCE

Internet soon became the most influential and powerful medium in all world. In Internet, there are thousands of sites, where you can find different services and bases of information. Internet were initially developed in 1973 by American computer scientist as part of a project sponsored by the ARPA.

The Internet began as a computer network ARPAnet that linked computer networks. Electronic commerce operates in all four of the major market segments. It can be thought of as a more advanced form of mail-order purchasing. E-commerce has allowed firms to establish a market presence by providing a cheaper and more efficient distribution chain.

CARS

The first modern automobile was invented by Karl Benz in 1886. In terms of the lives of average people, there is little doubt that the automobile is the most revolutionary invention in the history of transportation since the wheel.

SEA TRANSPORT

The Maritime Transportation System is global in nature, in that it services world trade by connecting markets in different parts of the world, moving cargoes and commodities all over the world at low cost.

At the same time, the maritime transport industry tends to be “invisible” in people’s daily lives, but it is an indispensable component of the world economy.

COMMUNICATION: PIGEONS AND LETTERS

Writing letters were one of the most basic forms of communication. Mail also has its own history; and it had a lot of different improvements over the years. In the earlier days, people were using animals for sending mails. Most used were pigeons. Pigeons have an excellent sense of direction and can easily find their way. Up to this present time, pigeon posts continue to be useful in the most remote places where electricity and Internet are unavailable. This method was also used in the military and navy to convey orders from one post to another.

RADIO & TELEVISION

Between the 1920’s and 1950’s many radio shows were broadcast, and gathering around the radio in the evening was a common form of entertainment. People, regardless of where they were located and what class they belonged to, could tune in to listen to news, sports broadcasts, comedy shows, dramas, live music and political addresses. Radio was a way for people to escape the care of their everyday lives. The world began to become a much smaller place in the minds of many people as they began to see that we were all, in a way, interconnected. Using radios in education allowed students to see a broader spectrum of the world around them. They were introduced to more worldly views and had access to much more information. But many people saw the limitations of only using hearing as a teaching tool. The idea that videos and television could reach the same number of people and incorporate sight started the rise in educational television and audiovisual education.