



INTERCONNECTION

QUESTION!

- Think to yourself and write down what ways our world is interconnected and some examples of how we are connected to other places

INTERCONNECTION

- The concept of interconnection emphasises that no object of geographical study can be viewed in isolation. It is about the ways that geographical phenomena are connected to each other through;
 - environmental processes;
 - the movement of people;
 - flows of trade and investment;
 - the purchase of goods and services;
 - cultural influences;
 - the exchange of ideas and information;
 - political power and international agreements.

WHY IS OUR
WORLD
"SHRINKING"?

FALLING COSTS OF COMMUNICATIONS

1500–1840



Best average speed of horse-drawn coaches
and sailing ships was 10 mph

1850–1930



Time/space
convergence
affects some
places more
than others.
It depends
on the
connections

Steam trains averaged
65 mph
Steam ships averaged 36 mph

1950s



Propeller aircraft
300–400 mph

1960s



Jet passenger aircraft
500–700 mph

1990s



Cyberspace
information in seconds

Morse code
to telephone
to satellite
to fibre
optics/
internet
and
broadband

REDUCING TIME LAPSE OF INFORMATION TRANSMISSION

TIME-SPACE CONVERGENCE

- This process concerns the changing relationship between time and space, and notably the **impacts of transportation improvements** on such a relationship. It is closely related to the concept of speed, which indicates how much space can be travelled over a specific amount of time.

TWO MAIN FACTORS CAUSE OUR WORLD TO GET SMALLER...


- Transportation technology
- Communication technology

QUESTION!

- Explain the concept of Time-Space Convergence



COMMUNICATION THE INTERNET



QUESTION: WHAT IS THE INTERNET AND WHY HAS IT GROWN?

**VIEW THE VIDEO AND READ THE
ARTICLE AND ANSWER THIS
QUESTION**

HISTORY OF THE INTERNET

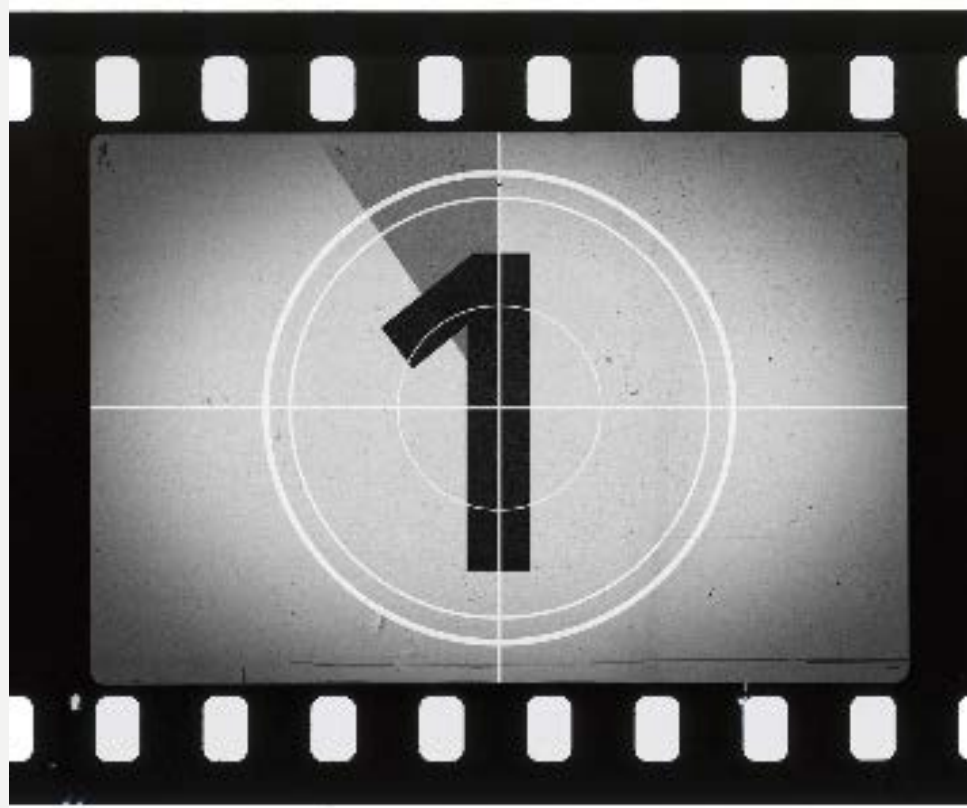




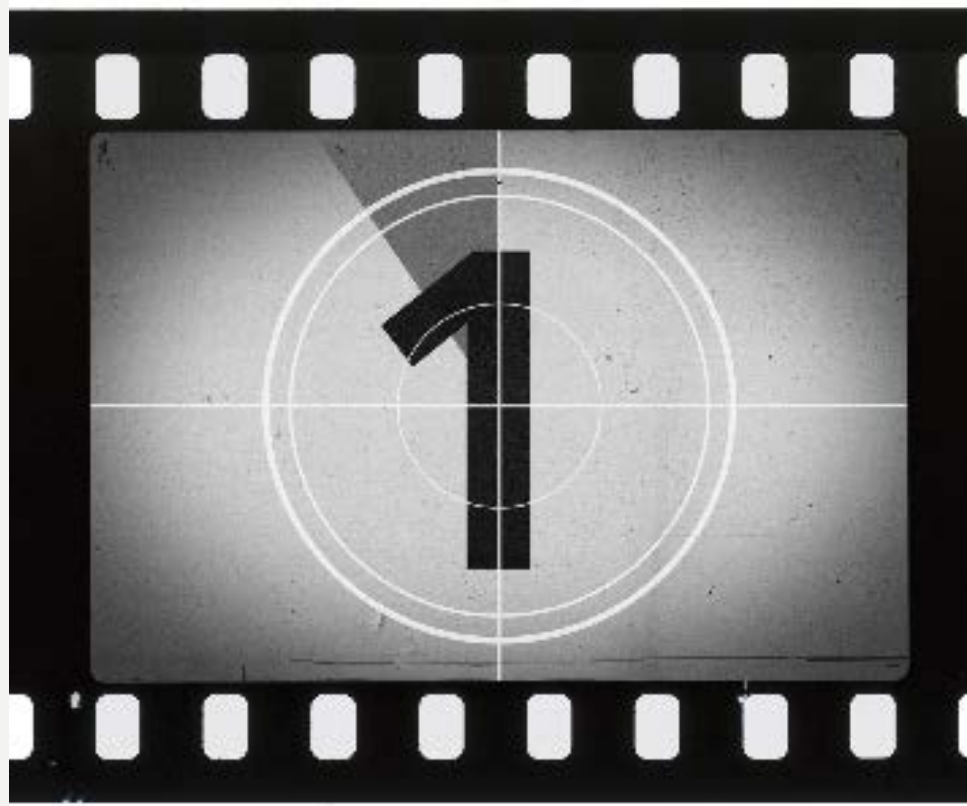
IMPORTANT!

- The internet does not just exist as a 'cloud' concept it is based in physical technology and networks.

LAYING UNDERSEA CABLE



NETWORK OF UNDERSEA CABLE



TEXTBOOK

- Page 134 of Pearson Humanities and Social Sciences 9
- Read the chapter “Staying Connected via ICT” and answer these questions that follow in your HASS notes. They will be useful for an upcoming assessment.

QUESTIONS

- State what ICT stands for.
- Outline what a telegram is. How did it work?
- State when the first mobile phone call was made and where.
- State where the internet first 'began life'.
- Define the terms 'Social Media' and 'Virtual Communities.'
- List the negative effects that social media has on society.
- List the impacts of new technologies on the nature of work.
- Explain what e-commerce is and the benefits it provides.
- Explain why young people in Australia and the United States are Driving Less
- **Extension: Activities 6 – 9 page 137**



COMMUNICATION MOBILE PHONES



ON April 3, 1973 Martin Cooper made a call on this hefty, hand-held device and made history.



THINGS HAVE
CERTAINLY
CHANGED A BIT
SINCE THEN...



**Motorola
DynaTAC**
1983



**Motorola
International 3200**
1992



Nokia 3210
1999



Nokia 6310i
March 2002



**Motorola
Razr**
Sept 2004



**Orange
SPV C500**
Oct 2004



**Blackberry
Bold 9000**
May 2008



**Sony
Xperia V**
Aug 2012



**Apple iPho-
ne 5**
Sept 2012



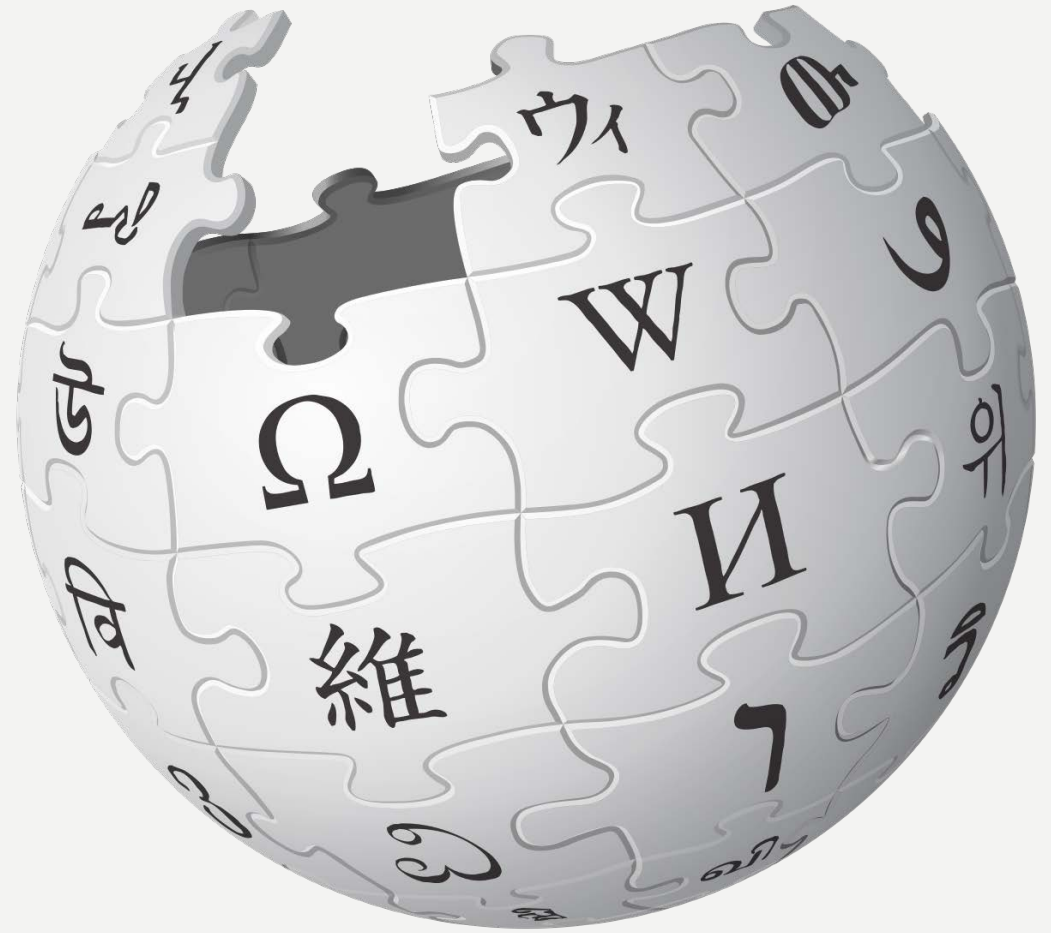
Michael Douglas
'Wall Street'
(1997)





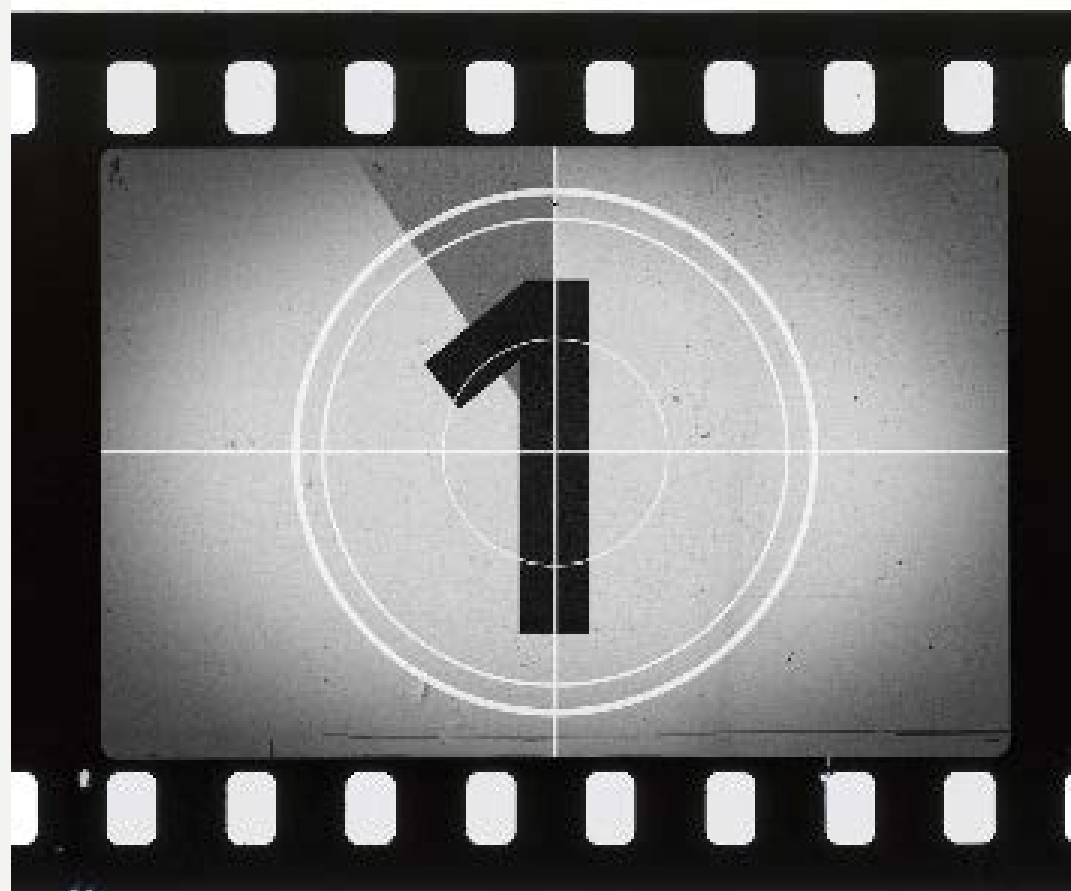
Compare the [top mobile phone using countries in the world.](#)

Pay special attention to number of phones per 100 people.



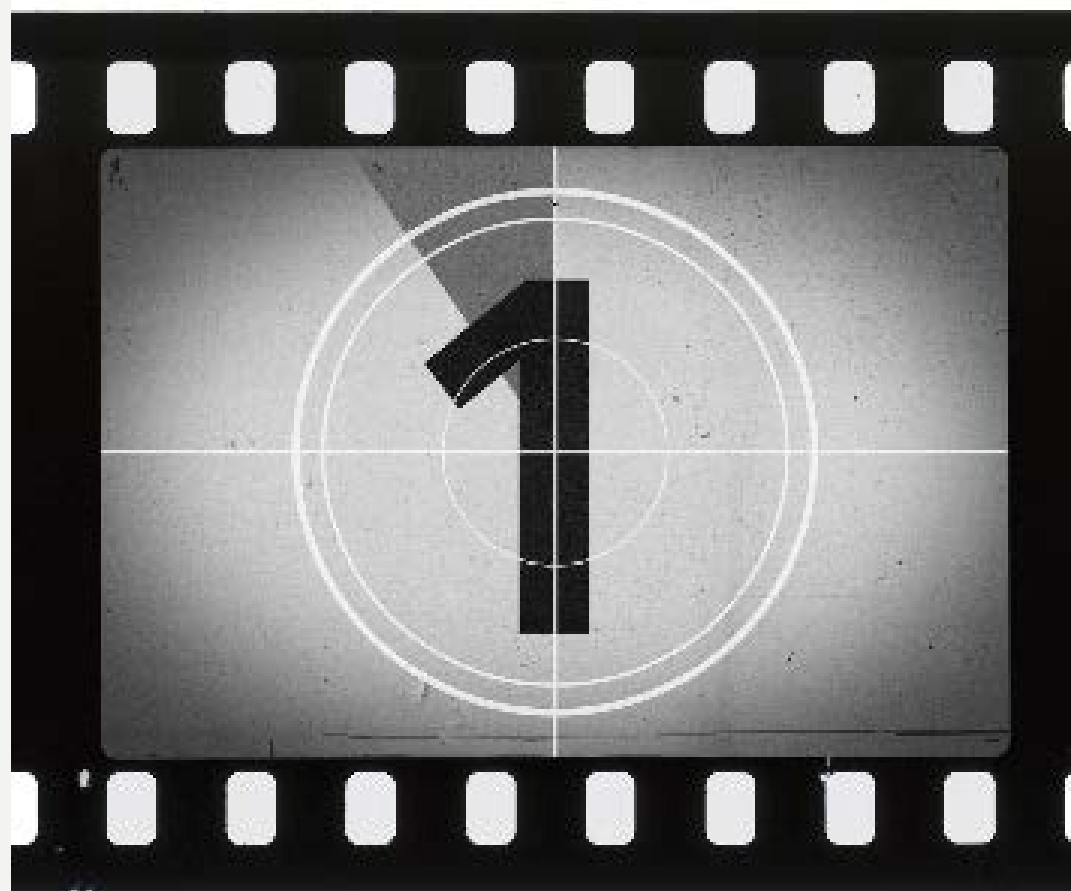
ACTIVITY

- Watch the following clip and make notes on how mobile phones have changed over the last few years in the form of an RIQ 321
- 3 x Remember/Recall
- 2 x Interesting
- 1 x Question



ACTIVITY

- Watch the following clip and on your worksheet list 9 uses of mobile phones.



Explain with examples why **Mobile Phones** are now being referred to as **Mobile Devices**.

Hint: what capabilities do they now have?





**TRANSPORTATION
MAKING OUR
WORLD SHRINK**



SHIPPING

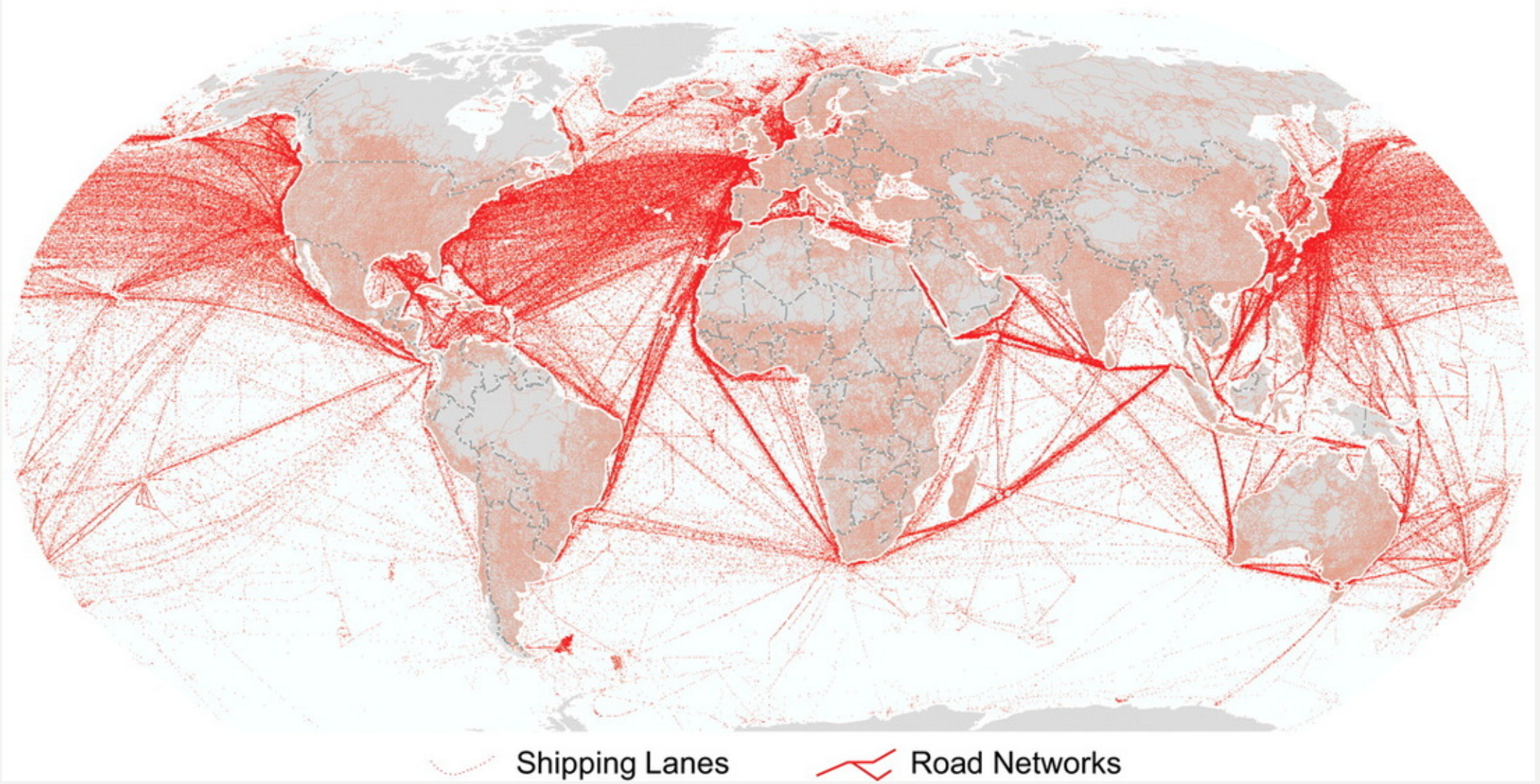
SEA TRAVEL - CONTAINERIZATION

View and discuss this **BBC** article on historical shipping

Write these 3 questions in your HASS books.

- What does it show?
- What were the constraints on shipping?
- What has changed? (see image on right)





Maersk Triple-E to be world's largest and most efficient ship

Maersk's *Triple-E* is a new class of fuel-efficient container ships, designed for lower speeds and CO2 emissions. The Danish carrier's giant vessels break the current record for container ship capacity and are expected to be the world's largest ships in service

MAERSK TRIPLE-E CLASS – SPECIFICATIONS

Length	400 metres
Beam (breadth)	59 metres
Deadweight	165,000 tonnes
Maximum speed	23 knots (43 km/h)
Crew	19 (normal), 34 (maximum)
Cost	\$190 million each (20 ships ordered)

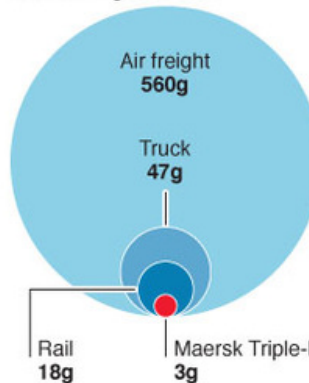
Twenty-foot Equivalent Unit (TEU)

Standard unit for describing ship's cargo capacity.
Triple-E can carry 18,000 TEU containers

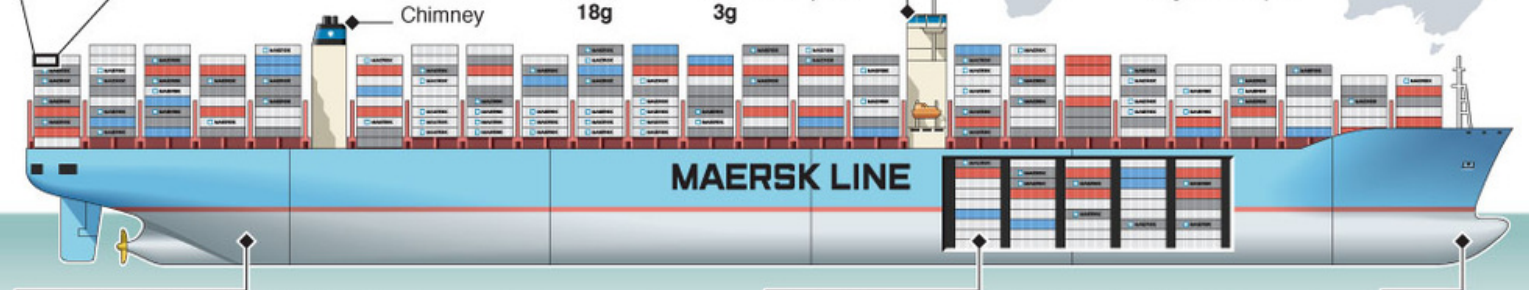
20ft (6.1m)
8ft (2.4m)
Single TEU can hold about 6,000 pairs of training shoes.
18,000 containers could hold more than 108 million pairs

GREENER TRANSPORT

Grams of CO2 to transport 1 tonne of goods 1km



EXPECTED ROUTE

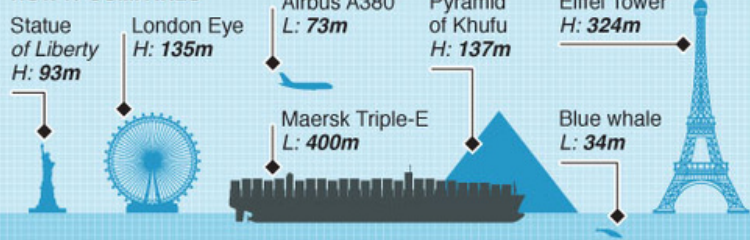


Propulsion: Twin 32MW (43,000hp) diesel engines drive two propellers at lower design speed than traditional container vessels – reducing fuel consumption by 37% and CO2 emissions per container by 50%*

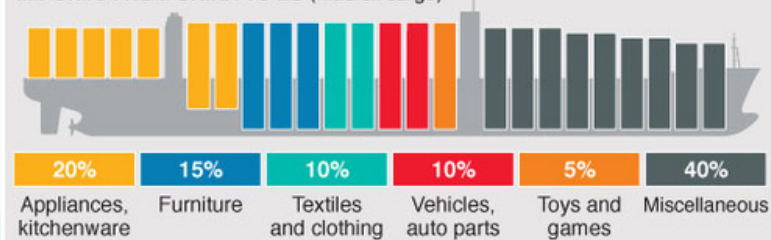
Interior: Extra space created by U-shaped hull. New vessels will have 16% greater capacity (equal to 2,500 containers) than current largest container ship, *Emma Maersk*

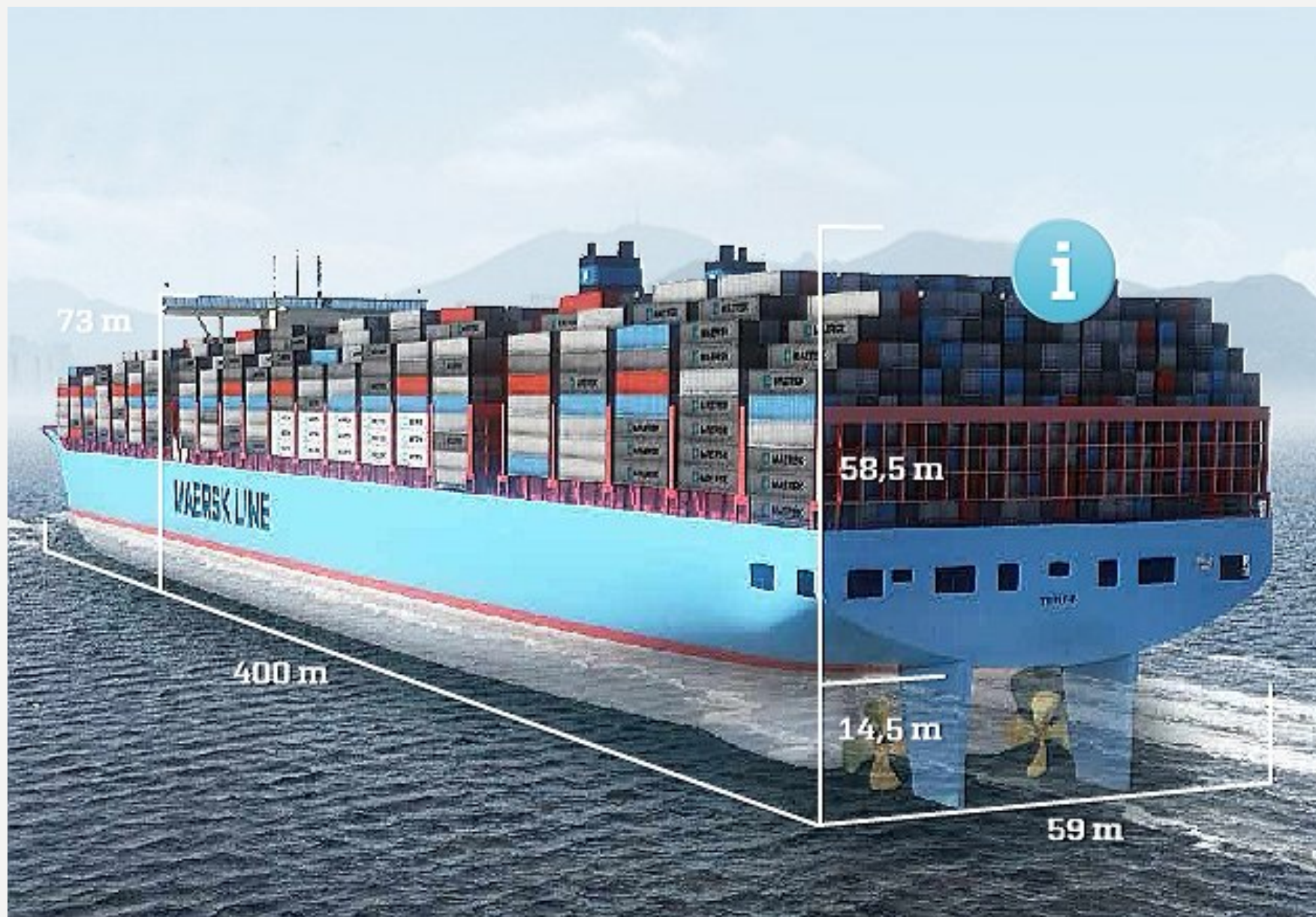
Bulbous bow for greater fuel efficiency

HOW IT COMPARES



IMPORTS FROM CHINA TO EU (Maersk cargo)







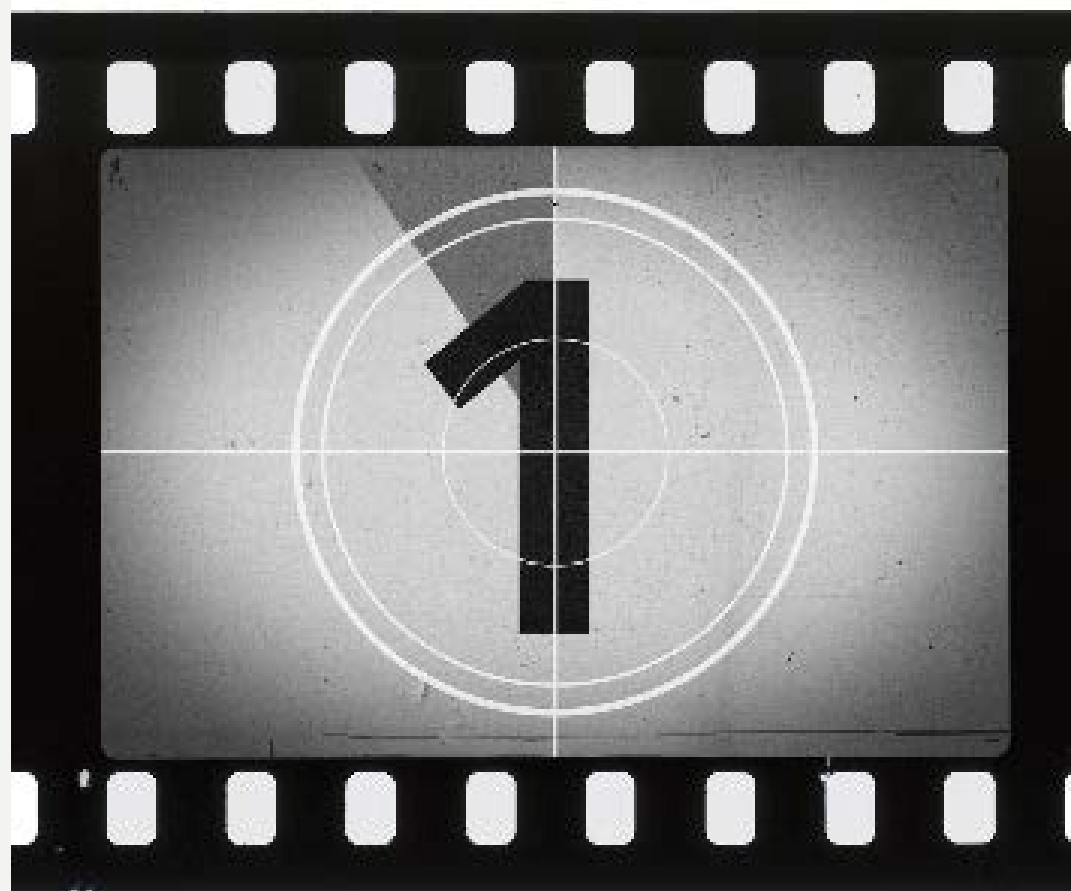


WRITE DOWN AND ANSWER

Containerisation: a shipping method in which a large amount of material (such as merchandise) is packaged into large standardized [containers](#)

Questions

- List three benefits this innovation has had
- How has it contributed to our world shrinking?





AIR TRAVEL

- <http://www.abc.net.au/news/2017-09-07/delta-flight-races-hurricane-irma-into-and-out-of-puerto-rico/8881434>