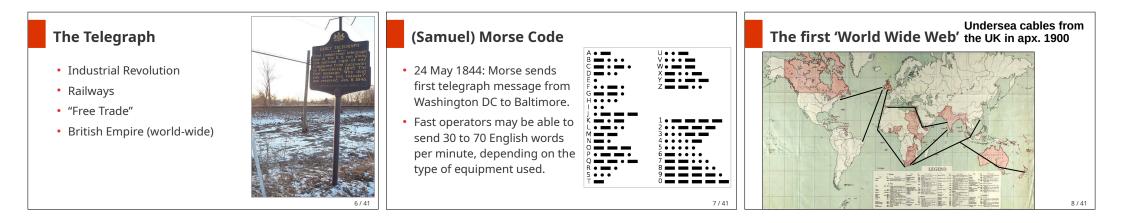
	Outline	Objectives
<b>Media Studies: 2</b> History through technology	<ul> <li>The Telegraph: Speed and 'global-ness'</li> <li>Newspapers: Mass audience</li> <li>Radio and TV: Broadcasting</li> <li>Satellites: Globalisation</li> <li>The Internet: A new model</li> <li>Mobile Telephony: Everything, everywhere</li> </ul>	<ul> <li>Understand the role of technology in international communications</li> <li>Be aware of historical developments in communication technologies</li> <li>Understand how technologies have shaped our expectations of mass media</li> </ul>
1/41	3/41	4 / 41



# **Telegraph Communication**

• 'Instant' global communication



US White House telegraph office around 1903

9/41

### **Telegraph Communication**

- 'Instant' global communication
- BUT...
- Huge capital investment required
- 'One-to-one' (point-to-point)
- Infrastructure **unreliable** and **vulnerable**

#### Crimean War / US Civil War

- From middle of c19 telegraph becomes important in newspaper reporting.
- 1854-6 Crimean War reports of William Russell of *The Times*

See - http://www.inventingeurope.eu/story/eye-witnessing-the-war-in-thecrimea-telegraph-vs-camera

'Gutenberg-style' printing

press

10/41



14/41

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#### **Modern Newspaper Press**



This press belongs to the Statesman newspaper in Austin, Texas.

Built in Germany this press is 20 metres tall and cost \$14 million (¥1 億 ).

The *Statesman* has four presses in all and can print about 1000 copies per minute.

15/41

18/41

### Wireless (Radio): Early days

- Guglielmo Marconi (Pontecchio, Italy)
- 13 May 1897: "Are you ready?"
- 1912: 122 amateur radio clubs in US
- 1919: Formation of RCA (Radio Corp. of America)



16/41

19/41

Flat Holm to Lavernock Point

Post Office engineers inspect Marconi's equipment on Flat Holm Island



#### Ship-to-shore/ship



First uses of wireless telegraphy were in ship-to-ship and ship-to-shore communications.

Wireless & 'Broadcasting'

- First wireless experiments during early c20
- First regular services by mid-1920s in US



Poland: crystal set, 1920s

#### **Birth of NHK**

- March 22, 1925
- JOAK Tokyo first broadcast from Shibaura studio (JOBK Osaka, JOCK Nagoya)
- NHK formed 1926 when three stations were merged









## **Early satellites**

SPUTNIK 1: launched 4 October 1957

Orbit speed: 29,000km/h

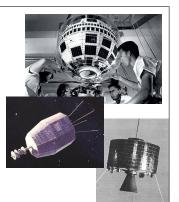
Time to orbit Earth: 96mins

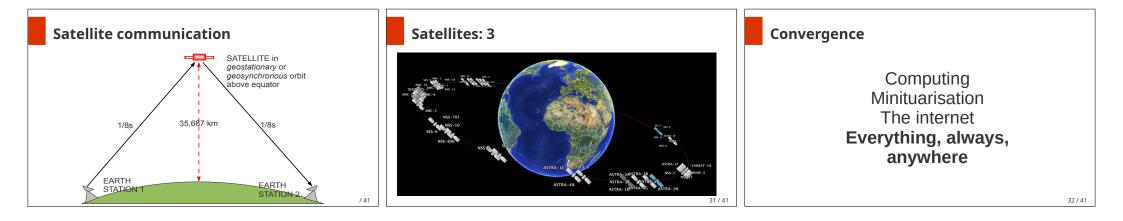
Spent three months in orbit and burned up on re-entry into Earth atmosphere on 4 January 1958.



### Early Satellites: 2

- **Telstar 1:** launched 10 July 1962 23 July 1962 used for first intercontinental TV broadcast between US and Europe.
- Relay 1: 13 Dec 1962. Used for first Japan-US link, 22 Nov 1963.
- **Syncom 3:** first geostationary satellite, used to broadcast 1964 Tokyo Olympics to US.





## Alan Turing ( 1912 - 1954 )



The 'Turing Test' I propose to consider the question, 'Can machines think?'

(1950)

Manchester memorial



ENIAC, 1946

33/41

#### Minituarisation

- Transistor replaces valve late
   1950s
- Silicon chip on sale 1954 (little demand)
- Microprocessor, 1971

34/41



35 / 41



