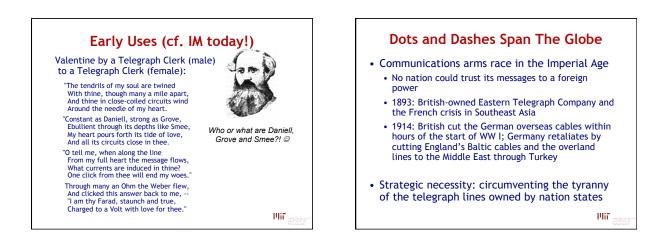
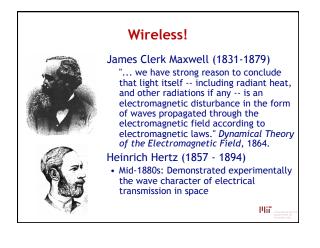
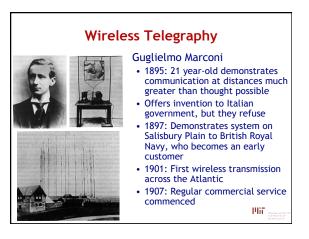


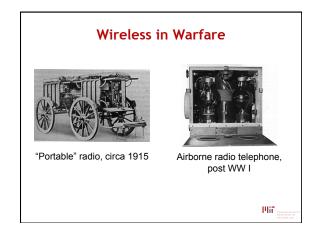
- 1852: First international telegram
- **Reuters** establishes "Telegraph News Network" 1858: Cyrus Field lays first
- transatlantic cable US President & Queen Victoria exchange telegrams
- · Line fails in a few months 1866: New cable &
- technology developed by William Thompson (Lord Kelvin)

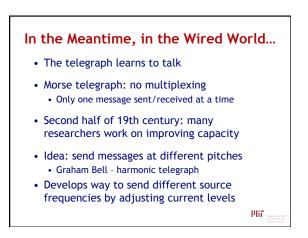
1967



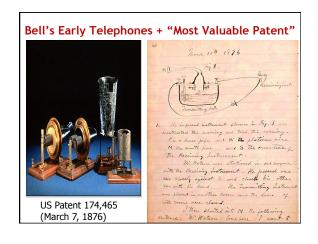


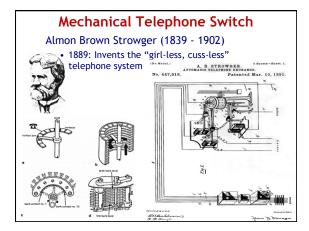


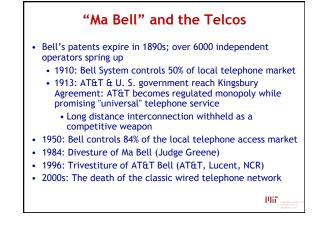


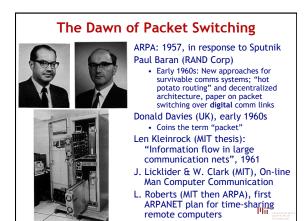




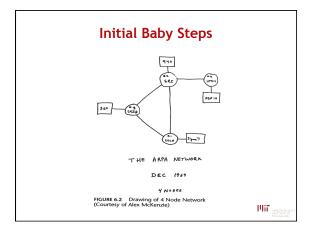


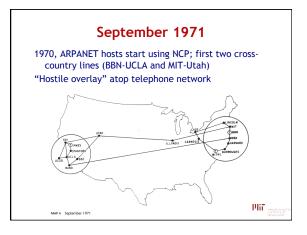


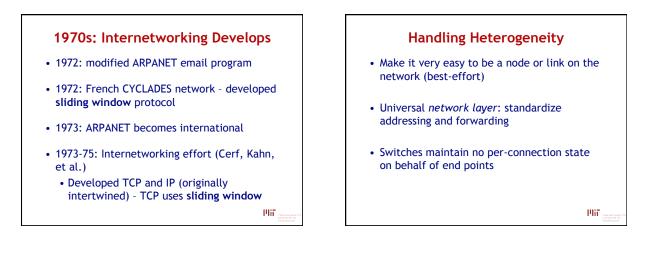


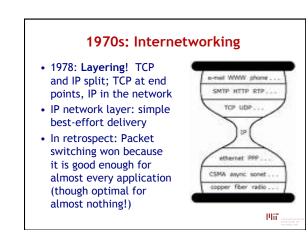


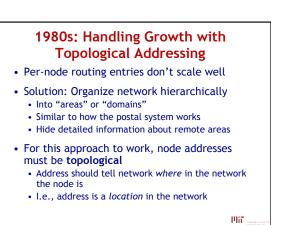
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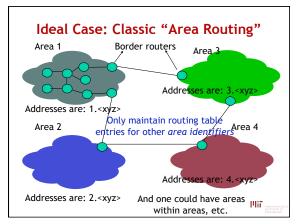


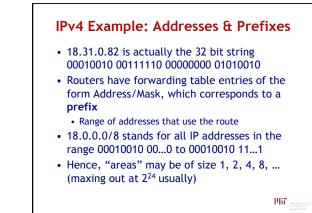


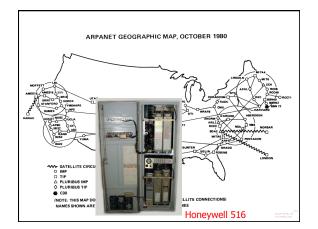


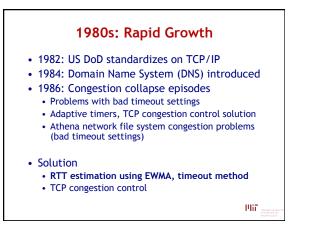


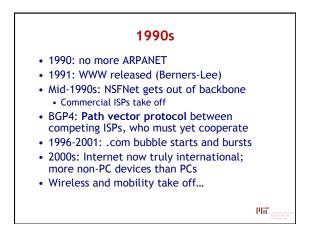
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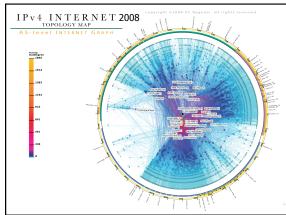


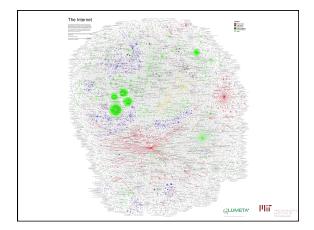














## Example Security Problem: Route Hijacks

- In Feb 2008, Pakistani government wanted Pakistan Telecom (PT) to block YouTube
   PT advertised its own host as the destination for YouTube's IP address range
- Misconfiguration causes this advert to propagate to PT's ISP (PCCW, Hong Kong)
- PCCW sees that this advert is "more specific" than what it has, so accepts
  Propagates to other ISPs, who also accept
- Soon, much of the Internet wasn't able to reach YouTube!

IIIIT MASSACAN