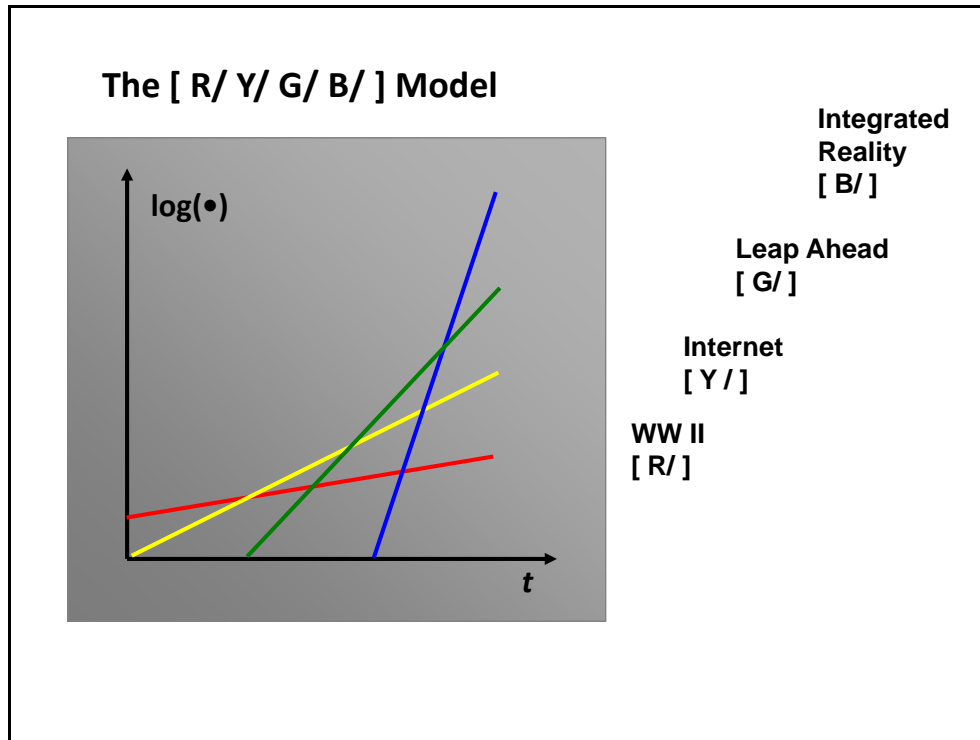


## Strategic Technology Trends



The image is a summary of strategic technology trends for information technology and related information security. The vertical axis is the log of capability and the horizontal is time. The trend lines [ R/ Y/ G/ B/ ] of increasing slope represent increasing advantage.

**The WW II Trend [ R/ ]** emerged as the result of World War II, enabled by the leadership of President Roosevelt and executed through Dr. Vannevar Bush.

**The Internet Trend [ Y/ ]** emerged as a result of the converging advances of Computer Architectures, the Internet, Microelectronics, Scalable Parallel Computing Systems, and the associated advanced systems structures. The advance of Information Technology (IT) systems and Information Security (IS) are mutually dependent. The existing IT systems have become self limiting as a result of the fact that the needed IS has not fully developed and transitioned to enable the balance essential to sustaining advance at frontier of IT.

**The Leap Ahead Trend [ G/ ]** indicates the potential of fundamental advances beyond the limitations of [ Y/ ]. The fundamental distinction between [ Y/ ] and [ G/ ] is the transition from extrinsic to intrinsic trust along with the associated hardware architecture support and advanced persistent extensible typed object systems development environments. The developments that enable [ G/ ] will also provide the foundations for generations beyond.

**The Integrated Reality Trend [ B/ ]** enables the development of a 21<sup>st</sup> century IT-based Time Machine to achieve sustained strategic advantage.