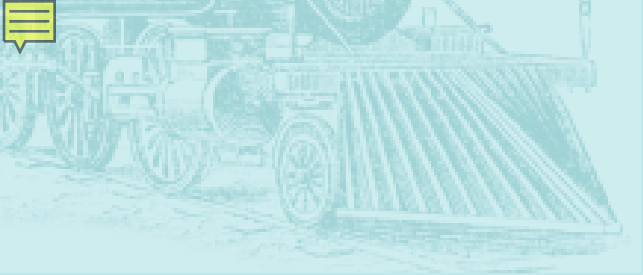
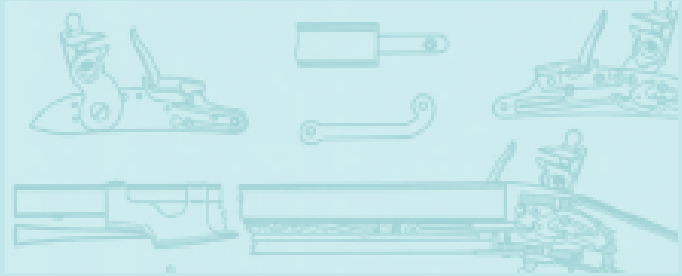
WHERE *Good* TECHNOLOGIES COME FROM

CASE STUDIES IN AMERICAN INNOVATION

December 2010

BREAKTHROUGH INSTITUTE





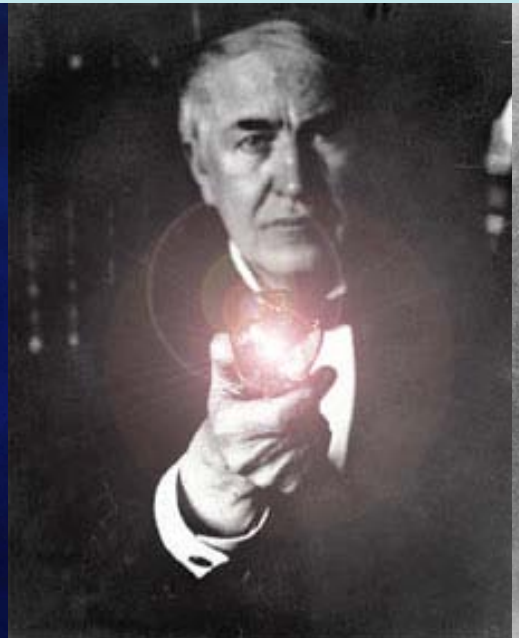




AMGEN®





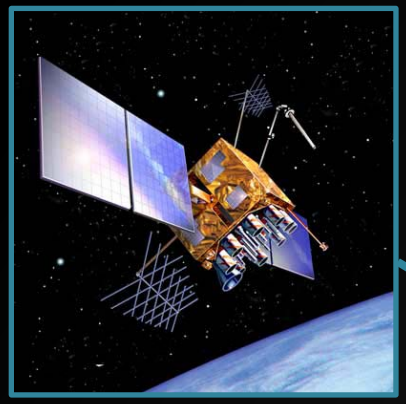




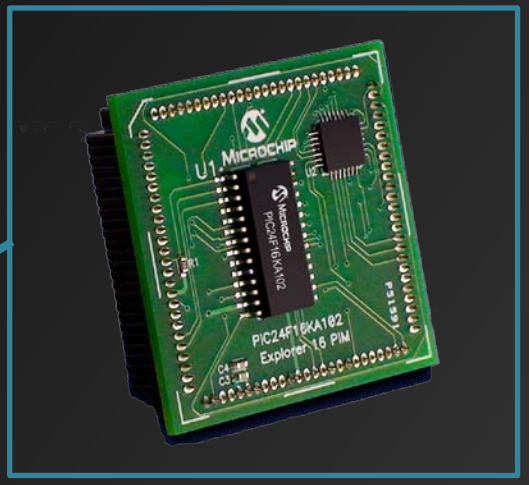



7
Photos
Mail
Safari
iPod

ARPANET



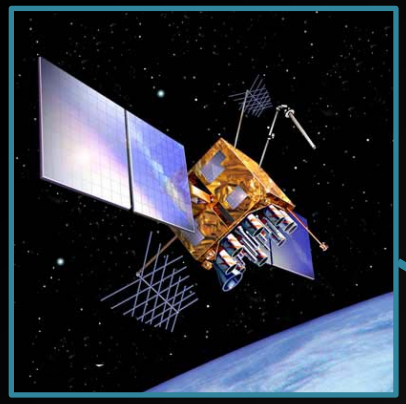




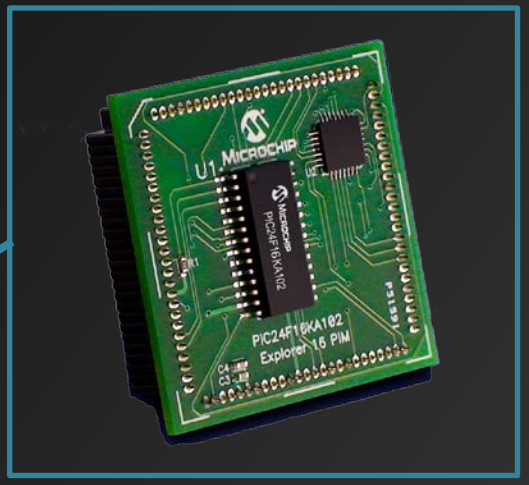




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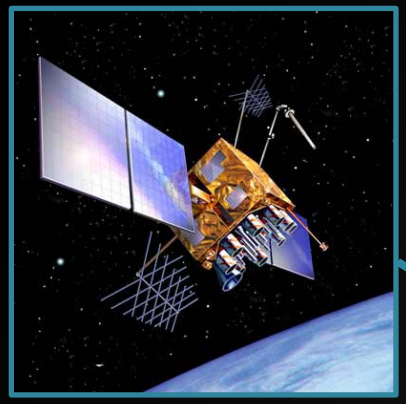




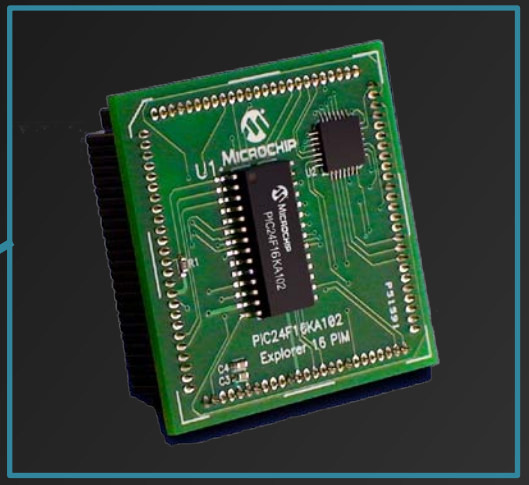




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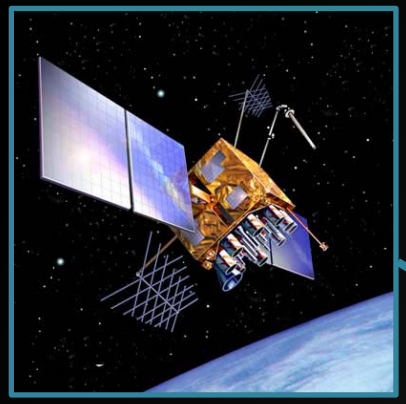




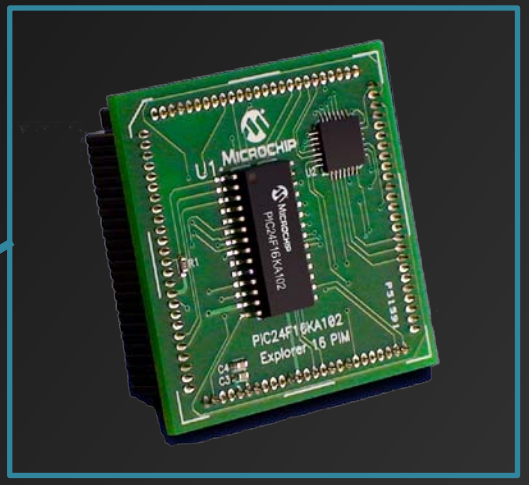




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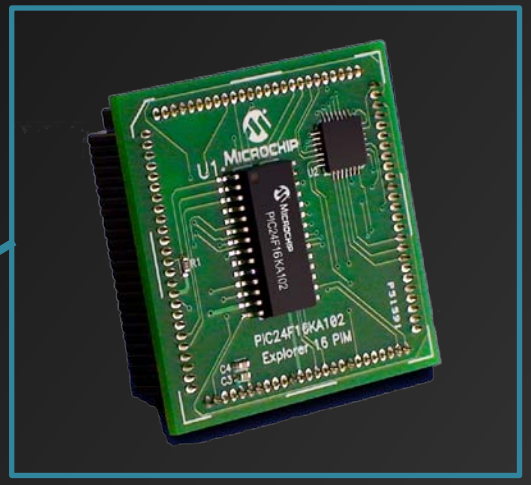




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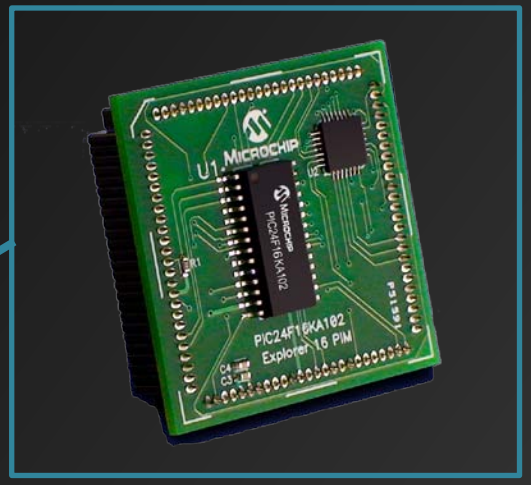




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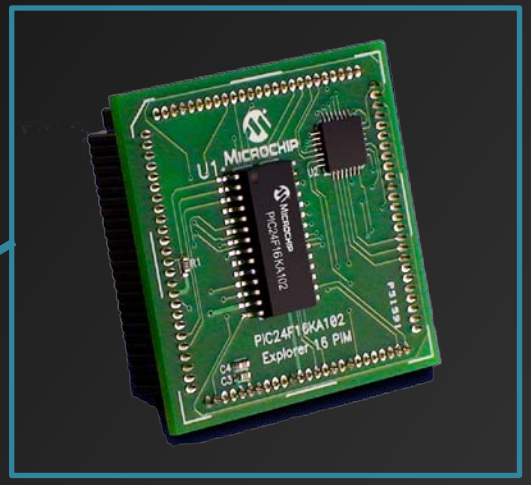




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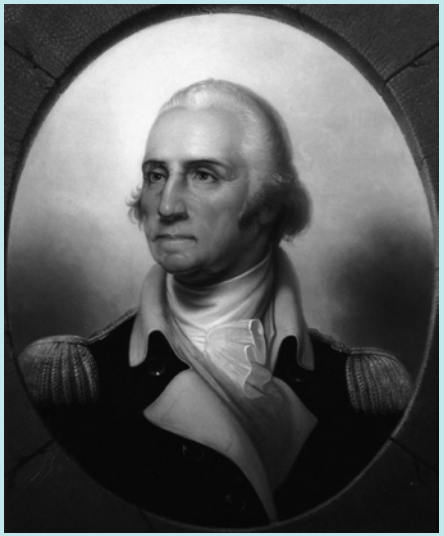


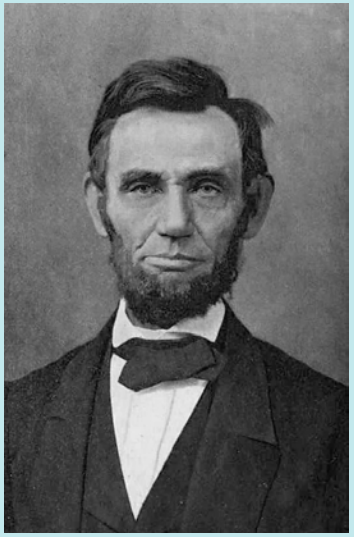






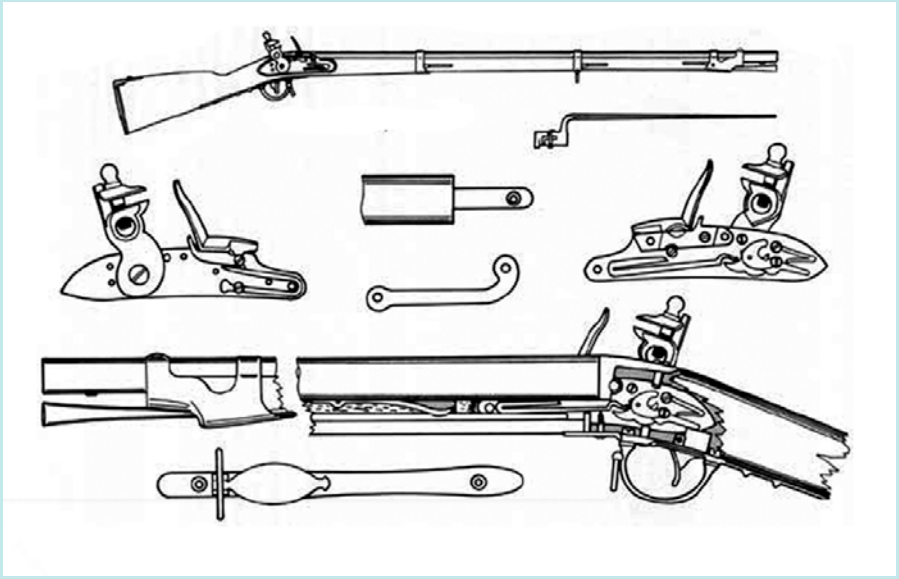


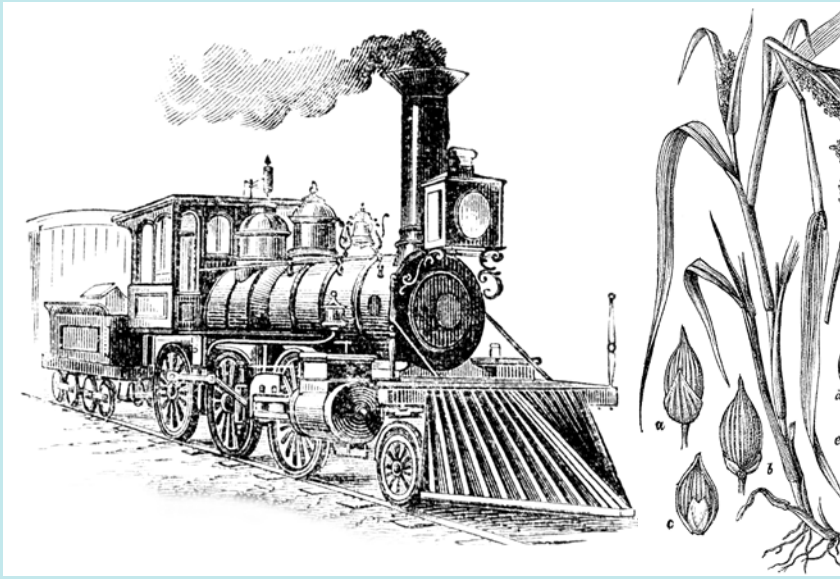


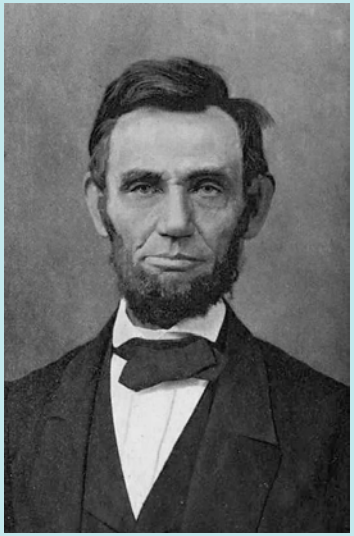


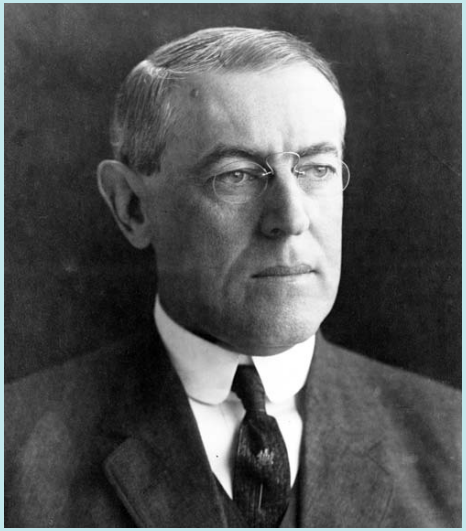
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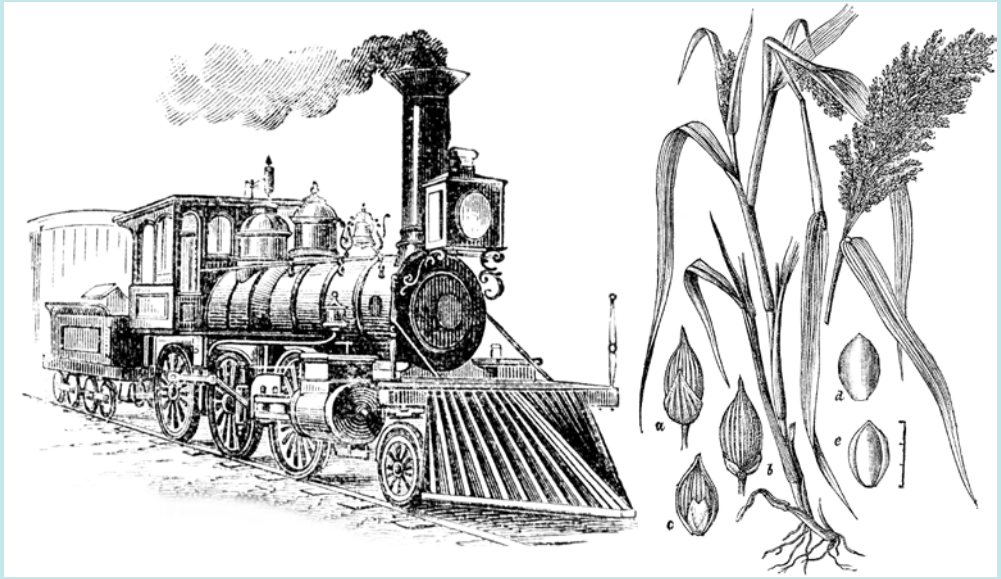




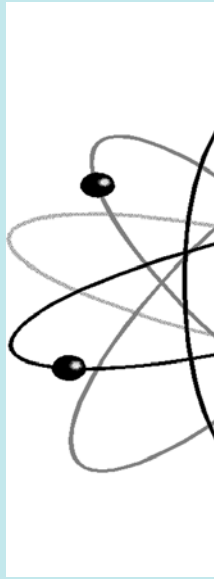


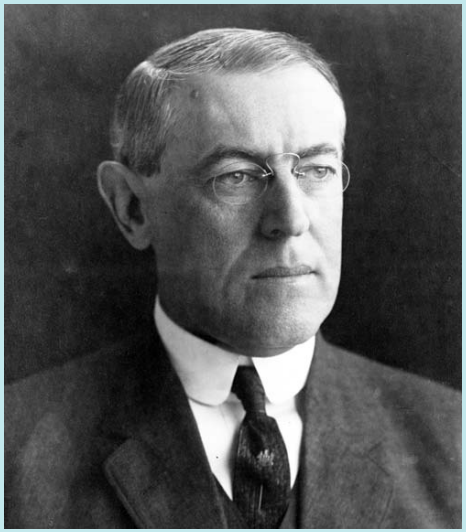
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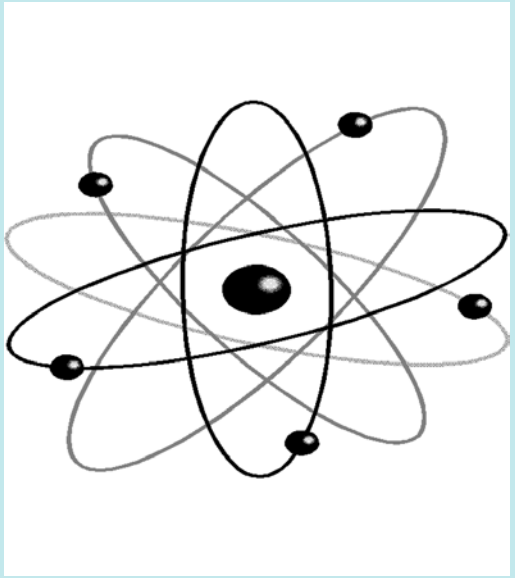
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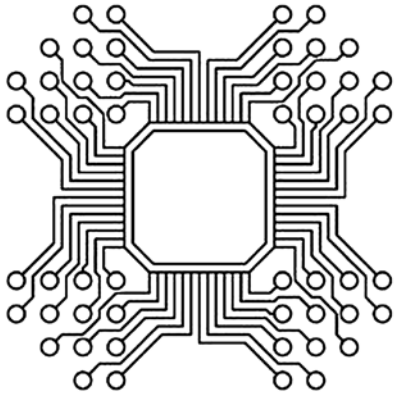
1953

1961



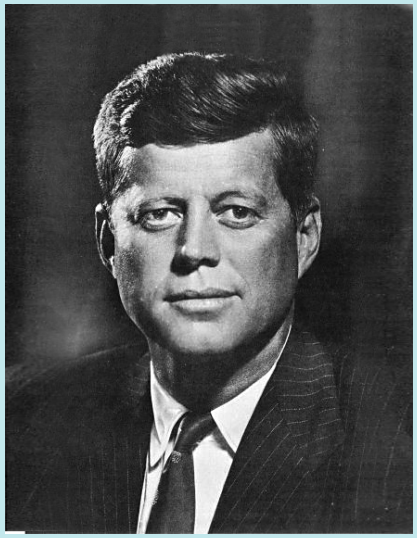


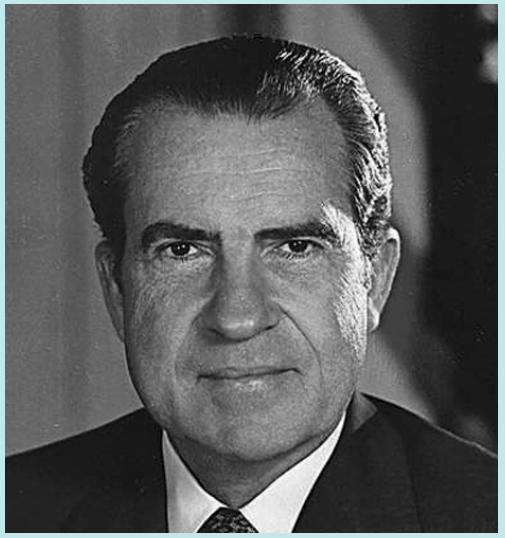












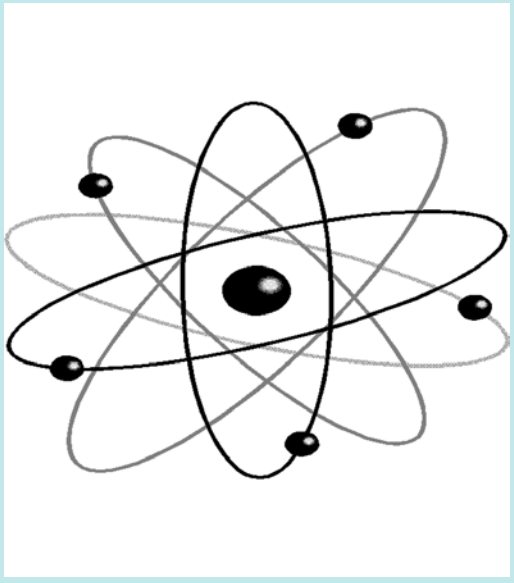
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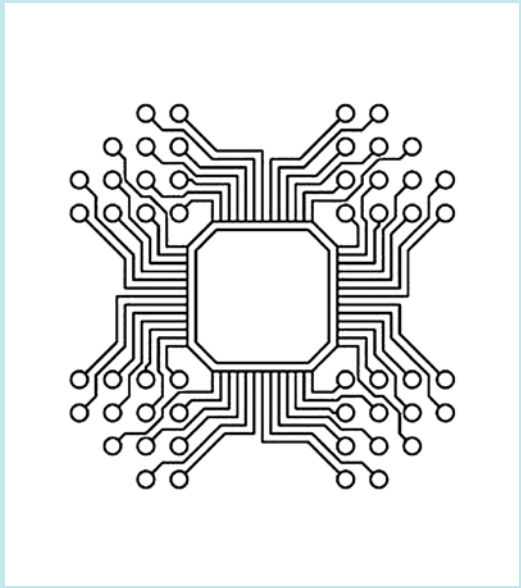
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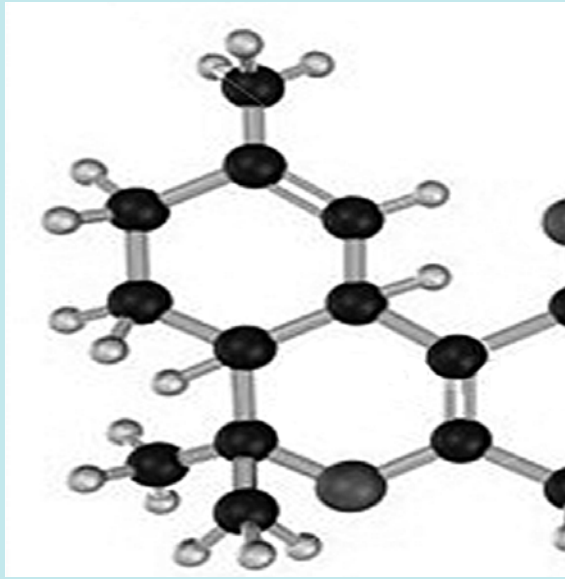
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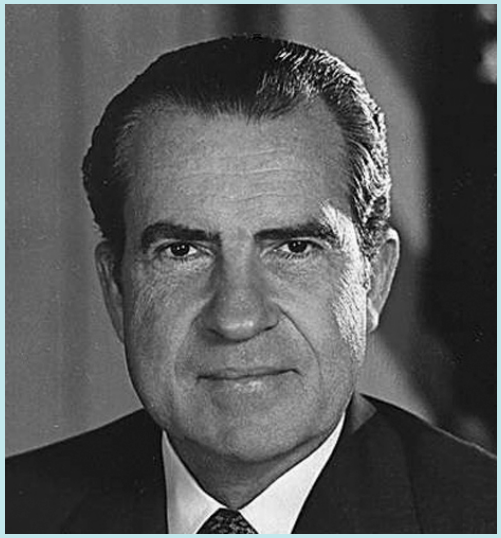












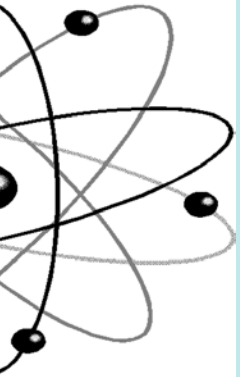


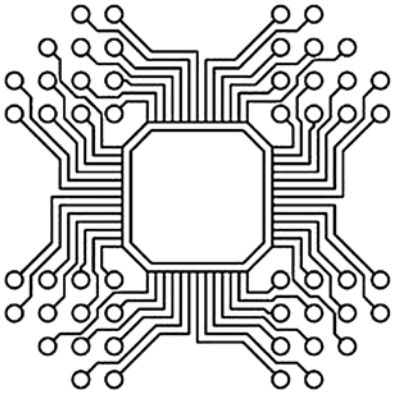
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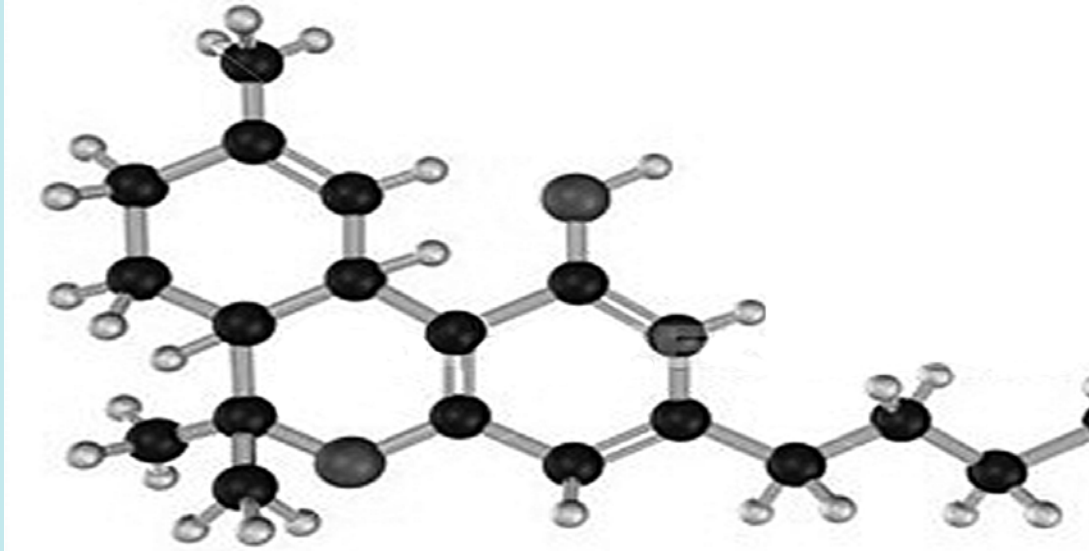
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1971

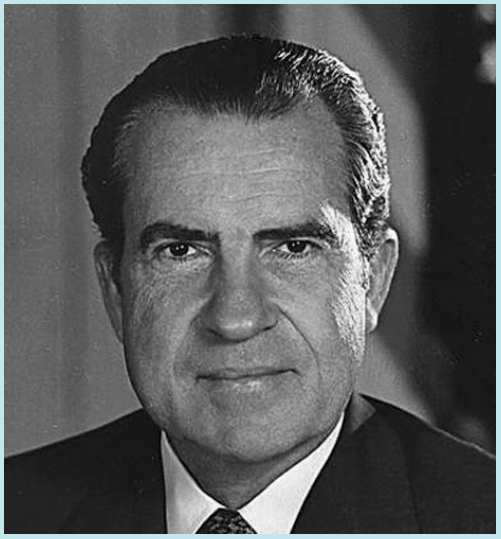
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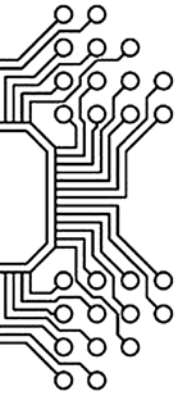


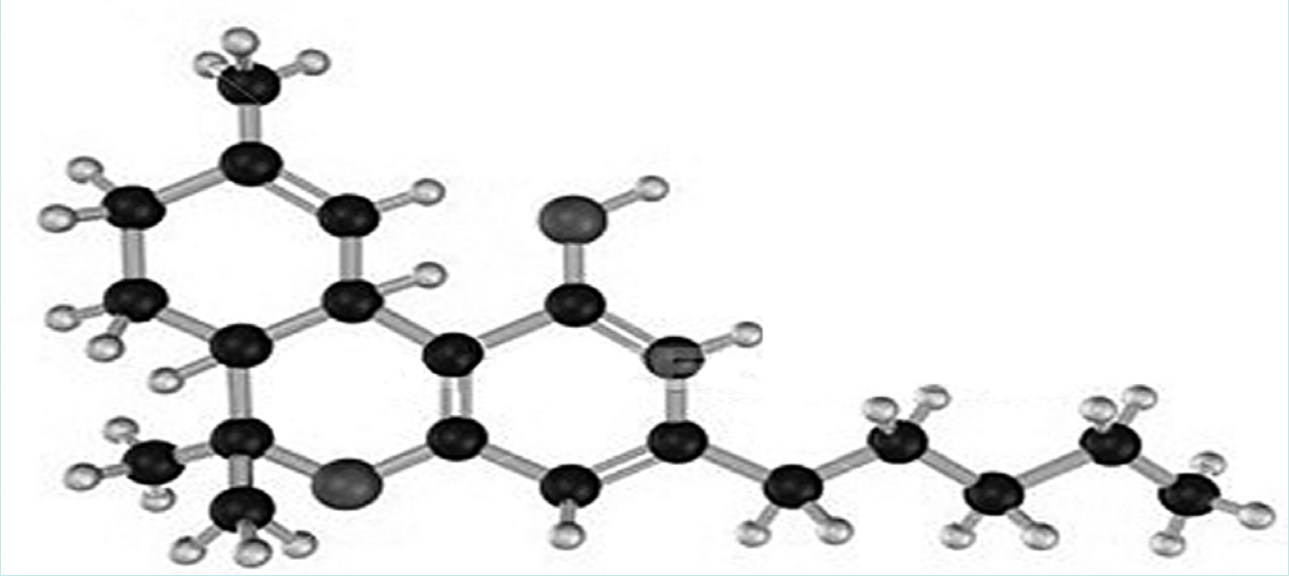


61

1971

1995-2008



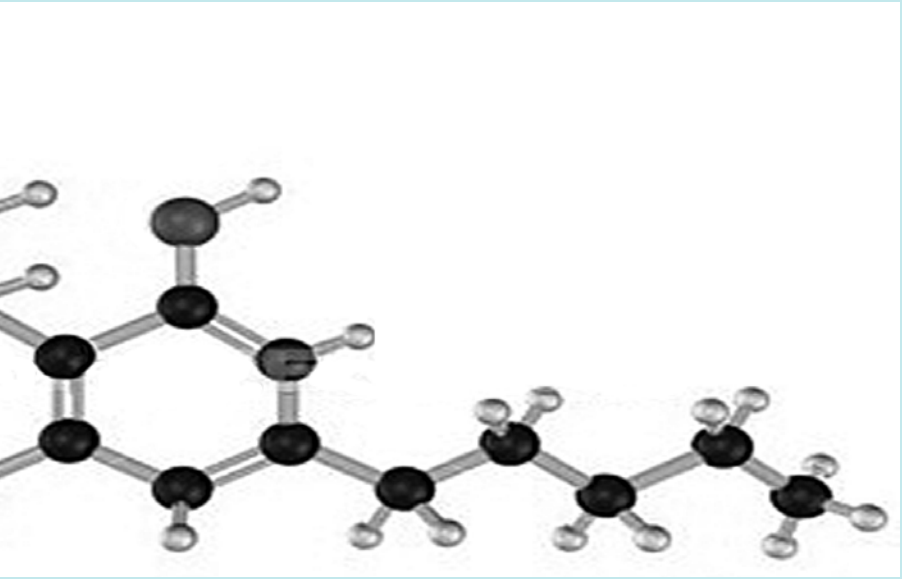








1995-2008

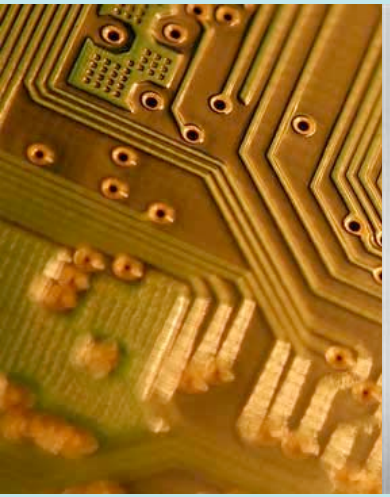


Investor in Innovation



Demanding Customer


MADE IN JAPAN

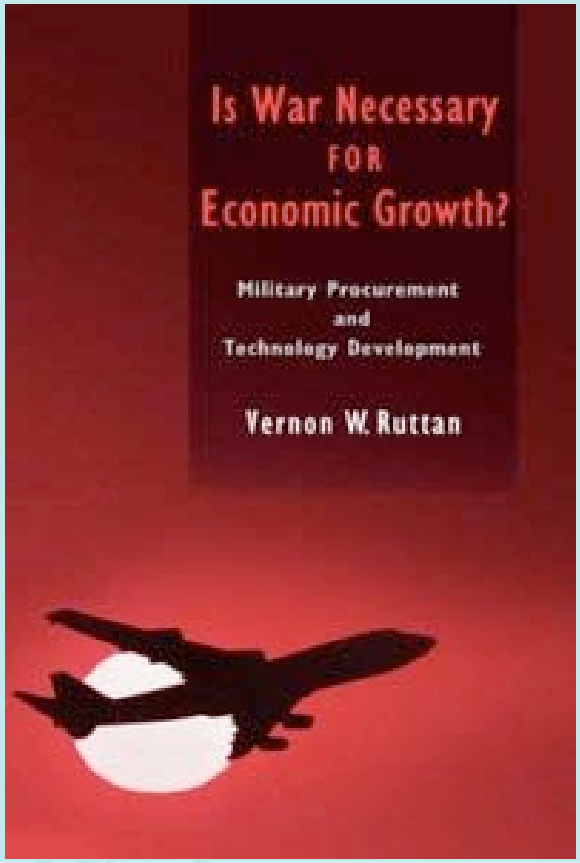




SEMATECH





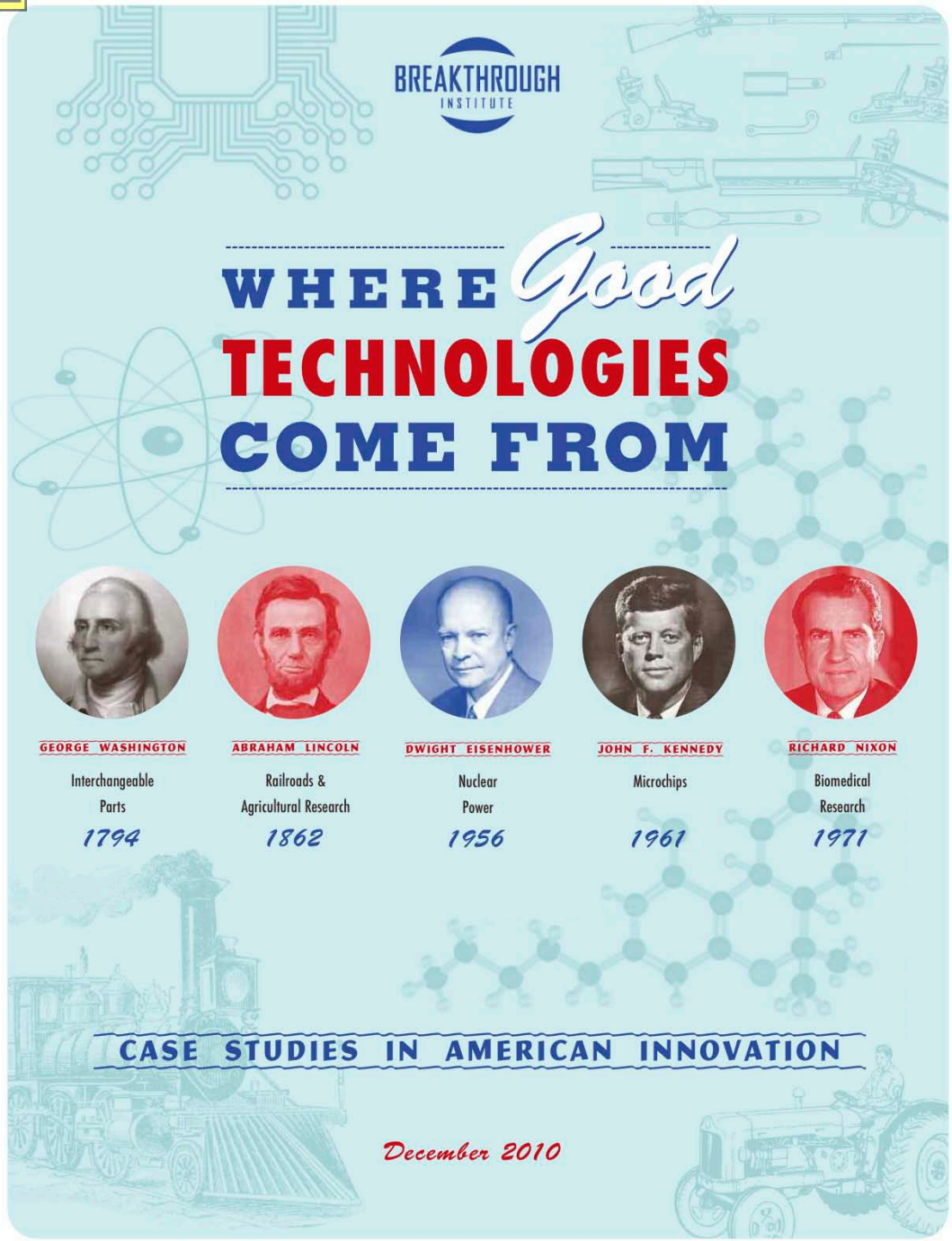

Is War Necessary
FOR
Economic Growth?
Military Procurement
and
Technology Development
Vernon W. Ruttan



10. R&D capacity
9. Strong & enduring ties to academia
8. Diversity of roles & approaches
7. Role as test bed
6. Persistence

5. High price point
4. Strong & enduring ties to firms
3. Role as customer
2. Trillions of dollars
1. Shared values


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INDUSTRIAL
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WHERE Good TECHNOLOGIES COME FROM

Jesse Jenkins
Breakthrough Institute

Daniel Sarewitz
CSPO, ASU