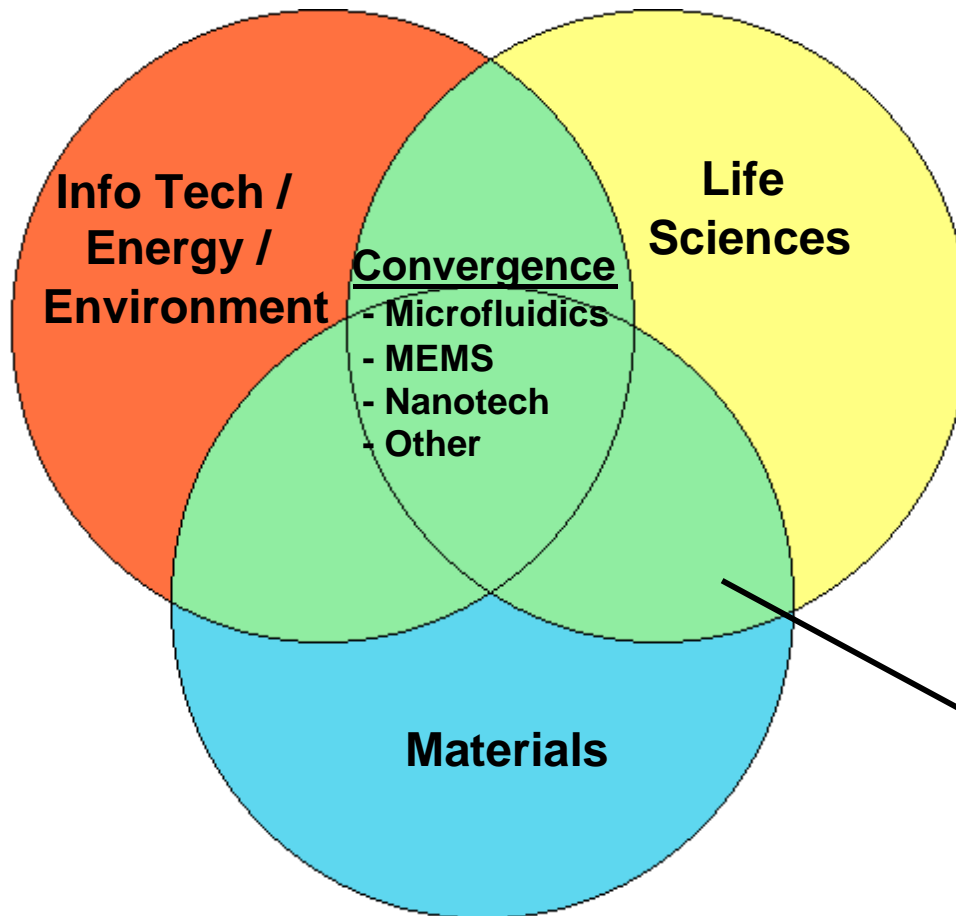


Leading Sectors of Nanotech Opportunities



BioNano encompasses applications in traditional Life Science sectors plus other applications in

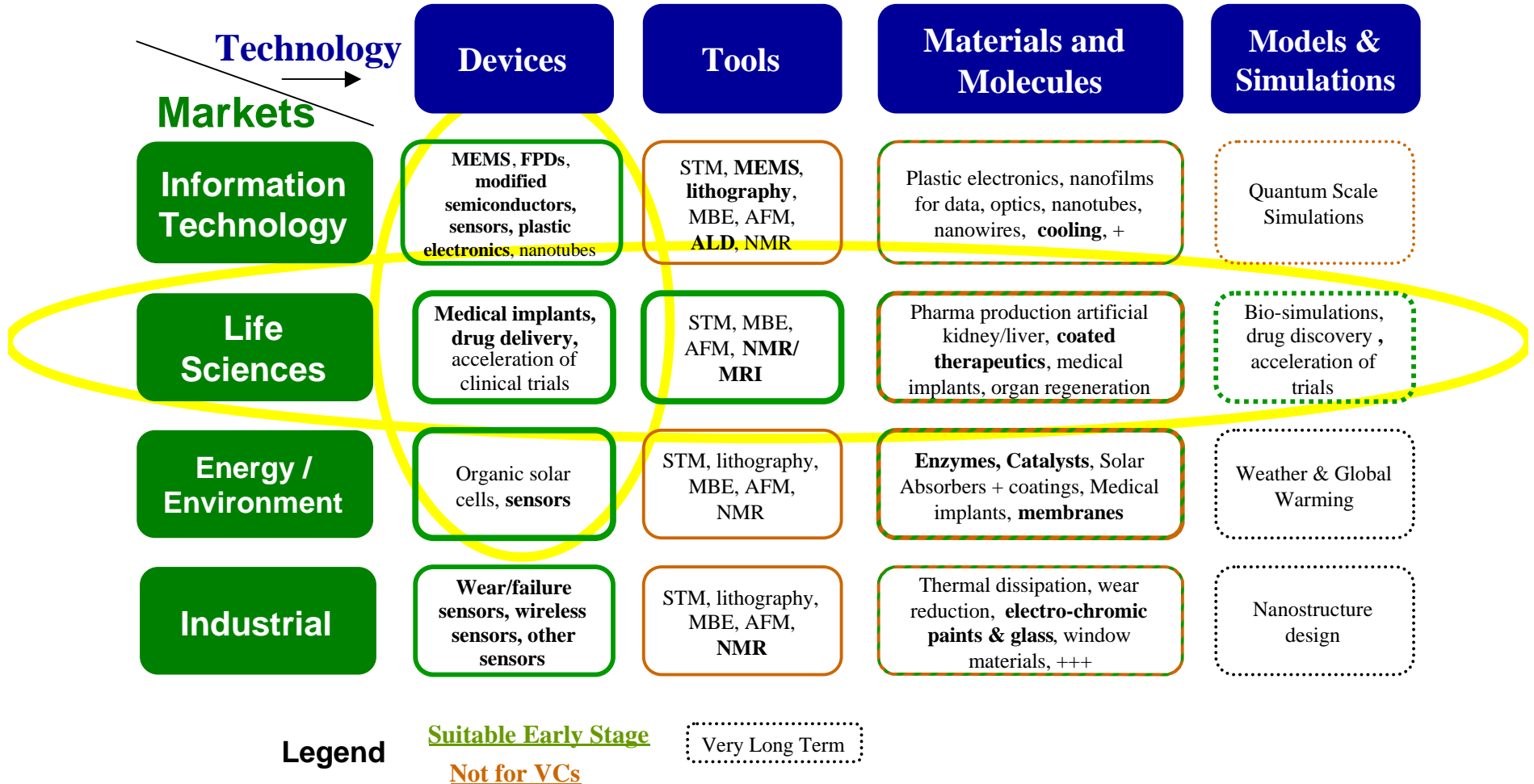
- Information Technology
- Energy / Environmental
- Materials.



ALAMEDA
C A P I T A L

NanoBio Enables Revolutionary Products

NanoBio enables bio solar cells, dense bio memory, new structures, etc.



Selected NanoBio Opportunities

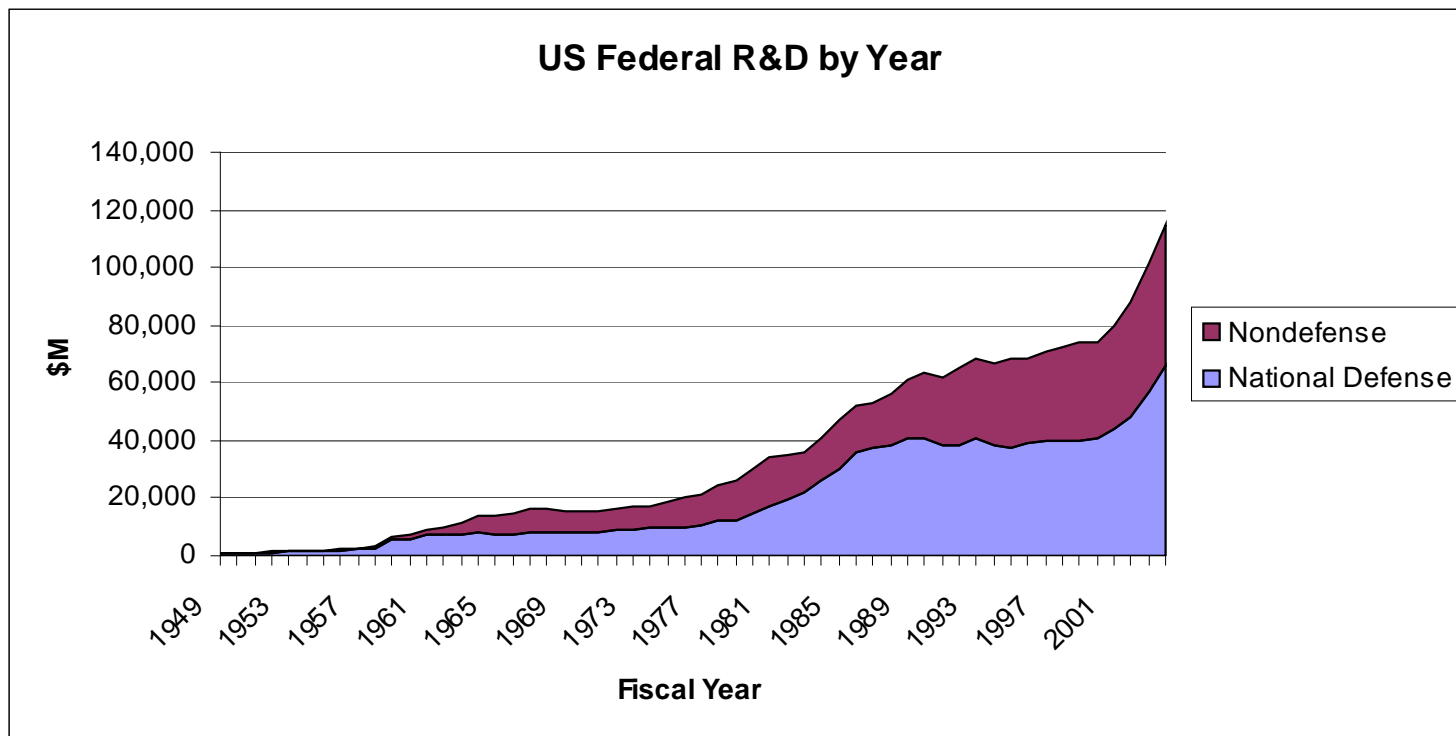
- Nano for Life Sciences - Enhancing biology
 - Equipment and molecules for disease screening / diagnosis
 - Molecules and organisms to correct environmental problems
 - Targeted delivery of standard therapeutic agents
 - New and customized therapeutic agents
 - Plastic nanoelectronics to provide bioanalysis and display
- Nano for Other Apps using Biology
 - Wireless sensors for biological or chemical process monitoring
 - Cost-effective solar electric devices using bio absorbers
 - Solar energy to direct chemical energy conversion using biological organisms (Biomemetic)
 - Nano membranes with bio-type pores for fluid processing

NanoBio Advantages

- NanoBio approaches generally provide higher efficiency and/or effectiveness than alternatives
- Many sectors not directly in the life science field will benefit from NanoBio solutions (i.e. biological organisms that digest pollutants).
- NanoBio approaches to solutions usually generate the least quantity of by-products and waste.

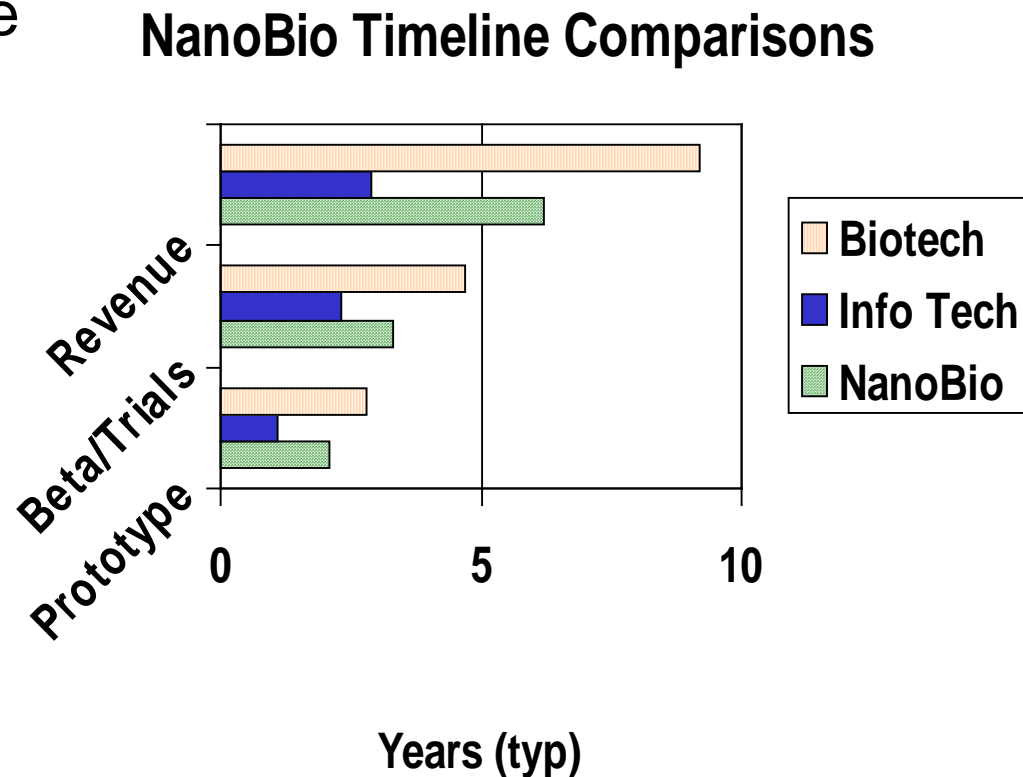
NanoBio Inventions From Gov't R&D

- Federal R&D funding is good in some areas
- NanoBio is growing its share of federal R&D every year
- Commercializing that R&D provide opportunities



NanoBio - Longer Time-to-Market

- Products tend to be revolutionary with large markets
- Multiple skill sets required - chemistry, biology, physics, engineering
- Longer testing needed before revenue
- Some applications require Gov't approval



Note: Time from first venture round, or first large corporate investment to each stage based on PwC, Venture Economics, Alameda Estimates

Data from Alameda database for NanoBio with some data forecasted.