

Health Care, Biotechnology, Life Science NIST Strategic Planning: ~~Straw man~~ Process

- Outline industrial sectors
- Define critical measurements/technologies in sector
- Identify opportunities for advances in measurement science and development of critical standards
- Prepare summary
- Solicit input and comment from industry leaders
- Work with NIST staff to develop implementation plan

Major Industry Sectors Based on Bio and Medical Sciences

- Health Care
- Biotechnology
- Life Science Research
- Homeland Security

Major Industry Sectors Based on Bio and Medical Sciences

- Health Care
 - Drug Development
 - Diagnostics
 - Medical Devices
 - Services
- Biotechnology
 - Energy
 - Food products
 - Materials
- Life Science Research
 - Instrumentation, devices, and reagents for research
- Homeland Security
 - Forensics
 - Biometrics
 - Biohazard detection
- Environmental Monitoring

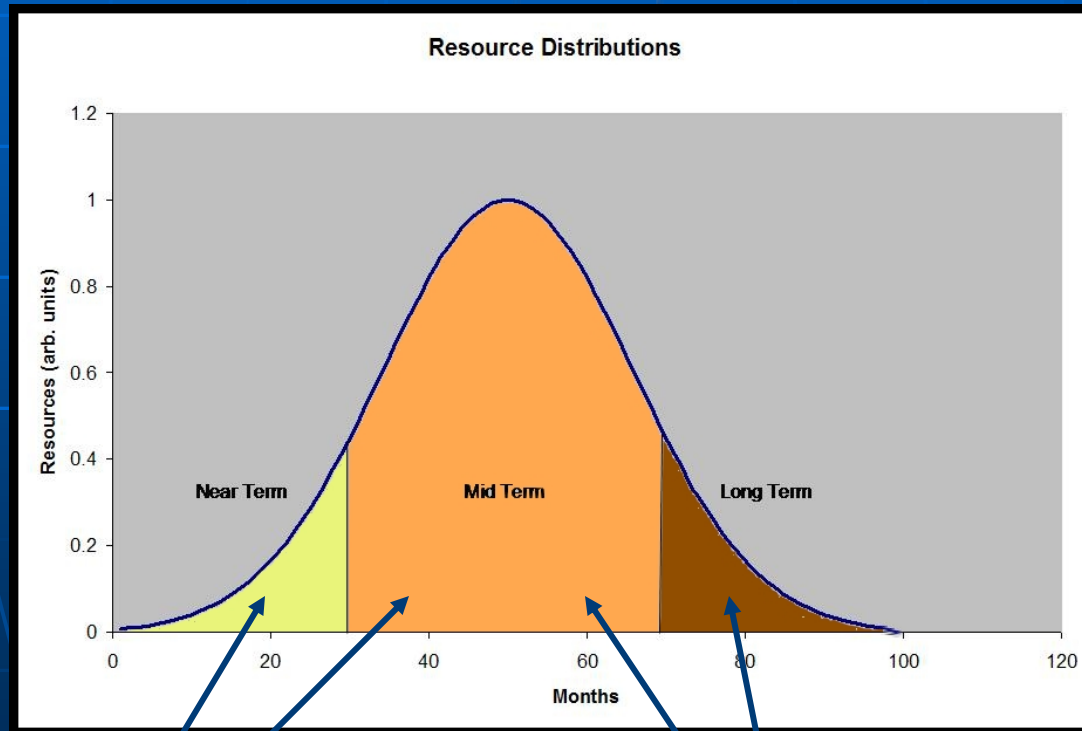
Example:

Health Care Industry sub-Sector

- Health Care
 - Drug Development
 - Diagnostics
 - Medical Devices
 - Services
- Biotechnology
 - Energy
 - Food products
 - Materials
- Life Science Research
 - Instrumentation, devices, and reagents for research
- Homeland Security
 - Forensics
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 - Biohazard detection

Strategic Planning Process

- Develop program portfolio
 - Near-term 25%
 - Mid-term 50%
 - Long-term 25%



VCAT Biosciences/Healthcare Activities

- ~~Prepare preliminary industry overviews~~
 - ~~Pharmaceutical~~
 - ~~Diagnostic~~
- ~~Discuss current programs with lab directors~~
- Write vision statement and propose research and project portfolio
 - Determine budget and appropriate structures to implement strategic plan
- Design program to obtain industry and scientific community input
 - Measurement needs workshop

Discuss current programs with lab directors

- Through phone calls, emails, and visits:
 - Technical review of all major life science programs at NIST
 - Summary of current and projected budget allocations
- VCAT Reactions:
 - Several NIST programs are already directly addressing critical industry needs in Biotechnology/Healthcare
 - Projects are located in many different OUs and divisions
 - Efforts most often arose in response to OA requests and are often supported by OA funding
 - These efforts are largely independent and uncoupled
 - A cohesive unifying vision statement and strategic plan for NIST activities in this area currently does not exist

The NIST SP Approach?

- Identify under served areas of US industry
- Identify available NIST resources
- Evaluate core competences
- Determine industry sectors where these individuals can make a significant contribution
- Formulate a NIST research program



The VCAT SP Approach?

- Identify under served areas of US industry
- Determine and prioritize critical measurement needs
- Define skills that best address these measurement needs
- Find suitable staff at NIST, partner with other groups, hire in skills
- Formulate strategic plan



Conclusion

- We are using NIST 3 year plan and VCAT annual report as a deadline to develop first draft of consensus strategic plan
 - Ongoing discussion with VCAT members and industry leaders to formulate long term vision and project portfolio
 - Beginning discussions on possible management structure options to increase coherence between projects in different OUs
- Planning Measurement Needs workshop (October, '08) to engage industry and scientific community in discussion and obtain feedback and input on SP