

**Summary as Observed by
Yardley:
Straw Man Bullet List
[with some editorial comment]**

NNI: The First 10 Years

- 1. Unquestionably – New Science**
- 2. NNI did an amazing good job of anticipating HSE, Societal Impact, Manufacturing need.**
- 3. Tangible outcomes include:**
 - 1. New Science, both in anticipated directions and new directions.(Juan Rogers, also think graphene).**
 - 2. New Directions and Opportunities – totally different landscape.**
 - 3. New Business Opportunity toward benefit to humankind (including health, water, energy, disease, poverty) - many examples.**
- 4. All of above are on steep growth curve!**
- 5. Transformative paradigms for interdisciplinary research (especially in university environment) and business development.**
 - Bob Westerveld has started a company!**
- 6. Students will new understanding for interdisciplinary research and business development – transformative in many cases.**
- 7. NISE, NCN, NNIN, Networks that serve.**

NNI: The Next 10 Years.

- **New Science and Knowledge (as outlined in Science Policy Report..NNI 2020)**
 - **Can transform important societal issues: water, energy, health, poverty etc**
- **Unanticipated new science and knowledge which will continue to drive technological opportunity.**
- **Will experience significant new business development.**
 - **Nascent opportunity to “change the world” – toward genuine growth and solutions to societal problems.**

NNI Going Forward: Key Issues.

- 1. Funding and maintenance of momentum. Leveling or cut back evident. At same time business climate is being restrained.**
- 2. Global economy and with potential limitations in opportunity for growth and development**
- 3. Global balance and role of US. Nano is global and we had better figure out how to deal with this.**
- 4. How to better move opportunity generated into the real world – issues of business and “industry” – and how we can better couple the two.**
- 5. Recognition of the opportunities that NNI has and will generate by business, government, society at large.- question of worker training, versus job creation driven by genuine economic development, driven by society/government/economic forces.**

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NNI Going Forward: Key Issues.

- 6. How do we assure that further opportunities are developed and how can we accelerate movement into the real world.**
- 7. How do we continue to seed new developments and basic principles beyond the currently identified ones? How do we move on to systems of nanoscale objects?**
- 8. EHS: reality [especially in the culture of new business development and in terms of the global nature of business.]**
- 9. Global societal, governmental, and economic environment may inhibit the gifts that NNI 2020 can bring. How do we deal with this?**
- 10. Need increased appreciation of science and technology at K-12, general public, etc. Nanotechnology is and will be important vehicle. What is best way to do that? Resource allocation.**