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R/D Effort in Mainland China

- 1. No good translation in Chinese
- 2. Called "Internet of Things"
- 3. Was truly hot in 2009/2010, large and consistent effort by both central and local governments
- 4. Most R/D efforts focused on applications

R/D Effort in Mainland China

- 1. Basic research projects: funded by NSFC
- 2. 973 Projects: Large-size, fundamental research; 3 x US\$2M
- 3. 863 Projects: Large-size, translational R/D; 1 or 2 x US\$6M
- 4. Demonstration Projects: Super-large-size, 5 to 10 x US\$??M

My 973 Project

- 1. CFP: 5 lines;
- 2. Success rate: 3 out of 15+, one round of panel and two rounds of "interviews"
- 3. US\$2M for 3 years; subject to annual on-site evaluations; renewable and extendable(?)
- 4. One "Chief Scientist" plus 5 sub-teams (Tsinghua, CAS, Tongji, UMacau, and E China Normal) of 25 people
- Suppose to delivery results in both basic research and prototype of applications

Challenges

- Design, implementation, and promotion of protocols for secured and real-time communication
- Realization of model-driven embedded computing
- Innovative naming and search mechanisms
- Exploration of alternative, lower-layer communication mechanisms
- Legal concerns on data collection and distribution