CPS Research and Development in China

Wei Zhao
University of Macau
Oct 2012
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
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

5. 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