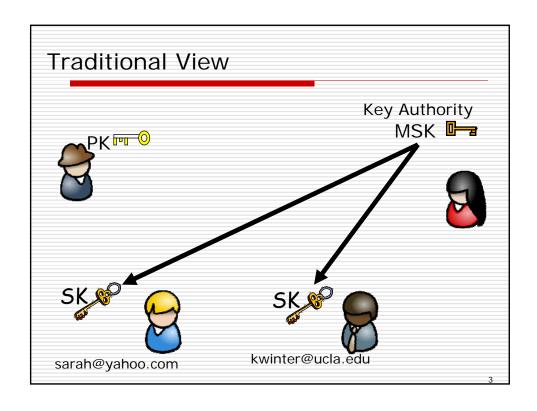
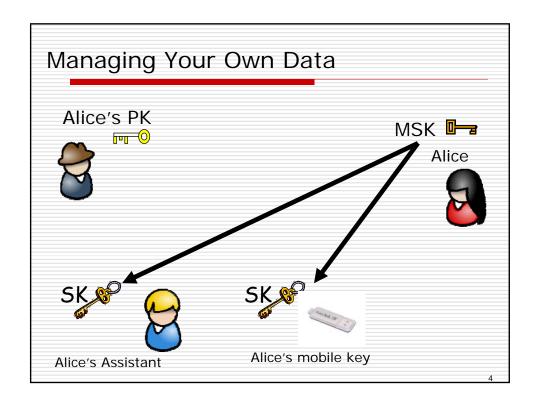
Identity-Based Encryption: A Long Term Perspective

Brent Waters SRI International

What is IBE?





Application versus a Technology Mistake not to separate Think bigger! Need to undo bias

Three Reasons to Like IBE

Several Applications

- □ Key Insulation/Forward Security [снкоз...]
- ☐ Searching on Encrypted Data [BDOP04]
- ☐ Malware Resistance [CDDLLW07]
- □ Note: none of these have trusted auth.

7

Big Conceptual Idea

- ☐ The breakthrough in encryption
- □ Open for 17 years
- □ I like big ideas!

8

Thinking Back to Public Key Crypto

- ☐ Before: Do we really need it?
- Engineer around it?
- □ Now:
 - SSL
 - Software Patches

9

Thank you