



# Engineering for Data Protection and Accountability

Michelle Finneran Dennedy

Sun Microsystems, Inc.

[michelle.dennedy@sun.com](mailto:michelle.dennedy@sun.com)

[www.sun.com](http://www.sun.com)



# Agenda

- Basic Considerations- Where should technology fit?
- The Dynamic Data Environment
- Business/ Organization Goals for Data Protection
- Engineering Goals for Data Protection
- Tools and Techniques for Data Governance and Accountability
- Final Comments

# Basic Considerations- Where should technology fit?

- What information does a company need to protect?
- What do I need my systems to do for my organization?
- How is the information being used?
- Who will the users be?
- What happens to information after it is no longer necessary for a business purpose?

**Organizations tasked with data protection must have the tools they need to fulfil privacy promises**

# The Dynamic Data Environment

- **Data and applications are built to invite two way participation by users and systems owners**
- **Increased data creation and movement create both risk and opportunity**
- **Protection of data becomes the foundation of control**
- **A foundation of control creates the possibility for governance**
- **Good governance creates a culture of accountability**

# Participation on the Network Drives Governance and Accountability Challenges



# Business Goals for Data Protection

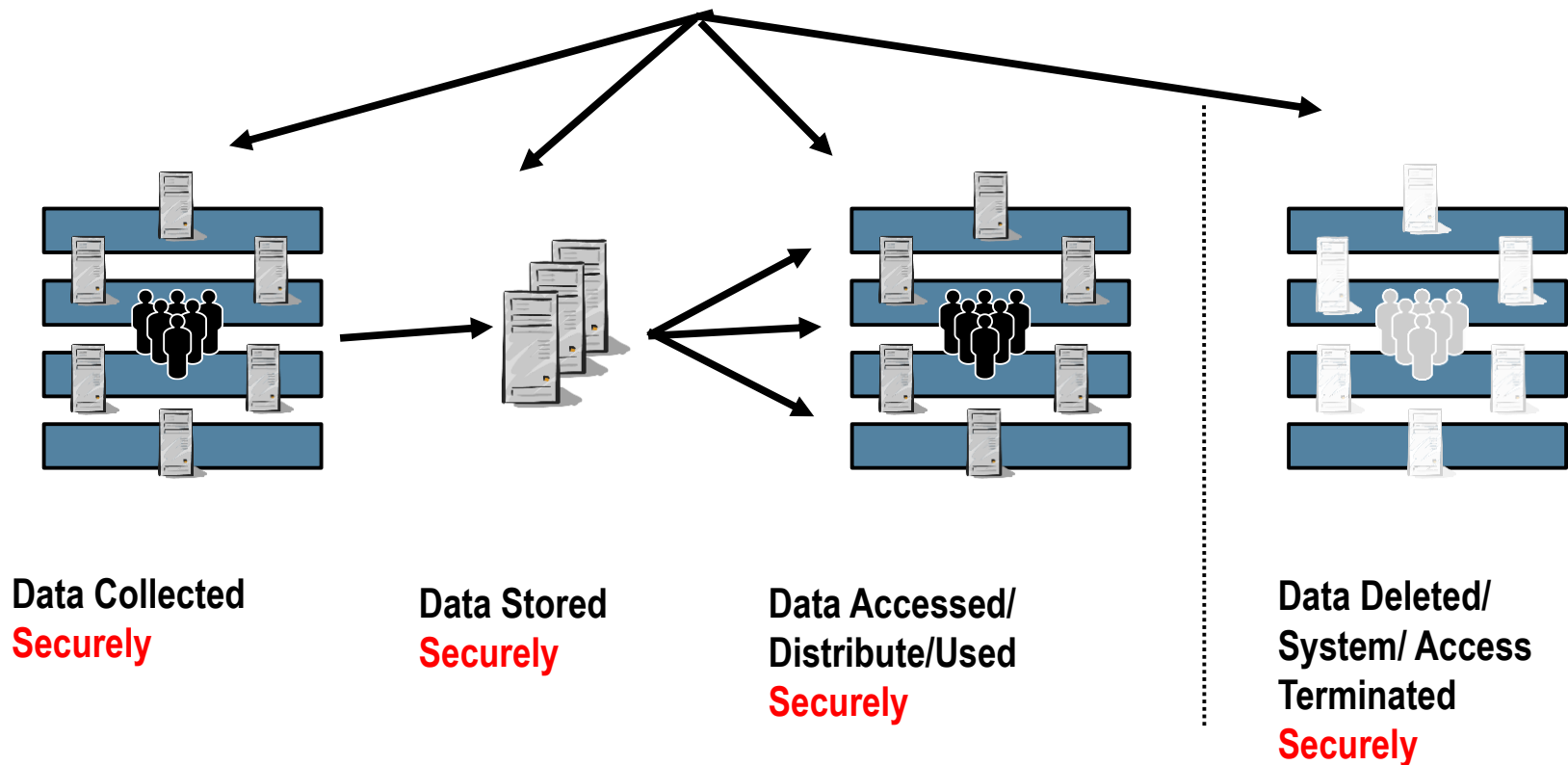
- **What information does a company need to protect?**
- **What do I need my systems to do for my organization?**
- **How is the information being used?**
- **Who will the users be?**
- **What happens to information after it is no longer necessary for a business purpose?**
- **How much will this cost?**

# Engineering Goals for Data Protection

- **How will the company plan to protect information?**
- **How will systems adapt to changing business requirements?**
- **How is the information being used?**
- **Who will the users be?**
- **How will the business begin to shape this system?**
- **How much do I have to spend?**

# Governance Requires a Systemic View

Secure from unauthorized access and use





# Tools & Techniques for Data Governance and Accountability

- **Confidentiality/ Classification of data**
- **Systemic Security – A layered approach**
- **Information Lifecycle Management**
- **Data Stewardship**
- **Standards**
- **Identity Management**
- **Data Minimization**
- **Secure Storage and Encryption**

# Final Comments

- Increased data flows accompany economic growth
- Data flows will continue to expand and become more complex
- Tools and techniques exist to manage data flows
- A systemic approach that considers the entire life cycle of data can help create governance and accountability
- That one begins the process to build governance systems and culture is more important than where one begins.



Thank You

Michelle Dennedy  
[michelle.dennedy@sun.com](mailto:michelle.dennedy@sun.com)

