

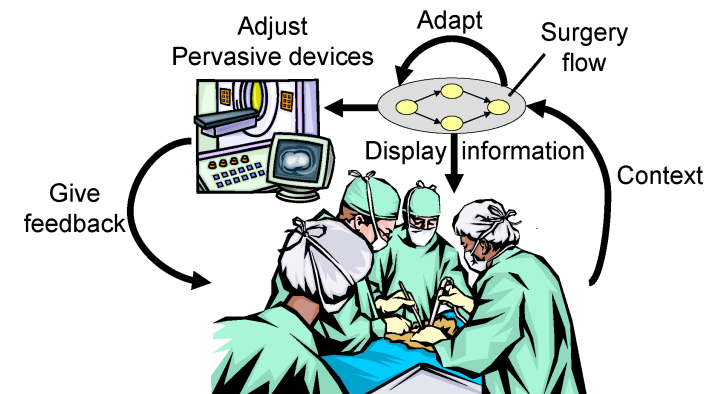
**ALLOW**  
*Adaptable Pervasive Flows*



# Thoughts on Pervasive Systems Security

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# ALLOW: Adaptable Pervasive Flows

- **Models of human activity.**
- Used to design applications for **adaptable pervasive workplaces:**

Factories, warehouses, airports, ports, shops, hotels, hospitals, schools, theatres, cinemas, theme parks, sports centres.

✓ **Improve quality of services, happier workforce, happier users, happier management and owners.**

# People

- People are not software or hardware.
- Large variation in **competences** and **attitudes**.
- Users will **violate** models, policies, rules – they forget, ignore, delay, delegate, postpone, abandon.
- Users are **reference monitors** too.

✓ We need to address the **actual behaviour** of users in security processes as well as **delegate** aspects of decision-making to users.

# Organisations

- No **culture** in organisations to win heart-and-soul of workforce.
- How to **engage** workforce about pervasive security?
- Organisations don't know what **best practice** is?
- Security **vocabulary** is too authoritarian in tone.

✓ There is a need for new ideas to improve the security culture in organisations.

# Real-world

- How to build *acceptable* security when information is **incomplete, unreliable, contradictory, unexpected, changing?** How to cope with pro-active **adversaries**.
- How to respect privacy of users while allowing pervasive applications to identify and monitor the **activities** of users?
- Some security decisions are more **serious** than others.
- **Unobtrusiveness** requires iteration/evolution.

✓ The real-world does not play nice. We solutions that are practical as well as technically sound.

# Final Thought

“May all your problems be  
technical”

*Jim Gray*