NIC Problem Space

There are two ways that one could approach the Infection Control problem. We could attempt to change the environment of the hospital to promote hand washing and proper infection control procedures or we could attempt to change care giver behavior. Our solution integrates both techniques by changing the environment to modify behavior.
NIC RFID Smart Room

- Records caregiver’s movements within room
- Entering room triggers lighting, vibration reminders
- Detects movement into patient or sink zone
- Deactivates system when caregivers leaves room
- Logs into Electronic Medical Records
- Triggers lighting cues for bed sanitizer and room sink
Medical Records

- Patient records displayed next to the sink for status checks while washing hands.
- Activating sink starts on-screen timer to ensure caregiver washes for 15 seconds.
- System logs off when caregiver leaves room.
Lighting Cues

- Track lighting illuminates path to sink
- Under sink light draws eye to sink
- If sink not activated within 15 seconds, lighting begins to blink
NIC Clean Pocket

• Antiseptic gel bulb in water-proof pocket on jacket
• Disinfectant solution always with caregiver
• Disposable cartridge replaceable when empty
• Vibrator on pocket reminds caregiver to use Clean Pocket or sink