

# Re-Design for the Time: Matching Management with Customer Needs.

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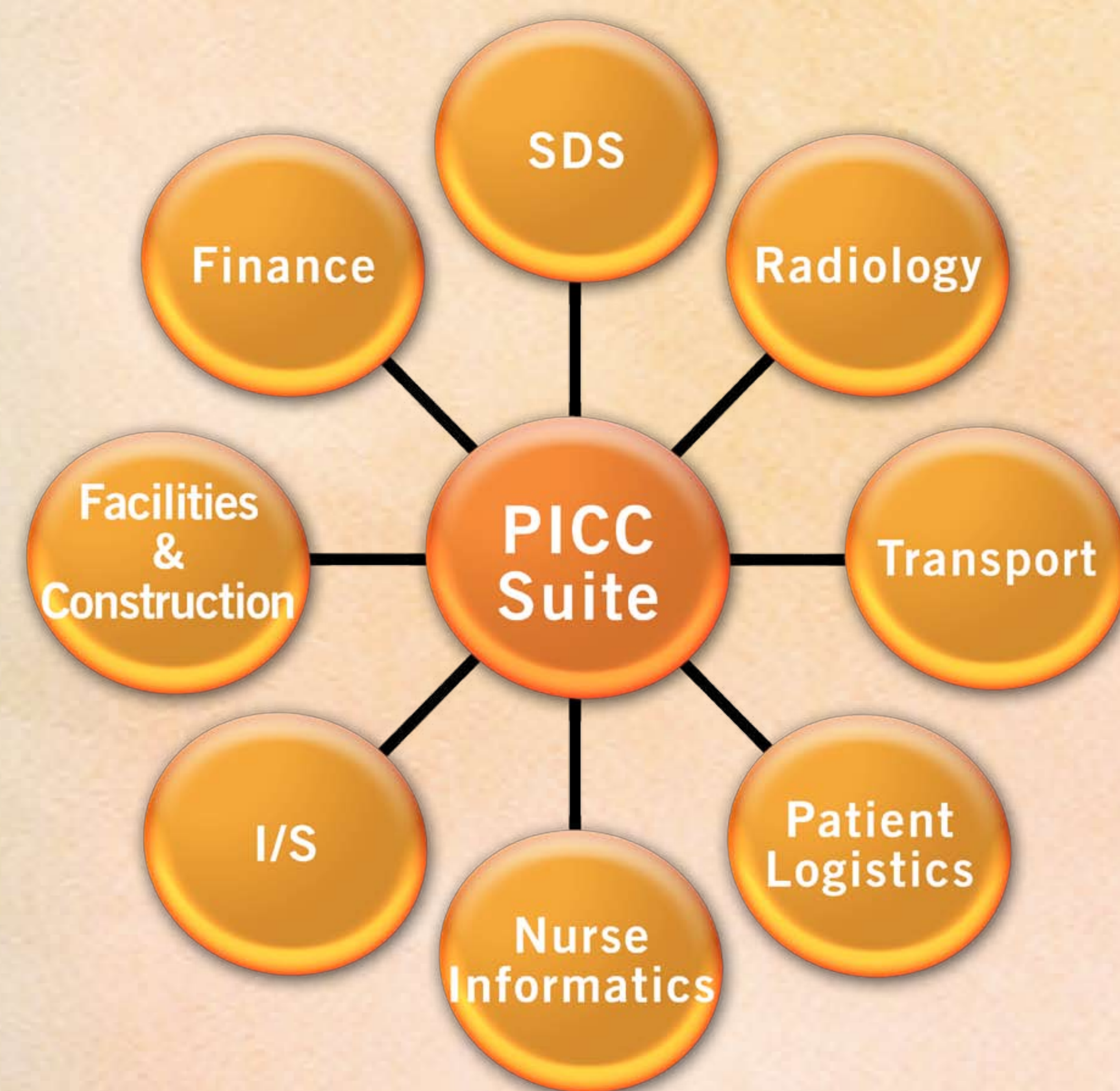
# Thinking Outside the Box: Development and Utilization of a PICC Suite

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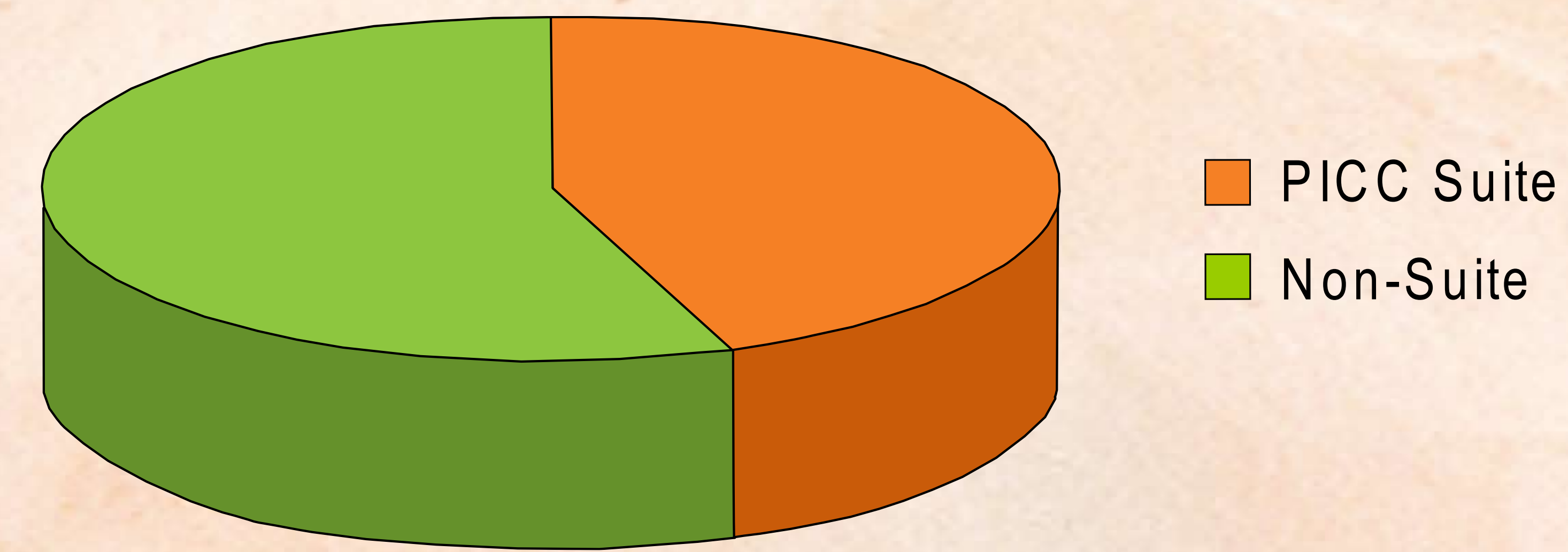
## PICO Methodology

- P:** Patient's requiring PICC line insertion at bedside and challenges related to maintaining maximum barrier protection.
- I:** Identify a separate space, in close proximity to radiology, to provide a controlled environment to increase compliance of IHI central line bundles related to maximum barrier protection and reduction of risk for infection.
- C:** Comparison of central line infection rates in patients who have had a PICC line inserted at bedside versus those placed in the PICC Suite.
- O:** Improved patient and staff satisfaction, staff efficiency and productivity, earlier turn-around-time for treatment, consistent Time Out processes, and maintain the National Healthcare Safety Network (NHSN) hospital's 10th percentile for catheter line associated bacteremia.

## Project Development



PICC Encounters 01/18/10 - 06/30/11



56% Non-suite, 44% Suite

## Nursing Implications

- Compliance with IHI recommendations for central line bundle
  - Adherence to patient "Time Out" process
  - Maximum barrier protection
- Improved efficiency and productivity
  - Time management
  - Decrease waste of "human potential"
  - Patients transported to suite
  - Close proximity to radiology services

## Outcomes

- Improved patient and bedside nurses satisfaction
  - Post procedure door to x ray < 10 minutes
  - Early initiation of treatments and interventions post procedure
- Enhanced PICC nurses satisfaction
- Reduce interruptions and maintain patient privacy
- Centralized supplies
- Expansion of services to outpatient population
  - Annual revenue realized - \$130,000

**Acknowledgement:** Vera Deacon, RN, CRNI - PICC nurse who sketched the initial concept.

## Limitations

### Exclusion Criteria

- Intensive Care Unit patients
- Patients isolated in a negative pressure room
- Continuous Fetal Monitoring patients
- Pediatric patients requiring sedation

## Conclusions

Lehigh Valley Health Network is a Magnet-designated, multi-site facility comprised of 981 acute care beds

- 3,990 - total number of PICC lines inserted at Cedar Crest Campus from January 18, 2010 through June 30, 2011
- 1,758 inpatient PICC lines inserted in the suite since opening in January 2010
  - 46 percent of inpatient PICC lines inserted in suite
  - 41% - 2010
  - 51% - 2011
- Annual infection rate
  - Cedar Crest Campus - 0.38
  - 6 lines inserted in suite
  - 5 lines not inserted in suite
  - Muhlenberg campus - 0.24
- Although no affect on annual infection rate, remain at the NHSN 10th percentile

## Next Steps

- Evaluate feasibility for additional PICC suite at the Muhlenberg campus

