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Digital Integration at Healthcare's Front Door: *Cycle Time Reduction for Registration & Intake*

> Elizabeth Howe, MBOE, LSSBB Priscilla Putnam, MIE



Learning Objectives

- Examine how to utilize lean thinking to deploy digital solutions in a complex multi-matrixed organization.
- Articulate how to align priorities across multiple entities within a single organization.
- Describe how Duke has worked to keep people and patients at the center of digital integration and operational improvements.



About Us



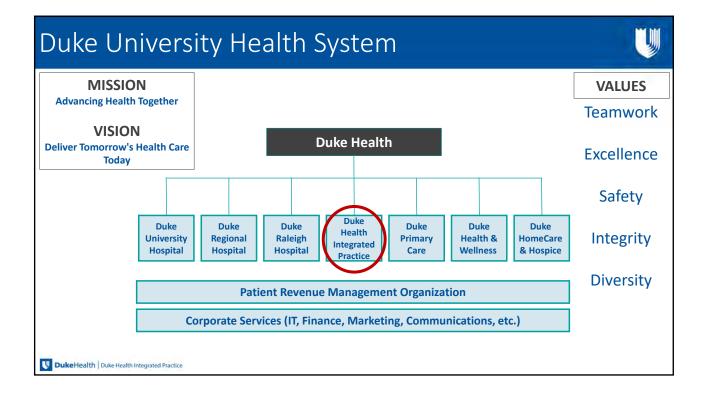
Elizabeth Howe

- Director of Performance Excellence
- Has worked at Duke for 17 Years
- Graduated from Ohio State with Masters of Business Operational Excellence

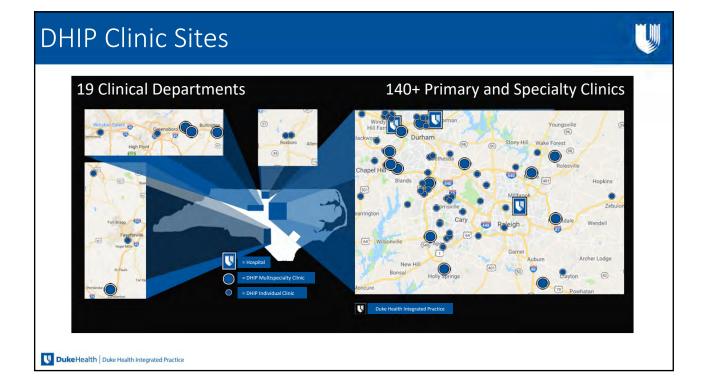


Priscilla Putnam

- Performance Excellence Coach
- Has worked at Duke for 5 Years
- Graduated from NC State with Masters of Industrial Engineering



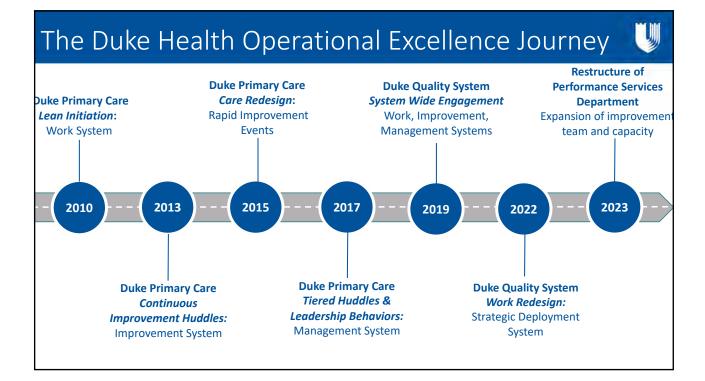


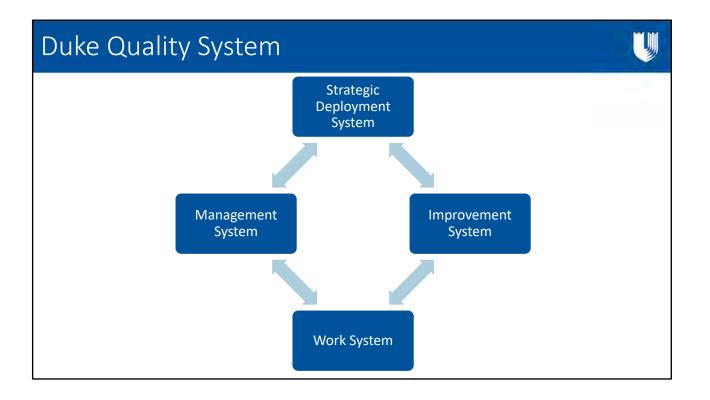


Poll: What is your Current industry?

Manufacturing Healthcare Service Tech Finance/Insurance Other











Source: https://www.imercer.com/articleinsights/workforce-turnover-trends







Reason for Action



At Duke Health, we aspire to *Perfect Patient Care* defined as "what a patient wants and needs, on time, the first time, no inequity, no error, no waste".

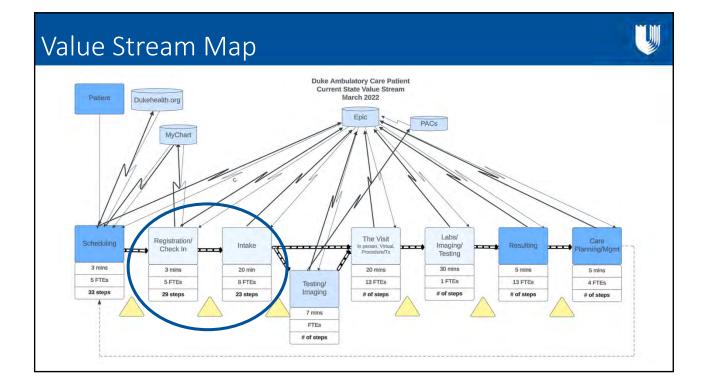


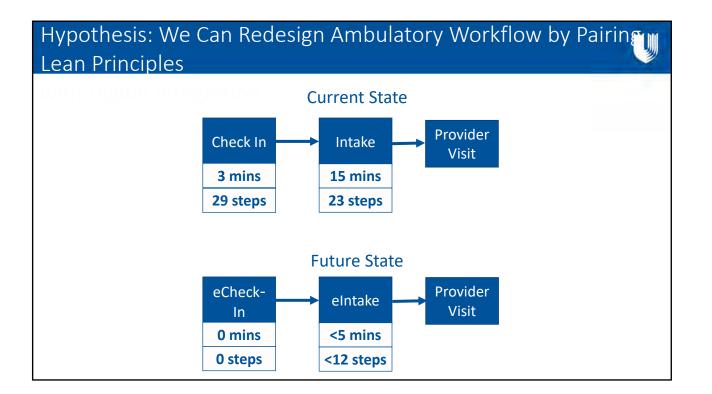
The Great Resignation has resulted in unprecedented staffing challenges, impacting our ability to provide *Perfect Patient Care*, and creating a need to re-evaluate our workflows and reduce the dependency on our current staffing models and provide our frontline with different ways of working.



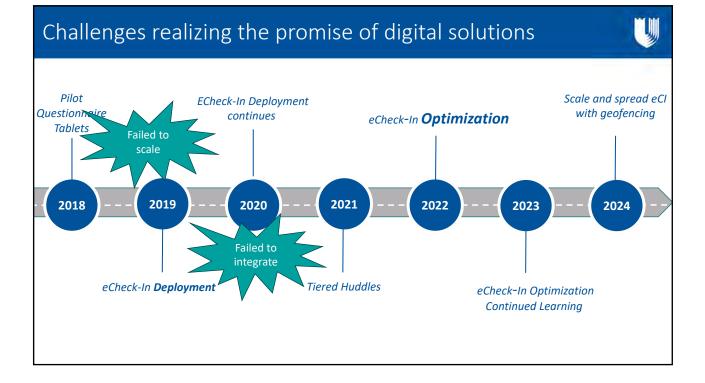
DHIP Leadership engaged in a value stream redesign effort focused on removing waste from workflows and increasing utilization of existing digital platforms to improve the care delivery experience for patients and team members, taking us one step closer to *Perfect Patient Care*.















Key Learning



You can deploy technology, but without a supportive process, it will fail.





Learning from Previous Failures



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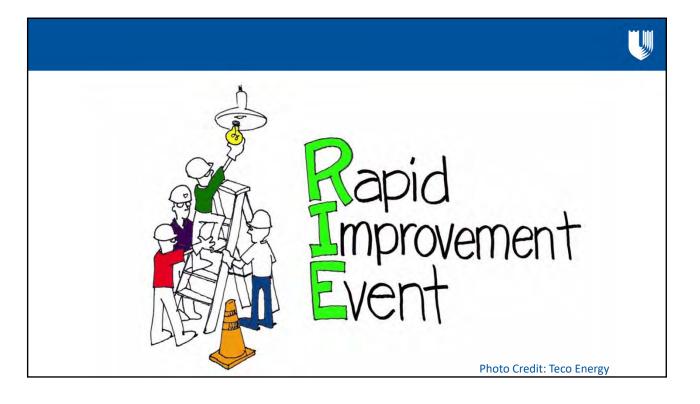


Poll: What is the consequence of failure in your organization?

- Blame and Shame
- Reflection and learning
- Hide It
- Nothing Happens
- Other



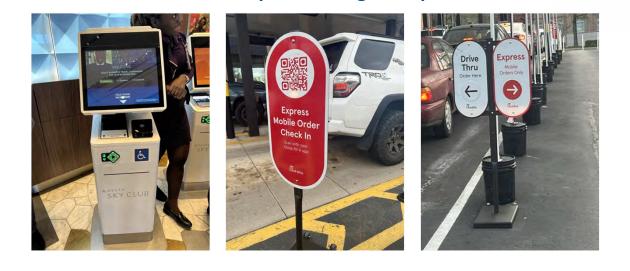


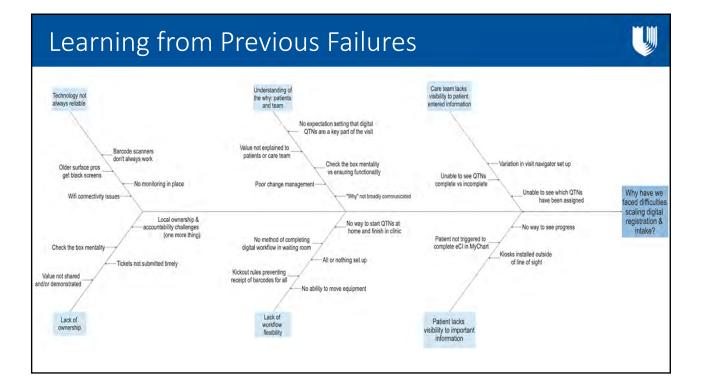




Voice of the Customer

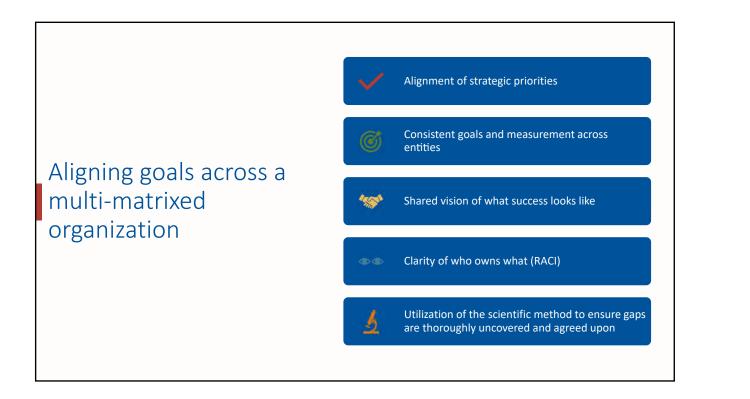
"We want an optimized digital experience!"



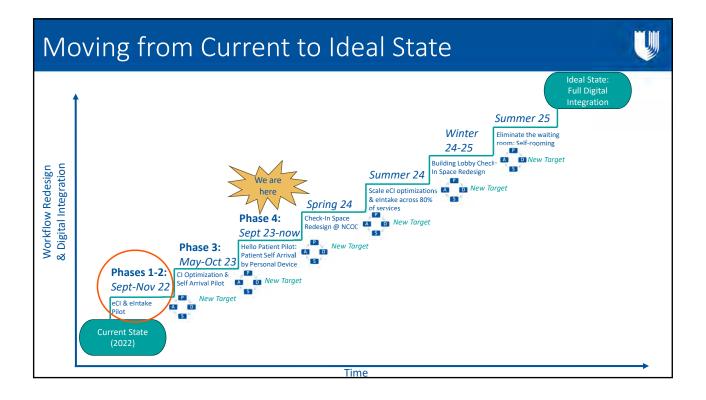


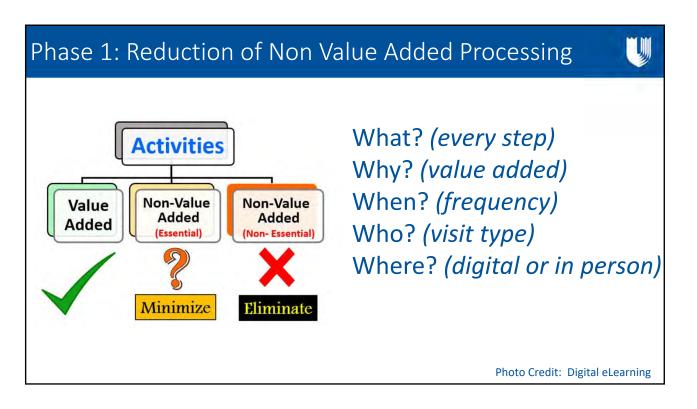




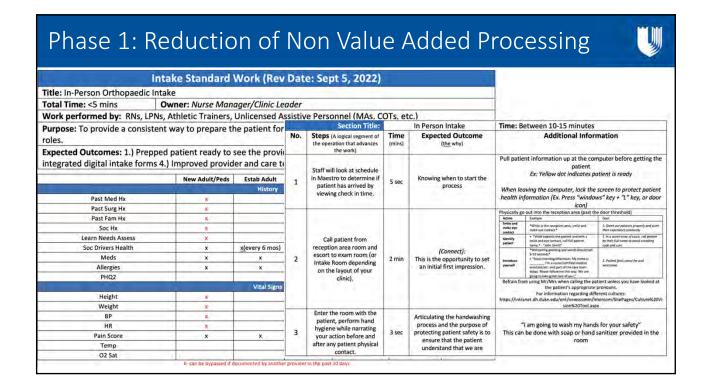


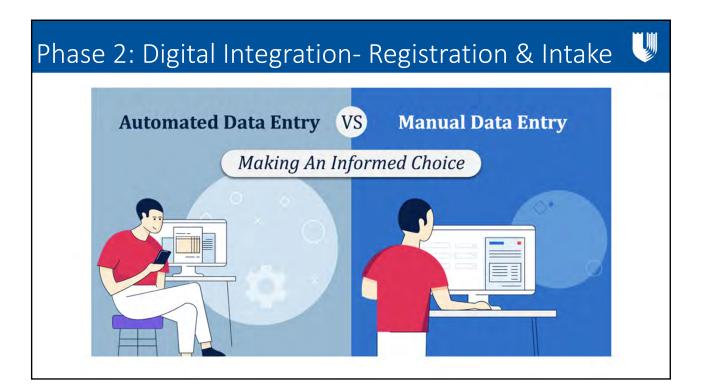




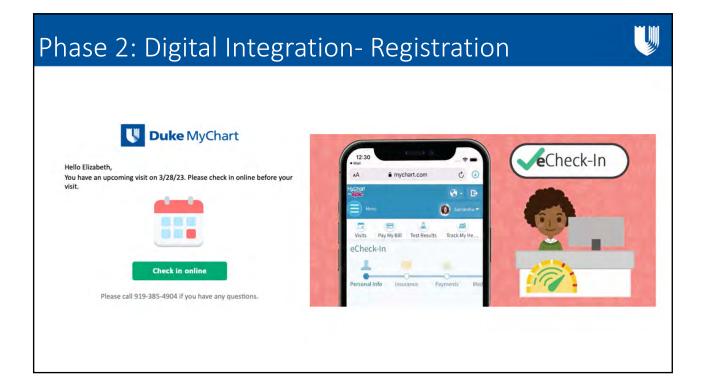
















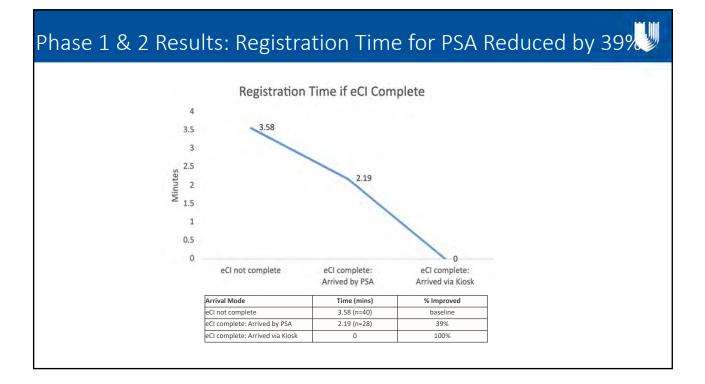
Phase 2: Digital Integration- Intake

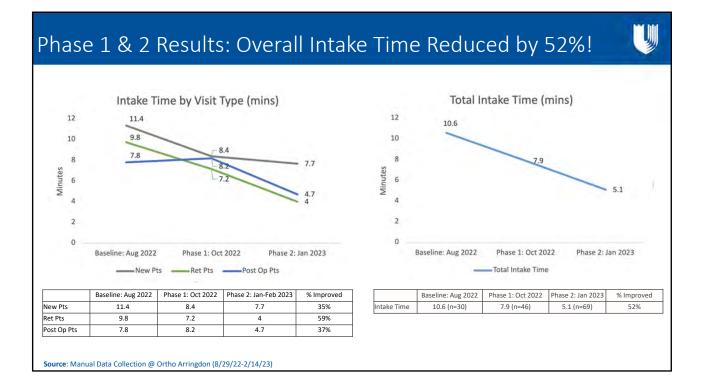




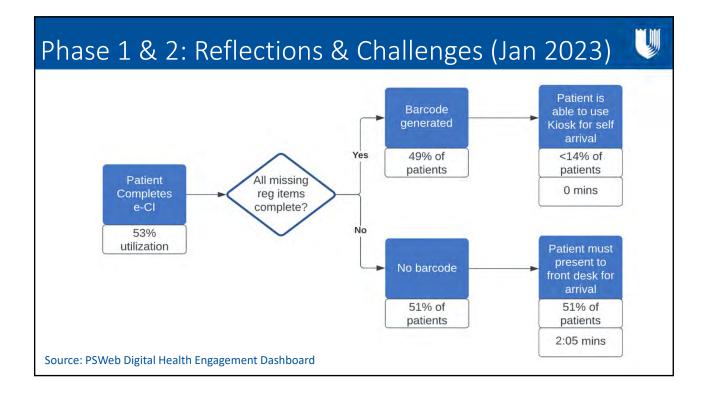


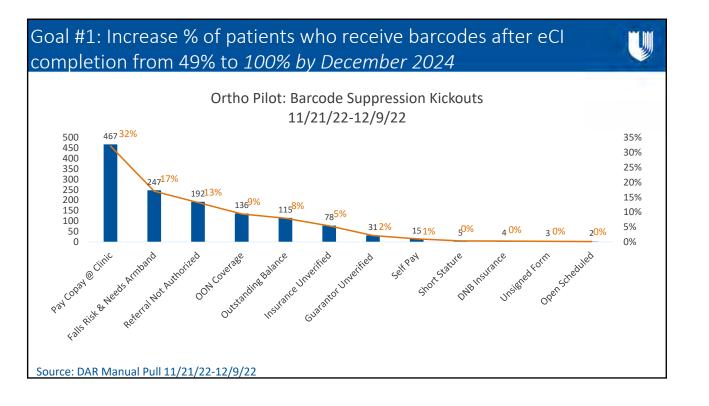




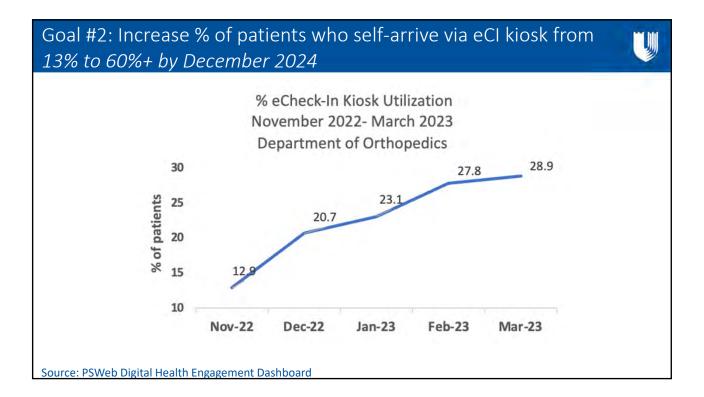


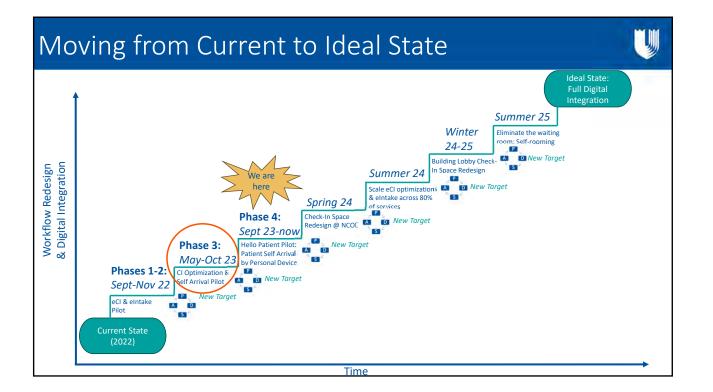




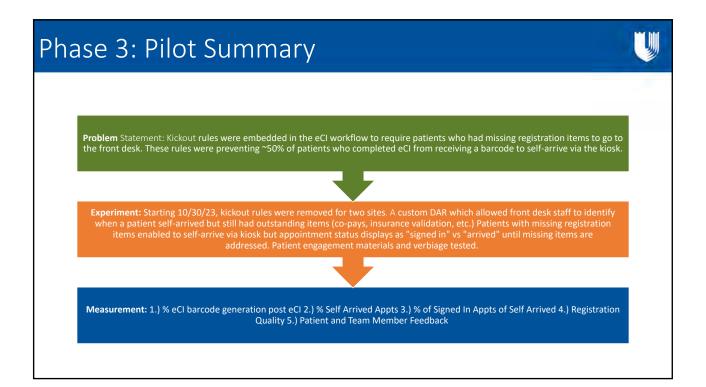


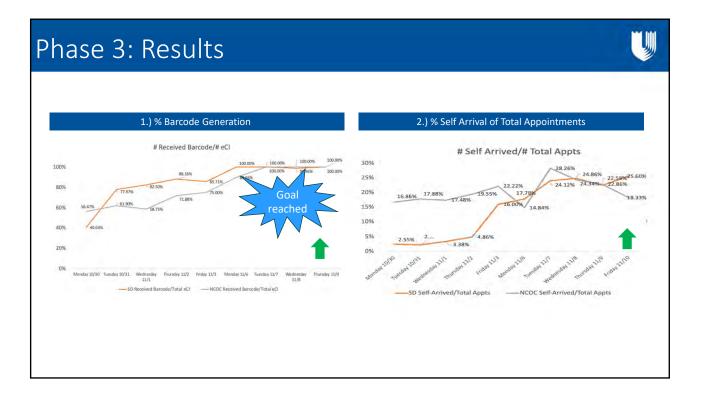
²⁰²⁴ Lean Summit



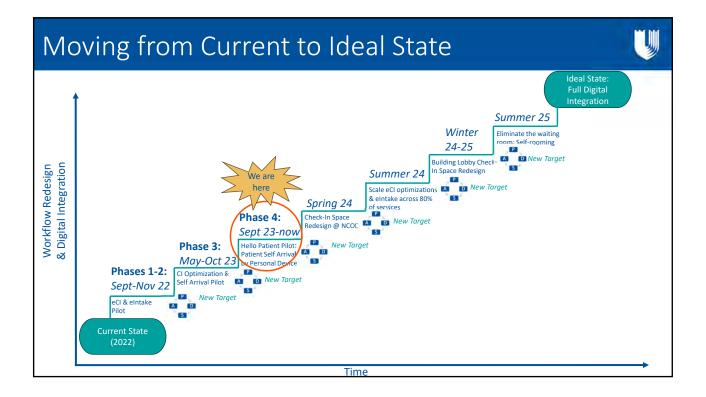






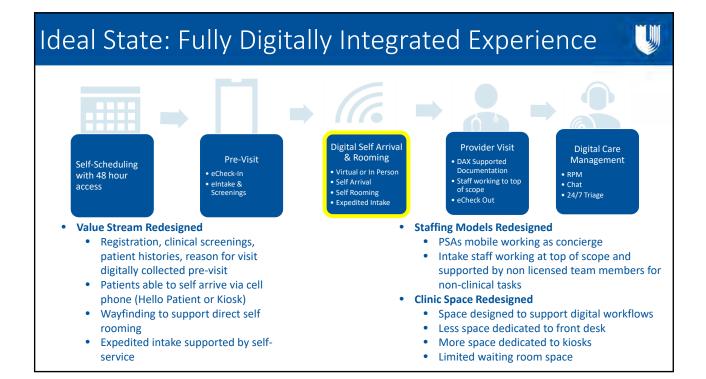






Connection to our Management System KPI WIP TES Protect 1 6000 0001000 THE EDUCATI 101100 010000 00000 PROBADI CLINIC DATA K MIGRINING Flass Arrival bar 45 23 8:78 37 1664 27 22: 71 37 9:96 12 17:67 40 25 86 30 18:75 12 19:60 40 24 11:73 38 19 25 24: 24: 11:63 28 45 12:51 25 24: 12:51 25 24: 12:51 25 24: 12:51 25 24: 12:51 25 25: 12:51 INS INCLUSION DATES CHEN-HE Ran Canter Montoles JANUARUS EXPERIENC TNDWRK HELP CHAN -0 -









Key Learnings & Reflection



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For Duke Health Ambulatory, we anticipate the labor & business challenges will continue.

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Workforce transformation also requires psychological safety and a commitment to not lay off employees.





sustainability. If we fail to keep our people at the center of improvement, those improvement efforts

Rethinking where,

does the work is a

long-term

when, how, and who

critical component of



Workforce transformation requires an aligned strategy and a deep understanding of the work system.

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Discussion & Sharing

- 1. How have you aligned priorities across your organization? What has worked? What hasn't worked? What did you learn?
- 2. How have you applied lean principles to digital integration efforts? What has worked? What hasn't worked? What did you learn?
- 3. How do you leverage the voice of the customer in your improvement work?
- 4. How has your organization ensured psychological safety amongst front line team members as new technology is deployed?
- 5. What strategies have you deployed to align stakeholders? What has worked? What hasn't worked? What did you learn?

