Best Practices Forum - Vancouver, BC

"Lean" Trends & Transformation in Healthcare Facility Design



The Neenan Company

Miguel Burbano de Lara, AIA, NCARB

Healthcare Today = Transformation

Cost is the primary driver and concern



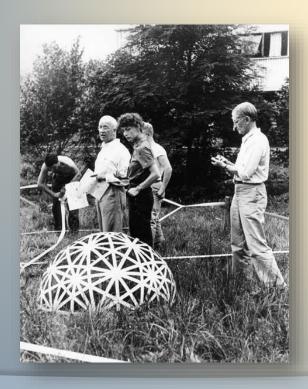
17% of GDP

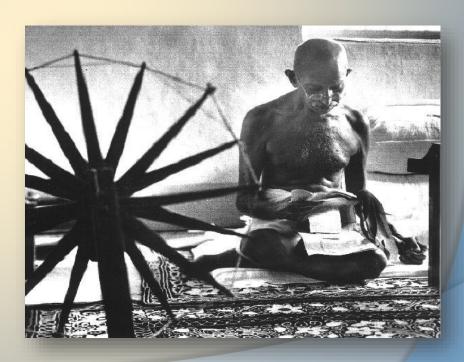


Gandhi Engineering

"Doing More with Less for more and more and more . . . "

R.A. Mashelkar: Breakthrough designs for ultra-low cost products



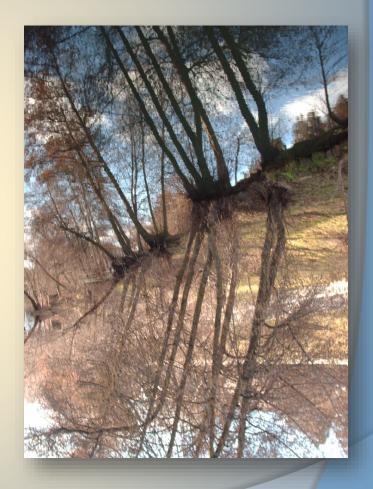


Lean Collaboration expands ideas

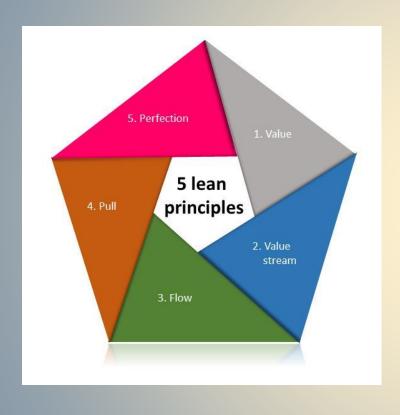
The magic of transformation inspires and motivates all



To win:
Solve scarcity, deploy
transformational
innovation



The 5 principles of lean



- Identify Customers, Value
- Define value stream
- Create flow
- Respond to pull
- Seek perfection

The Big Five Ideas of Lean

- Collaborate
- Optimize the whole
- Learn by doing
- Tasks are commitments
- Readiness/Relatedness

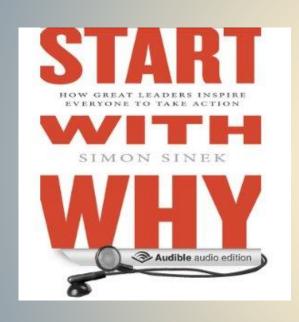


The New Culture Lean behaviors

- Continuous Improvement
- Innovate
- Competitive mindset
- Build trust
- Reliability



The WHY...The paradigm shift



- Patient Centric
- Population Based
- Community Wellbeing
- Efficiency/Integrity
- Affordable

The How... transformation



- Patient vs. staff centric (design, processes and experience)
- Team vs. caregiver centered (innovative collaboration)
- Functionality vs. form driven (facility design)
- Lean led processes vs. tradition (operational)
- Change is hard...

transformation is very

difficult

The What... Superior Outcomes



- Access, market dominance
- Value, safety, quality over volume
- Service experience (consumerism)
- Flexibility and adaptability
- Sustainable strategies/initiatives

Change



Flexible, nimble,
Less expensive to build and operate,
Sustainable

Patient/customer Wants



- What?
 - S, Q, A, E, \$\$...
- * How?
 - Transparency
 - Access
 - Patient Centric
 Everything

Organization needs:



What?

- S, Q, A, E, \$
- Differential advantages

How?

- Eliminating waste,
- Driving Innovation

Applying Metrics



- Validate affordability to drive access... competitive forces
- Plan for continued expansion ...changing marketplace
- Exceed targets for sustainability...for the business and environment

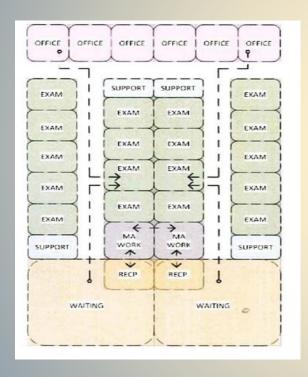
Buildings are Change Agents





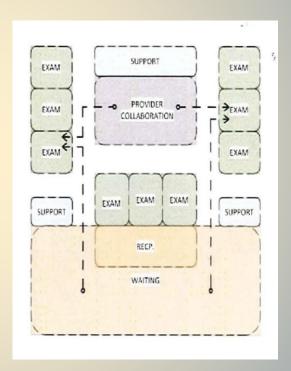
The past medical modules

'Traditional'



Kaiser, CHW, VA

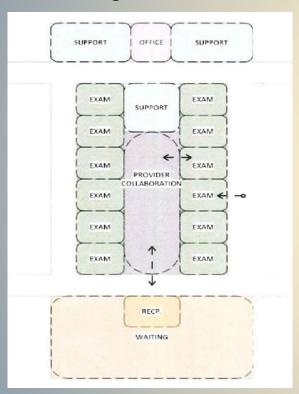
Denver Health



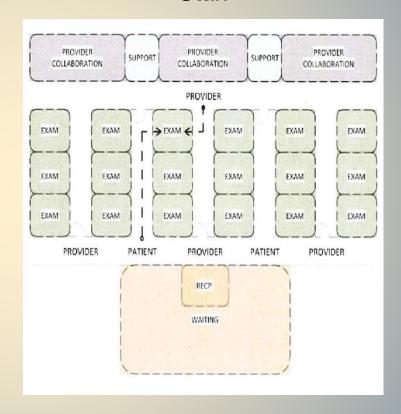
Denver Health, CHC's,

The past medical modules...

'Virginia Mason'



'Utah'



Virginia Mason, Seattle Children's,

Utah

Lessons from the past...



- Main nurses' workstation is an Open
- •Sightlines from caregivers to patients
- Rooms sized for increasing technology & family participation
- Distributed workstations

The More Recent Past

Sutter Gould Medical Foundation | Medical Module



the neenan company

Patient Environment



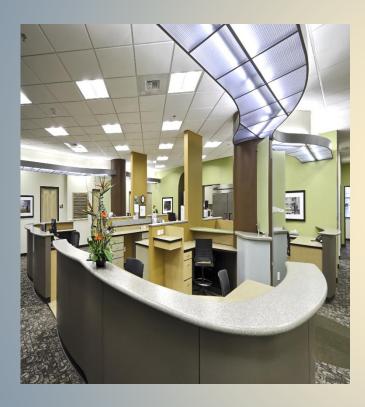
- Flow, access, way finding
- Services at point of care
- Comfort, flow
- Technology enabling
- Effective and Affordable...
- Right care the right time the right price

Patient Environment



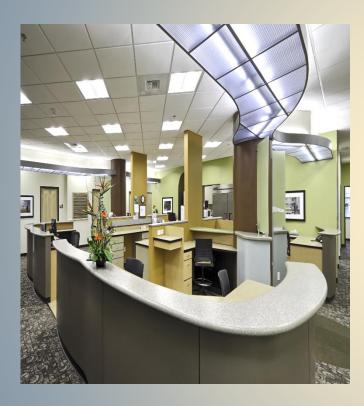
- Slider door entry
- Ergonomics
- Comfort, privacy
- Technology
- Effective and Efficient...

Caregiver Environment



- Best practices = evolving standards
- Collaboration = the Care Team
- Optimal flows (pocs & resources)
- Eliminate WAIT = effective time use
- Leverage patient time
- Just in time flows
- Enable provider work (team, private)

Caregiver Environment



- Team Work = evolving standards
- Private work = the Care Team
- Proximal flows (pocs & resources)
- Readiness = effective time use
- Leverage technology

Early adaptors



Eliminated Waiting Room

Central vs. Distributed Work

Team vs. individual

Collaborative vs. Segregated

Space

HER Driving Information Access

Right sized

Leverage technology

Eliminate paper

JIT

Innovations & New Developments



- Access: Call Center, Navigators, Kiosks...
- Eliminate wait, all wait
- Superior scheduling driving flow
- Multi-discipline Care Teams
- Technology: Pad vs. PCs; printers, screens...
- Flexibility: Modular, multi-function,
- Privacy is a must: On-stage offstage
- Tracking technologies and metrics

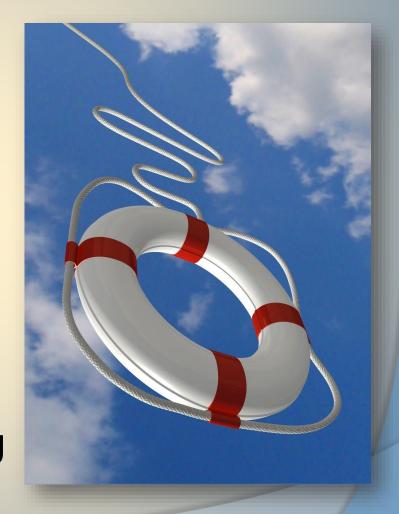
Soon: Tech Sustaining Wellbeing



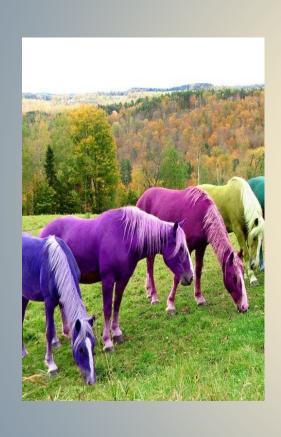
- Tele-health
- Group visits
- Laboratory
 Innovations
- Technological diagnostics
- Home health
- Corporate health

Transformational Delivery

- Patient Centric
- Transformational & Innovating
- Sustainable
- Technology Enabling
- Resources Leveraging



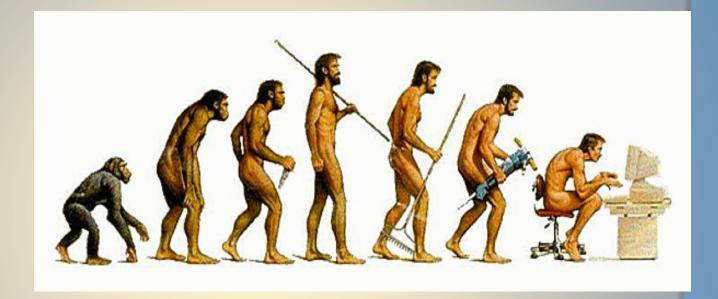
Become a Mutant



Darwin:

"It is not the strongest of the species that survives but the most adaptable"

Disrupt the trend



Lead transformation, lead the wellbeing industry

Transformational Leap! Not incremental



Lean and Neenan

- CDP's
- Engage Stakeholders: thinking differently...
- Innovation in all domains
- Lead value discovery
- New Focus:
 - Experiential
 - Integrated Care Teams
 - HC is a Team sport
 - Leverage Technologies (communication, EHR,)

Innovation



- Seeing Differently
- Doing Differently
- Making aDifference

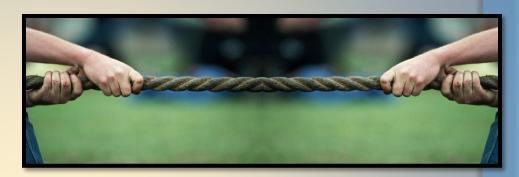
Converting Problems into Opportunities

Lean = "PUII" (Patient's)

- Eliminating Waiting
- Simplifying Process
- Speeding up Delivery
- Improving Access

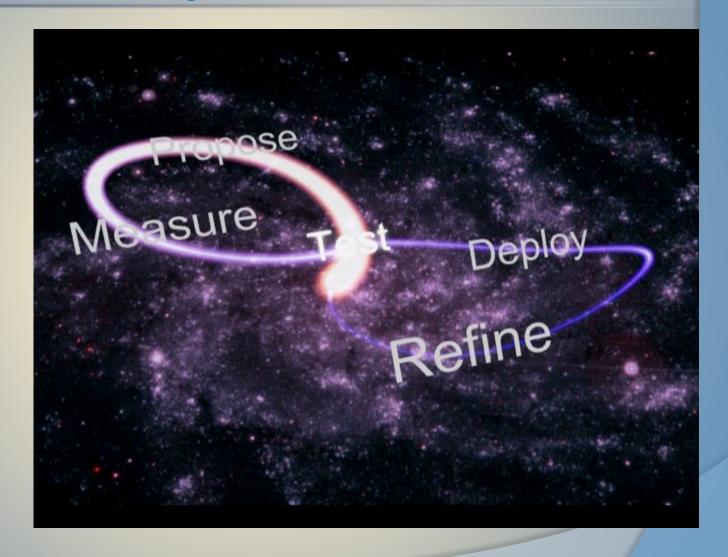


Lean = "Pull" (Staff)



- Eliminate (reduce) wait times
- Avoid "batching"
- Empower all employees
- Quality at the point of service
- Readiness of facilities & equipment
- Team vs. individual

Continuous Improvement a MUST



Healthcare is a team Sport



THANK YOU

"Commitment unlocks the doors of imagination, allows vision, and gives us the "right stuff" to turn our dreams into reality"

James Womack