



The **Millennials** have landed.



Session: 093003

Date: Friday, September 30, 2016

Time: 8:30am – 9:30am



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# YOUR FLIGHT CREW



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A close-up photograph of a boot print in dark, granular lunar soil. The boot print is clearly defined, showing the tread pattern of the sole. A small, rectangular piece of the American flag is embedded in the heel of the boot print. The background is a vast field of similar dark, textured soil.

THE MILLENNIALS HAVE  
LANDED...

**TIME TO GET READY FOR THEIR  
OFFSPRING**

Optimizing Space Design  
for Continual Change

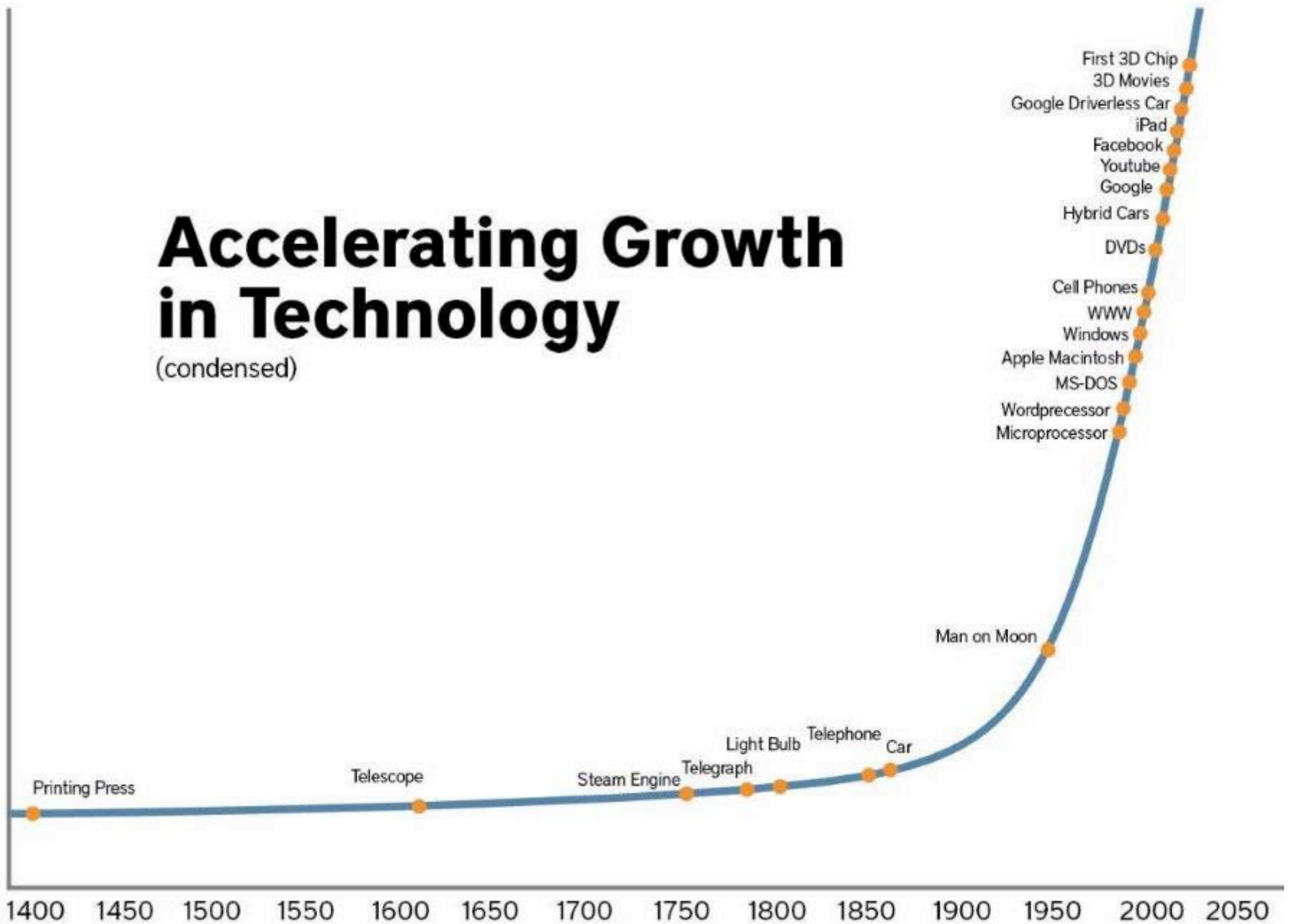
TCUF Conference 2016

# TECHNOLOGY



# Accelerating Growth in Technology

(condensed)





# SOCIAL OR WORK?

# LEARNING







65% of today's grade school kids will end up in jobs that haven't been invented yet.

– US Department of Labor, Futurework Report: Trends and Challenges for Work in the 21<sup>st</sup> Century

# SPACE PLANNING GOALS

- Optimization of Current
- Correct Utilization Projections
- Future Proof
- Sustainable
- Cost Effective

# SPACE DEVELOPMENT

----- Drivers

----- Evolution

----- Problems

# SPACE DEVELOPMENT

----- Drivers

# SPACE DEVELOPMENT



## ----- Drivers



----- Workforce Development Requirements

----- Enrollment ROI

# SPACE DEVELOPMENT

----- Evolution

# SPACE DEVELOPMENT



----- Evolution



----- Organic Reactionary Allocation

----- FICM Data vs Operational Realities

# SPACE DEVELOPMENT

----- Problems



# SPACE DEVELOPMENT

----- Problems

----- Concept till Move-in = 2-10 years

----- Strategic & Un-expected Changes

----- Silos of Dogma

A man with short blonde hair, wearing a white shirt and a dark tie, is shown in a close-up. He has a headset with a microphone around his neck. He has a serious, focused expression. In the background, other people in white shirts and ties are visible, some looking down at their work. The scene appears to be a control room or a professional office environment.

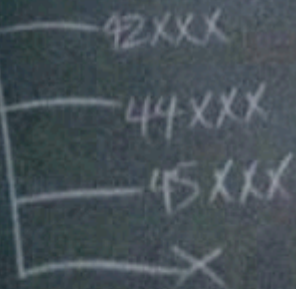
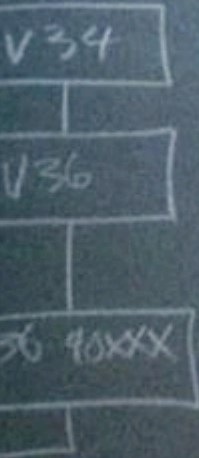
# THE PROBLEM

"Report in Please"

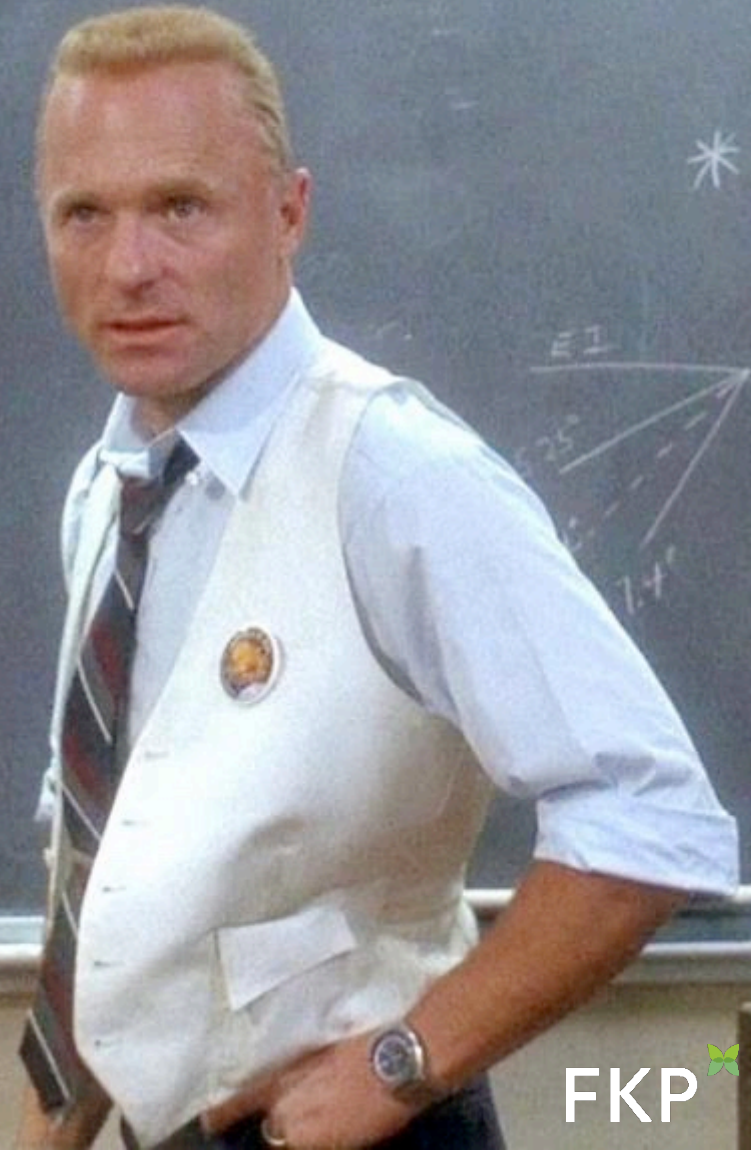
# THE SOLUTION

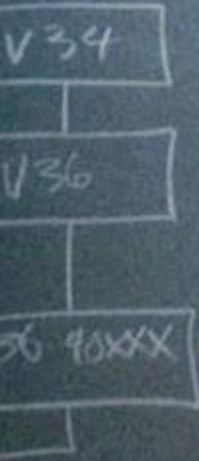
Integrated Qualitative + Quantitative Data

**SYSTEMATIC PLANNING  
FOR CONTINUAL  
CHANGE**



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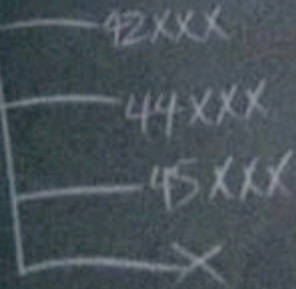
STAKEHOLDERS

ENROLLMENT

PEDAGOGIES

LEARNER

OPERATIONS



# STAKEHOLDERS

Define Who + Participation Plan

## EXECUTIVE

- Senior Level Decision Makers
- Oversees Process
- Strategic Plan

## STEERING

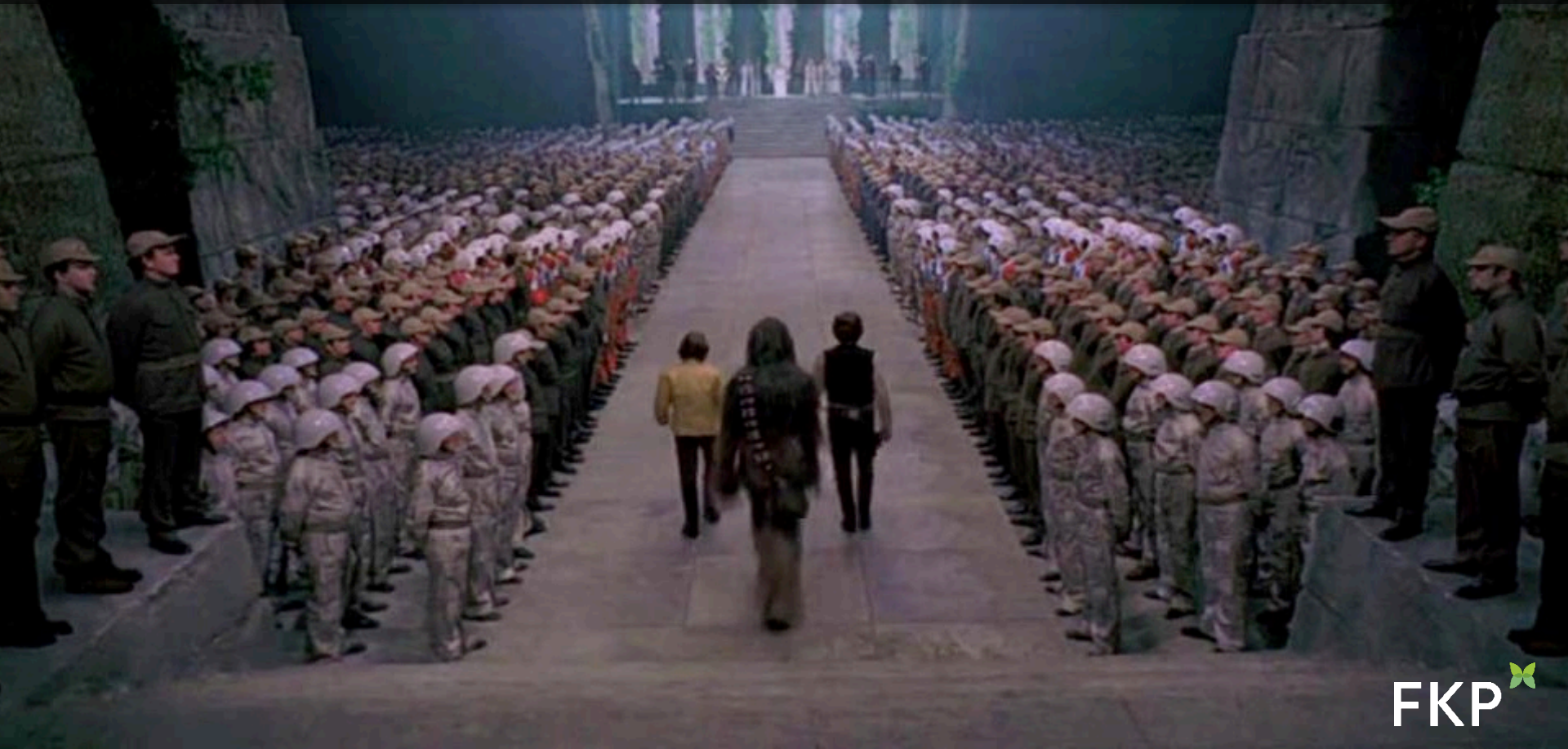
- Representative
- Advisory
- Key Issue
- Guidance
- Strategic Plan
- Operational Data

## FOCUS GROUPS

- Dept. Chairs
- Key Faculty
- Specific Tasks,
- Topics & Areas
- Evolving
- Curriculum

# ENROLLMENT

Define Projections + Vision Prompt





# CURRENT

# PROJECTED

- Number of Years Per Program & Program Sub Divisions
- Which Year # of Learners in Specific Programs
- Faculty to Learner Ratio Requirements
- Group/Section/Class Size
- Desired vs Required
- Required External Experiences

- For 5 & 10 years
- Possible With Change in Workforce Development
- Possible Based On Strategic Plan(s)
- Possible With Change in Curriculum Delivery Models



# PEDAGOGIES

Define Types + Vision Prompt

# CIRRICULUM ANALYSIS

## WHAT IS TAUGHT HOW?

- Type of Space Used
- What Does “Lab” Mean?
- Do Lectures Include Inter-Active Activities
- How is Technology Used to Support Faculty & Learners

## WHAT TYPES OF NEEDS?

- Workforce Development Drivers
- Evolving Curriculums
- Accreditation & Certification Requirements & Trends
- Inter-active, Hands On Practice, Immersive Experiential
- Specialized Space & Equipment
- Technology for Reinforcement and Evaluation



# LEARNER

Define Gaps + Vision Prompt

# CURRENT NEEDS

- Measures Of Success
- Application of Knowledge Into Right Actions at Right Times for Right Reasons
- Workforce Development Needs
- Social Culture
- Socio-Economic Mix

# EVOLVING NEEDS

- Social Culture
- Workforce Development Expectations
- Technology & Equipment
- Support Resources
- Environments

A person wearing a red jumpsuit and a black helmet is floating in a circular hatch. The background is a red grid pattern. The person is looking towards the right.

# OPERATIONS

Define Logistics + Vision Prompt

# CURRENT

- Organizational Structure
- Scheduling
- FTE Support – Roles
- Equipment, Supplies & Technology
- Storage & Work Space
- Budget

# NEEDS

- Organizational Structure
- Scheduling
- FTE Support – Roles
- Equipment, Supplies & Technology
- Storage & Work Space
- Budget

A full-page background image showing an astronaut in a white and orange spacesuit standing on a sand dune in a desert-like environment. The astronaut is facing away from the camera, looking out over a vast, flat, sandy landscape with large, rocky, layered rock formations in the distance under a hazy, orange-tinted sky. The text 'CASE STUDIES' is overlaid on the right side of the image in a large, white, sans-serif font.

# CASE STUDIES



# UNIVERSITY OF TEXAS

## HEALTH SCIENCE CENTER HOUSTON

### SCHOOL OF NURSING

- Strategic Desire to Increase Nursing Program Enrollment
- Competitive Market For Required Clinical Placements
- Fragmented Experiential Learning Areas

# SEPLO PROCESS FACILITATED

- Utilization Analysis
  - ✓ Enrollment Projections
  - ✓ Pedagogical Models For Experiential Learning
  - ✓ Curriculum Analysis For Defined Hours Per Learner Per Type Of Experience
  - ✓ Trends
- Modeling To Identify Amount of Required Clinical Hours Possible To Provide In Lab
- Programming For Right Size & Types of Rooms
- Schematic Design Operational Flow To Optimize Flex Use
- Renovation + FFE Costs + FTE Operational Costs

# Utilization Analysis

## Enrollment + Pedagogy + Operations

### OPTION #2

Training Rooms	Space Planned	Weeks Per Year	Days Per Week	Days Per Year	Hours Per Day	Hours Per Session	Sessions Available Per Day	Sessions Available Per Year	Number of Sessions Needed Per Year	Total Utilization	Utilization By Room Use	Notes
SKILLS & TASK TRAINING	6 10 Bed Skills & Tasks	48	5	240	10	2.5	4	960	4379	456%	78%*	2 Learners per bed. 10 beds per room. 20 Learners per room. 6 Rooms = 12 concurrent Groups of 10 Learners =120 concurrent Learners
AMBULATORY CARE TRAINING	DELETED	48	5	240	8	2.5	3	768	987	0%	0%	ALL HOURS ADDED TO STANDARDIZED PATIENTS
PATIENT FLEX CARE	8 Flex + 8 Debrief	48	5	240	10	4	3	600	5251	875%	88%**	8 Debrief Rooms + 8 Pt Care Flex Rooms. Maximum of 8 concurrent Groups of 10 Learners = 80 concurrent Learners
STANDARDIZED PATIENT	15 Outpatient Rooms	48	5	240	10	4	3	600	1704	284%	94%***	15 Rooms. 2 Learners per room. Maximum of 3 Groups of 10 Learners = 30 concurrent Learners
NURSE ANESTHESIA - OR	WILL USE CURRENT SPACE	48	5	240	8	6	1	320	0	0%	0%	WILL USE CURRENT SPACE
HOME HEALTH	DELETED	48	5	240	8	2	4	960	518	0%	0%	ALL HOURS ADDED TO PATIENT FLEX CARE

Estimated FTEs to Support = 8 Techs + 8 Faculty Facilitator/Debriefers

YELLOW = EXPANDED HOURS

PINK = UTILIZATION EXCEPTIONALLY HIGH

### OPTION #3

Training Rooms	Space Planned	Weeks Per Year	Days Per Week	Days Per Year	Hours Per Day	Hours Per Session	Sessions Available Per Day	Sessions Available Per Year	Number of Sessions Needed Per Year	Total Utilization	Utilization By Room Use	Notes
SKILLS & TASK TRAINING	5 10 Bed Skills & Tasks	48	6	288	10	2.5	4	1152	4379	380%	76%*	2 Learners per bed. 10 beds per room. 20 Learners per room. 5 Rooms = 10 concurrent Groups of 10 Learners =100 concurrent Learners
AMBULATORY CARE TRAINING	DELETED	48	5	240	8	2.5	3	768	987	0%	0%	ALL HOURS ADDED TO STANDARDIZED PATIENTS
PATIENT FLEX CARE	8 Flex + 8 Debrief	48	6	288	10	4	3	720	5251	729%	88%**	8 Debrief Rooms + 8 Pt Care Flex Rooms. Maximum of 8 concurrent Groups of 10 Learners = 80 concurrent Learners
STANDARDIZED PATIENT	15 Outpatient Rooms	48	6	288	10	4	3	720	1704	237%	79%***	15 Rooms. 2 Learners per room. Maximum of 3 Groups of 10 Learners = 30 concurrent Learners
NURSE ANESTHESIA - OR	WILL USE CURRENT SPACE	48	5	240	8	6	1	320	0	0%	0%	WILL USE CURRENT SPACE
HOME HEALTH	DELETED	48	5	240	8	2	4	960	0	0%	0%	ALL HOURS ADDED TO PATIENT FLEX CARE

Estimated FTEs to Support = 8 Techs + 8 Faculty Facilitator/Debriefers

YELLOW = EXPANDED HOURS

PINK = UTILIZATION EXCEPTIONALLY HIGH

# INCREASED ENROLLMENT SPACE PLAN

- Modeling To Identify Amount of Required Clinical Hours Possible To Provide In Lab
- Programming For Right Size & Types of Rooms
- Schematic Design Operational Flow To Optimize Flex Use
- Renovation + FFE Costs + FTE Operational Costs





# UNIVERSITY OF TEXAS - AUSTIN

## DELL SCHOOL OF MEDICINE

- *Location – Key Corner In Health Care Corridor*
- Curriculum In Development
- Specialty Space Needed:
  - Standardized Patient
  - Skills & Task Training
  - Immersive Simulation
- Phase 1 Funding Has:
  - Limited TSF In Programming
  - Funding For Teaching Equipment

# UNIVERSITY OF TEXAS - AUSTIN

## SCHOOL OF NURSING

- *Location: Across The Street From New DSM*
- Has
  - Immersive Simulation Space
  - Outdated & Limited Realistic Equipment
  - “McGyvered” Technology
  - Variable Methodology -> Ad Hoc use
  - No \$\$\$\$\$
- Needs
  - Standardized Patient Space
  - Expanded Classroom Space
  - Centralized & Adequate Storage Space



# SEPLO PROCESS FACILITATED

- Stakeholders Shared Mental Model:
  - Evolving Best Practices
  - Accreditation Trends
  - Pedagogical Models
    - ✓ Required Operations
    - ✓ Required Technology
    - ✓ Required Resources
- Identification Of Capacity For Shared Resources
- Identification Of Operational Support FTEs Required

# SHARED INSTEAD OF REPLICATED

- UT- DSM Funds & Shares
  - Renovation + Equipment in SoN
    - 5 Room Sim Flex Suite
    - Control Station + AV System & Software
    - Wet/Dry Skills Training Lab
- New Build
  - 6 Room SP Suite
  - 50 Seat TBL
- UT – School of Nursing Funds & Shares
  - Operational FTEs
  - Space
  - Equipment
  - Work Prep/Storage

# UNIVERSITY OF THE SCIENCES PHILADELPHIA COLLEGE OF PHARMACY

- Campus Wide Master Plan
  - Identified Needs
  - Data Based Prioritization Decisions
- Evolving Curriculum – In Design
  - Integrating Experiential With Didactic
  - Integrating IPE
- Key Needs
  - Lab Renovations
  - Classroom(s)
  - Experiential Learning + Immersive Simulation

# SEPLO PROCESS FACILITATED

- Expanded Stakeholder Group
- Identification & Support For Evolving Best Practices + Accreditation Trends
- Clarification Of Unique Pedagogical Models In Evolving Curriculum Design
  - Required Operations
  - Required Technology
  - Required Resources & Support FTEs
- Identification Of Capacity For Shared Resources
- Modeling For Cost Options
  - Space
  - Operations
  - Intra & Inter Professional Use

# GROWTH WITHIN EXISTING FOOTPRINT

- Meet Accreditation Requirements
- Meet Experiential Learning Requirements
- On-site Immersive Simulation Space
  - Decreased costs for outsourcing
  - Increased ability to provide integrated + IPE experiences
  - Share with OT, PT, PA
- Operational Planning For
  - FTE # & \$ For Support Personnel
  - Proportional Shared Use Funding
  - Known Growth Potential Within Current Footprint

# SEPLO

## Systematic Planning For Continual Change

- ❑ Integrates Qualitative + Quantitative Data
- ❑ Informs Space Programming
- ❑ Ensures Optimized Operations
- ❑ Future Proof Modeling



TO MILLENNIAL  
AND BEYOND!



# Seminar Evaluation

We hope you enjoyed this session...

Please take a moment to complete the evaluation form.

Thank you!

