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### Time-Tested Approaches to DNP Scholarly Projects





### COLLABORATE

### The Problem

#### It has been said that the DNP ......

- Will be bad for our profession
- Will reduce the number of scientists
- Will be the bud light of doctoral

education

Lacks consistency

Cronenwett, Dracup, Grey, McCauley & Meleis (2011)







- 14 years
- 348 programs
- 50 states
- 7,039 graduates
- 32,678 students enrolled
- 7,039 projects
- Marked innovation in education & evaluation
- Highly variable approaches
- Inconsistent expectations

1. What can be learned from the experiences of established DNP programs that might benefit all DNP programs? 2. What is the nature of the scholarly

projects being conducted?

	To describe the scholarly projects accepted in
	partial fulfillment of requirements for
	graduation from DNP programs across the
	United States:
	<ul> <li>Nature of the work</li> </ul>
	<ul> <li>Outcomes achieved</li> </ul>
Purpose	<ul> <li>Challenges encountered</li> </ul>
	– Lessons learned
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• How uncertain was the outcome?



Research Questions of Interest to the Team

- What were the **aims** of the work?
- What framework guided the work?
- What methods were used?
- What was the IRB decision?
- What analytics were used?
- Was statistical power achieved (reported)?
- What **outcomes** were achieved?

Research Questions of Interest to the Team

- What were the **lessons learned** regarding organizational change?
- What were the **unintended consequences**?
- How has the work been disseminated?
- What threats and challenges were encountered?
- What was the return on investment?
- How will the work be sustained?

Research Questions of Interest to the Team

- How are we doing with regard to the2015 White Paper recommendations?
- What can we learn about our projects?
- What can we learn about our curricula?
- What can we learn from each other?

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Logic Model – Description of Projects from DNP Programs				
INPUTS	THROUGHPUTS		OUTPUTS	
Top DNP programs	Activities	Measurements	Short Term	Long Term
rated by US News & World Report (n=22)	Train all faculty to use UPC instrument	Uncertainty	Description of DNP	Disseminate findings
		Pace	scholarship	
25 final scholarly projects from each participating school	Conduct criterion referenced evaluation of all projects	Complexity	List of time-tested practices	Share resources
		Aims	List of methods	across DNP programs
		Framework		
AY 2017 - 2018 2018 – 2019 (n=550)	Summarize the scholarship produced in top	Design	Identify potential	Repeat including
		Innovation	barriers	interested DNP
(	programs	Methods	Identify unintended	programs
2 faculty members	Report time-tested practices for consideration	Analytics	consequences	
per school (n=44)		Results	Share strategies	improvement



UNCERTAINTY	THE TECHNOLOGIC INNOVATION INTRODUCED IN THE PROJECT
Low-tech	No new tech introduced
Medium-tech	Some new tech introduced
High-tech	A good deal of new tech introduced
Super high-tech	Tech introduced that was non-existent at the start of the project
PACE	THE SPEED AT WHICH THE PROJECT OR INNOVATION NEEDED TO BE IMPLEMENTED
Regular	Delays were not critical
Fast/Competitive	Time to market was a competitive advantage
Time-Critical	There is a window for success. Time is critical.
Blitz	Crisis situation
COMPLEXITY	EXTENT TO WHICH A PROJECT PENETRATES THROUGH THE ORGANIZATION OR SYSTEM
Assembly	Project involves a sub-system that performs a single function
System	Project involves a collection of sub-systems that perform multiple functions
Array	Project impacts a system of systems

NOVELTY	THE NEWNESS & INNOVATION OF THE PROJECT
Process Improvement	Adjustments were made to the current system
Derivative	Significant improvements made
Platform	A new generation of an existing service or product-line
Breakthrough	New-to-the-world product or service
BUSINESS GOAL	THE CONNECTION BETWEEN THE PROJECT & THE MISSION
Operational	Extends existing business
Strategic	Creates new business
CUSTOMER	THE CUSTOMER TO BE IMPACTED BY THE PROJECT
Internal	Customers you already have. Those internal to the organization.
External	Customers new to the organization. Those inside the organization.
STRATEGIC GOAL	THE PRIMARY INTENT OF THE PROJECT
Extension	Improve or upgrade an existing product or service
Strategic	Create strategic position through new products or markets
Problem Solving	Develop new capability
Maintenance	Routine maintenance. Fixing regular problems
Utility	Keep the lights on. Acquire & install new software or equipment
Research & Development	Explore new ideas



Characteristics of Participating Schools



## The Work of the Projects













### **Evaluation**

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How the Results or Impact of the Project was Evaluated

Method Used to Evaluate Project Results	Percent
Other	43.2%
Pre-Test Post-Test Approach	24.7%
Descriptive Approach	18.8%
Mixed Methods (Qualitative & Quantitative)	2.7%
Qualitative Approach	2.1%
The Project was Considered to be a Pilot	2.1%
Results were not Reported	1.4%
Feasibility of an Intervention was Evaluated	0.7%
Time Series Approach	0.7%
Causal Comparative	0.3%

\*The majority falling under "other" were combinations of the categories

# Theoretical Foundation

Translational Framework

- 33% reported not using a translational framework
- 15% used Knowledge to Action Framework
- 13% used RCPI/PDSA
- Others included
  - PARiHs
  - IHI
  - Ottawa
  - Iowa
  - Rogers Diffusion
  - Lean
  - Planned Adaptation Framework

### Uncertainty, Pace & Complexity



























# Lessons Learned







TOOLS

- Home grown
- Psychometrics not regularly provided
- Great opportunity to improve



TOOLS

- SBIRT
- STOP Bang
- ABCDE Bundle
- AGREE II
- aPCL PTSD Screening
- Caprini Assessment



TOOLS

- Casey Fink Nurse Retention Survey
- HCAPs
- JHM Healthcare Solutions Patient Mobilization Attitudes & Beliefs Tool
- LACE
- Second Victim Experience and Support Tool



### Competing priorities

- Data & technology issues
- Union rep didn't approve
- Short implementation time
- Changing leadership

### CHALLENGES



### CHALLENGES

- IRB processes
- Turnover
- EHR issues
- Staff & MD buy in

### VARNING UNINTENDED ONSEQUENCE AHEAD

UNINTENDED CONSEQUENCES

- Less than anticipated
- Cost to implement
- Cost reduction led to

budget cuts



- Increased knowledge
- Improved communication

- Increased satisfaction
- Increased competence
- Reduced sequelae
- Decreased pain
- Decreased stiffness



- Reduced cost
- Reduced readmission
- Increased access to care
- Reduced delay to care
- Reduced utilization
- Multiple outcomes
- Improved documentation



- EHR improvements
- Process improvements
- Work flow improvements
- Improved patient flow



• Presentations on campus

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- Presentations on site
- Publications
- Posters
- Local podium presentations



	Research Team
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