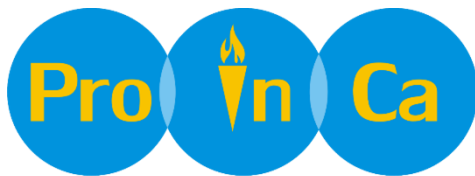




Prospects of Kazakhstani Medical Universities' innovation capacity in development of Nursing

Johanna Heikkilä, JAMK University of Applied Sciences, Finland



Promoting the Innovation Capacity of Higher Education in Nursing during Health Services
Transition



Promoting the Innovation Capacity of Higher Education Nursing in Health Services' Transition - ProInCa



OBJECTIVE:

Developing the sustainable innovation capacity of Kazakhstan's Medical Universities for the modernization of nursing

Specific Objectives of the project:

1. Development of mechanisms for collaboration and knowledge sharing between academic national and international nursing community and society
2. To learn from best practices on implementing evidence-based nursing in nursing research, education and practice to promote the efficiency and quality of health care
3. Strengthen higher education institutes' role in building evidence-based nursing research activities in health services to promote quality and safety of health care system
4. Promote the capacity and system of nursing leadership and management in health care transition to improve the quality of health care system

WP 2.1.
Center for
Nursing
Excellence

WP 2.2.
Evidence
based
nursing

WP 2.3.
Nursing
research

WP 2.4.
Nursing
leadership



Innovation capacity and system

- “measuring the level of invention and the potential for innovation in any nation, geographical area or economic activity” (Pavitt 1982, Porter 1990 ,Suarez –Villa 1990) “a potential of economy, which is protractedly used to create a flow of commercial innovations. “ (Porter 1990)
- innovation system as a network of organizations focused on bringing new processes and new forms of organizations into social and economical use. (World Bank 2007)
- National innovation system consists of 4 elements: 1) research and development; 2) entrepreneurship; 3) finance system; 4) legislation.
- Innovation capacity building is a process in which an organizational context is created that via managerial feedback supports the use and development of the employees’ knowledge, skills and decision-making capabilities in such way that the employees are empowered
- Universities are involved in the creation, sharing and learning of knowledge. The types of knowledge are typically divided into two types of knowledge: explicit and tacit knowledge. Codified knowledge in HE can be technical or academic data/information and is documented and shared in formal languages like reports, books, patents and licenses. Tacit knowledge is knowledge ‘stored’ in people, in their human mind, and is generated through experiences, education and jobs.

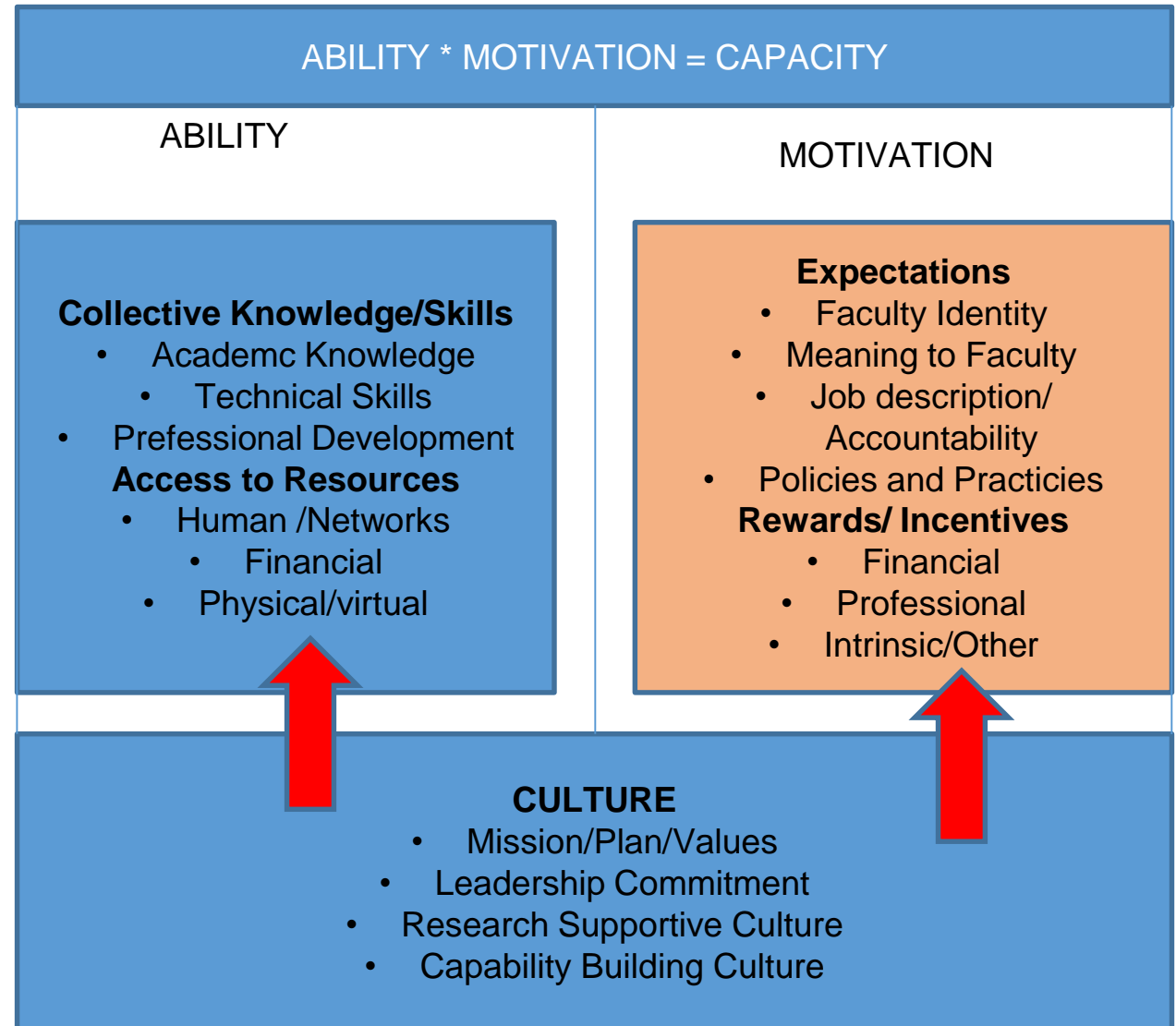


Increasing Organisational Capacity for Research



- an established culture of research positively affects the research performance. On the contrary, lack of leadership, strategy or direction, and lack of 'research mindednesses' are identified as the inhibiting culture to research capacity.
- motivation is a more critical element in staff development than the research skills, supported by personal characteristics including persistence, initiative, and concern for advancement
- increasing the level of funding for research, fostering institutional alliances and networking, incentivizing private investments in public research, providing adequate competitive infrastructure for research.
- renewing the research infrastructure, networking and framework conditions in order to build the international competitiveness.
- the quality of ICT infrastructure as one of the keys to improving the capacity of R&I.

Adaptation of the Birdsell, et al Box Model
(University of Memphis, 2013)





Activities of universities that indicate innovation capacity

- **Skill pool:** Leadership / Governance, Curricula, Teaching and learning, Internationalization
- **Workforcepool:** Graduates, Mobility, Lifelong learning, Talent retention
- **Comercialization:** Ip-income, Spin-off activity, Infrastructure for commercialisation, Incubating facilities
- **Academic engagement:** Collaborative R&D, Consultancy
- **Public Engagement:** Media engagement, Social engagements, education outreach.



Short term Impact



Short term impact	Quantitative indicators	Qualitative indicators
Established Center of Nursing Excellence for collaboration and knowledge sharing	Number of mechanisms (3) for collaboration and knowledge sharing Order of establishing the CNE;	Defined mission, vision and functions show the purposes of the CNE
Enhanced capacity of nursing teachers and shared understanding on evidence based nursing education on the level HEI's	Nro of national educational materials in EBN; Nro of nursing teachers implementing new materials / trained teachers	Nursing teachers level of understanding EBN
Improved nursing research infrastructure	Nro of recommendations on infrastructure (5)	Annual development and budget plan of the KAZ Medical Universities for 2019 and 2020 will contain activities based on recommendation
Increased capacity for international and national collaboration in nursing research	Nro of joint international research projects (4)	The Nursing Research projects launched show connection to the national and regional health strategies
Trained nursing educators and change agents, and organized nurse leaders' network to facilitate the changes in nurse leaders and advanced nurses' roles and responsibilities in health care facilities	Number of trained educators and change agents (24), nro of nursing leadership capacity building materials (10)	Feedback on produced nursing leadership materials;



Long term impact	Quantitative indicators	Qualitative indicators
Sustainable innovation capacity of Kazakhstan's Medical Universities (MU) for the modernization of nursing	Nro (4) of established nursing faculties in MU; Increase (20%) of staff with MA in Nursing; Nro of collaborative mechanisms with Health Care Facilities in each MU	
Sustainable mechanisms for collaboration and knowledge sharing between national and international academic nursing community and society	Number of institutions (100) recognized as users of CE in Nursing Nro of nurses (400) registered as users of e-platform	Users feedback on enhancement of collaboration and knowledge sharing in nursing development
Increased relevance of HEI nursing education for the labour market through the implementation of EBN	80 % of nurses with bachelor and master degree employed to work in accordance their education	Nro of employers with high satisfaction on the graduates' competency on EBN
Strengthened role of Medical Universities in building evidence based nursing research activities in health services	Increase in Nro (5) of MU having stated nursing research activities on their internet page and development plan; Nro (10) of nursing research projects of MU with local health authorities.	Satisfaction of Health care Facilities management to nursing research projects relevance
Improved capacity (competences and skills) and relevance for the labour market on nursing leadership and management in health care transition	Nro of nursing educators and leaders with improved capacity and competences (24);	Participants feedback on nursing leadership capacity development after the workshops
New sustainable system of nursing leadership and management in health care with collaboration of HEI's and HCF	Nro of health care facilities (5) with reorganized nursing management system; National association for nurse managers is established/ initiated	Increased collaboration between HEIs and Health care facilities on nursing leadership and management